Appendix C.
Statistical Methodology

MAIL LIST MODEL

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

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

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

CENSUS SAMPLE DESIGN

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

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

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

CENSUS ESTIMATION

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

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

Whole Farm Nonresponse Estimation

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

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

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

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

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

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

Item	Percent of total
Farms _____number__	15.9
Land in farms_____acres__	10.2
Estimated market value of land and buildings[1]_____$1,000__	4.5
Market value of agricultural products sold __$1,000__	4.1
Harvested cropland _____acres__	10.0
Corn for grain or seed _____acres__	6.7
Wheat for grain _____acres__	9.7
Livestock and poultry inventory:	
Cattle and calves _____number__	6.3
Hogs and pigs _____number__	8.3
Hens and pullets of laying age_____number__	2.5

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

Sample Estimation

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

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

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

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

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

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

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

CENSUS SAMPLING ERROR

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

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

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

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

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

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

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

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

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

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

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

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

Farms	Relative standard error of estimate (percent)
COMPLETE COUNT ITEM	
Number of farms reporting:	
25	6.3
50	4.3
75	3.4
100	2.8
150	2.1
200	1.7
300	1.0
500	.8
750	.6
1,000	.5
1,500	.4
2,000	(X)
SAMPLE COUNT ITEM	
Number of farms reporting:	
25	35.6
50	25.3
75	20.7
100	18.0
150	14.8
200	12.9
300	10.7
500	8.5
750	7.2
1,000	6.4
1,500	5.5
2,000	(X)

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.

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

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

Item	Total	Relative standard error of estimate (percent)
FARMS AND LAND IN FARMS		
Farms ____number__	63 278	1.3
Land in farms ____acres__	46 672 188	1.0
Average size of farm ____acres__	738	1.6
MARKET VALUE OF AGRICULTURAL PRODUCTS SOLD		
Total sales (see text) ____farms__	63 278	1.3
$1,000__	8 315 965	.4
Average per farm ____dollars__	131 420	1.3
Farms by value of sales:		
Less than $1,000 (see text) ____farms__	4 244	1.2
$1,000__	1 093	1.4
$1,000 to $2,499 ____farms__	4 143	1.2
$1,000__	7 069	1.2
$2,500 to $4,999 ____farms__	5 618	1.2
$1,000__	20 518	1.2
$5,000 to $9,999 ____farms__	7 808	1.3
$1,000__	56 716	1.3
$10,000 to $19,999 ____farms__	9 144	1.6
$1,000__	132 165	1.7
$20,000 to $24,999 ____farms__	2 988	2.0
$1,000__	66 662	2.0
$25,000 to $39,999 ____farms__	6 502	1.9
$1,000__	206 442	1.9
$40,000 to $49,999 ____farms__	2 885	2.1
$1,000__	129 003	2.1
$50,000 to $99,999 ____farms__	8 277	1.9
$1,000__	592 162	1.9
$100,000 to $249,999 ____farms__	7 738	1.1
$1,000__	1 199 347	1.0
$250,000 to $499,999 ____farms__	2 436	–
$1,000__	829 177	–
$500,000 or more ____farms__	1 495	–
$1,000__	5 075 610	–
Sales by commodity or commodity group:		
Crops, including nursery and greenhouse crops ____farms__	46 238	1.4
$1,000__	2 270 577	.8
Grains ____farms__	41 866	1.4
$1,000__	2 078 937	.9
Corn for grain ____farms__	8 139	1.3
$1,000__	492 990	.5
Wheat ____farms__	36 518	1.4
$1,000__	952 414	.9
Soybeans ____farms__	14 697	1.5
$1,000__	274 910	1.1
Sorghum for grain ____farms__	21 174	1.5
$1,000__	331 529	1.1
Barley ____farms__	373	2.0
$1,000__	1 277	2.2
Oats ____farms__	2 357	1.7
$1,000__	4 340	1.8
Other grains ____farms__	1 071	1.3
$1,000__	21 477	.9
Cotton and cottonseed ____farms__	7	7.5
$1,000__	337	.8
Tobacco ____farms__	12	9.6
$1,000__	73	14.7
Hay, silage, and field seeds ____farms__	14 615	1.3
$1,000__	151 390	.8
Vegetables, sweet corn, and melons ____farms__	433	1.9
$1,000__	4 226	2.4
Fruits, nuts, and berries ____farms__	195	2.5
$1,000__	1 723	3.4
Nursery and greenhouse crops ____farms__	318	1.9
$1,000__	32 536	.8
Other crops ____farms__	88	3.7
$1,000__	1 355	.8
Livestock, poultry, and their products ____farms__	41 920	1.3
$1,000__	6 045 388	.2
Poultry and poultry products ____farms__	909	1.6
$1,000__	29 490	.6
Dairy products ____farms__	1 576	1.5
$1,000__	144 319	1.0
Cattle and calves ____farms__	37 893	1.3
$1,000__	5 569 535	.2
Hogs and pigs ____farms__	6 089	1.5
$1,000__	276 338	.8
Sheep, lambs, and wool ____farms__	2 199	1.4
$1,000__	14 314	1.0
Other livestock and livestock products (see text) ____farms__	2 317	1.2
$1,000__	11 392	1.6
Value of agricultural products sold directly to individuals for human consumption (see text) ____farms__	1 432	1.4
$1,000__	3 324	2.1

Item	Total	Relative standard error of estimate (percent)
FARM PRODUCTION EXPENSES[1]		
Total farm production expenses ____farms__	63 280	1.1
$1,000__	6 920 528	.4
Average per farm ____dollars__	109 364	1.2
Livestock and poultry purchased ____farms__	22 509	1.6
$1,000__	3 193 374	.2
Feed for livestock and poultry ____farms__	36 836	1.3
$1,000__	1 146 620	.4
Commercially mixed formula feeds ____farms__	13 689	2.0
$1,000__	219 614	.9
Seeds, bulbs, plants, and trees ____farms__	41 729	1.3
$1,000__	122 286	1.0
Commercial fertilizer ____farms__	44 859	1.3
$1,000__	280 102	1.1
Agricultural chemicals ____farms__	41 292	1.3
$1,000__	161 750	1.2
Petroleum products ____farms__	60 632	1.1
$1,000__	284 197	.9
Electricity ____farms__	44 384	1.3
$1,000__	54 721	1.1
Hired farm labor ____farms__	21 093	1.6
$1,000__	239 629	.6
Contract labor ____farms__	7 180	2.6
$1,000__	25 166	2.9
Repair and maintenance ____farms__	53 711	1.2
$1,000__	313 515	1.0
Customwork, machine hire, and rental of machinery and equipment ____farms__	26 719	1.6
$1,000__	126 061	1.6
Interest expense ____farms__	35 032	1.4
$1,000__	318 599	1.0
Secured by real estate ____farms__	23 772	1.6
$1,000__	171 737	1.4
Not secured by real estate ____farms__	22 535	1.6
$1,000__	146 862	1.0
Cash rent ____farms__	18 798	1.7
$1,000__	148 551	1.5
Property taxes ____farms__	57 770	1.1
$1,000__	112 116	1.2
All other farm production expenses ____farms__	59 295	1.2
$1,000__	393 838	.8
NET CASH RETURN FROM AGRICULTURAL SALES FOR THE FARM UNIT (SEE TEXT) [1]		
All farms ____number__	63 280	1.1
$1,000__	1 393 417	.8
Average per farm ____dollars__	22 020	1.4
Farms with net gains [2] ____number__	38 750	1.3
$1,000__	1 604 316	.7
Average net gain ____dollars__	41 402	1.5
Farms with net losses ____number__	24 530	1.5
$1,000__	210 899	1.9
Average net loss ____dollars__	8 598	2.5
GOVERNMENT PAYMENTS AND OTHER FARM-RELATED INCOME		
Government payments ____farms__	36 971	1.4
$1,000__	368 937	1.1
Other farm-related income [1] ____farms__	19 789	1.8
$1,000__	97 931	2.5
Customwork and other agricultural services ____farms__	7 054	2.8
$1,000__	47 272	3.6
Gross cash rent or share payments ____farms__	8 206	2.7
$1,000__	43 194	3.6
Forest products and Christmas trees ____farms__	367	12.5
$1,000__	758	20.3
Other farm-related income sources ____farms__	8 777	2.6
$1,000__	6 707	4.0
COMMODITY CREDIT CORPORATION LOANS		
Total ____farms__	5 073	1.5
$1,000__	76 790	.9

See footnotes at end of table.

TIPS [UPF] BATCH_1166 [ACEN,C_ARLEDGE] 4/ 7/94 6:29 AM MACHINE: EPCV23 DATA:VOL1_TIPS_APX_47.TIPS;1 * 3/29/94 13:57:00 TAPE: NOreel FRAME: 1
TSF:TIPS92-13572900.DAT;1 3/29/94 13:57:38 UTF:TIPS93-13572900.DAT;1 3/29/94 13:57:39 META:VOL1_TIPS96_APX_47.DAT;2 3/29/94 13:58:53

[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 __	63 278	1.3
Total cropland _____ farms __	56 389	1.3	acres __	46 672 188	1.0
acres __	31 119 250	1.1	Full owners _____ farms __	26 947	1.2
Harvested cropland _____ farms __	52 348	1.3	acres __	8 264 941	1.2
acres __	18 794 787	1.0	Part owners _____ farms __	27 243	1.4
Farms by acres harvested:			acres __	31 956 085	1.0
1 to 9 acres _____ farms __	1 940	1.3	Tenants_____ farms __	9 088	1.3
acres __	9 707	1.4	acres __	6 451 162	1.0
10 to 19 acres _____ farms __	2 708	1.3			
acres __	36 823	1.3	**OWNED AND RENTED LAND**		
20 to 29 acres _____ farms __	2 394	1.3			
acres __	55 480	1.3	Land owned _____ farms __	54 808	1.3
30 to 49 acres _____ farms __	4 257	1.3	acres __	24 699 307	1.1
acres __	160 297	1.3	Owned land in farms _____ farms __	54 190	1.3
			acres __	20 863 769	1.1
50 to 99 acres _____ farms __	7 353	1.5	Land rented or leased from others _____ farms __	36 603	1.4
acres __	524 318	1.5	acres __	26 298 271	.9
100 to 199 acres _____ farms __	8 631	1.8	landlords __	112 025	1.2
acres __	1 220 399	1.8	Rented or leased land in farms _____ farms __	36 331	1.4
200 to 499 acres _____ farms __	12 602	1.9	acres __	25 808 419	.9
acres __	4 065 460	1.9	Land rented or leased to others _____ farms __	11 792	1.4
500 to 999 acres _____ farms __	7 979	1.5	acres __	4 325 390	1.2
acres __	5 558 100	1.5			
1,000 acres or more _____ farms __	4 484	—	**OPERATOR CHARACTERISTICS**		
acres __	7 164 203	—			
			Operators by place of residence:		
Cropland:			On farm operated _____	42 269	1.3
Pasture or grazing only _____ farms __	21 538	1.4	Not on farm operated _____	16 511	1.3
acres __	3 814 520	1.5	Not reported _____	4 498	1.2
Other cropland _____ farms __	34 557	1.4	Operators by principal occupation:		
acres __	8 509 943	1.1	Farming _____	39 324	1.4
			Other _____	23 954	1.1
Total woodland _____ farms __	11 931	1.4	Operators by days worked off farm:		
acres __	639 398	1.3	Any _____	30 776	1.2
Pastureland and rangeland other than cropland and woodland pastured _____ farms __	29 949	1.3	200 days or more _____	19 757	1.2
acres __	13 771 436	.8	Operators by sex:		
Land in house lots, ponds, roads, wasteland, etc. _____farms __	38 550	1.3	Male _____ farms __	60 094	1.3
acres __	1 142 104	1.2	acres __	45 328 810	1.0
Irrigated land _____ farms __	6 543	.9	Female _____ farms __	3 184	1.3
acres __	2 680 343	.5	acres __	1 343 378	1.3
Acres irrigated:			Average age of operator _____years __	53.2	1.8
1 to 9 acres _____ farms __	413	1.8			
acres __	1 170	2.2	**FARMS BY TYPE OF ORGANIZATION**		
10 to 49 acres _____ farms __	653	1.8			
acres __	18 910	1.8	Individual or family (sole proprietorship) _____ farms __	54 952	1.3
50 to 99 acres _____ farms __	684	1.8	acres __	35 545 160	1.2
acres __	47 824	1.8	Partnership_____ farms __	5 686	1.2
100 to 199 acres _____ farms __	1 332	1.4	acres __	6 444 011	.6
acres __	185 410	1.4	Corporation:		
200 to 499 acres _____ farms __	1 725	1.2	Family held _____ farms __	2 036	.9
acres __	556 003	1.2	acres __	4 031 843	.4
500 to 999 acres _____ farms __	1 109	.6	More than 10 stockholders _____ farms __	42	3.7
acres __	763 954	.5	10 or less stockholders _____ farms __	1 994	.9
1,000 acres or more _____ farms __	627	.1			
acres __	1 107 072	(L)	Other than family held _____ farms __	186	2.0
			acres __	179 005	1.6
Harvested cropland irrigated _____ farms __	6 460	.9	More than 10 stockholders _____ farms __	25	5.0
acres __	2 626 318	.5	10 or less stockholders _____ farms __	161	2.2
Pasture and other land irrigated _____ farms __	347	1.5	Other—cooperative, estate or trust, institutional, etc. _____farms __	418	1.9
acres __	54 025	1.2	acres __	472 169	1.0
Land under federal acreage reduction programs:					
Diverted under annual commodity programs _____farms __	24 021	1.5	**HIRED FARM LABOR**		
acres __	669 600	.9			
Conservation Reserve or Wetlands Reserve Programs _____ farms __	14 786	1.4	Hired workers by days worked:		
acres __	2 278 157	1.2	150 days or more _____ farms __	8 231	29.2
			workers __	16 784	16.8
			Less than 150 days _____ farms __	19 010	42.5
VALUE OF LAND AND BUILDINGS [1]			workers __	42 735	36.6
Estimated market value of land and buildings _____farms __	63 280	1.1	**INJURIES AND DEATHS**		
$1,000 __	21 724 808	1.0			
Average per farm _____dollars __	343 312	1.5	Farm-related injuries:		
Average per acre _____dollars __	463	1.4	Operator and family members _____ farms __	608	1.7
			number __	698	1.8
VALUE OF MACHINERY AND EQUIPMENT [1]			Hired workers _____ farms __	253	1.2
			number __	474	.7
Estimated market value of all machinery and equipment _____ farms __	63 146	1.1			
$1,000 __	3 713 712	1.1	Farm-related deaths:		
Average per farm _____dollars __	58 812	1.6	Operator and family members _____ farms __	19	5.8
			number __	19	5.8
AGRICULTURAL CHEMICALS [1]			Hired workers _____ farms __	2	—
			number __	(D)	(D)
Commercial fertilizer _____ farms __	44 790	1.3			
acres on which used __	15 649 595	1.0			

See footnotes at end of table.

TIPS [UPF] BATCH_1166 [ACEN,C_ARLEDGE] 4/ 7/94 6:29 AM MACHINE: EPCV23 DATA:VOL1_TIPS_APX_47.TIPS;1 * 3/29/94 13:57:00 TAPE: NOreel FRAME: 2
TSF:TIPS92-13572900.DAT;1 3/29/94 13:57:38 UTF:TIPS93-13572900.DAT;1 3/29/94 13:57:39 META:VOL1_TIPS96_APX_47.DAT;2 3/29/94 13:58:53

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

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

Item	Total	Relative standard error of estimate (percent)	Item	Total	Relative standard error of estimate (percent)
FARMS BY SIZE			**LIVESTOCK**—Con.		
1 to 9 acres ---------- farms --	2 632	1.3	Cattle and calves sold ---------- farms --	37 893	1.3
acres --	7 804	1.4	number--	7 699 746	.3
10 to 49 acres ---------- farms --	6 023	1.2	$1,000--	5 569 535	.2
acres --	165 635	1.2	Hogs and pigs inventory ---------- farms --	5 684	1.5
50 to 69 acres ---------- farms --	1 807	1.3	number--	1 584 048	.9
acres --	105 069	1.3	Hogs and pigs sold ---------- farms --	6 089	1.5
70 to 99 acres ---------- farms --	4 232	1.2	number--	2 992 913	.9
acres --	343 011	1.2	$1,000--	276 338	.8
100 to 139 acres ---------- farms --	2 989	1.3			
acres --	350 630	1.3	Sheep and lambs of all ages inventory ---------- farms --	2 120	1.4
			number--	206 566	1.2
140 to 179 acres ---------- farms --	5 193	1.4	Sheep and lambs sold ---------- farms --	2 137	1.4
acres --	821 347	1.4	number--	212 553	1.0
180 to 219 acres ---------- farms --	2 189	1.6			
acres --	432 355	1.6	Horses and ponies inventory ---------- farms --	9 659	1.1
220 to 259 acres ---------- farms --	2 548	1.7	number--	42 878	1.1
acres --	607 227	1.7	Horses and ponies sold ---------- farms --	1 720	1.3
260 to 499 acres ---------- farms --	10 481	1.8	number--	6 145	2.0
acres --	3 860 654	1.8			
500 to 999 acres ---------- farms --	10 817	1.9	**POULTRY**		
acres --	7 732 684	1.9			
			Chickens 3 months old or older inventory ---------- farms --	2 407	1.3
1,000 to 1,999 acres ---------- farms --	8 809	1.5	number--	1 926 383	.9
acres --	12 208 362	1.4	Hens and pullets of laying age ---------- farms --	2 357	1.3
2,000 acres or more ---------- farms --	5 558	.5	number--	1 621 465	.7
acres --	20 037 410	.3			
			Broilers and other meat-type chickens sold ---------- farms --	80	3.8
			number--	88 483	11.1
FARMS BY STANDARD INDUSTRIAL CLASSIFICATION			**CROPS HARVESTED**		
Cash grains (011) ---------- farms --	27 983	1.4	Corn for grain or seed ---------- farms --	9 604	1.3
acres --	24 287 483	1.1	acres --	1 748 802	.6
Field crops, except cash grains (013) ---------- farms --	3 107	1.2	bushels--	258 720 259	.5
acres --	892 978	1.2	Corn for silage or green chop ---------- farms --	1 797	1.1
Vegetables and melons (016) ---------- farms --	176	2.8	acres --	105 469	.7
acres --	11 265	4.7	tons, green --	1 810 537	.8
Fruits and tree nuts (017) ---------- farms --	164	2.8	Sorghum for grain or seed ---------- farms --	23 820	1.5
acres --	13 072	3.6	acres --	2 957 276	1.1
Horticultural specialties (018) ---------- farms --	256	2.0	bushels--	222 145 624	1.1
acres --	16 742	2.4	Wheat for grain ---------- farms --	36 623	1.4
General farms, primarily crop (019) ---------- farms --	1 553	1.5	acres --	9 942 149	1.0
acres --	1 054 566	1.5	bushels--	329 082 833	.9
Livestock, except dairy, poultry, and animal specialties (021) ---------- farms --	26 612	1.2	Barley for grain ---------- farms --	576	1.8
acres --	18 863 076	.9	acres --	26 288	1.7
Dairy farms (024) ---------- farms --	1 109	1.6	bushels--	1 073 651	1.7
acres --	689 718	1.3	Oats for grain ---------- farms --	4 659	1.6
Poultry and eggs (025) ---------- farms --	175	2.5	acres --	118 788	1.5
acres --	29 235	3.0	bushels--	6 024 886	1.6
Animal specialties (027) ---------- farms --	1 194	1.4	Soybeans for beans ---------- farms --	14 743	1.5
acres --	148 542	2.1	acres --	1 669 958	1.2
General farms, primarily livestock and animal specialties (029) ---------- farms --	949	1.6	bushels--	56 854 327	1.1
acres --	665 511	1.3	Dry edible beans, excluding dry limas ---------- farms --	245	2.0
			acres --	25 131	1.3
			cwt--	406 181	1.4
LIVESTOCK			Irish potatoes ---------- farms --	98	3.7
			acres --	864	1.1
			cwt--	210 608	.7
Cattle and calves inventory ---------- farms --	37 889	1.3	Hay—alfalfa, other tame, small grain, wild, grass silage, green chop, etc. (see text) ---------- farms --	32 926	1.4
number--	6 066 493	.6	acres --	2 509 904	1.2
Beef cows ---------- farms --	30 308	1.4	tons, dry --	5 938 634	1.0
number--	1 434 017	1.2	Alfalfa hay ---------- farms --	16 055	1.4
Milk cows ---------- farms --	2 165	1.5	acres --	874 197	1.0
number--	85 132	1.0	tons, dry --	3 053 842	.9
			Vegetables harvested for sale (see text) ---------- farms --	434	1.9
			acres --	3 961	3.2
			Land in orchards ---------- farms --	448	1.8
			acres --	6 600	4.8

[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.

