Appendix C.
Statistical Methodology

MAIL LIST MODEL

Classification analysis was performed to predict the probability that an addressee on the 1992 mail list operated a farm, and thereby separated the preliminary mail list into probable farm and probable nonfarm classes. The analysis was used to reduce the preliminary census mail list of 3.78 million records to a final mail list size of 3.55 million records. All 3.55 million addresses on the final mail list received a census of agriculture report form.

Records from the 1987 final census mail list were used to build a 1992 prediction model for the 1992 analysis. Classification and Regression Trees (CART) software analyzed characteristics of known 1987 farm and nonfarm operations to determine which were most useful in predicting farm and nonfarm classes. Record characteristics such as the source of the mail list record, number of source lists on which the record appeared, expected value of agricultural sales, and geographic location were used to separate mail list records into model groups. (Sources included the previous agriculture census mail list, the Internal Revenue Service administrative records, U.S. Department of Agriculture, and special commodity lists.) The proportion of 1987 census farm records in each model group was calculated to provide an estimate of the probability that an addressee in the group operated a farm.

After the model groups were defined, each address record on the 1992 preliminary mail list was assigned to a model group by matching record characteristics to model group characteristics. Records belonging to the groups with the highest farm probability were those more likely to be farms according to the classification tree methodology. The model, followed by analyst reviews, was used to remove 229,700 records from the preliminary mail list (those in model groups with the lowest farm probability), and thereby designated the 3.55 million records with the highest farm probability to receive the census report form. This procedure was used to obtain a more complete census enumeration of farm operations without excessive respondent burden and data collection cost.

CENSUS SAMPLE DESIGN

Each of the 3.55 million name and address records on the census mail list was designated to receive one of three different types of census report forms. The three forms were the nonsample form, the screener form, and the sample form. Sections 1 through 20 and 27 through 32 of the sample form are identical to sections on the nonsample form. The sample form, sections 21 through 26, contains additional questions on usage of fertilizers and chemicals, farm production expenditures, value of machinery and equipment, value of land and buildings, and farm-related income. The screener form is identical to the nonsample form with questions added in section 1 to allow quick identification of nonfarm addresses. These three different forms were used to reduce the response burden of the census, while providing reliable information on a large number of data items.

The sample form was mailed to all mail list records in Alaska, Hawaii, and Rhode Island, and to a sample of records in other States selected from the final mail list. Addresses were selected into the sample with certainty (1) if they were expected to have large total value of agricultural products sold or large acreage, (2) if they were multiunit operations (i.e., separate farms in more than one location), (3) if they had other special characteristics, or (4) if they were in a county with less than 100 farms in 1987. Other addresses in counties containing 100 to 199 farms in 1987 were systematically sampled at a rate of 1 in 2, and other addresses in counties containing 200 farms or more in 1987 were systematically sampled at a rate of 1 in 6. This differential sampling scheme was used to provide reliable data for the sample sections of the report form for all counties. When a nonsample large farm was identified during processing, a supplemental form that contained the additional sample data inquiries was mailed.

To determine which mail list records would receive the screener form, all mail list records not designated for the sample were sorted by model group farm probability as specified by the mail list model. The 412,000 mail list records in the model groups with the lowest probability of being farms and with an expected total value of agricultural product sales less than $25,000 were designated to receive the screener report form. The remaining mail list records received the nonsample report form.

CENSUS ESTIMATION

The 1992 Census of Agriculture used two types of statistical estimation procedures. These estimation procedures accounted for nonresponse to the data collection and for the sample data collection. These procedures are necessary because some farm operators never respond to

the census despite numerous attempts to contact them, and the estimates for the sample data are based on a sample of farm operators rather than a full enumeration.

Whole Farm Nonresponse Estimation

A statistical estimation procedure was used to account for nonrespondent farm operators to the census. We excluded large and unique farm operations that received intensive telephone followup during census processing, assuming complete response from them. A stratified systematic sample of remaining census nonrespondents were contacted by enumerators using a computer-assisted telephone interview system. Five sample strata were defined based on expected value of sales, previous census status, and whether the record was identified by the mail list model to receive the screener report form. The nonresponse survey telephone interview was designed to provide sufficient information to determine the farm status of each record.

In situations where the nonresponse survey case could not be contacted, the contact person refused to cooperate, or when no phone number could be obtained, a screener report form was sent by certified mail.

Estimates of the proportion of census nonrespondents that operated farms were made for each stratum in the State using survey results and applied to the total number of census nonrespondents in that stratum. The number of census nonrespondents that operated farms for each county by stratum was then derived. This estimation procedure is based on the assumption that the distribution of farms in a stratum by county is the same for census nonrespondents as for census respondents.

Certain census respondent farms which exhibited ''rare'' commodities were designated as ''ineligible'' to represent census nonrespondent farms and were excluded from the nonresponse weighting operation. The procedure explained below was performed with only the eligible respondent cases: Within each stratum in a county, a noninteger nonresponse weight was calculated and assigned to each eligible respondent farm record. The noninteger nonresponse weight is the ratio of the sum of the estimated number of nonrespondent farms from the nonresponse survey and the number of eligible census respondent farms to the number of eligible census respondent farms. Stratum controls were established to ensure that this weight was never greater than 2.0. The noninteger nonresponse weight was used in the calculation of the final weight for the sample items. The noninteger nonresponse weight was randomly rounded to an integer weight of either 1 or 2 for each record for tabulating the complete count items for publication.

Table A quantifies the effect of the nonresponse estimation procedure on selected census data items. The percentages in these tables are the percents of the census values contributed by nonresponse estimation. These indicate the potential for bias in published figures resulting from nonresponse to the census. The estimates provided in these tables do not reflect the effect of item nonresponse to individual census data items. The effect of item nonresponse is discussed in the Census Nonsampling Error section.

Table A. **Percent of State Totals Contributed by Whole Farm Nonresponse Estimation: 1992**

Item	Percent of total
Farms number	9.1
Land in farms acres	1.7
Estimated market value of land and buildings[1] $1,000	3.8
Market value of agricultural products sold $1,000	2.2
Harvested cropland acres	3.0
Corn for grain or seed acres	1.3
Wheat for grain acres	1.6
Livestock and poultry inventory:	
Cattle and calves number	3.7
Hogs and pigs number	5.0
Hens and pullets of laying age number	.3

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

Sample Estimation

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

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

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

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

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

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

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

CENSUS SAMPLING ERROR

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

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

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

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

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

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

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

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

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

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

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

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

Farms	Relative standard error of estimate (percent)
COMPLETE COUNT ITEM	
Number of farms reporting:	
25	5.2
50	3.4
75	2.6
100	2.0
150	1.2
200	.5
300	.4
500	.3
750	.3
1,000	.2
1,500	.2
2,000	.2
SAMPLE COUNT ITEM	
Number of farms reporting:	
25	36.4
50	25.6
75	20.8
100	17.9
150	14.4
200	12.3
300	9.8
500	7.2
750	5.4
1,000	4.2
1,500	2.5
2,000	.9

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

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

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

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

CENSUS NONSAMPLING ERROR

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

Census Coverage

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

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

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

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

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

Mail List Coverage

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

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

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

Respondent and Enumerator Error

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

Item Nonresponse

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

Processing Error

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

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

Classification Error

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

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

EDITING DATA AND IMPUTATION FOR ITEM NONRESPONSE

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

- Ensuring reasonable relationships between/among data items, values for various sizes of farms, and combinations of commodities.

- Ensuring necessary consistencies are present. There are more than 70 distinct consistency requirements.

- Ensuring geographic, legal, and physical constraints are met.

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

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

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

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

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

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

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

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

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

Item	Total	Relative standard error of estimate (percent)	Item	Total	Relative standard error of estimate (percent)
FARMS AND LAND IN FARMS			**FARM PRODUCTION EXPENSES**[1]		
Farms _____number__	31 892	1.0	Total farm production expenses _____farms __	31 875	1.1
Land in farms _____acres__	17 609 497	.2	$1,000__	1 881 731	.4
Average size of farm _____acres __	552	1.0	Average per farm _____dollars __	59 035	1.2
			Livestock and poultry purchased _____farms __	10 937	1.9
MARKET VALUE OF AGRICULTURAL PRODUCTS SOLD			$1,000__	160 847	1.3
			Feed for livestock and poultry _____farms __	18 983	1.4
			$1,000__	230 557	.9
Total sales (see text) _____farms __	31 892	1.0	Commercially mixed formula feeds _____farms __	6 929	2.5
$1,000__	2 292 973	.3	$1,000__	82 108	1.0
Average per farm _____dollars __	71 898	1.0	Seeds, bulbs, plants, and trees _____farms __	8 422	1.9
			$1,000__	51 855	.8
Farms by value of sales:			Commercial fertilizer _____farms __	16 616	1.4
Less than $1,000 (see text) _____farms __	5 727	1.2	$1,000__	119 158	.9
$1,000__	1 781	1.3	Agricultural chemicals _____farms __	23 952	1.2
$1,000 to $2,499 _____farms __	5 763	1.2	$1,000__	104 042	1.0
$1,000__	9 395	1.2	Petroleum products _____farms __	28 479	1.1
$2,500 to $4,999 _____farms __	4 569	1.3	$1,000__	80 192	.8
$1,000__	16 129	1.3			
$5,000 to $9,999 _____farms __	3 734	1.3	Electricity _____farms __	22 431	1.3
$1,000__	26 216	1.3	$1,000__	45 048	1.0
$10,000 to $19,999 _____farms __	2 946	1.3	Hired farm labor _____farms __	11 480	1.7
$1,000__	41 312	1.3	$1,000__	367 047	.5
$20,000 to $24,999 _____farms __	855	1.5	Contract labor _____farms __	4 850	2.8
$1,000__	18 953	1.5	$1,000__	31 329	3.2
$25,000 to $39,999 _____farms __	1 499	1.5	Repair and maintenance _____farms __	25 574	1.2
$1,000__	47 116	1.5	$1,000__	121 370	.8
$40,000 to $49,999 _____farms __	684	1.6	Customwork, machine hire, and rental of machinery and equipment _____farms __	9 015	2.0
$1,000__	30 142	1.6	$1,000__	38 704	2.0
$50,000 to $99,999 _____farms __	1 940	1.3	Interest expense _____farms __	12 384	1.7
$1,000__	137 533	1.3	$1,000__	133 197	1.2
$100,000 to $249,999 _____farms __	2 155	.7	Secured by real estate _____farms __	9 408	2.0
$1,000__	346 398	.6	$1,000__	90 004	1.6
$250,000 to $499,999 _____farms __	1 118	–	Not secured by real estate _____farms __	5 971	2.3
$1,000__	390 906	–	$1,000__	43 193	1.1
$500,000 or more _____farms __	902	–			
$1,000__	1 227 094	–	Cash rent _____farms __	6 069	2.3
Sales by commodity or commodity group:			$1,000__	85 134	1.3
Crops, including nursery and greenhouse crops _____farms __	14 822	.9	Property taxes _____farms __	29 510	1.1
$1,000__	1 452 213	.3	$1,000__	68 203	1.1
Grains _____farms __	3 528	.8	All other farm production expenses _____farms __	28 623	1.1
$1,000__	205 724	.3	$1,000__	245 048	.8
Corn for grain _____farms __	112	1.6			
$1,000__	6 117	.5			
Wheat _____farms __	2 996	.8	**NET CASH RETURN FROM AGRICULTURAL SALES FOR THE FARM UNIT (SEE TEXT)** [1]		
$1,000__	173 625	.3			
Soybeans _____farms __	–	–			
$1,000__	–	–	All farms _____number__	31 875	1.1
Sorghum for grain _____farms __	–	–	$1,000__	398 979	1.2
$1,000__	–	–	Average per farm _____dollars __	12 517	1.6
Barley _____farms __	882	1.0			
$1,000__	16 767	.6	Farms with net gains [2] _____number__	12 338	1.6
Oats_____farms __	613	1.2	$1,000__	527 951	.7
$1,000__	4 291	1.2	Average net gain _____dollars __	42 791	1.7
Other grains _____farms __	215	1.3			
$1,000__	4 924	1.0	Farms with net losses _____number__	19 537	1.4
			$1,000__	128 972	1.9
Cotton and cottonseed _____farms __	–	–	Average net loss _____dollars __	6 601	2.3
$1,000__	–	–			
Tobacco _____farms __	–	–			
$1,000__	–	–	**GOVERNMENT PAYMENTS AND OTHER FARM-RELATED INCOME**		
Hay, silage, and field seeds _____farms __	7 277	1.0			
$1,000__	269 373	.4			
			Government payments _____farms __	4 350	.8
Vegetables, sweet corn, and melons _____farms __	1 508	.8	$1,000__	51 655	.3
$1,000__	174 208	.2	Other farm-related income [1] _____farms __	8 740	2.2
Fruits, nuts, and berries _____farms __	4 144	1.0	$1,000__	70 926	3.5
$1,000__	248 216	.5	Customwork and other agricultural services _____farms __	2 729	3.9
			$1,000__	20 765	7.3
Nursery and greenhouse crops _____farms __	2 309	.8	Gross cash rent or share payments _____farms __	3 599	3.5
$1,000__	364 343	.1	$1,000__	17 257	4.9
Other crops _____farms __	913	.8	Forest products and Christmas trees _____farms __	2 099	4.3
$1,000__	190 348	.2	$1,000__	25 822	4.6
			Other farm-related income sources _____farms __	2 177	4.1
Livestock, poultry, and their products _____farms __	20 309	1.0	$1,000__	7 083	17.7
$1,000__	840 760	.3			
Poultry and poultry products _____farms __	1 345	1.4			
$1,000__	84 901	.1	**COMMODITY CREDIT CORPORATION LOANS**		
Dairy products _____farms __	813	.9			
$1,000__	208 762	.2			
Cattle and calves _____farms __	15 608	1.0	Total _____farms __	304	1.1
$1,000__	483 601	.3	$1,000__	7 125	.6
Hogs and pigs _____farms __	1 463	1.4			
$1,000__	9 088	1.2			
Sheep, lambs, and wool _____farms __	3 648	1.1			
$1,000__	27 011	.5			
Other livestock and livestock products (see text) _____farms __	3 715	1.2			
$1,000__	27 396	1.3			
Value of agricultural products sold directly to individuals for human consumption (see text) ____farms __	4 263	1.1			
$1,000__	10 323	1.0			

See footnotes at end of table.