TIPS [UPF] BATCH_1166 [ACEN,C_ARLEDGE] 4/ 7/94 6:29 AM MACHINE: EPCV23 DATA:VOL1_TIPS_APX_47.TIPS;1 * 3/29/94 13:57:00 TAPE: NOreel FRAME: 3
TSF:TIPS92-13572900.DAT;1 3/29/94 13:57:38 UTF:TIPS93-13572900.DAT;1 3/29/94 13:57:39 META:VOL1_TIPS96_APX_47.DAT;2 3/29/94 13:58:53

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__	41 717	1.3
Farms ____number__	41 465	1.5	$1,000__	6 791 023	.3
Land in farms ____acres__	43 169 048	1.0	Average per farm ____dollars__	162 788	1.3
Average size of farm ____acres__	1 041	1.8			
			Livestock and poultry purchased ____farms__	17 405	1.7
			$1,000__	3 181 943	.2
MARKET VALUE OF AGRICULTURAL PRODUCTS SOLD			Feed for livestock and poultry ____farms__	26 746	1.5
			$1,000__	1 135 693	.3
			Commercially mixed formula feeds ____farms__	10 536	2.1
			$1,000__	217 650	.9
Total sales (see text) ____farms__	41 465	1.5			
$1,000__	8 230 568	.4	Seeds, bulbs, plants, and trees ____farms__	33 757	1.4
Average per farm ____dollars__	198 494	1.5	$1,000__	119 228	1.0
			Commercial fertilizer ____farms__	34 588	1.4
Farms by value of sales:			$1,000__	271 719	1.1
$10,000 to $19,999 ____farms__	9 144	1.6	Agricultural chemicals ____farms__	31 933	1.4
$1,000__	132 165	1.7	$1,000__	156 330	1.2
$20,000 to $24,999 ____farms__	2 988	2.0	Petroleum products ____farms__	41 271	1.3
$1,000__	66 662	2.0	$1,000__	270 469	.9
$25,000 to $39,999 ____farms__	6 502	1.9	Electricity ____farms__	33 313	1.4
$1,000__	206 442	1.9	$1,000__	51 617	1.1
$40,000 to $49,999 ____farms__	2 885	2.1			
$1,000__	129 003	2.1	Hired farm labor ____farms__	17 886	1.6
			$1,000__	237 255	.6
$50,000 to $99,999 ____farms__	8 277	1.9	Contract labor ____farms__	5 858	2.7
$1,000__	592 162	1.9	$1,000__	24 147	3.0
$100,000 to $249,999 ____farms__	7 738	1.1	Repair and maintenance ____farms__	38 308	1.3
$1,000__	1 199 347	1.0	$1,000__	295 621	1.0
$250,000 to $499,999 ____farms__	2 436	–	Customwork, machine hire, and rental of machinery and equipment ____farms__	21 231	1.6
$1,000__	829 177	–	$1,000__	121 673	1.7
$500,000 or more ____farms__	1 495	–	Interest expense ____farms__	27 841	1.5
$1,000__	5 075 610	–	$1,000__	302 155	1.0
Sales by commodity or commodity group:			Secured by real estate ____farms__	18 464	1.7
Crops, including nursery and greenhouse crops ____farms__	35 606	1.5	$1,000__	158 135	1.4
$1,000__	2 230 801	.8	Not secured by real estate ____farms__	19 252	1.7
Grains ____farms__	34 192	1.5	$1,000__	144 019	1.0
$1,000__	2 047 815	.9			
Corn for grain ____farms__	7 742	1.3	Cash rent ____farms__	16 194	1.8
$1,000__	491 949	.5	$1,000__	145 528	1.5
Wheat ____farms__	30 852	1.5	Property taxes ____farms__	38 391	1.3
$1,000__	933 068	.9	$1,000__	96 965	1.2
Soybeans ____farms__	12 862	1.7	All other farm production expenses ____farms__	41 715	1.3
$1,000__	269 878	1.1	$1,000__	380 679	.8
Sorghum for grain ____farms__	18 918	1.6			
$1,000__	326 312	1.1	**NET CASH RETURN FROM AGRICULTURAL SALES FOR THE FARM UNIT (SEE TEXT)** [1]		
Barley ____farms__	351	2.0			
$1,000__	1 258	2.2			
Oats ____farms__	2 060	1.8			
$1,000__	4 036	1.8	All farms ____number__	41 717	1.3
Other grains ____farms__	1 008	1.3	$1,000__	1 436 944	.8
$1,000__	21 314	.9	Average per farm ____dollars__	34 445	1.5
Cotton and cottonseed ____farms__	7	7.5	Farms with net gains [2] ____number__	31 224	1.4
$1,000__	337	.8	$1,000__	1 588 632	.7
Tobacco ____farms__	9	11.1	Average net gain ____dollars__	50 879	1.6
$1,000__	66	15.9			
Hay, silage, and field seeds ____farms__	10 578	1.5	Farms with net losses ____number__	10 493	2.4
$1,000__	143 647	.8	$1,000__	151 687	2.3
			Average net loss ____dollars__	14 456	3.3
Vegetables, sweet corn, and melons ____farms__	243	2.4			
$1,000__	3 847	2.6			
Fruits, nuts, and berries ____farms__	96	3.4	**GOVERNMENT PAYMENTS AND OTHER FARM-RELATED INCOME**		
$1,000__	1 570	3.7			
Nursery and greenhouse crops ____farms__	216	2.2			
$1,000__	32 202	.8	Government payments ____farms__	29 533	1.5
Other crops ____farms__	52	4.5	$1,000__	337 876	1.0
$1,000__	1 316	.7	Other farm-related income [1] ____farms__	14 751	2.0
			$1,000__	84 087	2.7
Livestock, poultry, and their products ____farms__	29 774	1.5	Customwork and other agricultural services ____farms__	6 078	2.9
$1,000__	5 999 768	.2	$1,000__	44 852	3.8
Poultry and poultry products ____farms__	472	2.1	Gross cash rent or share payments ____farms__	5 036	3.3
$1,000__	29 266	.6	$1,000__	32 735	4.2
Dairy products ____farms__	1 525	1.6	Forest products and Christmas trees ____farms__	222	15.4
$1,000__	144 155	1.0	$1,000__	471	14.4
Cattle and calves ____farms__	27 865	1.5	Other farm-related income sources ____farms__	7 407	2.7
$1,000__	5 530 834	.2	$1,000__	6 028	3.4
Hogs and pigs ____farms__	4 863	1.7			
$1,000__	273 139	.8			
Sheep, lambs, and wool ____farms__	1 258	1.8	**COMMODITY CREDIT CORPORATION LOANS**		
$1,000__	13 006	1.0			
Other livestock and livestock products (see text) ____farms__	1 069	1.6			
$1,000__	9 368	1.9			
Value of agricultural products sold directly to individuals for human consumption (see text) ____farms__	802	1.7	Total ____farms__	4 626	1.5
$1,000__	2 601	2.5	$1,000__	76 053	.9

See footnotes at end of table.

TIPS [UPF] BATCH_1166 [ACEN,C_ARLEDGE] 4/ 7/94 6:29 AM MACHINE: EPCV23 DATA:VOL1_TIPS_APX_47.TIPS;1 * 3/29/94 13:57:00 TAPE: NOreel FRAME: 4
TSF:TIPS92-13572900.DAT;1 3/29/94 13:57:38 UTF:TIPS93-13572900.DAT;1 3/29/94 13:57:39 META:VOL1_TIPS96_APX_47.DAT;2 3/29/94 13:58:53

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

Item	Total	Relative standard error of estimate (percent)	Item	Total	Relative standard error of estimate (percent)
LAND IN FARMS ACCORDING TO USE			**FARMS BY TYPE OF ORGANIZATION**		
Total cropland ____ farms __	39 104	1.5	Individual or family (sole proprietorship) ____ farms __	34 890	1.6
acres__	29 110 691	1.1	acres__	32 552 809	1.2
Harvested cropland ____ farms __	37 999	1.5	Partnership____ farms __	4 294	1.2
acres__	18 090 924	1.0	acres__	6 183 132	.6
Cropland:			Corporation:		
Pasture or grazing only ____ farms __	14 945	1.6	Family held ____ farms __	1 882	.9
acres__	3 295 118	1.5	acres__	3 982 290	.4
Total woodland ____ farms __	7 407	1.7	More than 10 stockholders ____farms __	37	3.6
acres__	476 881	1.5	10 or less stockholders ____ farms __	1 845	.9
Pastureland and rangeland other than cropland and			Other than family held ____ farms __	156	2.1
woodland pastured ____ farms __	20 881	1.5	acres__	168 256	1.7
acres__	12 620 053	.8	More than 10 stockholders ____farms __	22	5.1
Land in house lots, ponds, roads, wasteland, etc. ____farms __	25 468	1.6	10 or less stockholders ____ farms __	134	2.2
acres__	961 423	1.3	Other—cooperative, estate or trust, institutional, etc. ____farms __	243	2.3
Irrigated land ____ farms __	6 161	1.0	acres__	282 561	1.5
acres__	2 670 735	.5	**HIRED FARM LABOR**		
Harvested cropland irrigated ____ farms __	6 110	1.0	Hired workers by days worked:		
acres__	2 618 353	.5	150 days or more ____ farms __	7 176	30.1
Pasture and other land irrigated ____ farms __	304	1.5	workers__	15 673	16.4
acres__	52 382	1.2	Less than 150 days ____ farms __	15 876	45.2
Land under federal acreage reduction programs:			workers__	37 195	37.9
Diverted under annual commodity programs ____ farms __	21 855	1.5	**INJURIES AND DEATHS**		
acres__	658 911	.9	Farm-related injuries:		
Conservation Reserve or Wetlands Reserve			Operator and family members ____ farms __	497	1.8
Programs ____ farms __	11 235	1.5	number__	574	1.9
acres__	1 865 650	1.2	Hired workers ____ farms __	237	1.1
VALUE OF LAND AND BUILDINGS [1]			number__	457	.7
Estimated market value of land and buildings ____farms __	41 717	1.3	Farm-related deaths:		
$1,000__	19 437 803	1.0	Operator and family members ____ farms __	17	6.2
Average per farm ____dollars __	465 944	1.7	number__	(D)	(D)
Average per acre ____dollars __	449	1.4	Hired workers ____ farms __	2	–
VALUE OF MACHINERY AND EQUIPMENT [1]			number__	(D)	(D)
Estimated market value of all machinery and			**FARMS BY SIZE**		
equipment ____ farms __	41 700	1.3	1 to 9 acres ____	879	1.8
$1,000__	3 394 236	1.1	10 to 49 acres ____	738	1.6
Average per farm ____dollars __	81 397	1.7	50 to 69 acres ____	334	2.2
			70 to 99 acres ____	908	1.7
AGRICULTURAL CHEMICALS[1]			100 to 139 acres ____	1 033	1.7
Commercial fertilizer ____ farms __	34 570	1.4	140 to 179 acres ____	2 327	1.7
acres on which used __	15 081 552	1.0	180 to 219 acres ____	1 240	1.9
			220 to 259 acres ____	1 637	1.9
TENURE OF OPERATOR			260 to 499 acres ____	8 251	1.9
All operators ____ farms __	41 465	1.5	500 to 999 acres ____	10 009	1.9
acres__	43 169 048	1.0	1,000 to 1,999 acres ____	8 617	1.5
Full owners ____ farms __	11 641	1.6	2,000 acres or more ____	5 492	.4
acres__	6 328 351	1.2	**FARMS BY STANDARD INDUSTRIAL CLASSIFICATION**		
Part owners ____ farms __	23 480	1.5			
acres__	30 937 571	1.0	Cash grains (011) ____	21 830	1.6
Tenants____ farms __	6 344	1.5	Field crops, except cash grains (013) ____	848	1.7
acres__	5 903 126	1.0	Vegetables and melons (016) ____	64	4.6
			Fruits and tree nuts (017) ____	26	6.5
OWNED AND RENTED LAND			Horticultural specialties (018) ____	166	2.4
Land owned ____ farms __	35 538	1.5	General farms, primarily crop (019) ____	777	2.0
acres__	21 289 885	1.1	Livestock, except dairy, poultry, and animal specialties		
Owned land in farms ____ farms __	35 121	1.5	(021) ____	16 227	1.5
acres__	18 459 303	1.1	Dairy farms (024) ____	1 082	1.6
Land rented or leased from others ____farms __	29 998	1.5	Poultry and eggs (025) ____	69	2.7
acres__	25 154 400	.9	Animal specialties (027) ____	139	3.0
landlords__	101 345	1.2	General farms, primarily livestock and animal		
Rented or leased land in farms ____farms __	29 824	1.5	specialties (029) ____	237	2.5
acres__	24 709 745	.9	**LIVESTOCK**		
Land rented or leased to others ____farms __	7 012	1.6	Cattle and calves inventory ____ farms __	27 162	1.5
acres__	3 275 237	1.2	number__	5 824 056	.6
			Beef cows ____ farms __	21 346	1.6
OPERATOR CHARACTERISTICS			number__	1 311 560	1.2
Operators by place of residence:			Milk cows ____ farms __	1 845	1.6
On farm operated ____	28 870	1.5	number__	84 436	1.0
Not on farm operated ____	9 897	1.5	Cattle and calves sold ____ farms __	27 865	1.5
Not reported ____	2 698	1.4	number__	7 606 998	.3
Operators by principal occupation:			$1,000__	5 530 834	.2
Farming____	31 926	1.5	Hogs and pigs inventory ____ farms __	4 509	1.7
Other ____	9 539	1.5	number__	1 551 305	.9
Operators by days worked off farm:			Hogs and pigs sold ____ farms __	4 863	1.7
Any ____	16 423	1.6	number__	2 945 501	.9
200 days or more ____	8 574	1.6	$1,000__	273 139	.8
Operators by sex:			Sheep and lambs of all ages inventory ____farms __	1 203	1.8
Male ____	40 143	1.5	number__	176 029	1.2
Female ____	1 322	1.7	Sheep and lambs sold ____ farms __	1 239	1.8
Average age of operator ____years __	53.0	2.1	number__	188 520	1.0
			Horses and ponies inventory ____ farms __	5 527	1.4
			number__	23 971	1.4
			Horses and ponies sold ____ farms __	814	1.6
			number__	4 077	2.8

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	547	1.8
Chickens 3 months old or older inventory	farms	1 236	1.8		acres	25 573	1.7
	number	1 882 451	.9		bushels	1 056 189	1.7
Hens and pullets of laying age	farms	1 214	1.8	Oats for grain	farms	4 114	1.7
	number	1 593 757	.7		acres	110 315	1.6
					bushels	5 681 520	1.6
Broilers and other meat-type chickens sold	farms	31	5.5	Soybeans for beans	farms	12 881	1.7
	number	81 783	12.0		acres	1 626 634	1.2
					bushels	55 687 025	1.1
				Dry edible beans, excluding dry limas	farms	227	2.0
CROPS HARVESTED					acres	24 810	1.4
					cwt	404 731	1.4
Corn for grain or seed	farms	9 087	1.3	Irish potatoes	farms	56	4.8
	acres	1 739 807	.6		acres	823	1.0
	bushels	258 018 221	.5		cwt	207 171	.7
Corn for silage or green chop	farms	1 748	1.1	Hay—alfalfa, other tame, small grain, wild, grass			
	acres	104 412	.7	silage, green chop, etc. (see text)	farms	24 044	1.6
	tons, green	1 794 957	.7		acres	2 239 943	1.2
Sorghum for grain or seed	farms	21 310	1.6		tons, dry	5 521 863	1.1
	acres	2 889 081	1.1	Alfalfa hay	farms	13 205	1.6
	bushels	218 496 791	1.1		acres	820 160	1.0
Wheat for grain	farms	30 894	1.5		tons, dry	2 946 393	.9
	acres	9 627 011	1.0	Vegetables harvested for sale (see text)	farms	244	2.4
	bushels	321 634 091	.9		acres	3 436	3.6
				Land in orchards	farms	160	2.9
					acres	4 865	6.3