1992 CENSUS OF AGRICULTURE

TIPS [UPF] BATCH_19 [ACEN,C_ARLEDGE] 12/22/93 1:18 PM MACHINE: EPCV24 DATA:VOL1_TIPS_APX_92.TIPS;1 * 12/21/93 11:37:00 TAPE: NOreel FRAME: 1
TSF:TIPS92-11375193.DAT;1 12/21/93 11:38:08 UTF:TIPS93-11375193.DAT;1 12/21/93 11:38:09 META:VOL1_TIPS96_APX_92.DAT;9 12/21/93 11:40:00

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

Item	Total	Relative standard error of estimate (percent)	Item	Total	Relative standard error of estimate (percent)
LAND IN FARMS ACCORDING TO USE			**TENURE OF OPERATOR**		
			All operators ------------------------------- farms --	31 892	1.0
Total cropland ------------------------------- farms --	26 508	.9	acres --	17 609 497	.2
acres --	5 037 764	.4	Full owners ------------------------------- farms --	22 152	1.0
Harvested cropland ------------------------- farms --	20 743	.9	acres --	6 722 566	.3
acres --	2 823 972	.4	Part owners ------------------------------- farms --	7 004	.8
Farms by acres harvested:			acres --	8 710 418	.1
1 to 9 acres ------------------------------- farms --	6 966	1.1	Tenants------------------------------------- farms --	2 736	1.2
acres --	26 937	1.1	acres --	2 176 513	.2
10 to 19 acres ----------------------------- farms --	3 154	1.2			
acres --	41 552	1.2	**OWNED AND RENTED LAND**		
20 to 29 acres ----------------------------- farms --	1 824	1.3			
acres --	41 727	1.3	Land owned ------------------------------- farms --	29 248	1.0
30 to 49 acres ----------------------------- farms --	2 031	1.3	acres --	12 551 762	.3
acres --	74 304	1.3	Owned land in farms ------------------- farms --	29 156	1.0
50 to 99 acres ----------------------------- farms --	2 077	1.3	acres --	11 029 722	.2
acres --	143 151	1.3	Land rented or leased from others ------------ farms --	9 822	.8
100 to 199 acres --------------------------- farms --	1 668	1.2	acres --	6 701 591	.2
acres --	227 727	1.2	landlords --	24 901	.7
200 to 499 acres --------------------------- farms --	1 618	.8	Rented or leased land in farms ------------- farms --	9 740	.8
acres --	502 952	.7	acres --	6 579 775	.2
500 to 999 acres --------------------------- farms --	793	.4	Land rented or leased to others ------------- farms --	3 990	1.0
acres --	551 721	.3	acres --	1 643 856	.8
1,000 acres or more ------------------------- farms --	612	—			
acres --	1 213 901	—	**OPERATOR CHARACTERISTICS**		
Cropland:					
Pasture or grazing only ----------------- farms --	13 307	1.0	Operators by place of residence:		
acres --	817 735	.9	On farm operated -----------------------------	26 714	1.0
Other cropland ------------------------- farms --	6 682	.8	Not on farm operated -----------------------	3 730	1.1
acres --	1 396 057	.2	Not reported -------------------------------	1 448	1.1
			Operators by principal occupation:		
Total woodland ----------------------------- farms --	10 367	.9	Farming -----------------------------------	15 306	.9
acres --	1 830 158	.3	Other -------------------------------------	16 586	1.1
Pastureland and rangeland other than cropland and woodland pastured -------------------------- farms --	8 621	.9	Operators by days worked off farm:		
acres --	10 383 818	.1	Any -------------------------------------	18 419	1.1
Land in house lots, ponds, roads, wasteland, etc. ------- farms --	19 078	1.0	200 days or more ---------------------------	12 089	1.1
acres --	357 757	.6	Operators by sex:		
Irrigated land --------------------------- farms --	15 002	1.0	Male ------------------------------------- farms --	27 967	.9
acres --	1 622 235	.5	acres --	16 437 388	.2
Acres irrigated:			Female ------------------------------------- farms --	3 925	1.1
1 to 9 acres ------------------------------- farms --	5 551	1.1	acres --	1 172 109	.3
acres --	20 533	1.2			
10 to 49 acres ----------------------------- farms --	4 627	1.2	Average age of operator ------------------- years --	53.4	1.4
acres --	106 309	1.2			
50 to 99 acres ----------------------------- farms --	1 574	1.3	**FARMS BY TYPE OF ORGANIZATION**		
acres --	109 471	1.3			
100 to 199 acres --------------------------- farms --	1 361	1.2	Individual or family (sole proprietorship) ---------------- farms --	27 506	1.0
acres --	187 701	1.2	acres --	9 941 065	.3
200 to 499 acres --------------------------- farms --	1 209	.8	Partnership------------------------------------- farms --	2 481	1.0
acres --	370 806	.8	acres --	3 172 316	.2
500 to 999 acres --------------------------- farms --	429	.6	Corporation:		
acres --	289 680	.6	Family held ------------------------------- farms --	1 477	.7
1,000 acres or more ------------------------- farms --	251	—	acres --	3 176 873	.1
acres --	537 735	—	More than 10 stockholders ----------------- farms --	29	3.8
			10 or less stockholders ------------------- farms --	1 448	.6
Harvested cropland irrigated ----------------- farms --	11 756	.9	Other than family held ------------------- farms --	195	1.8
acres --	1 237 787	.4	acres --	322 989	.2
Pasture and other land irrigated ------------- farms --	6 090	1.1	More than 10 stockholders ----------------- farms --	25	5.2
acres --	384 448	.7	10 or less stockholders ------------------- farms --	170	1.8
Land under federal acreage reduction programs:			Other—cooperative, estate or trust, institutional, etc. ------ farms --	233	1.7
Diverted under annual commodity programs ---------- farms --	1 504	.7	acres --	996 254	.1
acres --	43 894	.2			
Conservation Reserve or Wetlands Reserve Programs ------------------------------- farms --	1 123	.8	**HIRED FARM LABOR**		
acres --	409 888	.3	Hired workers by days worked:		
			150 days or more ------------------------- farms --	5 012	10.0
VALUE OF LAND AND BUILDINGS [1]			workers --	21 060	3.3
			Less than 150 days ------------------------- farms --	10 657	12.8
Estimated market value of land and buildings ---------- farms --	31 875	1.1	workers --	99 646	7.6
$1,000--	11 823 647	1.0			
Average per farm ------------------------- dollars --	370 938	1.5	**INJURIES AND DEATHS**		
Average per acre ------------------------- dollars --	663	1.4	Farm-related injuries:		
			Operator and family members ----------------- farms --	247	1.6
VALUE OF MACHINERY AND EQUIPMENT [1]			number --	280	1.6
			Hired workers ------------------------------- farms --	602	.7
Estimated market value of all machinery and equipment ------------------------------- farms --	31 771	1.1	number --	1 342	.4
$1,000--	1 532 094	1.0	Farm-related deaths:		
Average per farm ------------------------- dollars --	48 223	1.5	Operator and family members ----------------- farms --	6	8.5
			number --	6	8.5
AGRICULTURAL CHEMICALS [1]			Hired workers ------------------------------- farms --	4	5.9
			number --	4	5.9
Commercial fertilizer ------------------------- farms --	16 515	1.4			
acres on which used --	2 426 366	1.1			

See footnotes at end of table.

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

Item	Total	Relative standard error of estimate (percent)	Item	Total	Relative standard error of estimate (percent)
FARMS BY SIZE			**LIVESTOCK**		
			Cattle and calves inventory _____farms __	17 088	1.0
			number__	1 465 444	.4
			Beef cows _____farms__	13 105	1.0
1 to 9 acres _____farms __	6 319	1.2	number__	629 625	.5
acres__	30 322	1.2	Milk cows _____farms __	1 541	1.0
10 to 49 acres _____farms __	11 235	1.1	number__	99 035	.3
acres__	268 323	1.2			
50 to 69 acres _____farms __	1 909	1.3	Cattle and calves sold _____farms __	15 608	1.0
acres__	110 691	1.3	number__	899 088	.4
70 to 99 acres _____farms __	1 995	1.2	$1,000__	483 601	.3
acres__	163 330	1.2	Hogs and pigs inventory _____farms __	1 669	1.3
100 to 139 acres _____farms __	1 604	1.2	number__	58 276	1.6
acres__	186 156	1.2	Hogs and pigs sold _____farms __	1 463	1.4
			number__	97 427	1.3
			$1,000__	9 088	1.2
140 to 179 acres _____farms __	1 240	1.4	Sheep and lambs of all ages inventory _____farms __	3 639	1.1
acres__	194 583	1.4	number__	392 957	.7
180 to 219 acres _____farms __	830	1.5	Sheep and lambs sold _____farms __	3 469	1.1
acres__	164 047	1.5	number__	441 959	.6
220 to 259 acres _____farms __	560	1.6			
acres__	133 345	1.6	Horses and ponies inventory _____farms __	9 196	1.1
260 to 499 acres _____farms __	2 000	1.3	number__	51 891	1.0
acres__	715 627	1.3	Horses and ponies sold _____farms __	2 435	1.2
500 to 999 acres _____farms __	1 508	1.2	number__	7 095	1.4
acres__	1 047 768	1.2			
			POULTRY		
1,000 to 1,999 acres _____farms __	997	–	Chickens 3 months old or older inventory _____farms __	2 480	1.3
acres__	1 389 860	–	number__	2 954 237	.1
2,000 acres or more _____farms __	1 695	–	Hens and pullets of laying age _____farms __	2 451	1.3
acres__	13 205 445	–	number__	2 699 459	.1
			Broilers and other meat-type chickens sold _____farms __	208	1.9
			number__	18 921 442	.2
FARMS BY STANDARD INDUSTRIAL CLASSIFICATION			**CROPS HARVESTED**		
			Corn for grain or seed _____farms __	153	1.6
			acres__	13 785	.5
			bushels__	2 234 481	.4
Cash grains (011) _____farms __	1 423	.9	Corn for silage or green chop _____farms __	396	1.2
acres__	2 425 400	.2	acres__	22 716	.7
Field crops, except cash grains (013) _____farms __	4 052	1.1	tons, green__	519 965	.6
acres__	1 606 002	.4	Wheat for grain _____farms __	3 025	.8
Vegetables and melons (016) _____farms __	796	1.1	acres__	924 855	.2
acres__	214 310	.3	bushels__	46 527 762	.3
Fruits and tree nuts (017) _____farms __	3 776	1.1	Barley for grain _____farms __	1 096	.9
acres__	230 329	.8	acres__	127 185	.5
Horticultural specialties (018) _____farms __	1 859	.8	bushels__	7 787 057	.6
acres__	85 930	.8	Oats for grain _____farms __	810	1.1
General farms, primarily crop (019) _____farms __	832	1.1	acres__	38 241	1.1
acres__	389 191	.5	bushels__	2 950 737	1.2
Livestock, except dairy, poultry, and animal specialties (021) _____farms __	15 271	1.1	Irish potatoes _____farms __	350	1.1
acres__	11 712 154	.2	acres__	48 856	.3
Dairy farms (024) _____farms __	673	.9	cwt__	22 115 671	.2
acres__	176 246	.5	Sugar beets for sugar _____farms __	148	1.3
Poultry and eggs (025) _____farms __	334	1.7	acres__	20 179	.5
acres__	16 927	1.7	tons__	531 039	.4
Animal specialties (027) _____farms __	2 507	1.3	Hay—alfalfa, other tame, small grain, wild, grass silage, green chop, etc. (see text) _____farms __	12 066	1.0
acres__	215 889	.9	acres__	872 535	.6
General farms, primarily livestock and animal specialties (029) _____farms __	369	1.7	tons, dry__	2 276 437	.6
acres__	537 119	.3	Vegetables harvested for sale (see text) _____farms __	1 509	.8
			acres__	147 616	.2
			Land in orchards _____farms __	4 200	1.0
			acres__	96 166	.7

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

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

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

Item	Total	Relative standard error of estimate (percent)	Item	Total	Relative standard error of estimate (percent)
FARMS AND LAND IN FARMS			**FARM PRODUCTION EXPENSES**[1]		
			Total farm production expenses ___farms __	12 117	1.1
			$1,000__	1 760 394	.4
Farms ___number__	12 099	.9	Average per farm ___dollars __	145 283	1.2
Land in farms ___acres __	15 599 876	.1			
Average size of farm ___acres __	1 289	.9	Livestock and poultry purchased ___farms __	4 043	2.6
			$1,000__	149 911	1.3
			Feed for livestock and poultry ___farms __	6 426	1.9
MARKET VALUE OF AGRICULTURAL PRODUCTS SOLD			$1,000__	217 286	.9
			Commercially mixed formula feeds ___farms __	2 619	3.5
			$1,000__	79 803	1.0
Total sales (see text) ___farms __	12 099	.9	Seeds, bulbs, plants, and trees ___farms __	5 365	2.0
$1,000__	2 239 453	.2	$1,000__	50 922	.8
Average per farm ___dollars __	185 094	1.0	Commercial fertilizer ___farms __	8 674	1.5
			$1,000__	115 560	.9
Farms by value of sales:			Agricultural chemicals ___farms __	9 292	1.4
$10,000 to $19,999 ___farms __	2 946	1.3	$1,000__	98 454	.9
$1,000__	41 312	1.3	Petroleum products ___farms __	11 781	1.1
$20,000 to $24,999 ___farms __	855	1.5	$1,000__	72 706	.8
$1,000__	18 953	1.5	Electricity ___farms __	10 189	1.4
$25,000 to $39,999 ___farms __	1 499	1.5	$1,000__	41 462	1.0
$1,000__	47 116	1.5			
$40,000 to $49,999 ___farms __	684	1.6	Hired farm labor ___farms __	7 052	1.7
$1,000__	30 142	1.6	$1,000__	363 647	.5
			Contract labor ___farms __	2 847	3.3
$50,000 to $99,999 ___farms __	1 940	1.3	$1,000__	29 699	3.3
$1,000__	137 533	1.3	Repair and maintenance ___farms __	11 109	1.2
$100,000 to $249,999 ___farms __	2 155	.7	$1,000__	107 638	.8
$1,000__	346 398	.6	Customwork, machine hire, and rental of machinery and equipment ___farms __	4 940	2.3
$250,000 to $499,999 ___farms __	1 118	–	$1,000__	36 616	2.1
$1,000__	390 906	–	Interest expense ___farms __	7 275	1.8
$500,000 or more ___farms __	902	–	$1,000__	116 872	1.2
$1,000__	1 227 094	–	Secured by real estate ___farms __	5 079	2.2
Sales by commodity or commodity group:			$1,000__	75 143	1.7
Crops, including nursery and greenhouse crops ___farms __	8 030	.9	Not secured by real estate ___farms __	4 510	2.4
$1,000__	1 435 124	.2	$1,000__	41 728	1.1
Grains ___farms __	3 022	.8			
$1,000__	204 183	.3	Cash rent ___farms __	4 577	2.5
Corn for grain ___farms __	105	1.6	$1,000__	83 498	1.3
$1,000__	6 099	.5	Property taxes ___farms __	10 879	1.3
Wheat ___farms __	2 652	.7	$1,000__	43 148	1.2
$1,000__	172 527	.3	All other farm production expenses ___farms __	12 114	1.1
Soybeans ___farms __	–	–	$1,000__	232 975	.8
$1,000__	–	–			
Sorghum for grain ___farms __	–	–	**NET CASH RETURN FROM AGRICULTURAL SALES FOR THE FARM UNIT (SEE TEXT)** [1]		
$1,000__	–	–			
Barley ___farms __	809	1.0			
$1,000__	16 593	.6			
Oats ___farms __	480	1.3	All farms ___number __	12 117	1.1
$1,000__	4 069	1.2	$1,000__	466 885	.9
Other grains ___farms __	197	1.3	Average per farm ___dollars __	38 531	1.4
$1,000__	4 896	1.0			
			Farms with net gains [2] ___number __	8 645	1.6
Cotton and cottonseed ___farms __	–	–	$1,000__	522 323	.7
$1,000__	–	–	Average net gain ___dollars __	60 419	1.7
Tobacco ___farms __	–	–			
$1,000__	–	–	Farms with net losses ___number __	3 472	3.1
Hay, silage, and field seeds ___farms __	3 610	1.1	$1,000__	55 438	2.7
$1,000__	262 746	.4	Average net loss ___dollars __	15 967	4.2
Vegetables, sweet corn, and melons ___farms __	1 091	.8			
$1,000__	173 364	.2	**GOVERNMENT PAYMENTS AND OTHER FARM-RELATED INCOME**		
Fruits, nuts, and berries ___farms __	2 195	1.1			
$1,000__	243 560	.5			
Nursery and greenhouse crops ___farms __	1 374	.8	Government payments ___farms __	3 146	.7
$1,000__	361 129	.1	$1,000__	46 152	.2
Other crops ___farms __	841	.8	Other farm-related income [1] ___farms __	3 980	2.8
$1,000__	190 142	.2	$1,000__	48 866	3.6
			Customwork and other agricultural services ___farms __	1 475	5.0
Livestock, poultry, and their products ___farms __	7 125	1.0	$1,000__	18 503	8.1
$1,000__	804 329	.3	Gross cash rent or share payments ___farms __	1 524	5.1
Poultry and poultry products ___farms __	237	1.6	$1,000__	10 772	6.0
$1,000__	84 509	.1	Forest products and Christmas trees ___farms __	649	6.8
Dairy products ___farms __	710	.9	$1,000__	14 505	4.3
$1,000__	208 544	.2	Other farm-related income sources ___farms __	1 492	4.6
Cattle and calves ___farms __	6 120	.9	$1,000__	5 087	3.3
$1,000__	457 102	.3			
Hogs and pigs ___farms __	372	1.6	**COMMODITY CREDIT CORPORATION LOANS**		
$1,000__	7 863	1.4			
Sheep, lambs, and wool ___farms __	1 112	1.3			
$1,000__	23 681	.4			
Other livestock and livestock products (see text) ___farms __	1 075	1.3			
$1,000__	22 630	1.4			
Value of agricultural products sold directly to individuals for human consumption (see text) ___farms __	911	1.3	Total ___farms __	285	1.0
$1,000__	6 556	1.1	$1,000__	7 068	.6

See footnotes at end of table.

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

Item	Total	Relative standard error of estimate (percent)
LAND IN FARMS ACCORDING TO USE		
Total cropland ____ farms	11 053	.9
acres	4 442 844	.3
Harvested cropland ____ farms	9 956	.9
acres	2 663 733	.3
Cropland:		
Pasture or grazing only ____ farms	4 506	1.1
acres	552 491	.9
Total woodland ____ farms	3 520	.9
acres	1 437 996	.2
Pastureland and rangeland other than cropland and woodland pastured ____ farms	3 795	.8
acres	9 440 690	.1
Land in house lots, ponds, roads, wasteland, etc. ____ farms	6 861	1.0
acres	278 346	.5
Irrigated land ____ farms	7 640	1.0
acres	1 498 885	.5
Harvested cropland irrigated ____ farms	6 778	.9
acres	1 182 290	.4
Pasture and other land irrigated ____ farms	2 482	1.2
acres	316 595	.7
Land under federal acreage reduction programs:		
Diverted under annual commodity programs ____ farms	1 437	.7
acres	43 452	.2
Conservation Reserve or Wetlands Reserve Programs ____ farms	812	.7
acres	314 047	.2
VALUE OF LAND AND BUILDINGS [1]		
Estimated market value of land and buildings ____ farms	12 117	1.1
$1,000	8 534 219	1.0
Average per farm ____ dollars	704 318	1.5
Average per acre ____ dollars	543	1.5
VALUE OF MACHINERY AND EQUIPMENT [1]		
Estimated market value of all machinery and equipment ____ farms	12 117	1.1
$1,000	1 170 194	1.1
Average per farm ____ dollars	96 575	1.5
AGRICULTURAL CHEMICALS[1]		
Commercial fertilizer ____ farms	8 648	1.5
acres on which used	2 320 760	1.1
TENURE OF OPERATOR		
All operators ____ farms	12 099	.9
acres	15 599 876	.1
Full owners ____ farms	5 956	1.1
acres	5 470 336	.2
Part owners ____ farms	4 543	.8
acres	8 162 520	.1
Tenants ____ farms	1 600	1.2
acres	1 967 020	.2
OWNED AND RENTED LAND		
Land owned ____ farms	10 548	.9
acres	10 758 649	.2
Owned land in farms ____ farms	10 499	.9
acres	9 522 614	.2
Land rented or leased from others ____ farms	6 186	.8
acres	6 176 763	.1
landlords	19 328	.6
Rented or leased land in farms ____ farms	6 143	.8
acres	6 077 262	.1
Land rented or leased to others ____ farms	1 728	1.1
acres	1 335 536	.8
OPERATOR CHARACTERISTICS		
Operators by place of residence:		
On farm operated	9 629	.9
Not on farm operated	1 924	1.2
Not reported	546	1.1
Operators by principal occupation:		
Farming	9 092	.9
Other	3 007	1.2
Operators by days worked off farm:		
Any	4 866	1.1
200 days or more	2 408	1.2
Operators by sex:		
Male	11 102	.9
Female	997	1.2
Average age of operator ____ years	52.8	1.3

Item	Total	Relative standard error of estimate (percent)
FARMS BY TYPE OF ORGANIZATION		
Individual or family (sole proprietorship) ____ farms	8 925	1.0
acres	8 551 395	.2
Partnership ____ farms	1 653	1.0
acres	2 975 601	.1
Corporation:		
Family held ____ farms	1 268	.6
acres	3 069 868	(L)
More than 10 stockholders ____ farms	28	3.4
10 or less stockholders ____ farms	1 240	.6
Other than family held ____ farms	150	1.7
acres	315 785	.2
More than 10 stockholders ____ farms	18	5.9
10 or less stockholders ____ farms	132	1.7
Other—cooperative, estate or trust, institutional, etc. ____ farms	103	2.5
acres	687 227	.1
HIRED FARM LABOR		
Hired workers by days worked:		
150 days or more ____ farms	3 843	9.4
workers	19 829	2.8
Less than 150 days ____ farms	6 299	13.7
workers	88 438	7.5
INJURIES AND DEATHS		
Farm-related injuries:		
Operator and family members ____ farms	133	1.5
number	155	1.5
Hired workers ____ farms	561	.6
number	1 288	.3
Farm-related deaths:		
Operator and family members ____ farms	2	—
number	(D)	(D)
Hired workers ____ farms	4	5.9
number	(D)	(D)
FARMS BY SIZE		
1 to 9 acres	851	1.3
10 to 49 acres	2 190	1.3
50 to 69 acres	628	1.5
70 to 99 acres	833	1.4
100 to 139 acres	830	1.5
140 to 179 acres	704	1.6
180 to 219 acres	535	1.7
220 to 259 acres	384	1.8
260 to 499 acres	1 491	1.3
500 to 999 acres	1 213	1.2
1,000 to 1,999 acres	861	—
2,000 acres or more	1 579	—
FARMS BY STANDARD INDUSTRIAL CLASSIFICATION		
Cash grains (011)	1 075	.9
Field crops, except cash grains (013)	1 784	1.2
Vegetables and melons (016)	560	1.1
Fruits and tree nuts (017)	1 750	1.3
Horticultural specialties (018)	1 072	.8
General farms, primarily crop (019)	423	1.2
Livestock, except dairy, poultry, and animal specialties (021)	4 283	1.0
Dairy farms (024)	625	.8
Poultry and eggs (025)	95	1.5
Animal specialties (027)	405	1.9
General farms, primarily livestock and animal specialties (029)	27	5.1
LIVESTOCK		
Cattle and calves inventory ____ farms	6 128	.9
number	1 302 210	.4
Beef cows ____ farms	4 764	1.0
number	554 573	.4
Milk cows ____ farms	982	.9
number	97 948	.3
Cattle and calves sold ____ farms	6 120	.9
number	835 974	.4
$1,000	457 102	.3
Hogs and pigs inventory ____ farms	406	1.6
number	48 766	1.8
Hogs and pigs sold ____ farms	372	1.6
number	84 107	1.5
$1,000	7 863	1.4
Sheep and lambs of all ages inventory ____ farms	1 092	1.3
number	308 103	.7
Sheep and lambs sold ____ farms	1 071	1.3
number	372 282	.5
Horses and ponies inventory ____ farms	2 886	1.0
number	20 531	1.0
Horses and ponies sold ____ farms	702	1.3
number	3 578	2.0

See footnotes at end of table.

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

Item	Total	Relative standard error of estimate (percent)	Item	Total	Relative standard error of estimate (percent)
POULTRY			**CROPS HARVESTED**—Con.		
			Barley for grain _____ farms __	996	.9
Chickens 3 months old or older inventory _____ farms __	409	1.6	acres__	124 991	.5
number__	2 904 874	.1	bushels__	7 691 391	.6
Hens and pullets of laying age _____ farms __	403	1.6	Oats for grain _____ farms __	613	1.2
number__	2 663 489	.1	acres__	34 611	1.1
			bushels__	2 755 821	1.2
Broilers and other meat-type chickens sold _____ farms __	89	2.0	Irish potatoes _____ farms __	309	1.0
number__	18 906 130	.2	acres__	48 813	.3
			cwt__	22 105 668	.2
CROPS HARVESTED			Sugar beets for sugar _____ farms __	144	1.2
			acres__	20 143	.5
Corn for grain or seed _____ farms __	129	1.5	tons__	530 384	.4
acres__	13 661	.5	Hay—alfalfa, other tame, small grain, wild, grass silage, green chop, etc. (see text) _____ farms __	5 073	1.0
bushels__	2 224 652	.4	acres__	742 221	.6
Corn for silage or green chop _____ farms __	359	1.1	tons, dry__	2 046 647	.6
acres__	22 519	.7	Vegetables harvested for sale (see text) _____ farms __	1 092	.8
tons, green __	517 273	.6	acres__	146 842	.2
Wheat for grain _____ farms __	2 669	.7	Land in orchards _____ farms __	1 628	1.1
acres__	916 724	.2	acres__	83 539	.7
bushels__	46 206 909	.3			