[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 __	−7.7	1.4	−3.0	1.7
Land in farms ___ acres __	.1	1.2	.8	1.2
Average size of farm ___ acres __	8.5	2.1	3.9	2.2
Estimated market value of land and buildings [1]:				
Average per farm ___ dollars __	23.5	2.4	18.7	2.5
Average per acre ___ dollars __	12.1	2.0	13.1	2.0
Estimated market value of all machinery and equipment [1]:				
Average per farm ___ dollars __	16.7	2.4	15.1	2.5
Farms by size:				
1 to 9 acres	−28.7	1.3	−20.4	1.9
10 to 49 acres	−3.2	1.7	27.7	2.8
50 to 179 acres	−8.3	1.4	21.0	2.3
180 to 499 acres	−8.9	1.8	−5.1	2.1
500 to 999 acres	−10.6	2.0	−11.8	2.0
1,000 to 1,999 acres	−5.3	1.7	−5.8	1.6
2,000 acres or more	9.9	.6	9.4	.6
Total cropland ___ farms __	−8.5	1.4	−3.8	1.7
acres __	−.8	1.3	.1	1.3
Harvested cropland ___ farms __	−9.5	1.5	−4.2	1.7
acres __	6.0	1.3	8.0	1.3
Irrigated land ___ farms __	−11.0	1.1	−9.2	1.1
acres __	8.8	.7	9.1	.7
Market value of agricultural products sold ___ $1,000 __	28.4	.6	29.1	.6
Average per farm ___ dollars __	39.2	2.3	33.1	2.5
Crops, including nursery and greenhouse crops ___ $1,000 __	34.1	1.4	35.9	1.4
Livestock, poultry, and their products ___ $1,000 __	26.4	.4	26.8	.4
Farms by value of sales:				
Less than $2,500	−11.7	1.1	(X)	(X)
$2,500 to $4,999	−18.8	1.3	(X)	(X)
$5,000 to $9,999	−17.2	1.4	(X)	(X)
$10,000 to $24,999	−13.8	1.8	−13.8	1.8
$25,000 to $49,999	−8.7	2.1	−8.7	2.1
$50,000 to $99,999	−8.0	2.1	−8.0	2.1
$100,000 to $249,999	16.3	1.4	16.3	1.4
$250,000 to $499,999	37.9	(L)	37.9	(L)
$500,000 or more	56.2	.1	56.2	.1
Total farm production expenses [1] ___ $1,000 __	25.5	1.5	26.3	1.7
Average per farm ___ dollars __	36.0	2.0	29.7	2.2
Net cash return from agricultural sales for the farm unit (see text) [1] ___ farms __	−7.7	1.3	−2.7	1.6
$1,000 __	51.1	1.7	50.3	1.7
Average per farm ___ dollars __	63.8	3.0	54.4	3.0
Operators by principal occupation:				
Farming	−7.7	1.6	−5.5	1.7
Other	−7.8	1.4	6.6	2.0
Operators by days worked off farm:				
Any	−11.2	4.6	−4.9	5.0
200 days or more	−8.9	4.7	4.1	5.5
Livestock and poultry:				
Cattle and calves inventory ___ farms __	−7.1	1.4	−3.4	1.7
number __	9.5	.8	10.6	.8
Beef cows ___ farms __	−3.7	1.6	.5	1.9
number __	5.9	1.5	7.5	1.6
Milk cows ___ farms __	−30.0	1.2	−26.6	1.4
number __	−11.9	1.1	−11.3	1.1
Cattle and calves sold ___ farms __	−8.7	1.4	−4.8	1.7
number __	5.3	.3	5.9	.3
Hogs and pigs inventory ___ farms __	−16.0	1.5	−17.7	1.6
number __	4.4	1.1	4.4	1.1
Hogs and pigs sold ___ farms __	−14.1	1.5	−16.0	1.7
number __	8.5	1.2	8.5	1.2
Sheep and lambs inventory ___ farms __	−11.7	1.5	−13.3	1.9
number __	−17.1	1.2	−19.2	1.2
Chickens 3 months old or older inventory ___ farms __	−42.8	.9	−44.7	1.2
number __	−8.0	.9	−7.6	.9
Broilers and other meat-type chickens sold ___ farms __	−39.4	2.8	−56.9	2.8
number __	−49.7	7.1	−50.9	7.4
Selected crops harvested:				
Corn for grain or seed ___ farms __	7.4	1.7	13.2	1.8
acres __	40.6	1.2	41.6	1.2
bushels __	79.5	1.3	80.3	1.3
Corn for silage or green chop ___ farms __	−10.6	1.2	−10.2	1.2
acres __	−3.4	.9	−3.3	.9
tons, green __	8.5	1.0	8.3	1.0
Sorghum for grain or seed ___ farms __	−26.7	1.3	−21.4	1.5
acres __	−13.0	1.2	−11.4	1.2
bushels __	−2.6	1.3	−1.2	1.3
Wheat for grain ___ farms __	−5.2	1.6	1.1	1.8
acres __	14.5	1.4	17.0	1.4
bushels __	12.3	1.3	14.5	1.3
Oats for grain ___ farms __	−12.3	1.7	−8.4	1.9
acres __	−7.3	1.7	−6.0	1.8
bushels __	26.2	2.3	27.3	2.4
Soybeans for beans ___ farms __	−21.8	1.4	−14.3	1.7
acres __	−11.1	1.3	−8.6	1.3
bushels __	1.9	1.4	4.0	1.4
Hay—alfalfa, other tame, small grain, wild, grass silage, green chop, etc. (see text) ___ farms __	−3.1	1.5	−1.1	1.8
acres __	11.3	1.5	12.5	1.6
tons, dry __	16.9	1.4	17.8	1.5

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

TIPS [UPF] BATCH_1166 [ACEN,C_ARLEDGE] 4/ 7/94 6:29 AM MACHINE: EPCV23 DATA:VOL1_TIPS_APX_47.TIPS;1 * 3/29/94 13:57:00 TAPE: NOreel FRAME: 7
TSF:TIPS92-13572900.DAT;1 3/29/94 13:57:38 UTF:TIPS93-13572900.DAT;1 3/29/94 13:57:39 META:VOL1_TIPS96_APX_47.DAT;2 3/29/94 13:58:53

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

Geographic area	Farms		Land in farms		Average size of farm		Average market value of land and buildings per farm [1]		Estimated market value of all machinery and equipment [1]	
	Total (number)	Relative standard error of estimate (percent)	Total (acres)	Relative standard error of estimate (percent)	Total (acres)	Relative standard error of estimate (percent)	Value (dollars)	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)
Kansas	**63 278**	**1.3**	**46 672 188**	**1.0**	**738**	**1.6**	**343 312**	**1.5**	**3 713 712**	**1.1**
Allen	652	1.0	282 862	1.1	434	1.5	176 171	5.6	25 594	8.5
Anderson	703	1.6	378 517	1.7	538	2.3	259 676	5.9	34 773	7.5
Atchison	686	1.9	245 099	2.1	357	2.8	221 375	5.1	32 103	8.8
Barber	449	.9	639 327	.6	1 424	1.1	469 051	4.6	29 840	4.8
Barton	770	.8	580 199	.8	754	1.2	376 048	7.8	50 900	4.2
Bourbon	781	1.0	337 300	1.2	432	1.5	165 240	4.3	23 179	5.5
Brown	688	1.5	339 138	1.4	493	2.1	363 820	4.0	44 916	5.5
Butler	1 247	.8	765 688	.7	614	1.0	310 898	5.0	50 178	4.6
Chase	284	1.2	351 941	.9	1 239	1.4	523 332	5.6	12 089	7.6
Chautauqua	379	.9	386 881	1.1	1 021	1.5	306 583	5.8	11 166	7.4
Cherokee	764	1.3	271 015	1.6	355	2.1	186 685	7.5	33 383	8.9
Cheyenne	426	1.5	592 069	1.3	1 390	2.0	521 466	5.3	28 090	3.8
Clark	255	.7	565 274	.5	2 217	.9	567 505	3.6	18 712	9.4
Clay	600	2.2	380 969	2.3	635	3.2	299 936	6.0	38 065	7.5
Cloud	613	2.1	407 464	2.2	665	3.1	329 135	8.5	34 053	5.8
Coffey	588	1.5	353 371	1.6	601	2.2	291 413	7.3	31 706	6.3
Comanche	260	1.3	486 997	.9	1 873	1.6	486 699	7.1	16 241	5.1
Cowley	965	1.2	627 612	1.1	650	1.6	308 697	7.9	40 406	5.6
Crawford	780	1.6	302 849	2.0	388	2.5	173 951	7.4	27 540	5.6
Decatur	439	1.1	526 064	1.1	1 198	1.5	416 373	6.2	42 034	7.1
Dickinson	941	1.1	514 436	1.1	547	1.5	271 174	3.7	51 736	4.7
Doniphan	509	2.0	201 798	2.0	396	2.8	286 677	5.0	23 027	6.9
Douglas	820	1.1	222 028	1.6	271	1.9	252 571	6.4	28 518	6.0
Edwards	325	.8	403 375	.7	1 241	1.1	593 105	3.9	32 349	3.3
Elk	382	.6	324 063	1.0	848	1.1	261 625	8.7	11 312	9.9
Ellis	693	2.0	547 483	2.0	790	2.8	307 520	5.6	28 671	7.2
Ellsworth	445	1.4	442 362	1.5	994	2.1	388 517	5.2	24 187	6.4
Finney	481	.7	745 371	.6	1 550	.9	802 455	3.3	63 223	4.7
Ford	693	.8	671 223	.7	969	1.1	415 431	3.8	64 766	4.9
Franklin	926	1.1	316 317	1.1	342	1.5	243 915	7.0	33 389	5.2
Geary	246	.9	164 081	1.7	667	1.9	313 779	8.4	10 606	16.4
Gove	476	1.8	671 506	1.4	1 411	2.2	518 319	10.1	42 884	4.3
Graham	400	1.4	512 728	1.2	1 282	1.8	394 626	11.5	24 271	7.3
Grant	259	.7	341 608	.8	1 319	1.1	630 370	5.2	41 063	1.2
Gray	497	.6	517 623	.6	1 041	.9	528 428	3.2	51 398	4.0
Greeley	230	.8	424 104	.6	1 844	1.0	800 387	5.6	30 925	7.0
Greenwood	573	1.2	603 755	.9	1 054	1.5	366 768	4.6	21 995	7.5
Hamilton	246	.7	532 890	.5	2 166	.9	615 503	2.8	32 480	5.7
Harper	550	1.2	499 112	1.0	907	1.5	442 202	5.2	34 806	4.7
Harvey	774	.9	319 686	1.0	413	1.3	299 307	3.3	44 846	6.1
Haskell	287	.4	366 764	.5	1 278	.7	824 628	3.9	44 016	2.8
Hodgeman	393	.9	479 903	1.0	1 221	1.3	361 072	3.8	30 492	5.4
Jackson	1 017	1.3	340 035	1.9	334	2.3	174 511	9.2	28 088	6.5
Jefferson	981	1.2	271 713	1.6	277	2.0	188 212	6.4	29 265	5.8
Jewell	659	1.2	484 823	1.1	736	1.7	322 952	5.7	49 071	6.9
Johnson	596	.9	141 386	1.2	237	1.5	412 524	9.9	18 546	7.3
Kearny	285	.9	517 376	.7	1 815	1.2	765 599	5.3	29 560	7.8
Kingman	773	.9	544 071	.9	704	1.2	345 833	5.8	45 843	6.5
Kiowa	303	.6	399 835	.6	1 320	.9	525 455	3.2	22 155	4.6
Labette	913	1.0	346 519	1.2	380	1.5	175 295	6.5	40 233	5.7
Lane	289	1.7	419 423	1.4	1 451	2.2	530 342	9.7	22 279	6.7
Leavenworth	1 041	1.1	206 530	1.6	198	1.9	195 152	5.7	28 951	4.4
Lincoln	511	1.1	482 434	1.3	944	1.7	375 907	5.1	28 900	6.1
Linn	711	1.5	273 841	1.8	385	2.4	192 921	6.5	21 256	7.3
Logan	360	1.6	603 177	1.1	1 675	2.0	478 230	3.8	22 798	5.6
Lyon	842	.8	485 656	1.0	577	1.3	252 516	4.4	39 773	5.5
McPherson	1 254	.8	537 914	.9	429	1.2	293 563	7.1	69 760	4.7
Marion	1 006	1.0	588 061	.9	585	1.3	303 824	4.6	52 780	4.0
Marshall	1 008	2.2	572 989	2.2	568	3.1	320 611	5.7	55 876	6.7
Meade	429	1.1	596 103	.8	1 390	1.3	530 772	7.8	35 536	4.9
Miami	1 157	.9	286 989	1.0	248	1.3	253 614	6.1	36 248	5.7
Mitchell	514	1.9	479 310	1.5	933	2.4	453 015	5.9	48 428	9.9
Montgomery	922	.8	323 769	.8	351	1.1	175 006	3.9	32 600	12.0
Morris	516	1.4	409 839	1.5	794	2.0	359 096	11.0	27 733	13.0
Morton	231	.9	427 403	.8	1 850	1.2	662 212	7.8	20 470	11.1
Nemaha	1 102	1.8	441 417	1.8	401	2.6	244 970	5.4	60 043	6.0
Neosho	707	.8	326 716	1.0	462	1.3	222 018	8.5	29 389	7.1
Ness	559	1.4	668 420	1.4	1 196	2.0	355 404	5.7	30 389	6.2
Norton	420	1.8	465 527	1.5	1 108	2.3	434 803	8.5	27 699	5.8
Osage	848	.8	349 293	.9	412	1.2	209 500	4.3	31 604	7.8
Osborne	536	2.1	547 369	2.0	1 021	2.9	325 665	5.7	33 951	6.7
Ottawa	531	1.3	380 403	1.2	716	1.8	354 184	5.6	28 920	5.7
Pawnee	435	.9	449 151	1.0	1 033	1.4	439 633	3.4	38 498	2.6
Phillips	547	2.0	582 053	1.7	1 064	2.7	360 250	3.9	34 893	6.5
Pottawatomie	777	1.4	451 362	1.5	581	2.0	293 845	4.8	32 570	5.4
Pratt	446	.9	432 326	.9	969	1.3	511 923	4.3	42 614	6.3
Rawlins	494	.7	641 109	.8	1 298	1.1	398 175	5.6	37 019	6.2
Reno	1 367	1.1	700 869	1.1	513	1.5	336 151	5.5	72 154	3.8
Republic	746	1.9	443 290	2.0	594	2.7	338 374	4.3	45 790	6.0
Rice	536	1.1	432 701	.9	807	1.4	404 841	3.2	44 477	4.9
Riley	482	1.1	228 178	1.4	473	1.8	240 083	6.8	23 005	7.7
Rooks	446	1.0	578 283	.9	1 297	1.4	427 960	7.6	26 424	4.8
Rush	507	1.2	427 459	1.3	843	1.8	286 390	4.3	32 051	6.7
Russell	507	1.9	463 690	1.9	915	2.7	304 266	5.8	23 876	7.5

See footnotes at end of table.

TIPS [UPF] BATCH_1166 [ACEN,C_ARLEDGE] 4/ 7/94 6:29 AM MACHINE: EPCV23 DATA:VOL1_TIPS_APX_47.TIPS;1 * 3/29/94 13:57:00 TAPE: NOreel FRAME: 8
TSF:TIPS92-13572900.DAT;1 3/29/94 13:57:38 UTF:TIPS93-13572900.DAT;1 3/29/94 13:57:39 META:VOL1_TIPS96_APX_47.DAT;2 3/29/94 13:58:53

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

[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)
Saline	671	.8	403 276	1.1	601	1.4	342 351	5.7	34 208	7.3
Scott	363	.5	484 415	.5	1 334	.7	560 474	4.6	42 005	5.3
Sedgwick	1 421	.9	510 319	.9	359	1.2	324 681	4.2	66 703	4.7
Seward	254	.8	328 094	.8	1 292	1.2	626 677	6.1	30 752	7.9
Shawnee	825	.9	227 349	1.0	276	1.4	237 714	6.5	32 507	7.6
Sheridan	488	1.1	535 359	1.0	1 097	1.5	478 739	3.9	43 380	5.7
Sherman	500	1.0	620 144	.8	1 240	1.3	564 312	5.3	56 263	7.1
Smith	626	1.8	537 457	1.7	859	2.5	331 299	8.2	38 478	4.9
Stafford	490	1.7	436 242	1.5	890	2.2	411 499	4.7	48 561	4.9
Stanton	237	1.2	411 785	.9	1 737	1.4	835 599	7.2	33 977	8.3
Stevens	295	.7	450 829	.6	1 528	.9	650 388	2.7	48 489	3.5
Sumner	1 163	1.2	687 593	1.2	591	1.7	309 771	3.4	73 673	5.3
Thomas	547	.9	702 549	.9	1 284	1.2	663 082	5.7	52 705	5.5
Trego	465	1.8	484 093	1.9	1 041	2.6	383 322	9.9	33 907	12.9
Wabaunsee	626	1.4	423 064	1.5	676	2.1	236 515	5.4	21 267	6.8
Wallace	283	1.9	471 658	1.2	1 667	2.2	648 670	7.1	22 578	9.4
Washington	852	2.1	521 110	2.1	612	3.0	337 360	11.1	53 920	7.0
Wichita	302	1.4	443 802	1.1	1 470	1.8	708 214	8.5	34 111	6.7
Wilson	551	.8	312 717	1.0	568	1.3	245 603	12.0	30 058	4.6
Woodson	362	1.0	265 978	1.1	735	1.5	262 482	9.6	13 590	10.1
Wyandotte	171	1.8	22 553	2.7	132	3.2	249 785	7.4	5 139	5.2

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)
Kansas	**58 812**	**1.6**	**8 315 965**	**.4**	**131 420**	**1.3**	**63 280**	**1.1**	**6 920 528**	**.4**
Allen	39 255	8.6	29 112	.9	44 651	1.4	652	1.3	20 560	5.9
Anderson	49 464	7.6	45 867	1.4	65 244	2.1	703	1.6	35 468	3.1
Atchison	46 730	9.0	35 742	1.9	52 102	2.7	687	2.0	25 761	4.1
Barber	66 459	4.9	50 015	.5	111 392	1.0	449	1.1	42 898	1.7
Barton	66 190	4.4	138 019	.2	179 246	.9	769	1.2	123 058	.8
Bourbon	29 679	5.6	27 075	1.1	34 667	1.4	781	1.0	24 240	3.6
Brown	65 190	5.7	76 564	.9	111 285	1.8	689	1.6	54 441	1.7
Butler	40 239	4.6	124 780	.3	100 064	.8	1 247	.9	108 305	1.0
Chase	42 566	7.7	46 102	.5	162 330	1.3	284	1.2	38 897	4.1
Chautauqua	30 179	7.9	29 706	.7	78 380	1.2	379	1.3	24 629	1.9
Cherokee	43 696	9.0	35 819	1.3	46 883	1.9	764	1.5	27 671	4.2
Cheyenne	65 784	4.2	51 591	.7	121 106	1.7	427	1.6	44 124	2.3
Clark	73 380	9.5	82 697	.2	324 301	.7	255	1.2	74 075	.7
Clay	63 441	7.9	47 440	1.6	79 066	2.7	600	2.2	32 602	4.1
Cloud	56 193	6.3	33 659	1.9	54 909	2.8	613	2.2	26 431	3.4
Coffey	53 921	6.6	41 707	1.2	70 930	1.9	588	1.9	33 563	4.7
Comanche	62 466	5.4	30 973	.8	119 127	1.5	260	1.6	28 651	5.6
Cowley	41 785	5.8	66 912	.7	69 339	1.4	967	1.3	55 960	1.8
Crawford	35 353	5.9	33 548	1.5	43 010	2.2	779	1.7	24 781	4.6
Decatur	95 749	7.3	83 309	.4	189 769	1.1	439	1.6	69 905	1.3
Dickinson	55 039	4.8	79 338	.7	84 312	1.3	940	1.1	65 850	1.9
Doniphan	45 241	7.2	37 152	1.7	72 989	2.6	509	2.2	24 907	3.5
Douglas	35 426	6.2	34 711	1.1	42 331	1.6	819	1.2	24 615	2.3
Edwards	101 090	3.8	78 249	.3	240 765	.8	325	1.3	67 429	1.4
Elk	29 611	9.9	20 041	.9	52 464	1.0	382	1.1	14 342	5.4
Ellis	41 734	7.6	52 174	1.0	75 287	2.2	694	2.2	43 306	2.1
Ellsworth	54 352	6.6	19 990	1.4	44 922	2.0	445	1.6	19 179	4.4
Finney	131 440	4.8	335 066	.1	696 603	.7	482	1.0	291 373	.5
Ford	94 826	5.1	324 632	.1	468 445	.8	693	.9	276 101	.4
Franklin	36 057	5.3	40 429	.9	43 660	1.4	926	1.1	31 119	2.7
Geary	43 112	16.4	18 476	1.1	75 106	1.4	246	1.1	13 272	5.7
Gove	90 093	4.7	139 780	.4	293 655	1.8	476	1.9	125 371	.7
Graham	60 678	7.4	38 808	.7	97 020	1.5	400	1.4	29 344	2.5
Grant	159 160	1.8	288 855	.1	1 115 271	.7	258	1.3	265 697	.4
Gray	103 834	4.1	263 894	.1	530 974	.7	496	.9	229 204	.5
Greeley	135 042	7.1	94 771	.1	412 049	.8	229	1.0	80 680	.5
Greenwood	38 386	7.7	50 174	.7	87 564	1.4	573	1.4	45 284	1.9
Hamilton	132 033	5.7	111 735	.2	454 207	.7	246	1.0	108 465	1.0
Harper	63 284	4.9	53 313	.7	96 932	1.4	551	1.4	46 234	2.4
Harvey	58 318	6.2	57 692	.7	74 538	1.1	774	1.0	43 827	2.4
Haskell	153 368	3.1	362 192	(L)	1 261 995	.4	287	1.2	301 774	.4
Hodgeman	77 390	5.6	108 344	.2	275 684	.9	394	1.3	88 260	.9
Jackson	27 618	6.7	32 362	1.7	31 821	2.1	1 017	1.5	25 139	3.7
Jefferson	29 831	5.9	35 883	1.4	36 578	1.9	981	1.3	26 982	5.0
Jewell	74 463	7.1	50 255	.9	76 260	1.5	659	1.5	38 824	2.7
Johnson	31 117	7.4	28 241	.8	47 384	1.2	596	1.1	22 271	2.8
Kearny	103 720	7.8	202 746	.1	711 390	1.0	285	1.1	170 052	.8
Kingman	59 228	6.6	48 494	.8	62 735	1.2	774	.9	39 639	3.9
Kiowa	72 879	4.7	34 786	.5	114 804	.8	304	1.1	29 222	2.5

See footnotes at end of table.

1992 CENSUS OF AGRICULTURE

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

Geographic area	Average market value of all machinery and equipment per farm[1]		Market value of agricultural products sold		Average market value of agricultural products sold per farm		Farm production expenses[1]			
							Total farm production expenses			
							Farms		Value	
	Value (dollars)	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Value (dollars)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)
Labette	44 019	5.8	64 660	.6	70 821	1.1	914	1.2	53 682	2.6
Lane	77 089	7.1	125 201	.2	433 222	1.7	289	2.2	114 155	.7
Leavenworth	27 838	4.5	31 892	1.3	30 636	1.7	1 040	1.2	24 840	3.8
Lincoln	56 666	6.3	32 169	1.1	62 952	1.6	510	1.3	25 486	3.1
Linn	30 366	7.6	24 785	1.5	34 860	2.1	710	1.7	19 570	3.1
Logan	63 329	6.0	27 384	1.0	76 066	1.9	360	1.9	23 092	4.2
Lyon	47 181	5.6	62 908	.6	74 712	1.0	843	1.2	51 555	1.8
McPherson	55 675	4.8	104 673	.5	83 471	1.0	1 254	.8	79 249	1.7
Marion	52 465	4.1	76 168	.7	75 714	1.2	1 006	.9	57 837	2.2
Marshall	55 432	7.1	71 079	1.8	70 515	2.9	1 008	2.3	52 633	3.1
Meade	83 027	5.1	64 230	.6	149 721	1.2	428	1.5	53 332	2.5
Miami	31 356	5.8	32 481	.9	28 074	1.3	1 156	1.0	27 084	3.9
Mitchell	94 035	10.1	70 255	.8	136 683	2.0	515	2.3	56 338	2.0
Montgomery	35 320	12.0	30 661	.8	33 255	1.1	923	.9	24 428	2.6
Morris	53 850	13.1	48 596	.9	94 178	1.7	515	1.6	37 823	2.5
Morton	88 999	11.3	24 703	.8	106 939	1.2	230	1.7	19 848	7.6
Nemaha	55 186	6.4	78 051	1.4	70 827	2.3	1 102	1.9	63 143	2.7
Neosho	41 569	7.2	34 210	.8	48 388	1.2	707	1.2	26 957	2.6
Ness	54 364	6.4	33 675	1.5	60 241	2.1	559	1.5	24 415	3.8
Norton	66 108	6.1	38 331	1.1	91 263	2.0	419	2.0	32 095	2.8
Osage	37 268	7.8	34 908	.8	41 165	1.2	848	.9	26 027	3.0
Osborne	63 341	7.1	38 836	1.6	72 454	2.6	536	2.1	30 665	5.3
Ottawa	54 567	6.1	43 304	.7	81 553	1.5	530	2.2	35 725	2.6
Pawnee	88 500	2.8	144 898	.2	333 100	1.0	435	.9	128 384	.4
Phillips	63 790	6.8	45 859	1.3	83 837	2.4	547	1.9	34 718	3.0
Pottawatomie	41 918	5.6	51 288	1.0	66 008	1.7	777	1.4	44 738	2.4
Pratt	95 334	6.4	143 661	.2	322 110	1.0	447	1.1	132 376	.8
Rawlins	76 015	6.6	33 377	.7	67 565	1.0	494	1.6	29 365	5.4
Reno	52 783	4.0	110 093	.6	80 536	1.3	1 367	1.2	95 109	1.5
Republic	63 072	6.6	109 409	.8	146 661	2.0	745	1.9	87 488	1.4
Rice	83 134	5.1	82 227	.3	153 408	1.2	535	1.4	68 190	1.2
Riley	47 827	7.8	26 859	1.1	55 725	1.5	481	1.3	21 432	3.4
Rooks	59 247	4.9	35 470	.8	79 530	1.3	446	1.0	28 821	2.6
Rush	63 092	6.8	23 377	1.2	46 108	1.7	508	1.1	18 018	4.4
Russell	47 185	7.7	21 585	1.5	42 574	2.4	506	1.8	20 516	3.8
Saline	50 980	7.4	34 838	.8	51 920	1.2	671	.9	25 568	2.4
Scott	115 716	5.4	405 264	(L)	1 116 429	.5	363	1.0	352 112	.4
Sedgwick	46 908	4.8	69 695	.7	49 047	1.1	1 422	1.0	52 935	2.2
Seward	121 070	8.0	217 919	.1	857 950	.8	254	1.3	194 840	.6
Shawnee	39 402	7.7	29 637	1.0	35 924	1.4	825	1.1	18 769	3.6
Sheridan	90 375	6.1	71 514	.6	146 545	1.2	488	1.5	57 917	2.5
Sherman	114 123	7.4	71 326	.4	142 653	1.1	501	1.4	68 732	1.5
Smith	61 467	5.2	53 866	1.2	86 049	2.1	626	1.8	40 416	2.6
Stafford	98 902	5.2	92 412	.5	188 597	1.7	491	1.8	82 825	1.3
Stanton	142 762	8.4	133 510	.2	563 332	1.2	238	1.6	107 161	1.7
Stevens	164 370	3.6	200 296	.1	678 970	.7	295	.9	176 995	.6
Sumner	63 348	5.4	66 984	1.0	57 596	1.5	1 163	1.3	51 809	2.6
Thomas	96 354	5.6	99 693	.3	182 254	1.0	547	1.1	96 450	1.3
Trego	72 918	13.1	61 949	.6	133 223	1.9	465	2.1	51 262	1.7
Wabaunsee	33 973	6.9	39 762	1.3	63 518	1.9	626	1.5	29 625	4.1
Wallace	79 782	9.6	30 445	1.1	107 578	2.2	283	1.8	27 318	5.2
Washington	63 735	7.4	69 430	1.4	81 491	2.6	853	2.2	52 777	2.1
Wichita	112 950	7.0	332 143	.1	1 099 811	1.4	302	2.0	213 265	.5
Wilson	54 552	4.7	31 214	1.0	56 650	1.2	551	.9	21 175	3.3
Woodson	37 541	10.2	24 700	.9	68 233	1.4	362	1.3	20 183	6.1
Wyandotte	30 051	5.6	4 883	1.7	28 558	2.5	171	2.2	5 473	1.4

Geographic area	Farm production expenses[1]—Con.											
	Livestock and poultry purchased				Feed for livestock and poultry				Seeds, bulbs, plants, and trees			
	Farms		Value		Farms		Value		Farms		Value	
	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)
Kansas	**22 509**	**1.6**	**3 193 374**	**.2**	**36 836**	**1.3**	**1 146 620**	**.4**	**41 729**	**1.3**	**122 286**	**1.0**
Allen	253	10.5	3 040	11.3	418	7.9	2 726	8.4	374	7.9	766	8.2
Anderson	275	10.2	9 644	5.8	437	6.8	3 899	5.1	510	4.7	1 359	6.2
Atchison	207	13.4	3 985	21.6	433	6.6	2 427	7.1	489	4.8	1 394	6.5
Barber	195	10.3	18 219	3.4	330	6.9	4 522	4.8	287	7.3	501	10.8
Barton	209	12.8	68 722	.4	390	8.1	23 319	1.1	550	5.4	1 418	4.9
Bourbon	283	10.7	5 443	6.6	522	5.9	3 270	7.7	294	11.0	575	13.2
Brown	209	12.6	15 218	3.9	413	7.8	7 296	6.0	522	4.3	2 694	4.4
Butler	544	6.8	55 296	1.4	814	4.4	18 737	1.3	558	5.5	1 031	6.6
Chase	131	13.7	26 024	4.9	204	6.3	3 088	2.1	143	14.4	239	9.5

See footnotes at end of table.

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

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

	Farm production expenses [1] —Con.											
	Livestock and poultry purchased				Feed for livestock and poultry				Seeds, bulbs, plants, and trees			
	Farms		Value		Farms		Value		Farms		Value	
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)
Chautauqua	138	14.4	8 244	4.0	307	5.3	4 029	5.3	124	16.7	410	9.3
Cherokee	178	15.0	3 400	26.5	416	6.9	5 543	3.9	422	5.2	1 227	10.0
Cheyenne	148	13.6	16 198	4.2	246	9.1	7 081	4.6	325	6.1	1 176	4.0
Clark	134	10.6	40 369	.3	165	8.6	18 283	.3	151	11.0	259	6.0
Clay	256	14.0	6 109	7.6	427	7.8	6 224	8.2	469	6.0	813	8.6
Cloud	232	11.0	3 824	8.6	386	8.0	3 272	11.4	410	6.5	767	9.4
Coffey	240	13.0	11 042	9.1	325	9.7	3 913	6.1	448	5.8	1 277	12.4
Comanche	164	12.3	11 388	6.9	194	8.3	4 570	16.7	179	9.7	425	8.5
Cowley	369	9.3	23 050	2.5	598	5.8	8 331	3.1	498	6.4	705	8.6
Crawford	203	16.3	5 708	10.5	574	5.5	3 602	9.4	425	8.0	876	6.2
Decatur	143	15.5	32 170	1.5	243	9.6	10 114	2.1	325	7.2	992	14.9
Dickinson	404	7.9	25 089	4.9	585	5.3	8 654	3.7	705	4.1	1 310	5.5
Doniphan	167	15.1	2 905	5.3	272	10.4	1 976	20.7	375	5.2	1 878	5.6
Douglas	234	11.0	6 276	3.7	437	7.0	3 474	6.6	444	6.9	1 024	5.0
Edwards	113	14.1	30 036	2.3	200	8.0	6 201	1.5	262	4.9	2 012	5.5
Elk	163	13.8	4 584	4.7	307	6.6	2 670	7.5	129	16.9	155	14.9
Ellis	202	14.0	18 837	2.0	428	6.7	7 063	3.3	473	6.1	465	11.2
Ellsworth	161	11.3	3 481	10.4	268	8.1	2 313	11.0	317	6.6	532	9.7
Finney	146	13.7	145 110	.4	181	13.0	66 681	.6	403	4.5	3 693	3.5
Ford	255	9.6	173 095	.3	330	9.4	56 938	.7	484	5.1	1 711	4.0
Franklin	278	12.5	6 667	9.3	504	7.7	4 933	7.0	547	6.6	1 028	4.4
Geary	105	17.2	2 896	3.9	152	11.9	2 782	4.9	142	9.5	272	12.5
Gove	181	10.2	70 403	.5	264	8.6	24 163	.7	351	5.9	764	8.5
Graham	149	13.9	9 689	5.1	228	10.3	3 953	2.4	282	6.5	602	6.1
Grant	74	22.9	(D)	(D)	104	16.6	60 670	.1	183	10.1	1 678	6.0
Gray	199	10.0	132 407	.4	210	10.8	42 677	.3	390	5.1	2 774	4.3
Greeley	41	16.3	45 886	.2	64	15.3	13 182	.6	170	6.3	948	7.6
Greenwood	255	10.2	19 298	2.7	391	6.0	5 443	6.5	281	8.9	737	26.1
Hamilton	72	23.0	67 788	.4	102	12.6	20 484	1.3	123	13.2	450	3.1
Harper	189	10.4	16 456	5.7	318	7.1	3 848	6.8	384	5.4	1 057	5.2
Harvey	262	10.1	10 955	3.2	381	8.2	6 530	3.7	598	3.4	1 501	6.8
Haskell	97	15.9	188 115	.2	107	15.0	57 220	.3	236	6.6	3 484	2.9
Hodgeman	174	10.8	50 375	1.2	229	8.4	18 192	1.4	342	4.6	701	9.7
Jackson	435	8.9	5 113	5.7	703	4.9	2 711	7.9	496	6.8	981	9.5
Jefferson	371	9.5	4 926	23.1	608	5.4	3 851	13.0	506	7.0	1 314	11.9
Jewell	231	13.2	6 710	4.8	396	7.6	5 140	7.1	566	4.8	1 099	5.4
Johnson	147	16.2	6 067	4.6	267	9.9	2 141	9.0	282	11.4	682	8.4
Kearny	107	18.9	105 828	.3	153	13.4	31 970	.3	226	5.7	1 115	7.4
Kingman	293	9.9	8 043	10.4	456	6.8	2 797	5.5	510	5.2	1 101	7.7
Kiowa	81	14.3	7 633	.7	153	13.3	1 554	4.0	203	10.2	1 171	6.6
Labette	290	11.1	25 465	4.4	676	4.9	10 413	3.3	512	5.6	972	15.7
Lane	73	19.5	73 126	1.0	156	10.8	18 466	1.0	239	6.7	755	8.0
Leavenworth	348	10.5	1 955	12.4	598	5.7	3 585	8.3	477	6.0	1 483	6.0
Lincoln	185	12.5	5 491	5.6	345	6.9	2 823	11.1	377	4.9	583	9.2
Linn	214	11.9	4 245	5.9	432	7.7	2 820	6.5	308	8.9	527	9.3
Logan	119	19.9	5 667	13.5	182	14.1	1 944	12.3	242	10.4	676	6.8
Lyon	385	7.5	22 143	2.4	524	5.4	5 768	5.8	540	5.0	1 262	5.1
McPherson	419	8.6	26 811	2.3	611	6.4	15 194	5.4	923	3.5	1 708	9.6
Marion	388	8.8	16 910	5.0	581	6.4	8 894	7.2	847	2.9	1 137	5.6
Marshall	401	9.1	11 455	6.6	672	6.0	8 283	5.8	834	3.7	1 877	5.5
Meade	162	9.5	12 045	2.8	166	10.8	7 034	3.9	308	6.3	2 223	6.4
Miami	378	10.0	4 914	17.5	711	5.3	2 552	7.3	455	7.2	1 227	7.7
Mitchell	179	13.2	20 438	1.0	279	9.2	8 511	3.7	396	4.9	1 031	8.5
Montgomery	389	9.0	2 303	10.3	644	4.6	3 836	5.7	334	8.6	832	10.1
Morris	211	12.8	14 820	4.1	361	6.5	6 771	4.1	365	6.2	656	7.7
Morton	71	24.5	4 456	6.7	123	13.9	763	21.2	141	11.8	544	9.7
Nemaha	594	6.2	15 972	7.3	738	4.8	12 868	5.0	877	4.5	1 584	5.6
Neosho	277	11.2	5 811	5.0	460	6.6	4 078	4.1	373	7.4	985	10.5
Ness	225	12.1	4 637	10.1	387	7.4	1 849	12.7	414	6.8	479	6.1
Norton	146	12.2	8 939	5.8	235	8.5	4 167	5.1	316	4.6	671	5.4
Osage	317	11.0	5 704	8.6	496	6.8	2 059	9.4	521	5.2	968	6.8
Osborne	187	11.2	7 596	11.4	309	7.1	3 250	15.4	468	3.4	823	10.2
Ottawa	130	17.0	12 162	4.3	279	11.5	4 226	4.6	368	7.1	670	10.8
Pawnee	135	12.1	76 578	.2	210	9.6	24 130	.6	328	5.6	1 196	2.8
Phillips	233	10.3	5 899	14.0	357	6.7	5 068	6.5	431	4.7	1 170	4.9
Pottawatomie	349	9.3	14 156	4.9	601	4.6	6 648	3.9	469	6.8	830	6.3
Pratt	182	11.8	71 687	.6	250	9.1	20 006	2.0	360	4.0	1 939	4.8
Rawlins	165	14.3	5 188	9.1	273	10.2	4 395	21.6	378	6.9	921	6.5
Reno	447	7.5	32 639	2.8	756	5.0	17 234	5.4	924	4.1	1 867	7.3
Republic	243	13.3	(D)	(D)	386	9.7	12 770	2.4	598	5.1	2 006	4.1
Rice	116	11.9	29 894	.9	258	10.2	11 259	3.4	418	5.5	1 505	5.9
Riley	222	12.4	4 791	10.6	333	6.6	4 256	6.4	319	7.0	518	9.0
Rooks	154	13.5	7 365	6.1	243	9.7	3 165	6.6	350	5.4	597	5.6
Rush	105	16.1	2 315	3.4	257	9.6	1 004	11.9	434	4.6	580	9.4
Russell	131	18.1	3 491	6.7	277	9.8	2 798	21.0	351	7.2	485	7.4
Saline	195	13.2	4 223	3.9	309	10.1	3 415	3.5	429	7.1	713	15.1
Scott	108	11.5	224 150	.1	112	11.0	80 410	.1	264	6.8	1 184	8.6
Sedgwick	354	10.2	6 066	11.7	664	6.2	8 894	7.6	953	4.2	1 739	5.2
Seward	88	21.2	(D)	(D)	138	11.7	37 044	.3	164	10.8	1 364	13.5
Shawnee	191	15.8	2 456	4.8	400	8.6	1 520	10.5	447	7.1	1 081	6.0

See footnotes at end of table.