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

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__	−.4	1.3	3.3	1.1
Land in farms _____ acres __	−1.1	.2	1.0	.2
Average size of farm _____ acres __	−.7	1.3	−2.3	1.1
Estimated market value of land and buildings [1]:				
Average per farm _____ dollars __	23.7	2.2	18.8	2.2
Average per acre _____ dollars __	22.3	2.4	19.9	2.6
Estimated market value of all machinery and equipment [1]:				
Average per farm _____ dollars __	27.0	2.4	18.8	2.3
Farms by size:				
1 to 9 acres _____	15.4	2.1	34.2	2.3
10 to 49 acres _____	−1.9	1.6	15.8	1.9
50 to 179 acres _____	−6.5	1.4	−.5	1.6
180 to 499 acres _____	−6.3	1.4	−2.8	1.5
500 to 999 acres _____	−3.3	1.4	−3.4	1.4
1,000 to 1,999 acres _____	−1.1	−	−.7	−
2,000 acres or more _____	.5	−	.5	−
Total cropland _____ farms __	−3.0	1.2	1.7	1.1
acres__	−3.8	.5	−3.4	.4
Harvested cropland _____ farms __	−4.5	1.1	.1	1.1
acres__	−.3	.4	1.2	.4
Irrigated land _____ farms __	4.1	1.3	4.8	1.2
acres__	−1.6	.6	−.9	.5
Market value of agricultural products sold _____ $1,000 __	24.2	.4	25.1	.4
Average per farm _____ dollars __	24.7	1.7	21.0	1.4
Crops, including nursery and greenhouse crops _____ $1,000 __	38.5	.4	39.1	.4
Livestock, poultry, and their products _____ $1,000 __	5.4	.3	6.0	.3
Farms by value of sales:				
Less than $2,500 _____	−2.2	1.4	(X)	(X)
$2,500 to $4,999 _____	−4.5	1.7	(X)	(X)
$5,000 to $9,999 _____	−1.0	1.7	(X)	(X)
$10,000 to $24,999 _____	2.8	1.7	2.8	1.7
$25,000 to $49,999 _____	−.5	1.8	−.5	1.8
$50,000 to $99,999 _____	−1.6	1.6	−1.6	1.6
$100,000 to $249,999 _____	−1.4	.7	−1.4	.7
$250,000 to $499,999 _____	7.7	.1	7.7	.1
$500,000 or more _____	45.2	.1	45.2	.1
Total farm production expenses [1] _____ $1,000__	22.6	1.4	23.9	1.4
Average per farm _____ dollars __	23.1	1.6	19.8	1.6
Net cash return from agricultural sales for the farm unit (see text) [1] _____ farms__	−.4	1.2	3.5	1.2
$1,000__	32.7	2.6	29.7	2.1
Average per farm _____ dollars __	33.3	3.1	25.4	2.5
Operators by principal occupation:				
Farming _____	−.3	1.1	.3	1.1
Other _____	−.4	1.6	13.8	1.7
Operators by days worked off farm:				
Any_____	−2.5	5.0	4.4	5.4
200 days or more _____	−4.4	4.9	6.8	5.5
Livestock and poultry:				
Cattle and calves inventory _____ farms __	−2.4	1.3	.7	1.1
number__	−2.5	.5	−2.3	.4
Beef cows _____ farms __	−2.0	1.3	5.9	1.2
number__	1.7	.6	2.7	.5
Milk cows _____ farms __	−20.4	1.0	−16.9	.9
number__	3.9	.4	4.4	.4
Cattle and calves sold _____ farms __	−7.2	1.2	−.2	1.1
number__	−5.9	.4	−5.0	.4
Hogs and pigs inventory _____ farms __	12.6	2.1	−20.5	1.6
number__	−32.5	1.3	−37.0	1.3
Hogs and pigs sold _____ farms __	4.5	2.0	−21.0	1.6
number__	−32.2	1.2	−35.2	1.2
Sheep and lambs inventory _____ farms __	−12.1	1.3	−19.2	1.3
number__	−16.4	.9	−16.6	.8
Chickens 3 months old or older inventory _____ farms __	−22.0	1.4	−31.1	1.3
number__	−3.1	.1	−3.1	.1
Broilers and other meat-type chickens sold _____ farms __	−7.6	2.6	9.9	3.0
number__	32.8	.3	32.9	.3
Selected crops harvested:				
Wheat for grain _____ farms __	−22.2	.8	−18.5	.8
acres__	10.3	.3	11.0	.3
bushels__	−10.3	.3	−9.9	.3
Barley for grain _____ farms __	−39.3	.7	−38.5	.7
acres__	−31.8	.4	−31.8	.4
bushels__	−36.5	.4	−36.4	.4
Oats for grain _____ farms __	−28.6	1.1	−23.7	1.2
acres__	−8.0	1.3	−4.2	1.4
bushels__	6.2	1.6	10.4	1.7
Hay—alfalfa, other tame, small grain, wild, grass silage, green chop, etc. (see text) _____ farms __	−13.3	1.1	−10.5	1.1
acres__	−7.6	.7	−5.6	.6
tons, dry __	−2.8	.7	−.3	.7
Vegetables harvested for sale (see text) _____ farms __	−1.3	1.1	−5.8	1.0
acres__	3.8	.3	3.8	.3
Land in orchards _____ farms __	−4.8	1.3	.4	1.4
acres__	5.6	1.0	11.3	1.0

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

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

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

Geographic area	Farms Total (number)	Farms Relative standard error of estimate (percent)	Land in farms Total (acres)	Land in farms Relative standard error of estimate (percent)	Average size of farm Total (acres)	Average size of farm Relative standard error of estimate (percent)	Average market value of land and buildings per farm [1] Value (dollars)	Average market value of land and buildings per farm [1] Relative standard error of estimate (percent)	Estimated market value of all machinery and equipment [1] Total ($1,000)	Estimated market value of all machinery and equipment [1] Relative standard error of estimate (percent)
Oregon	**31 892**	**1.0**	**17 609 497**	**.2**	**552**	**1.0**	**370 938**	**1.5**	**1 532 094**	**1.0**
Baker	593	1.7	818 736	.3	1 381	1.7	509 924	3.9	33 703	6.5
Benton	658	.9	118 818	.9	181	1.3	343 901	4.2	33 741	3.0
Clackamas	3 155	.9	148 848	.9	47	1.3	233 136	2.9	102 486	2.6
Clatsop	233	1.1	24 740	2.3	106	2.5	180 844	11.3	4 706	12.5
Columbia	661	.9	71 839	1.0	109	1.4	236 364	11.2	15 126	7.4
Coos	722	1.3	174 872	.9	242	1.6	301 592	8.6	20 838	5.5
Crook	503	1.1	894 853	.1	1 779	1.1	456 612	5.7	25 242	5.7
Curry	177	1.3	74 375	.9	420	1.6	531 029	6.8	6 302	3.9
Deschutes	1 036	1.4	139 483	.9	135	1.6	234 107	4.8	24 931	5.7
Douglas	1 823	1.0	402 023	.7	221	1.3	268 486	5.6	44 998	7.8
Gilliam	143	.3	766 373	.1	5 359	.3	981 494	3.3	16 993	3.2
Grant	394	.8	1 154 399	.1	2 930	.8	642 630	6.0	15 558	8.0
Harney	442	1.2	1 457 339	.1	3 297	1.2	856 347	5.9	26 090	6.4
Hood River	563	1.1	27 201	1.4	48	1.8	281 531	4.2	29 143	4.9
Jackson	1 573	1.1	262 251	.7	167	1.2	281 734	4.6	51 629	4.1
Jefferson	345	1.0	530 960	.2	1 539	1.0	496 783	4.2	28 794	7.2
Josephine	607	.9	31 249	1.5	51	1.8	181 973	7.7	14 861	9.8
Klamath	954	2.0	720 153	.7	755	2.1	480 199	5.5	69 917	7.0
Lake	366	1.0	833 025	.2	2 276	1.0	730 199	8.9	23 178	8.5
Lane	1 969	.9	242 121	.7	123	1.2	258 863	4.9	70 371	4.9
Lincoln	283	1.2	34 292	2.1	121	2.4	202 434	6.9	5 834	15.6
Linn	1 948	1.0	380 464	.6	195	1.1	322 921	2.5	101 295	3.4
Malheur	1 186	1.1	1 318 447	.2	1 112	1.1	525 126	5.8	97 761	3.2
Marion	2 494	1.0	302 462	.6	121	1.1	360 561	3.2	165 231	2.4
Morrow	348	.7	1 119 004	.1	3 216	.7	1 109 442	4.6	57 859	3.6
Multnomah	602	1.1	31 294	1.0	52	1.5	252 843	5.8	22 224	4.7
Polk	1 027	.9	167 880	.7	163	1.2	304 668	2.9	44 031	3.8
Sherman	179	.5	487 534	.1	2 724	.5	779 164	4.7	20 652	4.1
Tillamook	338	.7	39 559	.7	117	1.0	354 124	2.6	20 358	2.3
Umatilla	1 441	.9	1 466 580	.2	1 018	.9	490 907	2.4	110 055	2.6
Union	751	1.0	473 316	.5	630	1.1	317 302	5.8	37 072	5.4
Wallowa	459	1.0	694 304	.2	1 513	1.0	478 391	5.2	20 881	9.7
Wasco	456	.9	1 152 965	.1	2 528	.9	971 253	3.7	30 940	4.5
Washington	1 627	.8	139 820	.7	86	1.1	388 474	4.3	66 307	3.6
Wheeler	145	.5	728 131	.1	5 022	.5	1 006 613	3.9	8 160	13.5
Yamhill	1 691	.9	179 787	.8	106	1.2	294 376	3.2	64 828	3.2

Geographic area	Average market value of all machinery and equipment per farm [1] Value (dollars)	Average market value of all machinery and equipment per farm [1] Relative standard error of estimate (percent)	Market value of agricultural products sold Total ($1,000)	Market value of agricultural products sold Relative standard error of estimate (percent)	Average market value of agricultural products sold per farm Value (dollars)	Average market value of agricultural products sold per farm Relative standard error of estimate (percent)	Farm production expenses [1] — Total farm production expenses — Farms Number	Farm production expenses [1] — Total farm production expenses — Farms Relative standard error of estimate (percent)	Farm production expenses [1] — Total farm production expenses — Value Total ($1,000)	Farm production expenses [1] — Total farm production expenses — Value Relative standard error of estimate (percent)
Oregon	**48 223**	**1.5**	**2 292 973**	**.3**	**71 898**	**1.0**	**31 875**	**1.1**	**1 881 731**	**.4**
Baker	57 124	6.7	39 033	.9	65 823	1.9	593	1.7	33 083	2.4
Benton	51 357	3.2	37 272	.4	56 644	1.0	657	1.2	37 030	2.2
Clackamas	32 743	2.8	151 211	.3	47 927	1.0	3 152	1.0	133 296	1.1
Clatsop	20 197	12.5	6 557	1.1	28 141	1.6	233	1.3	5 083	3.1
Columbia	23 094	7.5	12 263	.8	18 552	1.2	661	1.2	12 820	7.2
Coos	29 103	5.7	27 527	1.3	38 126	1.8	722	1.3	20 461	4.3
Crook	50 284	5.9	28 073	.6	55 811	1.2	502	1.5	23 368	3.0
Curry	35 809	4.5	10 457	.7	59 080	1.4	176	2.3	7 377	3.8
Deschutes	24 229	6.0	16 360	1.4	15 792	1.9	1 036	1.6	16 568	4.7
Douglas	24 697	7.8	31 232	.7	17 132	1.3	1 822	1.2	29 625	3.6
Gilliam	118 834	3.4	17 306	.1	121 023	.3	143	1.2	14 708	1.3
Grant	39 587	8.0	18 150	.4	46 066	.9	393	1.0	16 321	3.1
Harney	59 028	6.6	35 402	.4	80 095	1.3	442	1.4	30 894	6.2
Hood River	51 856	5.1	54 921	.7	97 551	1.3	562	1.5	41 338	2.1
Jackson	33 159	4.4	51 633	.5	32 825	1.2	1 572	1.3	47 628	1.7
Jefferson	83 460	7.3	42 456	.5	123 061	1.1	345	1.3	33 580	3.3
Josephine	24 483	9.9	12 300	.7	20 264	1.2	607	1.0	12 134	2.8
Klamath	73 288	7.4	85 035	.8	89 135	2.2	954	2.2	71 967	2.2
Lake	63 327	8.6	36 574	.5	99 930	1.1	366	.9	28 475	4.3
Lane	35 757	5.0	70 225	.4	35 665	1.0	1 968	1.1	64 264	1.4
Lincoln	20 689	15.7	5 779	2.2	20 421	2.5	282	1.6	5 612	15.1
Linn	52 026	3.6	139 526	.3	71 626	1.0	1 947	1.1	110 082	1.4
Malheur	82 359	3.5	199 678	.3	168 363	1.1	1 187	1.4	144 771	.9
Marion	66 331	2.7	313 155	.2	125 563	1.0	2 491	1.3	244 747	.6
Morrow	166 261	3.8	94 132	.2	270 495	.7	348	1.0	82 904	1.2
Multnomah	37 288	5.0	38 667	.5	64 231	1.2	603	1.6	28 502	2.7
Polk	42 915	4.0	65 608	.4	63 883	1.0	1 026	1.1	55 736	1.9
Sherman	115 372	4.6	20 585	.1	115 000	.5	179	2.0	15 321	2.4
Tillamook	60 231	2.5	63 663	.4	188 352	.8	338	1.0	52 244	1.6

See footnotes at end of table.

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

Geographic area	Average market value of all machinery and equipment per farm[1] Value (dollars)	Relative standard error of estimate (percent)	Market value of agricultural products sold Total ($1,000)	Relative standard error of estimate (percent)	Average market value of agricultural products sold per farm Value (dollars)	Relative standard error of estimate (percent)	Farm production expenses[1] — Total farm production expenses — Farms Number	Relative standard error of estimate (percent)	Value Total ($1,000)	Relative standard error of estimate (percent)
Umatilla	76 374	2.8	186 690	.2	129 556	.9	1 441	1.1	158 390	1.0
Union	49 895	5.6	46 422	.4	61 814	1.1	751	1.1	38 501	1.6
Wallowa	46 401	9.9	28 679	.7	62 481	1.2	459	1.3	22 870	5.0
Wasco	67 850	4.7	48 743	.3	106 891	1.0	456	1.1	35 721	1.5
Washington	41 159	3.7	127 539	.3	78 389	.9	1 625	1.0	103 643	1.5
Wheeler	56 275	13.7	6 485	.4	44 726	.6	145	1.8	5 944	4.4
Yamhill	38 496	3.4	123 633	.3	73 112	.9	1 691	1.2	96 725	1.0

Farm production expenses[1] —Con.