TIPS [UPF] BATCH_1166 [ACEN,C_ARLEDGE] 4/ 7/94 6:29 AM MACHINE: EPCV23 DATA:VOL1_TIPS_APX_47.TIPS;1 * 3/29/94 13:57:00 TAPE: NOreel FRAME: 11
TSF:TIPS92-13572900.DAT;1 3/29/94 13:57:38 UTF:TIPS93-13572900.DAT;1 3/29/94 13:57:39 META:VOL1_TIPS96_APX_47.DAT;2 3/29/94 13:58:53

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

Geographic area	Farm production expenses [1]—Con.											
	Livestock and poultry purchased				Feed for livestock and poultry				Seeds, bulbs, plants, and trees			
	Farms		Value		Farms		Value		Farms		Value	
	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)
Sheridan	194	11.5	18 304	2.0	267	9.9	8 758	2.0	349	7.3	1 899	11.2
Sherman	123	16.3	24 365	1.9	191	12.9	8 081	2.4	391	6.1	2 776	7.0
Smith	344	9.0	11 671	4.5	413	7.6	6 116	9.0	485	5.7	758	7.1
Stafford	175	12.9	38 013	1.6	259	10.7	13 144	1.1	372	6.9	1 699	4.0
Stanton	95	15.4	50 724	.7	96	19.2	13 945	.9	175	7.6	2 623	7.8
Stevens	79	17.8	111 936	.1	139	11.7	22 796	.2	189	6.6	2 526	1.0
Sumner	370	10.3	9 022	6.1	601	7.1	4 023	5.0	746	5.6	1 705	7.8
Thomas	120	14.6	45 132	.6	194	11.2	8 653	1.5	450	4.1	3 198	5.5
Trego	159	15.7	17 201	2.1	271	9.3	9 102	6.3	345	7.1	553	7.4
Wabaunsee	311	7.7	11 375	8.2	422	6.0	4 504	6.5	333	8.1	611	9.9
Wallace	86	16.3	4 987	8.0	164	7.6	2 248	5.5	221	8.0	1 305	7.2
Washington	286	11.8	9 703	5.0	539	6.8	9 875	4.6	702	4.5	1 570	5.9
Wichita	112	15.7	151 851	.1	141	13.2	31 817	.4	242	6.7	1 144	10.0
Wilson	252	10.2	4 492	6.3	363	6.4	2 271	7.7	300	6.4	695	7.9
Woodson	164	13.5	6 890	9.4	265	8.0	2 437	12.1	205	10.1	495	9.7
Wyandotte	36	17.1	365	2.5	82	9.3	223	7.3	59	11.0	218	4.5

Geographic area	Farm production expenses [1]—Con.											
	Commercial fertilizer				Agricultural chemicals				Petroleum products			
	Farms		Value		Farms		Value		Farms		Value	
	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)
Kansas	**44 859**	**1.3**	**280 102**	**1.1**	**41 292**	**1.3**	**161 750**	**1.2**	**60 632**	**1.1**	**284 197**	**.9**
Allen	457	5.9	2 004	11.1	397	7.1	1 247	13.9	570	3.7	1 449	9.9
Anderson	531	4.7	2 824	9.2	476	5.5	1 839	6.3	674	2.3	2 116	6.4
Atchison	574	4.4	2 491	5.6	520	4.5	1 881	7.9	665	2.6	1 631	4.4
Barber	327	6.9	2 048	5.5	210	10.1	547	10.8	449	1.1	2 274	3.9
Barton	542	5.1	2 627	3.7	542	5.3	1 935	6.1	720	2.4	3 416	4.7
Bourbon	498	4.1	2 356	12.1	352	9.3	891	11.4	719	2.0	1 364	8.5
Brown	522	5.4	3 695	4.0	571	4.8	3 939	4.7	661	2.7	2 462	3.6
Butler	693	5.4	3 843	9.2	617	6.1	1 970	7.1	1 145	1.7	2 854	3.5
Chase	146	15.4	472	12.3	145	14.8	475	11.2	278	2.0	925	10.4
Chautauqua	192	10.5	511	13.1	162	13.1	301	13.8	369	2.5	1 101	6.2
Cherokee	495	5.8	3 213	6.3	369	8.3	1 305	8.9	712	2.9	2 061	5.2
Cheyenne	333	6.4	2 291	5.2	200	11.1	897	6.6	421	2.1	2 458	3.9
Clark	144	10.6	634	5.0	133	10.3	331	27.2	254	1.2	1 147	3.9
Clay	471	6.4	2 369	5.6	502	5.7	1 553	8.2	586	2.7	2 363	6.1
Cloud	420	6.5	2 486	6.5	460	5.9	1 428	9.1	593	2.6	2 158	4.6
Coffey	476	5.2	2 319	16.8	411	7.3	1 369	15.1	566	2.4	1 693	8.9
Comanche	141	14.0	717	6.5	124	15.9	301	16.0	236	3.2	1 389	9.2
Cowley	628	5.1	2 922	5.5	511	6.6	956	8.9	920	2.3	2 560	4.5
Crawford	528	7.0	2 376	6.2	391	9.0	979	7.8	761	2.1	1 768	5.5
Decatur	319	7.9	2 455	8.7	285	8.6	1 453	16.9	428	2.6	2 330	6.2
Dickinson	756	3.3	4 144	4.7	732	4.4	2 030	7.0	910	1.7	3 561	3.5
Doniphan	401	4.5	2 457	6.4	386	5.3	2 492	7.2	484	3.1	1 765	5.4
Douglas	553	5.4	2 022	8.3	488	5.8	1 172	6.3	746	2.6	1 382	7.3
Edwards	242	5.6	3 814	4.6	247	6.5	2 385	4.6	309	3.0	3 248	5.4
Elk	182	11.7	365	13.0	154	14.1	245	17.6	376	1.9	780	9.8
Ellis	425	6.2	1 265	9.6	401	7.2	876	13.3	664	3.0	2 228	6.1
Ellsworth	332	6.5	1 214	7.3	335	6.2	712	14.0	445	1.6	1 725	5.5
Finney	372	6.2	7 889	5.6	399	5.0	5 079	3.2	478	1.0	8 495	3.1
Ford	467	5.8	3 268	3.4	374	8.2	2 011	4.3	681	1.6	5 174	2.5
Franklin	635	5.5	2 068	4.7	543	6.8	1 598	5.1	905	1.5	1 737	4.6
Geary	149	9.7	626	15.6	161	9.4	339	11.3	239	2.5	689	10.8
Gove	333	6.4	1 875	6.1	296	7.4	998	8.7	474	1.9	3 236	3.8
Graham	271	7.7	1 390	10.0	185	13.1	841	15.1	390	2.7	1 936	3.8
Grant	175	9.3	3 018	5.0	196	8.7	1 924	5.7	258	1.3	4 641	6.6
Gray	393	4.5	5 447	5.4	365	5.1	3 488	4.8	487	1.3	7 434	3.6
Greeley	132	8.9	1 355	6.6	129	8.2	1 221	5.7	219	2.2	2 520	4.3
Greenwood	322	7.8	1 298	15.7	283	9.0	683	15.4	535	2.2	1 588	4.6
Hamilton	126	12.6	1 619	9.8	154	10.8	1 649	22.2	240	1.7	2 042	4.9
Harper	455	4.2	3 565	3.9	328	7.9	824	9.0	541	1.9	2 904	3.8
Harvey	628	3.4	3 759	5.8	658	3.4	1 964	5.0	765	1.3	2 721	4.5
Haskell	223	6.8	5 607	3.8	224	5.7	3 707	4.1	287	1.2	7 078	2.8
Hodgeman	247	7.1	1 118	11.3	268	6.9	1 137	8.4	393	1.3	2 285	3.7
Jackson	683	4.8	2 340	6.3	582	6.1	1 340	7.6	986	1.8	1 855	6.7
Jefferson	698	4.8	2 114	7.7	534	6.8	1 557	11.3	925	2.1	1 581	6.3
Jewell	564	5.1	3 497	6.1	574	5.5	2 135	10.5	635	3.0	3 162	7.1
Johnson	391	7.7	1 131	10.0	331	9.3	547	10.2	540	2.4	995	6.0
Kearny	200	6.9	2 410	6.7	220	5.9	2 091	9.9	273	2.6	5 466	5.3
Kingman	549	4.0	4 591	6.2	515	5.5	1 646	9.1	720	2.5	3 479	5.4
Kiowa	203	10.2	3 083	5.5	170	12.1	1 266	6.8	292	2.3	2 283	5.5
Labette	638	4.6	2 821	5.7	416	8.5	1 114	14.1	861	2.0	1 988	4.9
Lane	207	7.5	1 037	4.2	187	10.7	800	21.0	289	2.2	2 521	4.1
Leavenworth	703	5.0	1 991	6.2	626	5.3	1 402	5.7	961	2.2	1 712	5.3
Lincoln	410	4.4	1 934	6.0	367	5.6	1 093	7.2	503	1.6	2 138	5.1
Linn	487	5.5	1 453	8.5	352	9.9	794	12.9	659	3.1	1 255	5.0

See footnotes at end of table.

TIPS [UPF] BATCH_1166 [ACEN,C_ARLEDGE] 4/ 7/94 6:29 AM MACHINE: EPCV23 DATA:VOL1_TIPS_APX_47.TIPS;1 * 3/29/94 13:57:00 TAPE: NOreel FRAME: 12
TSF:TIPS92-13572900.DAT;1 3/29/94 13:57:38 UTF:TIPS93-13572900.DAT;1 3/29/94 13:57:39 META:VOL1_TIPS96_APX_47.DAT;2 3/29/94 13:58:53

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

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

Geographic area	Commercial fertilizer — Farms Number	Relative standard error of estimate (percent)	Commercial fertilizer — Value Total ($1,000)	Relative standard error of estimate (percent)	Agricultural chemicals — Farms Number	Relative standard error of estimate (percent)	Agricultural chemicals — Value Total ($1,000)	Relative standard error of estimate (percent)	Petroleum products — Farms Number	Relative standard error of estimate (percent)	Petroleum products — Value Total ($1,000)	Relative standard error of estimate (percent)
Logan	146	16.0	1 002	8.4	207	12.5	575	11.1	351	2.6	2 025	5.8
Lyon	521	5.6	2 185	7.4	522	4.9	1 634	7.6	800	2.1	1 901	4.3
McPherson	1 014	3.0	5 451	10.6	918	3.7	2 392	7.7	1 233	1.1	3 466	3.8
Marion	846	3.0	4 994	4.5	837	3.1	1 921	8.8	982	1.5	3 235	4.5
Marshall	822	4.1	4 155	7.1	781	4.9	2 825	7.3	962	2.9	3 276	5.3
Meade	302	6.9	3 706	5.9	303	5.0	2 332	7.1	382	4.8	4 642	5.7
Miami	839	4.2	2 500	5.2	752	5.2	1 465	5.9	1 087	2.0	1 901	5.4
Mitchell	433	3.9	3 459	5.8	374	6.1	1 653	8.3	500	2.6	3 049	5.6
Montgomery	496	6.7	2 084	6.1	375	8.7	1 010	6.3	875	1.8	1 801	4.5
Morris	400	5.1	1 567	7.8	418	5.1	896	9.5	502	2.3	1 626	5.0
Morton	164	7.1	2 018	17.1	133	8.4	1 028	14.4	214	1.8	2 259	11.1
Nemaha	907	3.7	4 778	4.5	908	4.3	2 856	5.8	1 053	2.5	3 397	5.1
Neosho	452	6.4	2 375	7.8	403	8.1	1 317	19.7	656	3.0	1 787	5.8
Ness	285	10.6	1 225	11.7	325	9.4	809	8.0	526	3.6	2 671	4.8
Norton	329	4.6	1 826	6.1	214	10.6	1 157	9.2	401	2.9	1 881	4.7
Osage	593	5.2	1 963	6.2	608	4.9	2 051	6.4	806	1.8	1 898	6.6
Osborne	411	6.2	2 393	12.1	366	7.4	1 107	15.2	530	2.1	2 215	6.2
Ottawa	435	5.2	2 112	5.4	408	6.5	1 292	12.7	522	2.7	2 072	9.5
Pawnee	347	4.5	2 131	5.7	329	5.4	1 598	6.7	419	2.5	2 755	6.2
Phillips	417	5.2	2 904	5.1	324	7.8	1 913	7.1	522	3.0	2 326	4.4
Pottawatomie	479	6.3	2 324	6.4	530	6.0	1 586	8.3	753	2.1	2 446	6.0
Pratt	365	4.3	5 186	3.6	260	6.7	2 118	4.5	442	1.6	4 490	2.5
Rawlins	357	7.1	2 067	8.4	307	8.1	1 136	8.2	486	2.1	2 551	6.5
Reno	987	3.9	6 714	5.7	960	4.2	2 751	7.3	1 319	1.7	4 866	3.9
Republic	608	4.9	4 833	6.9	661	4.3	2 760	6.6	720	3.0	3 200	4.2
Rice	404	5.7	3 513	5.3	375	6.4	1 688	5.8	485	1.5	2 663	4.4
Riley	305	8.3	1 233	6.8	351	5.6	831	9.7	468	2.3	1 126	5.0
Rooks	343	6.0	1 755	6.6	295	7.8	850	9.1	404	3.5	1 857	4.3
Rush	360	6.6	1 424	13.4	332	6.6	741	10.5	501	1.7	1 926	7.8
Russell	289	8.9	1 114	9.3	285	10.0	622	11.8	501	2.0	1 764	7.7
Saline	518	4.4	2 172	6.8	497	5.3	1 140	11.2	634	2.6	2 125	4.4
Scott	255	7.2	2 202	9.0	248	7.6	1 644	10.1	345	3.2	4 510	3.6
Sedgwick	1 027	3.4	5 321	5.7	984	3.8	2 365	7.6	1 327	2.0	4 133	2.9
Seward	153	12.2	2 814	10.2	157	11.9	1 504	7.9	242	3.5	3 792	7.1
Shawnee	494	7.2	1 629	7.7	546	6.1	1 389	9.0	785	1.9	1 402	5.3
Sheridan	352	7.1	3 177	8.5	351	5.3	2 556	9.5	488	1.5	3 415	4.6
Sherman	347	7.4	4 120	5.8	314	8.0	2 209	6.0	469	3.2	5 091	7.2
Smith	475	5.7	2 000	6.5	407	7.6	1 634	7.7	619	2.1	2 780	5.0
Stafford	336	7.2	4 413	4.5	333	8.2	2 026	6.8	447	4.2	3 283	4.8
Stanton	186	8.3	5 242	6.6	182	9.3	2 713	6.4	238	1.6	5 854	6.0
Stevens	206	5.4	5 066	2.9	230	4.9	3 124	4.0	294	.9	6 109	4.9
Sumner	957	3.6	6 309	4.8	758	5.5	1 900	10.8	1 120	2.1	4 861	3.7
Thomas	389	5.3	4 262	10.5	395	5.1	2 709	4.6	538	1.5	5 173	3.2
Trego	309	8.2	961	10.2	313	8.1	888	21.2	465	2.1	3 161	3.7
Wabaunsee	458	5.6	1 426	9.1	376	7.6	939	9.0	604	2.5	1 476	8.0
Wallace	169	11.2	2 275	12.1	168	10.6	1 330	11.1	261	4.3	3 213	9.5
Washington	677	4.5	4 451	6.6	768	3.4	2 908	9.5	820	2.8	3 127	5.4
Wichita	175	11.2	1 680	24.2	173	11.6	873	10.3	302	2.0	3 856	3.3
Wilson	369	5.8	2 039	6.5	332	5.1	1 172	8.2	539	1.6	1 469	3.6
Woodson	257	7.4	977	8.4	233	10.1	739	11.6	336	2.8	910	5.8
Wyandotte	105	7.1	332	4.1	108	7.2	320	3.0	160	3.3	265	4.8

Geographic area	Electricity — Farms Number	Relative standard error of estimate (percent)	Electricity — Value Total ($1,000)	Relative standard error of estimate (percent)	Hired farm labor — Farms Number	Relative standard error of estimate (percent)	Hired farm labor — Value Total ($1,000)	Relative standard error of estimate (percent)	Contract labor — Farms Number	Relative standard error of estimate (percent)	Contract labor — Value Total ($1,000)	Relative standard error of estimate (percent)
Kansas	**44 384**	**1.3**	**54 721**	**1.1**	**21 093**	**1.6**	**239 629**	**.6**	**7 180**	**2.6**	**25 166**	**2.9**
Allen	472	5.8	405	17.3	187	18.0	867	11.8	45	38.1	54	25.1
Anderson	441	6.1	347	9.1	172	12.9	919	19.9	80	21.7	318	14.5
Atchison	472	6.1	325	6.8	210	13.7	1 052	6.4	30	26.4	62	15.3
Barber	361	5.2	273	4.6	196	9.7	1 547	5.9	69	22.2	225	14.0
Barton	565	5.6	991	5.9	206	11.7	3 406	1.9	58	24.0	160	14.1
Bourbon	433	7.2	298	9.8	187	14.7	964	8.8	101	24.0	119	18.6
Brown	536	5.0	605	7.0	235	12.2	2 765	4.5	53	28.2	95	4.0
Butler	787	5.1	686	4.5	392	9.1	2 925	6.7	196	14.4	629	10.2
Chase	204	8.4	153	5.8	82	20.8	844	2.2	50	26.0	254	7.1
Chautauqua	252	9.6	199	13.7	130	15.9	1 221	3.9	55	31.4	154	40.1
Cherokee	470	6.5	367	10.8	173	13.6	1 152	10.5	43	30.9	41	14.9
Cheyenne	359	5.0	643	7.8	125	13.4	1 413	3.4	38	30.8	238	32.0
Clark	179	8.9	281	2.9	127	9.5	2 451	1.6	52	23.2	138	27.5
Clay	461	6.4	480	8.5	202	17.2	1 283	11.9	18	45.1	43	3.8
Cloud	365	8.2	316	11.7	228	11.5	1 289	16.3	36	30.5	97	35.1
Coffey	411	6.5	231	12.1	189	16.9	836	5.5	84	27.2	181	12.5
Comanche	199	9.1	229	15.9	115	16.4	985	17.7	39	36.2	60	12.9
Cowley	709	4.9	383	4.9	293	10.6	1 850	2.9	139	18.0	198	13.5
Crawford	500	7.5	475	25.7	174	18.1	818	5.5	66	25.5	48	18.6

See footnotes at end of table.