Geographic area	Livestock and poultry purchased — Farms Number	Relative standard error of estimate (percent)	Value Total ($1,000)	Relative standard error of estimate (percent)	Feed for livestock and poultry — Farms Number	Relative standard error of estimate (percent)	Value Total ($1,000)	Relative standard error of estimate (percent)	Seeds, bulbs, plants, and trees — Farms Number	Relative standard error of estimate (percent)	Value Total ($1,000)	Relative standard error of estimate (percent)
Oregon	**10 937**	**1.9**	**160 847**	**1.3**	**18 983**	**1.4**	**230 557**	**.9**	**8 422**	**1.9**	**51 855**	**.8**
Baker	293	7.3	6 649	4.3	451	4.5	4 784	4.9	173	12.3	330	11.7
Benton	216	12.6	536	19.8	355	7.4	3 549	2.8	273	10.7	1 091	12.0
Clackamas	947	5.2	4 473	8.5	1 767	2.8	18 203	5.2	780	5.3	5 306	2.0
Clatsop	81	19.1	558	7.0	193	7.4	1 958	2.7	40	34.9	22	49.0
Columbia	228	12.5	2 022	34.1	518	4.7	1 565	4.0	74	21.5	(D)	(D)
Coos	295	9.9	2 606	11.6	483	5.8	3 920	9.9	140	17.2	78	16.8
Crook	182	14.0	4 343	2.0	329	7.4	2 713	5.3	47	14.7	240	26.2
Curry	50	9.8	412	8.6	120	5.0	480	12.2	24	16.2	123	26.6
Deschutes	473	7.1	2 257	16.2	722	4.4	1 843	6.4	118	19.7	482	3.6
Douglas	678	6.5	7 013	7.7	1 287	3.3	3 346	5.0	264	11.6	230	14.7
Gilliam	53	9.9	1 016	4.4	83	5.9	1 314	4.2	84	5.7	556	4.0
Grant	205	10.3	3 201	10.6	273	8.1	3 482	6.0	61	21.9	77	18.0
Harney	215	11.2	5 076	11.9	361	6.2	5 564	10.8	109	22.7	244	17.1
Hood River	98	24.1	852	57.0	155	15.5	589	12.8	121	14.7	393	10.2
Jackson	656	6.9	4 248	7.8	1 024	4.0	4 270	6.2	304	9.9	407	10.9
Jefferson	134	14.9	6 458	3.0	188	8.6	1 867	9.7	133	12.4	531	4.3
Josephine	241	11.7	785	7.2	355	7.6	3 279	2.7	111	18.0	179	8.1
Klamath	395	8.4	12 138	7.2	640	5.4	10 333	4.2	237	11.3	1 725	5.7
Lake	162	12.4	3 842	10.7	289	6.2	3 354	5.4	90	19.0	237	10.2
Lane	688	6.3	7 948	3.4	1 249	3.5	9 787	1.2	405	8.2	1 479	4.9
Lincoln	104	12.7	256	29.5	207	5.9	622	40.2	41	28.0	(D)	(D)
Linn	696	6.6	5 561	5.6	1 260	3.6	11 140	3.2	446	7.6	1 769	3.3
Malheur	446	8.2	18 182	2.2	673	4.9	20 310	3.0	646	5.1	4 033	2.1
Marion	566	8.3	5 956	4.9	1 154	4.3	22 824	2.9	763	6.4	7 431	1.3
Morrow	145	12.3	3 002	6.2	201	8.4	2 065	5.1	164	8.3	3 950	2.0
Multnomah	141	14.6	183	16.8	218	10.1	312	18.5	170	11.1	1 664	5.4
Polk	328	9.2	3 030	8.6	573	5.6	10 923	1.6	254	9.7	688	6.0
Sherman	29	11.6	490	1.9	87	7.4	1 989	1.4	113	5.0	799	4.8
Tillamook	124	12.3	2 104	4.0	300	3.4	26 913	2.2	37	21.7	29	12.0
Umatilla	412	9.6	22 898	1.5	778	4.7	18 486	1.8	641	5.2	6 237	1.9
Union	294	10.4	11 844	2.7	495	5.7	2 511	9.0	277	9.5	863	6.2
Wallowa	234	10.9	2 995	10.4	352	6.3	3 943	7.8	94	21.8	247	11.1
Wasco	122	13.5	1 872	9.1	220	6.7	1 490	7.2	180	7.8	560	6.6
Washington	385	9.3	1 548	16.0	647	5.8	5 677	2.8	538	6.0	4 692	2.7
Wheeler	60	12.0	809	7.7	96	6.8	1 081	11.1	30	12.2	53	13.5
Yamhill	561	6.5	3 683	3.0	880	4.4	14 070	1.4	440	7.3	4 249	3.1

Farm production expenses[1] —Con.

Geographic area	Commercial fertilizer — Farms Number	Relative standard error of estimate (percent)	Value Total ($1,000)	Relative standard error of estimate (percent)	Agricultural chemicals — Farms Number	Relative standard error of estimate (percent)	Value Total ($1,000)	Relative standard error of estimate (percent)	Petroleum products — Farms Number	Relative standard error of estimate (percent)	Value Total ($1,000)	Relative standard error of estimate (percent)
Oregon	**16 616**	**1.4**	**119 158**	**.9**	**23 952**	**1.2**	**104 042**	**1.0**	**28 479**	**1.1**	**80 192**	**.8**
Baker	244	8.4	1 128	8.4	361	6.1	428	5.3	583	2.0	1 851	4.7
Benton	356	7.2	4 146	3.4	600	3.2	3 645	4.0	609	2.5	1 567	2.9
Clackamas	1 721	3.0	3 753	3.4	2 754	1.7	3 652	3.2	2 835	1.6	4 115	2.1
Clatsop	58	26.4	29	24.4	72	20.7	25	28.2	209	5.3	226	15.3
Columbia	185	14.4	416	18.8	339	9.2	269	33.8	573	3.4	470	7.9
Coos	317	8.6	706	8.5	462	5.5	307	14.5	629	3.2	937	6.8
Crook	246	9.9	1 443	7.2	167	13.8	780	9.2	440	4.5	1 387	5.7
Curry	83	7.3	416	8.8	125	5.0	261	2.8	149	3.3	299	7.1
Deschutes	639	5.5	742	10.8	502	7.6	230	18.8	837	3.4	757	8.0

See footnotes at end of table.

TIPS [UPF] BATCH_19 [ACEN,C_ARLEDGE] 12/22/93 1:18 PM MACHINE: EPCV24 DATA:VOL1_TIPS_APX_92.TIPS;1 * 12/21/93 11:37:00 TAPE: NOreel FRAME: 9
TSF:TIPS92-11375193.DAT;1 12/21/93 11:38:08 UTF:TIPS93-11375193.DAT;1 12/21/93 11:38:09 META:VOL1_TIPS96_APX_92.DAT;9 12/21/93 11:40:00

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

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

	Farm production expenses [1]—Con.											
	Commercial fertilizer				Agricultural chemicals				Petroleum products			
	Farms		Value		Farms		Value		Farms		Value	
Geographic area	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)
Douglas	776	5.9	1 288	8.9	1 464	2.5	618	8.0	1 600	2.2	1 475	7.3
Gilliam	91	4.2	1 197	4.1	128	2.8	1 488	5.6	136	2.2	1 140	2.1
Grant	100	16.1	485	9.1	154	11.4	138	8.5	361	3.6	1 025	6.8
Harney	113	24.4	731	27.3	146	14.8	412	10.5	409	4.0	1 852	6.6
Hood River	448	5.8	1 078	4.9	447	5.5	5 016	4.1	518	3.3	1 477	4.5
Jackson	677	6.7	1 060	8.2	1 205	3.4	4 176	2.2	1 365	2.5	1 742	4.7
Jefferson	240	6.9	3 021	5.6	232	8.0	2 634	9.3	279	3.2	1 343	8.1
Josephine	329	8.4	325	10.8	442	5.3	190	14.3	501	4.6	505	12.4
Klamath	263	9.8	3 958	6.6	666	5.0	2 503	5.9	900	2.8	3 841	4.0
Lake	102	16.7	1 080	6.5	162	11.6	600	15.5	339	3.3	1 940	5.2
Lane	938	4.5	3 860	3.2	1 625	2.4	4 131	7.1	1 738	1.9	2 857	2.7
Lincoln	91	18.3	176	56.7	246	4.3	83	9.8	251	3.8	383	16.8
Linn	1 082	4.0	13 952	2.6	1 703	2.2	9 109	2.2	1 737	2.0	4 752	1.6
Malheur	593	5.1	11 618	2.3	872	3.9	7 861	2.0	1 111	2.0	7 149	2.6
Marion	1 685	3.0	17 034	2.2	2 318	1.7	13 263	2.2	2 252	1.9	8 736	1.8
Morrow	240	6.5	8 775	1.6	252	6.4	8 635	1.6	318	2.7	3 472	3.1
Multnomah	352	6.3	1 138	6.0	405	5.8	992	8.4	536	2.8	974	6.1
Polk	601	5.4	5 380	4.5	749	3.9	4 487	4.4	907	2.5	2 407	2.2
Sherman	128	4.2	1 728	5.2	159	3.2	1 476	4.8	163	2.9	1 335	3.2
Tillamook	108	11.2	229	9.4	161	8.1	121	6.2	321	2.4	933	1.6
Umatilla	808	4.1	12 428	1.9	1 094	3.2	13 169	3.3	1 282	2.2	6 544	3.2
Union	402	7.0	2 884	5.2	526	5.3	1 334	3.9	683	2.6	1 596	3.8
Wallowa	233	11.6	1 031	12.0	271	9.3	417	15.8	419	3.7	1 261	5.3
Wasco	289	5.6	2 037	4.4	279	6.6	2 611	2.9	402	2.9	1 570	3.3
Washington	1 089	3.7	4 673	4.6	1 441	2.2	4 320	3.6	1 429	2.2	3 952	2.4
Wheeler	34	17.0	84	17.5	76	7.4	103	11.7	132	3.2	445	5.2
Yamhill	955	4.2	5 128	4.8	1 347	2.6	4 559	9.4	1 526	2.0	3 878	2.3

	Farm production expenses [1]—Con.											
	Electricity				Hired farm labor				Contract labor			
	Farms		Value		Farms		Value		Farms		Value	
Geographic area	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)
Oregon	**22 431**	**1.3**	**45 048**	**1.0**	**11 480**	**1.7**	**367 047**	**.5**	**4 850**	**2.8**	**31 329**	**3.2**
Baker	433	5.0	619	9.8	207	9.8	2 263	7.2	71	16.4	276	12.0
Benton	481	5.2	850	2.5	282	8.2	6 584	4.8	146	15.4	565	8.0
Clackamas	2 206	2.5	2 190	1.8	1 145	4.2	43 201	.7	490	8.0	2 301	3.7
Clatsop	140	11.0	125	10.5	68	22.0	443	.9	18	49.0	31	41.8
Columbia	368	8.5	190	4.5	186	14.8	1 559	1.1	73	23.2	(D)	(D)
Coos	550	4.1	634	5.1	274	8.4	1 894	4.1	132	17.2	792	27.3
Crook	376	5.1	881	4.4	132	14.6	1 675	2.3	94	20.9	578	20.1
Curry	143	3.9	196	7.4	87	5.3	1 803	5.1	32	12.8	224	6.4
Deschutes	822	3.6	704	10.6	261	12.0	1 849	5.2	135	17.5	224	13.5
Douglas	1 286	3.5	626	6.0	520	8.0	1 977	9.0	242	13.2	369	19.2
Gilliam	119	3.6	354	3.5	85	2.8	1 549	4.0	28	14.5	76	6.4
Grant	270	8.0	246	8.7	119	14.2	1 439	5.9	56	20.3	139	22.4
Harney	363	7.4	1 339	7.6	169	16.4	2 108	4.5	66	30.9	345	5.7
Hood River	401	5.2	689	4.0	365	5.8	15 866	2.0	97	21.8	423	3.7
Jackson	1 066	4.2	972	3.7	480	8.6	13 652	.7	201	15.9	926	20.0
Jefferson	248	7.9	824	9.1	125	15.0	4 270	2.9	69	19.8	267	38.1
Josephine	449	5.4	396	6.0	192	13.2	1 952	6.5	62	24.0	96	9.8
Klamath	750	4.5	1 377	4.9	285	8.9	7 792	3.9	139	17.7	932	7.9
Lake	258	7.2	1 810	12.9	138	14.8	2 810	5.5	60	21.5	538	8.1
Lane	1 212	3.8	1 206	3.0	634	6.6	9 515	4.5	284	11.4	750	11.1
Lincoln	149	9.0	100	35.7	90	17.3	1 387	12.3	31	32.8	(D)	(D)
Linn	1 300	3.6	2 014	4.4	686	5.6	17 953	4.0	224	12.0	1 313	13.2
Malheur	925	3.5	2 303	1.7	460	6.0	17 206	2.0	334	8.5	5 981	3.4
Marion	1 711	3.3	4 598	2.2	1 173	4.5	66 056	1.4	392	10.5	3 612	20.2
Morrow	286	5.3	7 221	.7	170	9.5	12 198	1.4	59	18.5	906	2.8
Multnomah	342	6.1	306	7.7	240	9.5	12 541	2.8	84	17.0	521	32.2
Polk	787	3.8	852	3.6	326	8.6	7 050	3.1	161	13.8	508	11.8
Sherman	148	4.2	290	4.0	72	6.7	1 193	5.7	17	18.9	80	5.3
Tillamook	275	5.4	962	1.7	164	6.5	5 194	1.6	36	18.7	136	7.4
Umatilla	1 166	3.1	5 158	3.4	554	6.4	21 810	2.3	223	12.9	1 389	14.2
Union	464	6.1	622	5.3	273	10.2	2 723	8.3	84	20.5	478	5.0
Wallowa	343	7.2	553	15.9	147	16.5	2 467	7.4	38	33.7	401	57.3
Wasco	351	4.7	711	5.4	211	7.3	11 112	2.1	65	22.2	219	16.4
Washington	1 084	3.4	1 489	2.1	552	6.6	35 870	1.4	284	9.8	3 781	6.2
Wheeler	100	6.1	188	8.4	49	12.6	737	8.3	20	14.0	89	21.0
Yamhill	1 059	4.1	1 453	3.3	559	6.4	27 240	1.3	303	10.4	1 968	6.3

See footnotes at end of table.

TIPS [UPF] BATCH_19 [ACEN,C_ARLEDGE] 12/22/93 1:18 PM MACHINE: EPCV24 DATA:VOL1_TIPS_APX_92.TIPS;1 * 12/21/93 11:37:00 TAPE: NOreel FRAME: 10
TSF:TIPS92-11375193.DAT;1 12/21/93 11:38:08 UTF:TIPS93-11375193.DAT;1 12/21/93 11:38:09 META:VOL1_TIPS96_APX_92.DAT;9 12/21/93 11:40:00

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

Farm production expenses [1] —Con.