1992 CENSUS OF AGRICULTURE

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

	Farm production expenses [1] —Con.											
Geographic area	Electricity				Hired farm labor				Contract labor			
	Farms		Value		Farms		Value		Farms		Value	
	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)
Decatur	353	5.1	580	5.1	129	16.5	2 210	5.2	45	26.9	289	53.4
Dickinson	664	4.8	620	9.7	368	8.6	1 832	6.8	82	20.6	91	20.2
Doniphan	396	5.5	263	7.8	210	12.1	1 389	20.4	23	29.3	42	9.2
Douglas	515	5.3	288	6.4	166	14.5	968	4.4	34	30.1	39	7.6
Edwards	225	7.4	599	11.5	148	10.6	2 477	3.1	51	23.5	232	10.0
Elk	201	11.6	106	12.6	91	19.3	462	23.1	21	36.9	32	18.0
Ellis	473	5.5	388	6.3	216	13.5	2 004	4.3	66	30.3	93	16.7
Ellsworth	353	4.8	273	8.2	149	12.9	598	8.3	38	29.5	135	55.5
Finney	343	6.6	1 492	2.2	231	8.3	13 058	1.1	137	14.1	1 044	7.0
Ford	530	4.9	1 020	3.4	288	9.5	6 878	1.1	132	16.0	646	4.5
Franklin	649	5.8	451	9.9	262	12.3	1 538	7.3	119	19.7	90	30.5
Geary	184	7.7	212	6.5	100	18.4	1 527	8.4	35	28.9	13	15.0
Gove	331	7.4	635	3.7	188	9.5	3 104	4.3	59	24.1	317	23.8
Graham	277	6.5	330	8.0	148	14.0	1 249	16.3	15	51.8	56	4.1
Grant	185	9.6	860	1.3	132	11.0	5 397	.4	74	20.1	(D)	(D)
Gray	406	4.9	1 259	5.4	233	9.8	7 131	2.8	106	17.0	476	9.2
Greeley	145	7.6	385	4.0	92	9.3	2 641	1.0	50	16.4	442	11.6
Greenwood	353	6.4	265	6.0	158	11.4	2 169	10.2	56	23.6	166	7.1
Hamilton	190	4.9	1 121	18.9	137	11.2	2 346	9.1	29	25.5	278	8.9
Harper	429	5.4	329	5.7	251	9.2	1 738	4.5	73	24.3	162	13.8
Harvey	511	5.6	558	12.1	257	10.8	1 196	6.7	119	16.5	213	11.6
Haskell	212	7.1	1 359	1.5	174	9.1	7 704	.9	101	14.3	542	3.5
Hodgeman	278	7.0	543	7.2	157	12.6	1 915	1.9	59	20.7	139	32.6
Jackson	695	5.2	338	9.1	218	13.4	562	23.1	44	34.3	95	29.6
Jefferson	574	6.0	327	13.6	205	14.9	986	12.4	65	29.7	38	22.5
Jewell	504	6.1	505	5.0	289	13.4	1 388	13.2	93	28.3	249	23.3
Johnson	253	11.2	197	9.3	163	16.7	2 524	8.0	85	19.5	208	25.2
Kearny	202	10.1	759	6.2	166	13.2	4 035	3.1	35	27.7	383	.8
Kingman	563	5.3	576	7.7	267	11.5	1 626	5.2	118	19.2	214	16.8
Kiowa	196	10.1	288	6.2	118	13.1	1 447	8.4	65	26.8	222	12.6
Labette	561	6.6	365	9.6	204	13.1	634	4.9	61	25.8	59	12.8
Lane	195	9.1	391	7.1	147	13.0	2 943	1.7	50	28.4	281	13.3
Leavenworth	624	5.2	559	5.1	167	15.3	2 160	1.4	78	22.4	293	59.3
Lincoln	361	7.2	273	7.6	176	13.9	900	8.5	59	27.2	137	42.3
Linn	451	7.0	260	8.9	173	17.1	589	9.5	50	29.8	67	20.7
Logan	231	11.4	270	12.8	145	16.4	1 197	6.7	31	28.1	71	7.8
Lyon	514	6.0	362	7.6	181	13.1	1 332	8.2	78	22.9	325	39.3
McPherson	949	3.8	760	4.7	511	6.8	2 719	5.1	117	17.8	152	11.6
Marion	785	4.0	670	6.6	265	10.4	1 723	5.4	79	25.1	88	30.6
Marshall	736	5.4	646	8.8	383	9.7	1 258	16.4	58	32.6	86	40.6
Meade	307	7.8	561	5.7	171	13.0	4 343	2.7	55	11.9	441	.7
Miami	695	5.3	327	10.0	241	13.5	1 466	9.1	132	20.0	206	27.1
Mitchell	391	6.5	448	6.1	276	9.6	2 362	7.6	87	24.8	301	30.0
Montgomery	643	5.3	492	9.0	251	12.8	1 992	8.7	96	23.1	193	23.5
Morris	386	6.6	360	11.9	146	16.9	1 017	2.1	52	32.5	73	36.5
Morton	177	9.1	285	12.8	94	20.8	1 118	17.4	33	31.2	130	7.6
Nemaha	875	4.6	910	5.8	405	9.5	2 391	5.3	121	21.7	125	22.3
Neosho	553	5.1	450	5.9	139	18.0	1 086	11.4	58	32.6	137	27.8
Ness	442	5.6	251	9.6	226	13.0	1 207	17.7	78	19.3	177	22.3
Norton	323	6.6	422	10.6	135	14.5	1 319	4.2	50	24.9	92	22.3
Osage	550	6.1	298	11.2	212	14.2	561	9.2	94	24.0	142	29.9
Osborne	362	7.4	395	10.1	189	13.7	981	8.6	86	23.3	296	23.4
Ottawa	394	7.1	261	7.6	299	8.5	1 503	10.3	39	33.4	231	55.7
Pawnee	277	7.5	810	5.2	187	10.2	2 939	2.2	47	30.1	242	24.5
Phillips	397	5.4	481	5.8	204	11.0	1 972	5.8	53	26.0	419	37.4
Pottawatomie	554	5.7	606	5.3	230	12.4	2 327	7.1	55	27.9	49	34.6
Pratt	347	5.5	670	6.8	182	11.3	5 413	5.7	60	21.2	408	18.7
Rawlins	430	4.7	483	8.7	191	10.8	996	12.9	33	28.9	118	14.7
Reno	946	4.4	891	4.8	488	6.2	3 577	4.8	147	17.2	548	28.8
Republic	560	5.4	614	6.5	253	11.3	1 977	5.4	37	32.1	(D)	(D)
Rice	336	6.0	508	4.3	200	10.6	3 220	5.3	39	25.2	104	33.7
Riley	308	8.0	302	7.0	212	9.9	1 591	3.5	36	32.1	36	27.5
Rooks	356	5.6	308	8.4	147	14.5	1 336	9.2	50	27.3	204	9.8
Rush	433	4.1	379	15.2	168	13.6	1 049	11.7	97	19.9	159	22.6
Russell	313	8.6	264	13.8	204	12.5	677	8.3	92	21.6	175	13.8
Saline	449	6.3	432	6.1	215	12.9	1 583	4.8	71	24.7	441	45.2
Scott	244	8.1	1 363	2.5	206	9.5	9 241	2.9	63	19.3	901	26.4
Sedgwick	1 009	3.9	981	4.6	420	8.6	2 988	5.4	180	15.6	408	24.1
Seward	194	8.1	1 417	1.8	95	11.8	8 894	.8	71	22.8	(D)	(D)
Shawnee	445	7.8	302	9.4	130	16.8	1 033	3.2	57	27.2	69	20.0
Sheridan	387	5.7	838	15.7	148	14.1	1 606	3.9	80	28.7	254	12.6
Sherman	391	6.2	645	3.2	206	10.3	2 918	7.5	88	14.8	303	10.7
Smith	538	4.0	541	7.4	283	10.6	1 726	6.5	67	29.4	103	20.7
Stafford	361	6.2	801	12.8	204	11.1	3 348	5.3	74	22.7	159	10.9
Stanton	190	7.1	630	4.5	144	10.2	4 912	5.9	51	20.9	624	.9
Stevens	247	6.0	993	1.5	146	8.7	3 918	3.4	81	18.3	1 722	7.9
Sumner	878	4.4	593	6.1	432	8.3	1 825	10.4	127	20.3	279	26.8
Thomas	376	4.4	570	4.6	214	9.9	3 522	7.0	100	19.2	616	28.9
Trego	337	7.2	724	4.0	186	12.6	4 149	3.2	27	44.7	18	38.1
Wabaunsee	479	5.4	368	15.1	133	17.0	980	9.6	60	31.4	93	8.6

See footnotes at end of table.

TIPS [UPF] BATCH_1166 [ACEN,C_ARLEDGE] 4/ 7/94 6:29 AM MACHINE: EPCV23 DATA:VOL1_TIPS_APX_47.TIPS;1 * 3/29/94 13:57:00 TAPE: NOreel FRAME: 14
TSF:TIPS92-13572900.DAT;1 3/29/94 13:57:38 UTF:TIPS93-13572900.DAT;1 3/29/94 13:57:39 META:VOL1_TIPS96_APX_47.DAT;2 3/29/94 13:58:53

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

Geographic area	Electricity				Hired farm labor				Contract labor			
	Farms		Value		Farms		Value		Farms		Value	
	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)
Wallace	229	7.0	379	8.0	109	16.1	1 238	6.5	78	22.8	390	28.2
Washington	687	4.7	777	5.2	292	12.2	2 230	8.2	52	27.7	123	20.3
Wichita	212	8.5	931	3.7	134	11.9	4 516	2.9	55	21.3	424	18.1
Wilson	318	7.2	286	8.9	121	14.6	612	10.9	61	20.9	112	17.6
Woodson	201	12.3	116	9.9	100	22.9	504	8.3	45	27.6	186	78.6
Wyandotte	84	8.8	90	3.8	39	13.3	1 325	1.5	23	22.0	110	6.0

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)
Kansas	**53 711**	**1.2**	**313 515**	**1.0**	**26 719**	**1.6**	**126 061**	**1.6**	**35 032**	**1.4**	**318 599**	**1.0**
Allen	506	4.6	1 776	14.1	173	14.4	417	45.7	314	8.7	2 028	16.2
Anderson	600	3.8	2 586	11.8	276	10.9	633	11.1	425	6.9	3 178	7.6
Atchison	572	4.7	2 321	7.2	260	12.2	483	21.9	327	9.5	2 538	9.1
Barber	397	4.8	2 183	4.8	236	9.3	1 365	8.5	285	7.7	3 712	4.6
Barton	658	3.5	4 861	5.1	285	11.0	1 072	10.8	366	7.6	3 291	8.3
Bourbon	582	4.3	1 897	13.2	192	14.1	473	18.3	393	9.0	2 209	12.8
Brown	572	5.0	3 501	5.4	355	9.3	796	8.0	289	9.4	3 734	5.9
Butler	1 000	3.6	3 636	4.2	343	11.0	973	14.3	586	6.9	4 398	5.5
Chase	250	6.8	1 120	7.7	102	20.7	330	27.4	177	12.4	1 553	16.7
Chautauqua	351	4.0	1 072	10.0	85	23.5	235	6.2	208	9.7	1 292	8.3
Cherokee	610	4.5	2 369	7.7	159	16.3	371	45.7	366	8.6	2 019	10.5
Cheyenne	374	4.5	2 514	5.9	222	10.9	1 022	13.8	306	7.2	2 678	7.1
Clark	210	6.7	1 606	3.6	123	13.7	1 021	16.2	142	11.2	2 495	5.5
Clay	541	4.2	2 861	9.9	265	13.8	530	14.5	416	7.3	2 424	9.4
Cloud	503	4.8	2 855	7.6	253	11.3	577	14.3	338	7.9	2 284	6.9
Coffey	532	4.0	2 377	8.9	283	11.2	612	18.2	373	9.1	3 497	9.7
Comanche	212	8.2	1 241	9.4	124	14.1	772	8.2	160	10.7	2 541	13.1
Cowley	791	4.1	3 260	6.2	303	10.9	814	10.8	446	8.0	3 806	7.3
Crawford	645	4.0	2 354	7.7	198	16.4	241	18.2	376	9.1	1 971	8.8
Decatur	363	5.4	2 459	7.3	194	13.3	1 394	18.0	254	8.8	3 781	5.9
Dickinson	817	3.0	3 824	4.7	459	7.1	1 163	10.0	566	5.4	4 758	5.4
Doniphan	440	4.7	1 783	11.2	241	11.2	1 166	18.3	290	8.8	2 510	8.5
Douglas	626	4.2	1 762	5.8	180	14.4	367	16.0	331	9.4	1 759	12.3
Edwards	290	4.0	3 338	4.6	175	10.3	1 304	10.1	235	7.6	4 572	3.3
Elk	347	4.4	1 038	9.1	77	20.0	223	34.8	163	14.1	1 113	13.3
Ellis	620	3.8	2 545	7.4	336	9.6	849	15.1	350	8.7	1 825	9.9
Ellsworth	381	4.6	1 909	9.8	245	9.7	661	18.3	300	6.9	2 036	8.3
Finney	449	3.2	8 382	3.6	263	9.0	6 035	6.2	358	6.2	7 356	3.9
Ford	598	3.8	5 308	3.9	333	8.8	1 803	6.9	408	6.8	6 245	3.6
Franklin	830	3.0	2 577	5.1	303	12.5	669	11.9	456	8.1	2 407	8.8
Geary	223	4.0	1 014	13.4	58	26.2	123	23.5	133	11.8	967	21.1
Gove	411	4.0	3 682	5.7	275	8.3	1 895	9.4	343	6.6	4 633	6.0
Graham	350	6.0	2 050	7.7	214	12.5	892	14.7	267	7.4	2 027	9.4
Grant	236	4.1	5 488	3.0	152	10.2	1 585	4.3	173	10.0	2 192	3.8
Gray	446	3.8	5 512	4.2	316	7.9	3 513	5.7	327	6.8	5 362	4.8
Greeley	147	7.7	2 207	3.8	145	8.0	2 486	5.7	143	7.6	2 910	5.4
Greenwood	445	5.2	2 632	7.0	186	13.9	610	33.4	341	7.7	2 993	5.2
Hamilton	218	5.1	2 336	8.7	123	15.0	1 310	8.3	177	4.7	2 636	9.6
Harper	477	4.2	3 281	4.7	362	6.6	2 201	6.8	321	7.4	3 595	4.9
Harvey	670	3.6	3 280	8.0	392	8.1	1 205	17.5	494	6.3	3 368	7.2
Haskell	257	5.6	5 138	2.7	192	8.1	3 099	8.8	189	9.0	5 215	5.9
Hodgeman	341	4.5	2 441	5.6	250	7.8	1 607	16.1	259	8.0	3 557	4.8
Jackson	861	3.2	2 357	10.3	301	10.4	490	13.6	555	6.7	2 759	8.4
Jefferson	800	3.7	2 328	9.8	346	10.4	453	16.2	463	8.1	2 956	9.7
Jewell	594	4.8	3 813	8.2	361	8.7	1 109	10.4	433	8.5	3 404	8.1
Johnson	493	4.0	1 379	12.6	107	20.7	118	12.3	198	13.5	1 545	14.0
Kearny	233	8.0	3 571	7.0	159	9.9	2 372	13.9	180	11.9	2 478	6.9
Kingman	620	3.6	3 727	5.6	377	8.0	1 456	11.5	434	6.9	3 933	7.9
Kiowa	254	5.9	2 030	5.7	140	13.8	1 083	11.4	230	7.0	2 715	6.8
Labette	739	3.6	2 309	7.7	248	12.8	689	17.3	385	8.3	1 900	9.6
Lane	229	6.6	3 656	4.0	203	9.5	2 472	3.6	168	10.7	2 707	9.1
Leavenworth	829	4.0	2 596	10.1	254	11.9	296	8.3	410	8.5	1 859	7.9
Lincoln	466	3.3	2 645	9.0	238	11.1	417	11.6	321	8.4	2 477	11.9
Linn	537	5.4	1 296	7.2	189	13.5	411	17.4	307	10.9	2 218	9.0
Logan	235	10.5	2 095	13.1	199	12.6	1 130	13.1	238	9.6	2 833	7.2
Lyon	717	3.1	3 056	5.2	414	7.5	1 274	13.2	529	5.8	3 784	7.1
McPherson	1 137	2.1	4 846	4.8	545	6.5	1 329	10.6	702	5.4	4 890	7.9
Marion	921	2.4	3 966	4.8	514	7.5	1 273	12.3	640	5.8	4 131	6.7
Marshall	860	4.1	4 006	6.4	554	7.9	1 099	16.4	629	6.5	4 781	10.0

See footnotes at end of table.

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

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

	Farm production expenses [1]—Con.											
	Repair and maintenance				Customwork, machine hire, and rental of machinery and equipment				Interest expense			
	Farms		Value		Farms		Value		Farms		Value	
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)
Meade	363	6.0	2 888	3.7	239	11.1	1 946	16.5	306	7.7	2 723	6.1
Miami	873	3.8	2 387	7.7	276	11.9	402	21.3	479	8.5	2 487	8.4
Mitchell	445	3.9	3 412	10.1	278	9.6	1 314	16.4	393	5.4	3 861	4.2
Montgomery	739	4.1	2 360	6.5	269	12.1	401	15.1	436	8.4	2 546	9.1
Morris	491	2.7	2 315	8.2	197	13.6	526	8.8	309	8.9	2 384	11.4
Morton	200	8.0	2 341	14.7	72	24.7	930	18.1	140	12.9	1 669	18.0
Nemaha	948	3.8	4 717	5.5	534	8.3	1 184	14.2	550	7.9	4 192	8.1
Neosho	592	4.3	1 925	6.4	279	11.1	475	15.7	300	10.8	2 216	6.0
Ness	465	5.3	2 443	8.5	295	10.7	1 040	15.8	333	9.2	2 611	12.2
Norton	361	5.3	2 230	7.2	251	9.1	1 506	11.5	273	8.3	3 004	8.8
Osage	713	3.5	2 695	9.5	312	9.7	408	12.7	434	8.2	2 577	9.9
Osborne	437	4.8	2 527	6.9	254	11.9	1 041	11.0	267	10.9	2 206	9.0
Ottawa	450	5.4	2 707	6.8	249	11.0	641	15.0	394	6.2	3 097	9.2
Pawnee	376	4.2	3 080	6.7	195	10.5	1 485	8.2	256	9.2	4 470	7.8
Phillips	457	4.2	2 870	8.0	250	9.4	1 092	13.7	255	8.3	2 596	10.2
Pottawatomie	687	3.4	3 065	4.8	261	12.0	644	13.7	383	8.6	2 922	8.4
Pratt	412	2.6	4 081	5.2	205	10.1	2 332	3.8	273	8.2	4 109	4.5
Rawlins	441	4.4	2 934	6.6	232	11.3	1 056	15.3	281	9.9	2 653	9.4
Reno	1 245	2.3	5 764	5.0	579	6.9	2 406	12.1	675	5.7	4 747	6.2
Republic	669	4.1	3 950	5.6	437	7.6	1 341	13.1	477	7.4	3 737	6.7
Rice	425	5.6	3 506	4.6	304	8.5	1 509	7.6	303	9.9	3 048	7.3
Riley	406	5.1	1 778	5.3	192	12.7	268	22.0	262	9.8	1 373	11.4
Rooks	372	5.2	2 226	5.5	224	11.3	1 216	13.3	223	9.2	2 419	6.0
Rush	446	3.6	2 026	7.9	233	11.7	686	15.7	244	9.9	1 960	17.3
Russell	462	3.8	2 156	7.5	248	11.3	864	22.1	227	12.2	1 746	13.8
Saline	553	4.9	2 330	4.7	197	14.8	637	25.4	292	8.5	2 084	8.4
Scott	280	6.6	4 318	3.1	255	7.1	4 046	14.4	235	8.2	5 410	2.3
Sedgwick	1 162	3.1	4 940	5.2	477	8.3	1 032	9.0	620	6.8	4 865	8.2
Seward	222	6.4	3 960	2.8	147	12.1	1 260	4.9	165	11.3	2 120	8.0
Shawnee	684	4.3	1 999	10.1	157	17.2	527	25.0	331	10.8	1 569	11.1
Sheridan	441	4.3	3 633	6.0	283	9.0	2 625	22.6	312	8.2	4 574	7.9
Sherman	445	4.6	4 055	6.0	282	8.5	3 003	14.0	389	6.0	3 897	4.3
Smith	552	3.6	3 268	5.8	357	7.5	841	6.8	402	7.7	2 758	6.6
Stafford	410	5.8	3 644	7.0	222	11.4	1 464	11.4	293	8.7	3 932	7.6
Stanton	198	5.6	4 962	5.3	153	9.8	3 195	10.2	194	3.4	3 348	11.5
Stevens	272	2.6	5 867	2.7	104	9.6	1 373	3.6	229	6.5	3 487	5.6
Sumner	1 029	3.1	5 015	5.0	500	8.4	2 255	10.4	673	6.0	5 866	6.2
Thomas	485	2.8	4 232	4.5	337	6.6	2 677	10.1	370	5.7	6 059	4.6
Trego	402	5.0	4 010	6.0	245	9.2	1 664	9.3	271	9.7	2 112	10.5
Wabaunsee	546	4.3	1 927	9.1	214	13.2	316	16.8	316	10.1	1 847	12.8
Wallace	259	4.9	1 932	5.0	148	13.1	1 423	15.2	189	9.7	2 792	9.7
Washington	742	3.9	3 915	6.6	365	10.3	1 530	32.2	554	6.8	3 886	7.4
Wichita	277	4.5	3 605	4.9	176	11.1	2 100	13.9	186	10.0	2 663	6.7
Wilson	446	4.7	1 945	8.2	201	10.8	504	13.6	285	8.3	1 682	8.4
Woodson	301	4.8	1 040	6.9	136	17.8	294	18.4	221	8.8	1 275	13.3
Wyandotte	117	7.0	485	5.9	41	13.5	213	1.8	39	13.8	185	12.3

	Farm production expenses [1]—Con.											
	Cash rent				Property taxes paid				All other farm production expenses			
	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)
Kansas	**18 798**	**1.7**	**148 551**	**1.5**	**57 770**	**1.1**	**112 116**	**1.2**	**59 295**	**1.2**	**393 838**	**.8**
Allen	182	14.2	553	21.5	623	2.6	977	13.5	579	3.4	2 251	16.1
Anderson	302	9.3	1 982	8.7	631	3.5	1 161	9.2	643	3.1	2 664	7.4
Atchison	191	13.6	2 325	14.7	611	4.0	854	7.4	665	2.7	1 993	5.0
Barber	202	10.5	1 806	7.1	406	3.9	1 095	8.0	441	2.0	2 581	4.8
Barton	233	12.4	1 438	10.9	673	3.8	1 477	7.5	708	2.8	4 924	5.2
Bourbon	232	13.1	1 489	6.8	740	2.2	1 084	8.9	675	3.0	1 810	9.6
Brown	201	12.3	1 681	7.2	584	4.6	1 436	6.4	659	2.7	4 524	4.8
Butler	317	10.6	2 829	5.6	1 124	2.6	1 872	11.4	1 151	2.0	6 625	3.4
Chase	86	20.0	766	15.9	269	3.8	543	5.3	259	5.7	2 110	3.8
Chautauqua	174	12.4	1 175	7.8	362	3.0	627	6.4	364	3.0	4 058	2.7
Cherokee	154	15.9	1 478	10.3	730	2.3	1 030	12.2	678	3.4	2 094	5.0
Cheyenne	144	14.8	1 321	16.1	365	4.5	775	5.9	417	2.6	3 419	6.6
Clark	104	13.9	1 396	8.2	226	5.3	727	6.7	237	4.0	2 936	4.9
Clay	160	16.9	1 713	28.7	561	4.5	867	7.0	575	3.1	2 969	8.0
Cloud	155	13.7	1 035	16.7	505	5.2	1 030	9.1	542	4.2	3 014	6.0
Coffey	182	15.7	888	13.0	571	2.8	838	12.2	527	3.6	2 488	8.8
Comanche	115	14.3	1 234	11.0	222	7.1	570	9.0	245	4.0	2 228	17.1
Cowley	293	11.1	1 511	9.2	848	3.3	1 764	3.9	879	2.9	3 850	5.0
Crawford	218	15.7	857	15.7	757	2.2	869	5.9	724	2.8	1 838	6.7

See footnotes at end of table.

TIPS [UPF] BATCH_1166 [ACEN,C_ARLEDGE] 4/ 7/94 6:29 AM MACHINE: EPCV23 DATA:VOL1_TIPS_APX_47.TIPS;1 * 3/29/94 13:57:00 TAPE: NOreel FRAME: 16
TSF:TIPS92-13572900.DAT;1 3/29/94 13:57:38 UTF:TIPS93-13572900.DAT;1 3/29/94 13:57:39 META:VOL1_TIPS96_APX_47.DAT;2 3/29/94 13:58:53

[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)
Decatur	113	18.7	625	9.3	394	4.2	1 026	7.7	405	3.8	8 026	2.2
Dickinson	273	11.3	1 972	10.7	860	2.8	1 426	6.1	902	2.1	5 376	5.1
Doniphan	134	17.2	1 394	15.8	423	5.4	818	10.8	489	2.9	2 069	5.4
Douglas	173	13.2	844	13.8	753	2.7	1 060	5.2	709	3.2	2 179	4.3
Edwards	105	15.7	1 746	11.2	270	6.1	959	6.3	310	2.6	4 504	3.9
Elk	106	15.9	891	14.4	370	2.4	542	10.7	365	3.3	1 135	6.5
Ellis	253	12.0	1 504	15.2	617	4.2	785	8.2	644	3.3	2 578	5.7
Ellsworth	190	10.0	1 052	14.8	427	2.9	812	8.1	429	2.5	1 724	8.4
Finney	132	15.2	4 572	1.2	433	3.7	1 567	5.2	473	1.9	10 918	1.6
Ford	204	13.4	2 684	3.2	607	3.7	2 046	6.4	625	3.4	7 273	3.7
Franklin	206	14.9	1 392	13.6	878	2.2	1 174	5.8	859	2.5	2 791	5.1
Geary	81	20.3	314	14.5	245	1.1	430	8.9	233	2.5	1 067	5.5
Gove	127	14.4	1 205	4.9	434	4.0	1 126	5.8	461	2.5	7 335	3.9
Graham	163	13.3	1 267	13.3	362	4.6	841	12.2	371	3.5	2 220	8.7
Grant	71	17.7	1 598	2.9	220	5.8	710	3.8	258	1.3	6 234	5.6
Gray	106	14.6	2 646	14.7	425	4.0	1 515	5.3	484	1.7	7 562	3.1
Greeley	41	11.6	914	1.4	212	2.3	738	16.5	218	2.9	2 845	1.9
Greenwood	199	11.1	2 882	8.3	530	2.9	1 118	6.9	534	2.6	3 401	5.0
Hamilton	41	18.1	658	22.6	231	4.6	819	5.6	238	1.8	2 930	4.6
Harper	187	12.2	1 342	5.3	478	4.6	1 137	9.5	518	2.9	3 793	3.2
Harvey	273	9.6	2 060	13.5	694	3.0	1 049	5.6	743	1.7	3 466	4.4
Haskell	71	9.1	1 910	6.4	261	4.3	938	3.6	278	2.6	10 658	1.4
Hodgeman	123	13.7	920	8.0	355	3.8	876	6.7	379	2.6	2 455	3.5
Jackson	243	11.3	797	8.9	979	2.2	1 143	6.7	939	2.6	2 259	6.4
Jefferson	185	14.7	861	14.5	947	1.9	1 108	6.3	861	2.9	2 581	5.7
Jewell	225	13.2	1 528	14.7	594	3.8	1 517	8.2	637	3.0	3 569	5.7
Johnson	170	15.2	586	11.9	560	2.7	936	15.3	510	4.6	3 215	3.7
Kearny	72	23.8	1 214	15.9	241	7.3	574	3.7	273	2.9	5 787	3.0
Kingman	215	11.7	1 482	8.3	698	3.2	1 388	8.0	726	2.3	3 579	6.2
Kiowa	146	13.3	1 901	11.2	249	6.6	614	8.6	292	2.3	1 930	5.0
Labette	251	11.7	995	25.2	835	2.6	1 214	10.0	833	2.5	2 744	5.6
Lane	97	18.0	750	16.9	242	7.0	663	8.8	289	2.2	3 589	5.6
Leavenworth	211	11.6	1 057	7.5	1 013	1.7	1 195	7.7	932	2.9	2 696	10.2
Lincoln	202	12.9	1 295	19.3	482	2.4	941	6.7	498	1.9	2 339	8.9
Linn	162	13.5	1 040	8.4	689	2.5	676	8.5	610	4.2	1 921	6.1
Logan	118	18.8	991	26.6	321	5.5	752	7.9	343	3.0	1 866	4.7
Lyon	265	10.0	2 162	10.1	796	2.2	1 100	6.1	777	2.4	3 268	5.9
McPherson	378	9.1	2 013	11.7	1 163	2.0	2 059	5.8	1 213	1.5	5 458	3.3
Marion	390	8.4	2 421	8.2	943	2.1	1 613	7.9	980	1.4	4 860	5.3
Marshall	241	13.3	1 943	18.8	882	3.9	1 674	9.1	973	2.7	5 269	6.0
Meade	119	17.5	1 822	8.7	346	6.6	870	6.1	428	1.5	5 755	2.1
Miami	285	11.0	980	9.0	1 117	1.6	1 415	7.8	1 023	2.7	2 854	7.4
Mitchell	181	13.6	1 641	9.6	457	4.4	1 346	11.0	492	2.8	3 511	8.5
Montgomery	234	12.3	683	10.7	895	1.6	1 348	4.9	870	2.2	2 546	7.8
Morris	170	15.1	851	8.9	498	2.4	766	7.6	495	2.6	3 194	4.9
Morton	49	21.9	492	12.2	195	5.2	396	11.3	230	1.7	1 421	5.8
Nemaha	297	11.7	1 497	8.8	1 047	2.5	1 762	6.0	1 080	2.2	4 911	4.6
Neosho	137	16.7	960	9.1	669	2.4	1 190	9.0	691	1.9	2 166	10.2
Ness	207	12.9	1 126	12.1	493	4.3	1 066	6.6	533	2.7	2 824	7.8
Norton	181	11.5	1 372	11.0	375	4.5	744	6.1	402	2.9	2 765	5.8
Osage	272	10.8	1 203	11.8	798	2.2	1 014	6.2	796	2.2	2 488	4.7
Osborne	202	13.9	1 944	12.6	490	4.0	999	6.3	506	3.0	2 891	14.2
Ottawa	199	13.2	1 410	13.2	476	4.8	722	6.8	522	2.7	2 619	7.1
Pawnee	161	12.1	1 231	6.0	381	4.4	839	6.3	405	3.1	4 902	3.6
Phillips	205	10.7	1 451	6.7	495	3.8	1 070	5.4	521	2.9	3 486	6.7
Pottawatomie	227	12.5	2 015	12.4	743	2.4	1 217	5.3	709	2.9	3 905	6.0
Pratt	118	14.4	1 638	10.3	402	3.7	1 268	6.3	447	1.1	7 031	1.2
Rawlins	161	12.0	764	12.1	428	5.1	987	8.2	480	2.3	3 116	10.0
Reno	411	8.6	2 610	17.3	1 256	2.2	2 455	5.5	1 298	1.9	6 039	4.7
Republic	253	10.9	2 376	13.9	672	3.9	1 578	7.3	720	3.0	4 264	4.4
Rice	153	12.9	1 466	6.2	498	2.0	995	6.4	500	5.2	3 312	3.2
Riley	148	15.1	609	13.5	462	2.1	622	8.6	450	3.3	2 097	6.4
Rooks	186	11.7	1 472	9.3	385	5.0	884	8.1	391	3.7	3 166	7.8
Rush	133	15.6	743	32.4	464	3.5	963	5.7	474	3.3	2 063	13.3
Russell	239	10.3	1 395	10.5	448	4.5	877	9.3	477	2.9	2 089	7.7
Saline	176	12.3	840	17.9	586	4.1	795	6.8	606	3.6	2 638	5.1
Scott	96	16.5	1 822	12.8	266	6.4	848	3.4	360	1.1	10 062	1.1
Sedgwick	384	9.7	1 821	11.6	1 285	2.3	2 169	7.2	1 283	2.1	5 213	4.6
Seward	78	20.8	810	7.0	247	1.3	858	3.2	253	1.3	7 970	.6
Shawnee	177	16.6	769	11.9	766	2.5	925	7.1	734	3.0	2 101	8.7
Sheridan	154	17.7	1 404	39.0	386	7.0	1 021	5.2	464	3.3	3 857	4.2
Sherman	88	20.1	1 363	24.2	467	3.1	1 324	5.5	493	2.1	4 580	4.8
Smith	230	12.6	1 669	14.3	587	3.1	1 244	8.7	582	3.0	3 306	5.2
Stafford	145	14.6	1 246	12.7	431	4.4	1 005	6.9	458	3.9	4 648	3.5
Stanton	102	18.3	1 470	1.5	185	8.9	570	5.5	229	3.8	6 349	4.1
Stevens	75	16.8	1 650	2.6	269	3.9	821	5.3	287	1.8	5 606	3.0
Sumner	361	10.0	1 643	18.9	1 025	3.1	2 223	6.9	1 114	2.1	4 290	5.7
Thomas	155	12.8	2 398	17.6	499	2.5	2 191	3.9	511	2.1	5 058	4.3
Trego	179	14.4	958	14.4	423	4.3	831	9.7	448	3.3	4 930	3.5
Wabaunsee	142	16.6	963	6.4	595	2.9	798	7.1	595	2.5	2 001	6.6

See footnotes at end of table.

TIPS [UPF] BATCH_1166 [ACEN,C_ARLEDGE] 4/ 7/94 6:29 AM MACHINE: EPCV23 DATA:VOL1_TIPS_APX_47.TIPS;1 * 3/29/94 13:57:00 TAPE: NOreel FRAME: 17
TSF:TIPS92-13572900.DAT;1 3/29/94 13:57:38 UTF:TIPS93-13572900.DAT;1 3/29/94 13:57:39 META:VOL1_TIPS96_APX_47.DAT;2 3/29/94 13:58:53

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.											
	Cash rent				Property taxes paid				All other farm production expenses			
	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)
Wallace	65	20.9	677	12.1	229	7.3	688	14.5	283	1.8	2 441	5.8
Washington	308	11.1	2 402	10.8	817	3.1	1 641	8.0	819	2.8	4 638	5.1
Wichita	82	18.7	1 465	10.1	279	4.5	767	6.3	293	3.5	5 573	4.4
Wilson	153	11.6	1 080	11.8	536	1.6	902	6.8	491	3.0	1 912	9.4
Woodson	109	18.8	1 174	16.8	313	6.4	490	7.9	322	3.2	2 655	19.7
Wyandotte	23	20.1	268	9.8	168	2.5	333	7.0	151	3.8	740	1.7

	Net cash return from agricultural sales for the farm unit (see text) [1]				Total cropland				Harvested cropland			
	Farms		Value		Farms		Acres		Farms		Acres	
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)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)
Kansas	**63 280**	**1.1**	**1 393 417**	**.8**	**56 389**	**1.3**	**31 119 250**	**1.1**	**52 348**	**1.3**	**18 794 787**	**1.0**
Allen	652	1.3	8 073	10.1	578	1.1	196 885	1.2	526	1.2	144 316	1.1
Anderson	703	1.6	9 858	8.0	651	1.7	246 439	1.8	606	1.7	186 064	1.8
Atchison	687	2.0	9 709	10.2	610	2.0	184 520	2.2	583	2.1	142 880	2.1
Barber	449	1.1	7 124	12.1	399	1.0	221 504	1.0	362	1.1	155 874	1.0
Barton	769	1.2	14 857	5.8	718	.9	483 823	.9	687	.9	285 558	.8
Bourbon	781	1.0	2 397	38.0	672	1.1	182 214	1.5	603	1.1	101 306	1.5
Brown	689	1.6	22 367	4.6	613	1.7	271 631	1.4	593	1.7	223 777	1.3
Butler	1 247	.9	15 290	6.5	1 021	.8	332 120	.9	897	.9	234 242	.9
Chase	284	1.2	8 845	6.0	241	1.4	80 567	2.1	219	1.5	47 653	1.9
Chautauqua	379	1.3	5 130	6.9	283	1.4	67 003	2.0	240	1.6	32 376	1.7
Cherokee	764	1.5	8 030	13.5	657	1.4	213 067	1.7	580	1.6	168 853	1.7
Cheyenne	427	1.6	9 073	8.8	388	1.6	387 156	1.3	350	1.7	153 633	1.3
Clark	255	1.2	8 801	6.2	220	1.0	192 247	1.1	189	1.1	80 268	1.1
Clay	600	2.2	12 727	9.4	538	2.3	285 980	2.4	515	2.3	189 528	2.1
Cloud	613	2.2	6 822	11.1	564	2.2	290 932	2.2	515	2.3	194 215	2.1
Coffey	588	1.9	10 398	10.1	531	1.6	216 040	1.8	491	1.7	157 007	1.8
Comanche	260	1.6	3 650	26.2	202	1.7	171 277	1.6	185	1.8	97 057	1.4
Cowley	967	1.3	10 425	9.5	813	1.3	283 723	1.4	739	1.4	192 642	1.5
Crawford	779	1.7	8 457	8.9	672	1.7	201 482	2.0	617	1.8	143 573	1.9
Decatur	439	1.6	11 900	7.5	395	1.2	341 950	1.2	383	1.2	176 764	1.1
Dickinson	940	1.1	13 282	8.5	846	1.1	393 717	1.1	797	1.2	289 732	1.1
Doniphan	509	2.2	13 575	9.6	474	2.1	162 690	2.0	458	2.1	132 939	1.9
Douglas	819	1.2	8 579	7.4	734	1.2	152 451	1.6	672	1.2	114 814	1.7
Edwards	325	1.3	10 963	8.0	293	.9	310 351	.8	280	.9	175 753	.7
Elk	382	1.1	2 898	24.6	301	.9	83 970	1.5	263	1.1	47 664	1.5
Ellis	694	2.2	8 263	7.0	631	2.1	323 018	2.5	580	2.1	143 154	2.3
Ellsworth	445	1.6	1 556	46.9	416	1.5	248 458	1.7	382	1.6	122 052	1.8
Finney	482	1.0	46 115	2.6	428	.8	593 333	.6	401	.9	366 464	.5
Ford	693	.9	49 510	1.7	622	.9	542 233	.8	570	.9	268 431	.7
Franklin	926	1.1	10 296	7.8	814	1.1	203 907	1.2	742	1.1	151 759	1.2
Geary	246	1.1	3 234	14.3	221	1.1	84 960	1.9	210	1.2	53 091	1.8
Gove	476	1.9	14 095	5.7	415	1.9	416 605	1.7	399	2.0	193 937	1.5
Graham	400	1.4	9 688	7.4	371	1.5	328 513	1.4	349	1.5	139 939	1.2
Grant	258	1.3	21 387	4.0	229	1.0	294 561	.9	216	1.1	180 205	.8
Gray	496	.9	33 388	2.6	439	.8	452 677	.7	421	.8	278 269	.6
Greeley	229	1.0	15 003	3.9	215	.9	382 033	.6	211	1.0	182 217	.5
Greenwood	573	1.4	5 881	15.8	467	1.4	146 211	1.9	426	1.5	84 779	1.7
Hamilton	246	1.0	2 388	40.4	220	.9	405 427	.7	201	1.1	164 418	.7
Harper	551	1.4	5 676	15.5	499	1.3	350 169	1.0	471	1.4	278 553	1.0
Harvey	774	1.0	13 268	8.0	725	.9	287 087	1.0	695	1.0	238 092	1.0
Haskell	287	1.2	61 133	1.5	245	.7	336 015	.6	242	.7	248 423	.4
Hodgeman	394	1.3	19 567	2.3	366	1.0	343 510	1.1	334	1.1	150 092	1.0
Jackson	1 017	1.5	5 162	19.7	878	1.5	213 524	2.0	792	1.6	127 413	2.0
Jefferson	981	1.3	9 880	14.5	887	1.3	183 003	1.7	795	1.3	128 220	1.7
Jewell	659	1.5	10 082	11.7	601	1.3	340 801	1.2	576	1.3	226 980	1.1
Johnson	596	1.1	5 262	15.1	524	1.0	95 995	1.5	449	1.2	71 503	1.6
Kearny	285	1.1	31 986	4.2	262	1.1	389 003	.8	239	1.2	184 669	.8
Kingman	774	.9	8 695	10.1	688	.9	355 232	.9	632	1.0	258 706	.9
Kiowa	304	1.1	3 487	17.8	268	.9	243 529	.8	246	1.0	127 227	.7
Labette	914	1.2	11 858	6.6	785	1.1	230 441	1.2	699	1.1	151 728	1.2
Lane	289	2.2	11 370	4.3	256	1.9	306 405	1.6	243	2.0	140 495	1.5
Leavenworth	1 040	1.2	6 939	12.3	928	1.2	141 999	1.7	828	1.3	100 089	1.8
Lincoln	510	1.3	5 622	12.3	479	1.2	288 360	1.4	457	1.2	165 751	1.4
Linn	710	1.7	3 815	20.2	620	1.7	165 675	2.0	554	1.7	101 362	1.8
Logan	360	1.9	5 079	12.4	311	1.8	366 199	1.4	292	1.9	159 727	1.3
Lyon	843	1.2	12 084	7.5	746	.9	265 897	1.2	682	1.0	176 215	1.1
McPherson	1 254	.8	24 250	4.5	1 163	.8	435 337	.9	1 129	.8	339 265	.9
Marion	1 006	.9	18 077	5.2	937	1.0	389 887	1.0	911	1.0	295 435	1.0
Marshall	1 008	2.3	18 846	6.8	914	2.3	387 399	2.2	866	2.4	294 209	2.2
Meade	428	1.5	9 948	14.5	380	1.1	392 581	.9	359	1.2	202 956	.9
Miami	1 156	1.0	6 227	12.1	1 027	.9	191 073	1.1	926	1.0	130 560	1.1
Mitchell	515	2.3	11 214	7.3	483	1.9	385 044	1.5	466	2.0	258 017	1.4
Montgomery	923	.9	4 748	12.8	719	.9	186 449	.9	605	1.0	135 722	.9
Morris	515	1.6	8 010	9.5	454	1.6	198 754	1.9	428	1.6	123 954	1.8