Geographic area	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)
Oregon	**25 574**	**1.2**	**121 370**	**.8**	**9 015**	**2.0**	**38 704**	**2.0**	**12 384**	**1.7**	**133 197**	**1.2**
Baker	521	3.8	2 032	6.0	231	10.7	601	20.6	334	6.9	3 711	9.8
Benton	540	4.7	2 505	3.1	240	10.1	1 544	11.3	233	9.9	2 417	7.7
Clackamas	2 449	2.2	6 951	2.1	786	6.0	1 704	12.3	1 134	4.6	7 573	4.1
Clatsop	188	6.8	257	8.7	59	26.2	58	26.2	45	26.7	307	10.9
Columbia	430	6.3	963	8.6	157	15.4	279	22.2	197	13.2	1 209	11.1
Coos	615	3.4	1 429	6.3	137	15.1	396	32.8	245	10.1	2 003	9.5
Crook	376	5.7	1 795	6.4	115	16.7	469	13.1	188	11.7	1 987	7.7
Curry	143	3.4	678	5.9	28	14.5	110	27.2	64	7.4	495	5.6
Deschutes	767	3.9	1 278	8.2	193	13.2	243	12.1	330	10.2	2 117	12.9
Douglas	1 448	2.7	2 533	11.7	473	8.7	395	13.1	599	7.0	2 953	7.8
Gilliam	128	3.1	1 363	2.4	51	9.1	368	6.4	104	5.0	1 216	4.8
Grant	367	3.4	1 137	5.1	51	24.3	139	7.7	185	11.9	1 335	8.4
Harney	374	7.0	2 060	6.2	119	16.5	477	20.8	300	9.9	3 293	9.6
Hood River	486	4.7	2 747	4.3	155	13.8	393	13.9	267	7.3	3 456	6.7
Jackson	1 245	3.4	3 130	3.9	451	9.4	435	12.7	465	9.0	3 602	10.5
Jefferson	296	5.1	2 060	5.8	133	14.5	1 198	14.0	174	12.8	1 759	12.4
Josephine	517	3.7	967	6.6	153	15.2	308	30.5	163	15.3	664	10.0
Klamath	809	3.8	5 357	5.8	268	11.5	1 364	15.6	447	7.3	5 203	6.6
Lake	339	3.9	2 347	6.1	103	17.9	909	12.5	243	8.9	2 380	9.8
Lane	1 406	3.2	3 908	4.4	459	8.1	1 267	5.0	508	7.7	3 636	6.2
Lincoln	220	6.1	338	12.8	50	25.7	46	46.8	66	17.1	326	12.8
Linn	1 513	2.9	7 211	3.3	537	7.1	2 180	10.2	694	6.1	7 119	3.9
Malheur	1 061	2.5	8 305	1.9	614	6.2	2 981	3.5	729	4.9	10 395	4.9
Marion	2 048	2.3	15 502	1.8	929	5.3	5 722	3.9	940	5.0	15 739	1.9
Morrow	293	3.7	6 795	2.9	113	13.9	4 028	1.7	201	9.0	6 897	3.6
Multnomah	493	3.7	1 744	6.8	136	14.9	396	35.2	158	11.6	1 129	7.0
Polk	858	3.1	3 006	2.5	326	9.3	914	9.8	435	6.7	5 094	5.8
Sherman	158	3.4	1 425	4.0	69	8.1	450	13.2	109	4.5	1 093	6.7
Tillamook	286	4.4	2 627	2.1	66	12.9	411	3.4	192	6.4	3 671	6.4
Umatilla	1 158	2.9	10 817	2.4	445	7.6	4 297	6.1	650	6.3	10 236	3.4
Union	596	4.2	2 149	4.4	203	12.5	1 062	9.2	311	9.2	3 172	8.1
Wallowa	365	5.6	1 425	7.6	85	25.1	188	35.6	227	12.2	2 251	15.1
Wasco	335	4.9	2 380	3.3	124	9.9	547	5.3	248	8.3	2 940	5.9
Washington	1 210	3.0	5 721	3.6	475	7.4	1 407	4.7	571	6.4	5 404	5.8
Wheeler	130	4.0	570	12.0	13	36.7	10	30.5	60	11.7	463	8.9
Yamhill	1 406	2.6	5 858	3.0	468	8.0	1 410	22.2	568	7.1	5 948	3.4

Farm production expenses [1] —Con.

Geographic area	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)
Oregon	**6 069**	**2.3**	**85 134**	**1.3**	**29 510**	**1.1**	**68 203**	**1.1**	**28 623**	**1.1**	**245 048**	**.8**
Baker	200	11.8	2 144	12.0	537	3.3	1 316	3.9	541	3.1	4 950	4.5
Benton	163	12.3	2 832	4.6	594	3.1	1 485	5.4	597	3.3	3 712	2.9
Clackamas	438	7.6	3 723	2.4	2 979	1.3	5 802	2.5	2 765	1.7	20 347	2.4
Clatsop	42	27.2	89	38.9	225	3.4	381	12.7	168	8.0	574	5.5
Columbia	70	23.6	325	41.2	656	1.3	935	6.5	551	4.0	2 015	5.9
Coos	102	17.2	593	21.7	693	1.9	1 520	5.7	669	2.5	2 647	5.7
Crook	86	17.5	1 264	3.6	485	2.1	1 116	6.4	449	3.3	2 696	6.6
Curry	35	12.8	352	4.7	153	3.4	348	5.9	167	2.5	1 179	6.1
Deschutes	137	16.4	191	13.4	991	2.1	1 583	5.6	987	2.2	2 069	7.6
Douglas	178	13.0	916	14.0	1 714	1.8	2 774	5.2	1 633	2.0	3 113	5.3
Gilliam	34	10.9	530	5.2	118	3.2	674	4.2	140	1.9	1 866	3.8
Grant	61	20.8	323	11.8	384	2.0	971	5.8	364	3.6	2 184	4.7
Harney	127	22.9	817	30.7	406	5.0	1 038	6.7	420	3.7	5 539	8.5
Hood River	79	17.1	895	6.3	542	2.3	1 605	3.7	473	4.1	5 858	7.1
Jackson	184	15.1	903	9.3	1 460	2.1	2 702	5.0	1 310	2.8	5 402	3.2
Jefferson	135	16.5	1 680	8.5	295	5.9	736	8.4	336	2.7	4 934	4.4
Josephine	41	23.3	109	8.3	592	1.4	680	7.2	570	2.4	1 698	2.4
Klamath	277	10.6	3 851	7.3	888	3.0	2 760	7.6	910	2.8	8 832	4.0
Lake	87	17.8	1 324	25.4	348	2.9	1 170	5.1	330	4.3	4 132	4.8
Lane	265	10.6	2 921	3.1	1 858	1.6	3 604	5.0	1 698	2.1	7 397	3.7
Lincoln	40	33.6	94	21.8	257	5.0	406	9.7	224	5.2	1 045	16.3
Linn	439	7.2	9 638	3.1	1 759	1.9	3 453	2.6	1 796	1.8	12 919	2.5
Malheur	416	7.5	6 848	2.5	1 047	2.7	3 139	3.0	1 137	1.9	18 459	2.1
Marion	725	6.7	14 155	2.9	2 195	2.3	6 194	3.7	2 239	2.0	37 923	1.0
Morrow	73	12.5	4 895	3.9	299	3.7	1 826	4.0	327	2.8	8 238	2.3
Multnomah	106	13.9	923	5.7	568	2.2	1 393	6.9	530	3.3	4 286	1.3
Polk	182	10.7	3 097	5.3	967	1.9	1 978	3.8	893	2.6	6 322	6.4
Sherman	16	20.2	313	4.7	137	3.9	666	6.1	174	2.4	1 993	4.2
Tillamook	86	8.2	707	8.2	304	3.7	909	3.1	298	3.8	7 300	1.7

See footnotes at end of table.

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

Geographic area	Farm production expenses [1] —Con.											
	Cash rent				Property taxes paid				All other farm production expenses			
	Farms		Value		Farms		Value		Farms		Value	
	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)
Umatilla	296	10.7	6 726	3.7	1 317	2.0	3 719	2.6	1 341	1.8	14 475	4.4
Union	145	14.5	1 499	11.7	701	2.3	1 277	4.2	667	2.8	4 486	3.1
Wallowa	105	20.9	1 592	13.6	406	5.1	856	8.6	451	1.6	3 242	6.7
Wasco	85	14.3	1 611	6.6	411	3.2	1 790	5.2	428	2.3	4 271	2.4
Washington	313	9.8	4 206	8.2	1 522	1.7	3 427	4.0	1 421	2.1	17 367	3.9
Wheeler	41	14.4	184	14.5	122	4.6	454	9.4	139	1.9	673	8.3
Yamhill	260	9.8	2 862	4.6	1 580	1.7	3 515	3.4	1 480	2.2	10 904	1.4

Geographic area	Net cash return from agricultural sales for the farm unit (see text)[1]				Total cropland				Harvested cropland			
	Farms		Value		Farms		Acres		Farms		Acres	
	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)
Oregon	**31 875**	**1.1**	**398 979**	**1.2**	**26 508**	**.9**	**5 037 764**	**.4**	**20 743**	**.9**	**2 823 972**	**.4**
Baker	593	1.7	4 899	17.7	490	1.8	143 418	1.3	382	1.9	67 541	1.0
Benton	657	1.2	(D)	(D)	555	1.0	86 437	.7	452	1.1	68 494	.6
Clackamas	3 152	1.0	18 868	6.2	2 610	.9	93 454	.9	2 075	.9	59 481	.9
Clatsop	233	1.3	294	48.0	175	1.5	13 113	3.4	129	1.9	4 772	2.8
Columbia	661	1.2	(D)	(D)	533	1.0	30 709	1.3	403	1.1	15 054	1.3
Coos	722	1.3	6 064	12.3	583	1.4	47 292	1.6	418	1.5	14 115	1.6
Crook	502	1.5	4 506	12.2	390	1.2	65 989	.9	279	1.5	33 874	.9
Curry	176	2.3	2 927	4.3	105	1.8	7 136	3.1	78	2.2	1 807	1.7
Deschutes	1 036	1.6	(D)	(D)	803	1.5	39 656	1.9	501	1.6	17 631	3.0
Douglas	1 822	1.2	(D)	(D)	1 432	1.1	104 834	1.3	1 018	1.1	36 889	1.1
Gilliam	143	1.2	2 692	7.2	127	.5	251 932	.1	102	.7	100 729	.2
Grant	393	1.0	1 438	36.9	300	1.0	80 405	.7	225	1.2	35 522	.4
Harney	442	1.4	6 130	14.1	362	1.3	165 752	.6	277	1.3	80 408	.5
Hood River	562	1.5	12 046	6.5	535	1.2	20 277	1.3	496	1.2	17 346	1.1
Jackson	1 572	1.3	(D)	(D)	1 299	1.1	68 216	1.4	917	1.2	32 868	1.7
Jefferson	345	1.3	9 919	7.7	312	1.1	97 725	.8	251	1.4	43 566	.8
Josephine	607	1.0	(D)	(D)	498	1.0	16 257	1.5	376	1.2	8 920	1.8
Klamath	954	2.2	13 559	8.4	762	2.3	223 457	1.5	548	2.3	133 136	1.3
Lake	366	.9	6 307	13.9	315	1.1	166 095	.7	210	1.4	95 493	.6
Lane	1 968	1.1	5 601	15.5	1 618	1.0	114 776	.9	1 262	1.0	73 344	.6
Lincoln	282	1.6	(D)	(D)	208	1.5	11 172	2.5	130	2.0	3 626	4.4
Linn	1 947	1.1	28 482	2.8	1 585	1.0	297 200	.5	1 195	1.0	247 419	.5
Malheur	1 187	1.4	54 378	2.3	1 080	1.1	252 381	.7	959	1.2	164 821	.6
Marion	2 491	1.3	66 224	1.9	2 109	1.0	242 561	.5	1 813	1.0	199 706	.5
Morrow	348	1.0	12 985	8.1	288	.9	458 086	.2	237	1.0	220 149	.2
Multnomah	603	1.6	10 575	4.3	522	1.1	19 684	1.1	451	1.2	14 642	1.0
Polk	1 026	1.1	9 331	7.1	877	1.0	118 207	.7	679	1.1	88 080	.8
Sherman	179	2.0	5 756	5.1	164	.6	314 217	.2	147	.7	127 018	.2
Tillamook	338	1.0	10 340	3.6	247	1.0	23 676	.7	113	1.6	6 348	.9
Umatilla	1 441	1.1	29 045	4.0	1 190	.9	708 209	.3	935	.9	381 564	.3
Union	751	1.1	7 596	6.2	640	1.1	144 018	1.0	547	1.1	89 011	.8
Wallowa	459	1.3	3 415	29.5	364	1.1	101 251	.9	267	1.3	53 711	.8
Wasco	456	1.1	12 305	5.6	409	1.0	236 435	.3	334	1.1	96 959	.2
Washington	1 625	1.0	24 633	3.6	1 448	.9	104 793	.8	1 268	.9	84 825	.8
Wheeler	145	1.8	741	27.0	120	.7	43 933	.5	76	1.4	10 743	.5
Yamhill	1 691	1.2	26 790	2.8	1 453	.9	125 011	.7	1 193	.9	94 360	.7

Geographic area	Irrigated land				Livestock and poultry							
					Cattle and calves inventory				Beef cows inventory			
	Farms		Acres		Farms		Total		Farms		Total	
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)
Oregon	**15 002**	**1.0**	**1 622 235**	**.5**	**17 088**	**1.0**	**1 465 444**	**.4**	**13 105**	**1.0**	**629 625**	**.5**
Baker	462	1.8	107 978	1.1	463	1.7	93 418	.9	371	1.9	45 257	.9
Benton	258	1.4	19 467	.6	286	1.5	10 362	1.6	223	1.7	3 513	2.8
Clackamas	928	1.0	23 982	.8	1 413	1.1	29 635	1.3	1 057	1.2	10 046	1.8
Clatsop	20	5.5	441	14.2	186	1.4	9 013	2.4	154	1.7	3 500	4.5
Columbia	74	2.4	2 669	2.5	486	1.1	15 470	1.7	407	1.2	5 655	2.1
Coos	289	1.8	10 150	1.6	486	1.3	27 816	1.3	376	1.5	11 102	1.5
Crook	388	1.3	47 477	.8	354	1.3	54 799	.8	303	1.5	26 717	.9
Curry	73	2.4	2 711	1.6	103	2.0	7 310	1.4	89	2.2	3 840	1.9
Deschutes	886	1.4	37 163	1.5	627	1.5	20 660	1.8	465	1.7	9 065	2.3
Douglas	577	1.3	12 746	2.1	1 193	1.1	55 186	1.1	937	1.2	21 867	1.4
Gilliam	26	2.6	4 014	1.3	84	.8	17 804	.2	79	.9	(D)	(D)
Grant	252	1.2	38 538	.7	300	1.0	56 918	.3	262	1.1	31 292	.4
Harney	285	1.3	92 650	.5	351	1.2	99 310	.4	319	1.2	60 422	.4
Hood River	533	1.2	17 674	.9	112	2.8	2 411	3.6	81	3.3	(D)	(D)

See footnotes at end of table.

TIPS [UPF] BATCH_19 [ACEN,C_ARLEDGE] 12/22/93 1:18 PM MACHINE: EPCV24 DATA:VOL1_TIPS_APX_92.TIPS;1 * 12/21/93 11:37:00 TAPE: NOreel FRAME: 12
TSF:TIPS92-11375193.DAT;1 12/21/93 11:38:08 UTF:TIPS93-11375193.DAT;1 12/21/93 11:38:09 META:VOL1_TIPS96_APX_92.DAT;9 12/21/93 11:40:00

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

Geographic area	Irrigated land				Livestock and poultry							
	Farms		Acres		Cattle and calves inventory				Beef cows inventory			
					Farms		Total		Farms		Total	
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)
Jackson	1 148	1.1	50 530	1.1	955	1.2	40 053	1.1	742	1.3	18 675	1.3
Jefferson	277	1.2	42 120	.9	161	1.8	28 125	1.4	135	2.0	(D)	(D)
Josephine	423	1.1	10 767	1.4	299	1.4	10 274	1.1	209	1.7	2 051	2.7
Klamath	738	2.2	213 363	1.2	635	2.1	98 756	1.2	528	2.3	41 915	1.5
Lake	244	1.3	134 094	.6	264	1.2	87 219	.4	239	1.3	47 161	.5
Lane	654	1.1	24 728	.8	1 047	1.1	37 665	1.0	829	1.2	13 777	1.6
Lincoln	63	3.2	948	8.3	202	1.6	7 313	2.8	185	1.7	3 615	2.3
Linn	521	1.3	32 424	.9	1 155	1.2	34 070	1.1	875	1.3	11 025	1.9
Malheur	1 047	1.1	178 768	.6	660	1.2	181 478	.4	471	1.2	75 424	.5
Marion	1 171	1.0	96 883	.4	973	1.2	44 462	.7	619	1.4	7 074	2.1
Morrow	200	1.3	101 506	.4	214	1.2	35 228	.9	187	1.3	20 119	.8
Multnomah	244	1.5	6 373	1.1	189	2.1	4 182	3.3	145	2.4	(D)	(D)
Polk	232	1.5	15 089	.6	496	1.3	17 952	.9	354	1.5	3 696	2.0
Sherman	24	2.5	4 087	.5	83	1.0	9 105	.2	78	1.0	(D)	(D)
Tillamook	90	1.6	6 536	1.2	299	.8	44 265	.5	96	2.2	1 023	5.0
Umatilla	919	1.1	116 001	.6	675	1.2	76 730	.5	508	1.3	31 998	.7
Union	307	1.5	49 052	.9	426	1.3	51 380	.7	360	1.4	20 149	1.0
Wallowa	312	1.3	45 205	1.3	326	1.2	61 087	.7	290	1.3	30 892	.8
Wasco	277	1.2	24 311	.8	230	1.4	32 567	.5	202	1.4	16 979	.5
Washington	581	1.1	22 964	.8	540	1.2	17 060	1.3	353	1.5	3 303	2.3
Wheeler	82	1.2	7 385	.5	113	.9	21 274	.3	97	1.1	12 530	.4
Yamhill	397	1.3	21 441	.7	702	1.1	25 087	.7	480	1.3	4 820	1.7

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)
Oregon	**1 541**	**1.0**	**99 035**	**.3**	**1 669**	**1.3**	**58 276**	**1.6**	**3 639**	**1.1**	**392 957**	**.7**
Baker	59	3.6	2 044	2.1	28	5.7	372	1.7	71	3.9	4 872	4.5
Benton	18	5.3	2 087	.1	46	4.0	524	6.5	102	2.7	6 216	4.3
Clackamas	96	2.7	3 614	2.1	183	2.2	4 752	3.1	314	1.7	10 575	3.6
Clatsop	19	4.4	1 411	.3	23	5.2	150	7.0	23	5.4	871	13.4
Columbia	19	5.5	1 181	.2	31	4.5	239	12.1	27	4.4	1 159	6.3
Coos	75	2.7	4 843	1.7	33	4.9	184	7.5	119	2.4	26 923	1.5
Crook	17	5.8	86	3.4	33	5.0	292	10.4	47	4.1	3 764	7.6
Curry	9	8.1	256	3.4	4	13.6	(D)	(D)	62	2.7	25 357	1.1
Deschutes	40	4.3	973	3.3	79	3.7	598	5.6	95	3.1	3 360	4.3
Douglas	79	3.2	263	8.8	90	3.1	506	4.3	474	1.4	71 220	1.2
Gilliam	4	–	(D)	(D)	3	–	(D)	(D)	7	–	120	–
Grant	29	4.0	51	4.0	23	6.1	308	9.2	50	3.3	1 288	5.4
Harney	32	4.4	80	9.8	16	8.9	145	5.4	37	4.5	6 829	1.4
Hood River	6	12.1	(D)	(D)	10	10.2	89	18.2	16	7.1	220	9.3
Jackson	53	3.6	935	5.3	126	2.7	1 176	5.3	189	2.2	5 270	4.6
Jefferson	3	18.1	(D)	(D)	18	6.7	238	6.8	37	4.2	10 578	1.2
Josephine	28	3.9	2 598	.3	64	3.3	1 239	11.3	49	3.6	837	7.1
Klamath	43	4.4	4 518	.8	54	4.7	1 143	11.1	96	3.7	13 033	2.9
Lake	16	6.2	75	1.3	10	10.0	(D)	(D)	30	5.2	2 433	17.6
Lane	59	2.9	2 977	.7	107	2.8	1 338	7.1	221	1.9	25 524	1.5
Lincoln	16	6.6	138	1.9	12	9.0	80	11.3	49	3.6	3 162	7.0
Linn	81	2.5	6 757	.5	102	2.9	2 741	3.4	352	1.6	68 286	1.2
Malheur	135	1.9	6 640	1.3	51	3.4	1 625	8.3	80	2.8	12 739	2.2
Marion	100	1.9	14 861	.3	107	2.8	10 625	2.8	267	1.9	12 412	3.3
Morrow	13	6.5	177	3.7	20	6.3	426	2.9	30	3.2	14 072	.9
Multnomah	9	8.2	(D)	(D)	22	6.2	212	8.3	42	4.5	836	5.4
Polk	41	3.7	4 489	.2	44	3.6	2 289	2.5	166	2.0	11 903	2.8
Sherman	2	–	(D)	(D)	7	6.6	378	2.1	6	8.8	70	3.2
Tillamook	188	1.0	25 580	.4	11	7.2	72	17.7	6	9.9	106	16.6
Umatilla	53	3.8	436	4.5	47	4.3	1 246	16.8	112	2.6	29 233	.8
Union	21	5.9	36	6.4	37	4.8	4 600	11.1	50	4.1	1 949	7.4
Wallowa	27	4.8	70	12.8	26	5.9	1 076	13.8	78	2.9	3 646	2.5
Wasco	13	7.8	25	16.6	26	5.4	1 601	1.8	23	5.8	611	8.9
Washington	56	2.9	4 615	1.1	66	3.2	6 594	2.5	104	2.6	1 829	3.4
Wheeler	17	3.2	81	2.4	9	5.7	175	10.6	16	4.1	625	5.7
Yamhill	65	2.6	6 719	.5	101	2.8	10 668	4.2	192	1.9	11 029	3.1

See footnotes at end of table.

TIPS [UPF] BATCH_19 [ACEN,C_ARLEDGE] 12/22/93 1:18 PM MACHINE: EPCV24 DATA:VOL1_TIPS_APX_92.TIPS;1 * 12/21/93 11:37:00 TAPE: NOreel FRAME: 13
TSF:TIPS92-11375193.DAT;1 12/21/93 11:38:08 UTF:TIPS93-11375193.DAT;1 12/21/93 11:38:09 META:VOL1_TIPS96_APX_92.DAT;9 12/21/93 11:40:00

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

	Livestock and poultry —Con.							
	Hens and pullets of laying age inventory				Broilers and other meat-type chickens sold			
	Farms		Total		Farms		Total	
Geographic area	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)
Oregon	**2 451**	**1.3**	**2 699 459**	**.1**	**208**	**1.9**	**18 921 442**	**.2**
Baker	29	5.5	448	6.0	–	–	–	–
Benton	61	3.7	40 097	3.6	4	15.2	(D)	(D)
Clackamas	255	1.9	1 238 447	.2	48	3.7	4 428 187	(L)
Clatsop	23	5.3	1 255	17.6	–	–	–	–
Columbia	66	3.2	5 264	.9	2	20.0	(D)	(D)
Coos	51	4.1	977	5.0	2	18.9	(D)	(D)
Crook	28	5.3	555	9.8	1	21.5	(D)	(D)
Curry	15	6.5	257	7.8	–	–	–	–
Deschutes	91	3.4	1 089	4.0	2	18.1	(D)	(D)
Douglas	185	2.3	2 760	2.7	6	8.2	882 086	(L)
Gilliam	5	–	86	–	–	–	–	–
Grant	39	3.5	1 186	12.8	3	16.6	(D)	(D)
Harney	40	4.3	660	4.6	–	–	–	–
Hood River	21	6.6	262	8.0	6	10.3	(D)	(D)
Jackson	159	2.5	(D)	(D)	15	7.7	675	11.1
Jefferson	13	9.1	263	11.3	–	–	–	–
Josephine	80	3.0	1 424	3.8	2	20.1	(D)	(D)
Klamath	48	4.7	900	5.5	4	15.7	140	19.3
Lake	19	6.8	352	8.1	–	–	–	–
Lane	198	2.0	(D)	(D)	22	3.3	4 212 147	.5
Lincoln	26	5.7	444	10.1	1	39.3	(D)	(D)
Linn	186	2.2	3 572	3.2	12	4.2	2 977 787	(L)
Malheur	61	3.4	1 137	4.0	2	20.9	(D)	(D)
Marion	152	2.4	(D)	(D)	10	7.8	(D)	(D)
Morrow	16	7.9	372	10.9	2	20.6	(D)	(D)
Multnomah	55	4.0	874	8.9	6	11.7	595	15.3
Polk	95	2.9	1 602	4.7	21	5.7	3 153 859	.2
Sherman	4	7.5	(D)	(D)	–	–	–	–
Tillamook	10	7.5	121	11.2	2	15.7	(D)	(D)
Umatilla	67	3.5	1 256	6.6	–	–	–	–
Union	55	3.8	1 137	4.9	2	26.8	(D)	(D)
Wallowa	19	7.0	338	7.5	1	28.0	(D)	(D)
Wasco	32	4.8	710	6.0	4	14.8	78	17.4
Washington	112	2.6	3 567	11.8	7	11.0	(D)	(D)
Wheeler	19	3.5	278	4.7	–	–	–	–
Yamhill	116	2.5	(D)	(D)	21	5.1	1 896 391	1.2

	Selected crops harvested											
	Wheat for grain						Barley for grain					
	Farms		Acres		Quantity		Farms		Acres		Quantity	
Geographic area	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)
Oregon	**3 025**	**.8**	**924 855**	**.2**	**46 527 762**	**.3**	**1 096**	**.9**	**127 185**	**.5**	**7 787 057**	**.6**
Baker	39	4.5	4 734	1.7	340 989	1.8	41	3.9	2 295	3.1	137 220	2.8
Benton	58	2.5	10 350	1.3	754 965	1.2	12	6.6	264	9.3	14 749	7.7
Clackamas	86	2.8	4 746	3.0	338 747	3.0	20	6.5	227	5.8	11 831	7.0
Clatsop	–	–	–	–	–	–	–	–	–	–	–	–
Columbia	5	2.9	1 174	1.0	72 522	1.2	3	4.8	(D)	(D)	(D)	(D)
Coos	1	29.9	(D)	(D)	(D)	(D)	–	–	–	–	–	–
Crook	13	4.1	999	2.3	83 220	2.5	1	–	(D)	–	(D)	–
Curry	–	–	–	–	–	–	1	33.1	(D)	(D)	(D)	(D)
Deschutes	10	8.0	724	7.5	40 534	5.7	3	8.0	47	10.8	4 641	10.7
Douglas	7	5.2	1 168	.1	64 663	.1	4	10.7	58	5.2	3 729	3.2
Gilliam	81	.6	86 678	.3	2 603 615	.1	45	.6	10 893	.1	306 202	.1
Grant	4	–	1 249	–	35 101	–	5	–	193	–	7 379	–
Harney	3	12.4	290	7.7	8 450	9.3	33	2.5	343	1.0	19 027	.4
Hood River	3	18.3	333	21.2	(D)	(D)	1	–	(D)	–	(D)	–
Jackson	37	4.6	1 510	7.9	86 811	8.2	34	4.7	1 670	9.1	82 141	7.6
Jefferson	88	2.1	8 547	1.3	479 658	1.1	9	4.2	454	.2	22 938	.5
Josephine	3	18.3	(D)	(D)	3 258	17.8	5	11.5	277	20.1	16 283	20.0
Klamath	70	3.0	7 842	2.0	595 214	1.9	123	2.7	37 315	1.2	3 360 204	1.0
Lake	5	13.1	390	11.9	8 718	11.2	4	9.4	427	7.3	34 815	7.4
Lane	62	1.8	6 467	.8	550 266	.7	3	8.1	109	2.7	(D)	(D)
Lincoln	–	–	–	–	–	–	–	–	–	–	–	–
Linn	142	1.6	13 130	.8	1 020 376	.8	10	7.7	291	5.8	12 099	9.3
Malheur	367	1.4	36 677	1.0	3 014 051	.8	164	1.7	6 670	1.5	446 778	1.3
Marion	291	1.3	20 775	.8	1 745 381	.9	14	5.9	277	5.1	12 242	5.6
Morrow	145	.9	148 381	.3	5 620 603	.5	29	–	3 027	–	89 427	–
Multnomah	10	6.3	1 758	.9	162 885	.9	9	5.8	817	3.6	55 593	3.4
Polk	140	1.6	18 473	1.2	1 326 524	1.1	11	5.8	409	7.0	23 515	6.7
Sherman	128	.7	103 555	.3	3 580 569	.2	97	.8	21 227	.1	885 767	.1
Tillamook	–	–	–	–	–	–	–	–	–	–	–	–

See footnotes at end of table.

TIPS [UPF] BATCH_19 [ACEN,C_ARLEDGE] 12/22/93 1:18 PM MACHINE: EPCV24 DATA:VOL1_TIPS_APX_92.TIPS;1 * 12/21/93 11:37:00 TAPE: NOreel FRAME: 14
TSF:TIPS92-11375193.DAT;1 12/21/93 11:38:08 UTF:TIPS93-11375193.DAT;1 12/21/93 11:38:09 META:VOL1_TIPS96_APX_92.DAT;9 12/21/93 11:40:00

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

Geographic area	Selected crops harvested											
	Wheat for grain						Barley 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)
Umatilla	397	.9	268 523	.3	13 626 966	.3	130	1.4	12 134	.5	552 070	.9
Union	184	1.7	36 790	1.2	2 327 207	1.3	109	2.1	9 705	1.9	542 725	1.6
Wallowa	75	2.0	12 174	1.4	714 284	1.4	77	2.1	11 615	1.5	830 993	1.9
Wasco	109	1.2	75 331	.2	3 244 203	.2	33	.7	3 668	.5	163 674	.7
Washington	225	1.6	24 743	1.0	2 109 209	1.1	34	4.6	1 149	6.0	51 686	5.5
Wheeler	4	–	1 292	–	(D)	–	1	–	(D)	–	(D)	–
Yamhill	233	1.4	25 983	1.1	1 910 879	1.0	31	3.4	980	1.7	48 750	2.5

Selected crops harvested —Con.

| Geographic area | Oats for grain | | | | | | Hay —alfalfa, other tame, small grain, wild, grass silage, green chop, etc. (see text) | | | | | |
| | Farms | | Acres | | Quantity | | Farms | | Acres | | Quantity | |
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Bushels	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Tons, dry	Relative standard error of estimate (percent)
Oregon	**810**	**1.1**	**38 241**	**1.1**	**2 950 737**	**1.2**	**12 066**	**1.0**	**872 535**	**.6**	**2 276 437**	**.6**
Baker	4	9.4	103	9.1	7 779	3.3	361	2.0	59 498	1.0	138 898	1.0
Benton	22	5.2	1 466	2.1	102 899	1.6	225	1.7	10 833	1.8	23 555	1.8
Clackamas	71	3.1	1 963	4.2	142 675	4.7	938	1.2	20 407	1.5	42 678	1.5
Clatsop	–	–	–	–	–	–	111	2.1	4 920	2.7	9 282	3.9
Columbia	6	6.4	349	2.9	29 596	2.4	342	1.3	11 749	1.6	24 497	1.9
Coos	1	29.9	(D)	(D)	(D)	(D)	262	1.7	12 405	1.7	27 932	1.7
Crook	3	15.3	140	9.8	(D)	(D)	256	1.5	26 506	1.1	75 265	1.0
Curry	1	33.1	(D)	(D)	(D)	(D)	34	3.6	1 079	2.5	2 639	2.8
Deschutes	4	13.5	44	14.0	(D)	(D)	471	1.7	15 630	3.2	42 491	2.7
Douglas	14	6.4	685	15.1	46 228	16.4	808	1.2	32 036	1.2	62 413	1.3
Gilliam	2	–	(D)	–	(D)	–	27	2.5	2 800	1.4	8 596	1.1
Grant	1	–	(D)	–	(D)	–	211	1.3	35 090	.4	51 804	.6
Harney	6	8.4	359	1.5	40 835	1.6	276	1.3	81 405	.5	153 708	.7
Hood River	–	–	–	–	–	–	135	2.6	2 021	3.7	5 410	4.2
Jackson	7	10.1	25	9.1	652	6.5	676	1.3	18 600	1.8	40 442	2.3
Jefferson	2	–	(D)	–	(D)	–	172	1.8	13 424	1.5	39 139	1.8
Josephine	1	21.0	(D)	(D)	(D)	(D)	281	1.5	7 224	2.0	18 604	2.1
Klamath	47	3.5	6 448	2.7	613 123	2.9	465	2.4	71 064	1.8	233 975	1.8
Lake	9	4.7	1 750	3.1	173 777	3.3	204	1.4	93 540	.6	215 486	.8
Lane	31	3.6	1 744	2.3	117 666	2.7	731	1.2	26 403	1.3	48 152	1.3
Lincoln	1	19.6	(D)	(D)	(D)	(D)	82	2.6	3 224	4.6	3 959	3.8
Linn	48	3.2	1 478	4.1	103 700	4.0	686	1.3	25 231	1.5	54 318	2.0
Malheur	31	3.6	486	2.7	39 376	3.5	694	1.2	62 677	.7	176 798	.9
Marion	102	2.4	3 091	3.3	244 570	3.6	625	1.3	24 658	.9	62 253	.6
Morrow	–	–	–	–	–	–	120	1.8	44 175	.7	270 785	.5
Multnomah	2	17.5	(D)	(D)	(D)	(D)	134	2.5	3 459	3.2	6 673	3.5
Polk	72	2.6	3 648	2.8	234 026	2.9	359	1.4	11 270	1.8	25 026	1.6
Sherman	5	–	341	–	19 216	–	20	3.5	1 962	1.1	5 942	.7
Tillamook	–	–	–	–	–	–	98	1.8	6 471	.9	17 351	1.0
Umatilla	5	–	111	–	11 315	–	366	1.4	26 724	1.5	110 734	1.0
Union	27	3.8	549	3.0	36 509	2.6	439	1.3	31 967	1.1	66 762	1.2
Wallowa	10	6.8	190	3.6	14 550	2.9	232	1.4	30 026	1.0	84 233	1.2
Wasco	6	9.5	173	7.0	8 602	4.7	162	1.7	10 530	1.2	25 493	1.2
Washington	155	2.0	8 060	2.1	597 740	2.3	468	1.3	15 742	1.6	40 967	1.7
Wheeler	1	33.1	(D)	(D)	(D)	(D)	72	1.4	9 466	.5	15 230	.9
Yamhill	113	1.9	4 575	2.4	334 340	2.6	523	1.2	18 319	1.1	44 947	1.1

Selected crops harvested —Con.

| Geographic area | Vegetables harvested for sale (see text) | | | | Land in orchards | | | |
| | Farms | | Acres | | Farms | | Acres | |
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)
Oregon	**1 509**	**.8**	**147 616**	**.2**	**4 200**	**1.0**	**96 166**	**.7**
Baker	1	37.5	(D)	(D)	15	8.5	58	14.8
Benton	61	2.7	8 842	.2	117	2.3	792	3.6
Clackamas	129	2.2	6 667	.8	374	1.6	6 243	2.4
Clatsop	3	15.1	(D)	(D)	3	10.4	10	3.3
Columbia	13	5.0	366	1.1	43	3.7	190	6.7
Coos	10	9.2	73	11.9	40	4.3	104	6.5
Crook	1	–	(D)	–	–	–	–	–
Curry	6	11.6	4	17.2	10	8.7	77	17.3
Deschutes	2	27.0	(D)	(D)	4	15.2	12	20.8
Douglas	46	4.0	539	4.3	213	2.1	2 013	3.1
Gilliam	–	–	–	–	4	13.8	(D)	(D)
Grant	1	40.0	(D)	(D)	9	9.6	316	2.3
Harney	–	–	–	–	–	–	–	–
Hood River	12	8.4	39	4.4	365	1.3	14 696	.9

See footnotes at end of table.

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TSF:TIPS92-11375193.DAT;1 12/21/93 11:38:08 UTF:TIPS93-11375193.DAT;1 12/21/93 11:38:09 META:VOL1_TIPS96_APX_92.DAT;9 12/21/93 11:40:00

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

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

Geographic area	Selected crops harvested —Con.							
	Vegetables harvested for sale (see text)				Land in orchards			
	Farms		Acres		Farms		Acres	
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)
Jackson _____	64	3.4	534	11.6	180	2.1	10 270	.6
Jefferson _____	16	4.7	677	4.1	1	42.3	(D)	(D)
Josephine _____	27	5.3	68	9.8	66	3.2	1 062	1.9
Klamath _____	2	22.1	(D)	(D)	5	10.6	18	14.1
Lake _____	–	–	–	–	6	11.5	16	13.5
Lane _____	118	2.2	7 379	.6	368	1.5	4 921	1.6
Lincoln _____	7	12.2	8	16.9	15	6.6	131	39.9
Linn _____	84	2.3	9 518	.9	145	2.3	2 002	1.8
Malheur _____	150	1.1	11 659	.4	16	6.1	391	8.0
Marion _____	304	1.1	40 037	.3	452	1.5	9 479	1.9
Morrow _____	12	4.1	6 699	.2	5	8.0	(D)	(D)
Multnomah _____	63	3.1	3 549	1.6	73	3.3	253	4.2
Polk _____	32	3.3	2 737	1.0	231	1.7	6 410	1.5
Sherman _____	–	–	–	–	5	8.7	22	9.8
Tillamook _____	1	–	(D)	–	1	30.3	(D)	(D)
Umatilla _____	116	1.8	33 744	.3	221	2.0	5 079	1.8
Union _____	9	8.4	35	8.8	49	4.4	801	6.3
Wallowa _____	6	12.5	68	12.1	6	10.3	14	17.5
Wasco _____	4	14.8	(D)	(D)	125	1.9	7 166	.6
Washington _____	123	2.2	6 563	1.5	487	1.3	9 372	1.7
Wheeler _____	1	–	(D)	–	4	10.7	27	16.3
Yamhill _____	85	2.0	7 511	.5	542	1.2	12 549	1.3

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

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TSF:TIPS92-11375193.DAT;1 12/21/93 11:38:08 UTF:TIPS93-11375193.DAT;1 12/21/93 11:38:09 META:VOL1_TIPS96_APX_92.DAT;9 12/21/93 11:40:00

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 — Total (number)	Census published farms — Relative standard error of estimate (percent)	Not on mail list [1] — Total (number)	Not on mail list [1] — Relative standard error of estimate (percent)	Percent not on mail list [1] — Total (percent)	Percent not on mail list [1] — Standard error of percent
Farms ....number..	31 892	1.0	7 437	15.6	18.9	2.5
Land in farms ....acres ..	17 609 497	.2	348 950	29.2	1.9	.6
Average size of farm ....acres ..	552.2	.8	46.9	27.0	(X)	(X)
Farms by size:						
Less than 10 acres	6 319	1.2	3 926	19.5	38.3	4.8
10 to 49 acres	11 235	1.1	2 175	24.6	16.2	3.5
Less than 50 acres	17 554	1.1	6 101	17.5	25.8	3.6
50 acres or more	14 338	.9	1 336	30.7	8.5	2.4
50 to 99 acres	3 904	1.2	277	64.3	6.6	3.9
100 to 179 acres	2 844	1.2	544	45.6	16.0	6.1
180 acres or more	7 590	.8	515	51.2	6.4	3.0
Harvested cropland .... farms ..	20 743	.9	3 345	19.3	13.9	2.4
acres..	2 823 972	.4	29 106	34.0	1.0	.3
Farms by value of sales:						
Less than $1,000	5 727	1.2	3 248	27.4	36.2	6.3
$1,000 to $2,499	5 763	1.2	1 600	32.3	21.7	5.5
Less than $2,500	11 490	1.2	4 848	22.6	29.7	4.7
$2,500 or more	20 402	.9	2 589	22.6	11.3	2.3
$2,500 to $9,999	8 303	1.2	1 718	30.1	17.1	4.3
$10,000 or more	12 099	.9	871	44.7	6.7	2.8
Market value of agricultural products sold ....$1,000 ..	2 292 973	.3	27 795	27.4	1.2	.3
Farms by standard industrial classification:						
Crops (01)	12 738	.9	1 815	29.3	12.5	3.2
Livestock (02)	19 154	1.0	5 574	17.2	22.5	3.2
Farms by type of organization:						
Individual or family	27 506	1.0	6 899	16.7	20.1	2.8
Partnership or corporation	4 153	.8	538	65.9	11.5	6.7
Other	233	1.7	–	(X)	–	(X)
Farms by tenure of operator:						
Full owners	22 152	1.0	5 679	16.7	20.4	2.9
Part owners and tenants	9 740	.8	1 757	38.0	15.3	5.0
Part owners	7 004	.8	787	45.6	10.1	4.2
Tenants	2 736	1.2	970	46.5	26.2	9.0
Operators by place of residence:						
On farm operated	26 714	1.0	6 616	16.2	19.9	2.7
Not on farm operated	3 730	1.1	561	58.3	13.1	6.7
Not reported	1 448	1.1	259	49.9	15.2	6.4
Operators by principal occupation:						
Farming	15 306	.9	2 111	28.4	12.1	3.1
Other	16 586	1.1	4 738	21.8	22.2	3.9
Operators by sex:						
Male	27 967	.9	6 490	16.2	18.8	2.6
Female	3 925	1.1	899	43.3	18.6	6.6
Operators by race:						
White	31 391	1.0	6 764	16.2	17.7	2.5
Black and other races	501	1.4	86	74.2	14.6	9.3
Operators by years on present farm:						
4 years or less	4 860	1.4	1 946	24.7	28.6	5.2
5 years or more	23 387	.9	4 383	21.0	15.8	2.9
Average years on present farm	16.7	1.3	15.7	26.3	(X)	(X)
Not reported	3 645	1.0	1 109	35.8	23.3	6.5
Average age of operator	53.4	.1	56.2	17.3	(X)	(X)

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

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

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TSF:TIPS92-11375193.DAT;1 12/21/93 11:38:08 UTF:TIPS93-11375193.DAT;1 12/21/93 11:38:09 META:VOL1_TIPS96_APX_92.DAT;9 12/21/93 11:40:00