See footnotes at end of table.

TIPS [UPF] BATCH_1166 [ACEN,C_ARLEDGE] 4/ 7/94 6:29 AM MACHINE: EPCV23 DATA:VOL1_TIPS_APX_47.TIPS;1 * 3/29/94 13:57:00 TAPE: NOreel FRAME: 18
TSF:TIPS92-13572900.DAT;1 3/29/94 13:57:38 UTF:TIPS93-13572900.DAT;1 3/29/94 13:57:39 META:VOL1_TIPS96_APX_47.DAT;2 3/29/94 13:58:53

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

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

Geographic area	Net cash return from agricultural sales for the farm unit (see text)[1]				Total cropland				Harvested cropland			
	Farms		Value		Farms		Acres		Farms		Acres	
	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)
Morton	230	1.7	6 864	15.4	199	1.2	279 015	1.1	171	1.4	128 766	.9
Nemaha	1 102	1.9	16 332	8.2	1 008	1.9	333 651	1.8	943	1.9	228 343	1.8
Neosho	707	1.2	5 933	15.3	619	.9	202 635	1.1	573	1.0	136 834	1.2
Ness	559	1.5	7 502	11.3	514	1.5	453 050	1.5	485	1.6	193 856	1.5
Norton	419	2.0	8 776	11.1	381	1.9	290 649	1.7	359	1.9	152 127	1.6
Osage	848	.9	7 388	11.7	769	.9	221 101	.9	712	.9	151 641	.9
Osborne	536	2.1	7 712	14.1	495	2.2	336 031	2.2	475	2.2	175 994	2.1
Ottawa	530	2.2	7 769	9.0	480	1.4	248 750	1.2	460	1.5	173 290	1.1
Pawnee	435	.9	16 462	5.9	401	1.0	380 660	1.0	366	1.2	201 190	.9
Phillips	547	1.9	10 673	7.1	491	2.1	355 117	1.9	468	2.2	186 275	1.7
Pottawatomie	777	1.4	9 058	14.1	682	1.5	206 072	1.8	634	1.5	132 062	1.5
Pratt	447	1.1	13 559	6.8	391	1.1	239 486	.9	379	1.1	239 092	.8
Rawlins	494	1.6	5 223	20.3	469	.8	422 853	.9	442	.9	174 962	.9
Reno	1 367	1.2	16 290	7.5	1 242	1.1	553 438	1.1	1 139	1.2	389 731	1.0
Republic	745	1.9	22 920	4.5	679	2.0	338 521	1.9	661	2.0	247 281	1.9
Rice	535	1.4	14 609	4.7	488	1.2	345 398	1.0	461	1.2	241 325	.9
Riley	481	1.3	5 931	10.3	421	1.2	131 610	1.5	396	1.2	85 696	1.6
Rooks	446	1.0	8 189	11.1	418	1.1	346 702	1.1	382	1.2	157 932	1.0
Rush	508	1.1	6 745	13.1	469	1.3	350 456	1.3	449	1.3	171 464	1.2
Russell	506	1.8	2 380	33.0	460	2.0	304 054	2.1	430	2.1	131 422	2.0
Saline	671	.9	8 170	9.1	612	.9	277 840	1.2	589	1.0	197 228	1.1
Scott	363	1.0	53 505	2.0	306	.7	388 266	.7	289	.8	200 968	.6
Sedgwick	1 422	1.0	18 413	4.7	1 285	.9	433 425	.9	1 219	.9	350 985	.9
Seward	254	1.3	21 794	2.0	205	1.3	243 485	1.1	183	1.4	145 633	.8
Shawnee	825	1.1	9 582	8.0	708	1.0	148 863	1.2	652	1.1	111 948	1.2
Sheridan	488	1.5	13 995	8.2	449	1.2	402 935	1.1	426	1.2	203 401	1.0
Sherman	501	1.4	(D)	(D)	462	1.0	501 970	.9	389	1.1	186 076	.9
Smith	626	1.8	15 462	7.9	573	1.9	352 657	1.8	556	1.9	209 589	1.7
Stafford	491	1.8	11 043	6.9	445	1.8	352 436	1.5	418	1.9	239 993	1.4
Stanton	238	1.6	29 613	2.2	221	1.2	360 114	.8	202	1.3	209 960	.7
Stevens	295	.9	22 754	2.8	244	1.0	356 072	.6	221	1.1	244 407	.5
Sumner	1 163	1.3	16 111	7.5	1 060	1.3	577 178	1.1	1 017	1.3	477 864	1.1
Thomas	547	1.1	2 574	41.0	514	1.0	595 036	.9	459	1.1	242 179	.8
Trego	465	2.1	11 443	8.4	428	1.9	318 938	2.0	415	2.0	138 429	2.0
Wabaunsee	626	1.5	8 651	11.6	540	1.5	161 377	2.2	494	1.6	98 326	2.1
Wallace	283	1.8	3 440	15.2	253	2.0	267 458	1.7	214	2.2	129 155	1.5
Washington	853	2.2	16 027	7.6	760	2.2	366 146	2.1	725	2.3	256 147	1.9
Wichita	302	2.0	118 925	.8	266	1.6	379 187	1.3	252	1.7	193 872	1.1
Wilson	551	.9	8 783	7.5	480	.9	178 619	1.2	452	.9	133 056	1.2
Woodson	362	1.3	3 423	18.5	309	1.2	134 237	1.4	294	1.3	99 632	1.2
Wyandotte	171	2.2	(D)	(D)	146	2.1	18 719	2.4	123	2.5	14 090	2.0

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)
Kansas	**6 543**	**.9**	**2 680 343**	**.5**	**37 889**	**1.3**	**6 066 493**	**.6**	**30 308**	**1.4**	**1 434 017**	**1.2**
Allen	5	9.6	(D)	(D)	470	1.2	32 196	1.3	414	1.3	13 347	1.8
Anderson	8	11.0	481	5.6	477	1.9	37 146	2.0	393	2.1	13 796	2.7
Atchison	7	10.5	(D)	(D)	452	2.2	32 969	2.4	384	2.3	12 897	2.6
Barber	32	3.6	4 369	3.3	309	1.2	65 280	.7	232	1.5	20 746	1.1
Barton	118	2.1	42 357	1.3	437	1.2	126 606	.3	376	1.3	15 361	1.5
Bourbon	7	9.9	301	5.5	597	1.1	49 854	1.3	520	1.2	21 386	1.5
Brown	6	12.5	44	28.8	389	1.9	36 661	1.4	301	2.2	10 517	2.1
Butler	14	7.8	889	6.3	736	1.0	120 671	.5	547	1.2	23 112	1.3
Chase	–	–	–	–	198	1.6	53 943	.8	144	2.0	11 537	1.7
Chautauqua	3	12.8	34	11.3	304	1.3	43 160	1.3	263	1.5	16 917	1.8
Cherokee	5	13.7	55	30.7	524	1.6	25 057	1.9	484	1.6	12 080	2.1
Cheyenne	115	2.5	38 949	1.6	228	2.2	45 434	1.3	192	2.4	14 803	2.3
Clark	24	4.0	5 392	4.8	157	1.5	70 383	.4	94	2.1	(D)	(D)
Clay	58	4.5	11 282	3.1	380	2.5	37 601	2.5	311	2.7	14 374	2.9
Cloud	61	4.3	10 046	4.2	368	2.4	35 011	2.6	339	2.4	17 253	2.8
Coffey	4	11.3	(D)	(D)	354	2.0	37 931	1.8	258	2.4	9 971	2.6
Comanche	34	4.3	5 918	4.1	198	1.7	47 163	.8	132	2.4	15 563	1.2
Cowley	17	6.7	1 429	7.7	592	1.5	68 944	1.0	466	1.7	23 163	1.7
Crawford	12	9.7	1 813	11.2	577	1.8	41 198	2.0	521	1.9	20 062	2.1
Decatur	64	3.0	7 257	2.1	272	1.5	62 745	.9	231	1.7	19 432	1.5
Dickinson	23	5.3	2 163	4.9	601	1.3	76 033	.9	411	1.6	17 404	1.8
Doniphan	6	8.2	723	.1	273	2.6	18 910	2.3	218	2.9	7 876	2.9
Douglas	21	6.2	2 165	2.0	487	1.5	30 254	1.5	395	1.7	9 130	2.7
Edwards	145	1.5	87 273	.6	176	1.4	63 260	.5	108	2.0	7 942	1.7
Elk	2	16.7	(D)	(D)	302	.9	40 784	1.4	262	1.1	16 567	1.5
Ellis	18	7.0	2 546	2.0	486	2.3	54 131	1.6	427	2.4	21 595	2.3
Ellsworth	5	13.9	781	15.2	309	1.8	36 810	1.8	285	1.9	18 710	2.1
Finney	275	1.2	224 746	.6	165	1.8	204 369	.1	90	2.8	4 827	2.6
Ford	203	1.4	89 333	.9	371	1.2	152 161	.3	212	1.7	9 336	2.2

See footnotes at end of table.

[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)
Franklin	11	7.1	662	7.8	577	1.2	36 802	1.3	487	1.3	13 320	1.6
Geary	13	6.3	1 517	3.5	170	1.6	20 449	1.9	145	1.8	8 484	2.1
Gove	84	3.1	16 101	2.5	279	2.1	91 655	.9	210	2.5	18 896	2.1
Graham	37	3.5	7 624	3.3	252	1.7	35 923	1.4	233	1.8	15 743	1.5
Grant	164	1.4	112 908	.9	106	2.1	167 656	.2	74	2.8	(D)	(D)
Gray	276	1.1	168 402	.6	219	1.3	130 946	.2	91	2.4	(D)	(D)
Greeley	43	2.4	25 378	1.1	67	2.4	62 567	.1	44	3.4	(D)	(D)
Greenwood	9	8.5	286	8.6	414	1.5	78 420	1.1	350	1.7	27 359	1.4
Hamilton	60	2.9	24 373	2.7	111	1.7	86 184	.2	78	2.2	(D)	(D)
Harper	10	9.3	818	7.8	346	1.6	57 891	1.1	228	2.1	12 383	2.1
Harvey	113	2.4	20 970	2.3	355	1.3	35 396	1.0	244	1.7	6 784	2.0
Haskell	196	.9	193 151	.4	102	1.7	161 280	.1	49	3.1	(D)	(D)
Hodgeman	115	2.0	25 877	2.4	212	1.5	90 920	.5	123	2.3	6 930	2.8
Jackson	6	12.6	161	15.9	736	1.6	46 011	2.1	627	1.7	21 553	2.4
Jefferson	25	6.2	2 489	4.3	617	1.5	39 150	1.9	526	1.6	14 972	2.2
Jewell	31	4.1	7 079	4.0	408	1.4	42 792	1.2	361	1.5	19 127	1.5
Johnson	28	5.7	1 168	4.5	302	1.6	20 680	1.6	241	1.8	7 720	2.2
Kearny	118	2.2	67 416	1.4	118	2.2	122 575	.2	82	2.8	5 640	2.1
Kingman	64	2.8	17 656	2.2	528	1.1	55 176	1.2	410	1.3	20 405	1.3
Kiowa	85	2.0	44 696	.8	179	1.4	31 788	1.2	123	1.9	(D)	(D)
Labette	10	7.7	1 156	7.8	706	1.1	55 602	1.1	605	1.2	19 916	1.5
Lane	45	3.8	16 107	1.6	137	2.5	73 462	.7	89	3.3	(D)	(D)
Leavenworth	14	8.3	395	9.7	681	1.4	31 581	1.6	562	1.5	12 500	2.2
Lincoln	7	10.4	383	9.1	340	1.5	49 859	1.4	317	1.6	21 721	1.6
Linn	5	15.5	91	21.3	530	1.8	34 741	2.2	466	1.9	15 820	2.4
Logan	53	3.5	13 379	2.3	192	2.2	32 693	1.5	159	2.5	13 012	1.5
Lyon	3	18.6	(D)	(D)	496	1.2	65 303	.9	387	1.4	15 431	1.7
McPherson	160	2.1	27 828	1.9	601	1.1	55 924	1.0	424	1.4	14 444	1.7
Marion	23	4.3	2 716	4.5	640	1.2	75 985	.9	421	1.4	19 392	1.2
Marshall	16	9.6	999	8.7	629	2.4	46 821	2.4	537	2.5	18 250	2.8
Meade	174	1.7	106 415	1.0	195	1.7	46 585	.7	124	2.2	(D)	(D)
Miami	22	5.5	440	6.3	811	1.0	42 463	1.1	703	1.1	18 029	1.3
Mitchell	37	4.5	4 695	3.5	289	2.2	50 990	1.1	239	2.5	14 291	2.0
Montgomery	10	5.6	2 273	.2	673	1.0	36 496	1.2	591	1.0	18 039	1.3
Morris	7	10.4	252	4.1	351	1.8	53 756	1.4	279	2.0	16 805	2.0
Morton	77	2.3	42 367	1.8	102	2.4	15 780	2.4	85	2.8	4 943	4.4
Nemaha	6	12.0	483	12.4	727	2.0	64 040	1.9	488	2.3	16 586	2.5
Neosho	4	11.9	(D)	(D)	534	1.0	42 180	1.1	459	1.2	16 856	1.5
Ness	24	6.5	2 883	5.0	369	1.8	45 134	1.8	284	2.0	19 260	1.8
Norton	42	4.2	6 553	4.0	255	2.3	37 895	1.5	230	2.4	17 173	1.8
Osage	4	13.4	(D)	(D)	497	1.1	35 356	1.6	378	1.3	12 607	1.4
Osborne	31	6.8	4 695	6.2	351	2.4	43 108	2.1	304	2.5	20 757	2.4
Ottawa	26	3.8	3 772	7.0	294	1.6	39 848	1.2	237	1.7	13 206	1.8
Pawnee	151	1.8	65 623	1.2	210	1.7	83 763	.4	159	2.1	(D)	(D)
Phillips	33	4.5	8 825	1.0	385	2.3	56 195	1.9	345	2.4	27 906	2.0
Pottawatomie	46	4.0	10 658	2.0	535	1.7	64 653	1.4	469	1.8	23 850	1.9
Pratt	147	1.8	66 758	.9	239	1.6	81 163	.4	155	2.2	5 514	2.2
Rawlins	79	2.4	10 819	2.2	295	1.2	42 732	1.2	264	1.3	20 225	1.2
Reno	127	2.2	26 926	1.7	703	1.3	74 535	1.1	476	1.5	17 784	1.8
Republic	176	3.1	45 947	2.4	462	2.2	55 644	1.5	417	2.3	16 155	2.6
Rice	66	2.4	20 584	1.1	272	1.5	48 736	.7	206	1.8	9 170	2.0
Riley	17	5.7	1 591	6.4	276	1.5	26 795	1.7	220	1.8	9 937	2.0
Rooks	23	5.6	2 064	6.0	273	1.5	44 621	1.1	245	1.6	18 445	1.4
Rush	51	3.5	6 558	3.3	298	1.6	24 324	1.7	261	1.7	10 467	2.0
Russell	1	–	(D)	(D)	319	2.2	32 839	2.1	283	2.4	16 520	2.5
Saline	37	4.5	2 224	4.1	313	1.4	33 844	1.5	267	1.6	14 559	1.8
Scott	141	1.5	51 507	1.4	130	1.5	200 277	.1	46	2.9	7 655	.7
Sedgwick	168	2.2	25 679	1.6	565	1.3	37 130	1.4	369	1.7	10 239	2.2
Seward	127	1.8	92 288	1.0	99	2.5	85 628	.3	65	3.5	(D)	(D)
Shawnee	74	2.8	14 002	2.8	411	1.4	19 931	1.6	353	1.5	9 254	1.9
Sheridan	184	1.5	61 221	1.1	285	1.5	52 551	.9	235	1.7	14 723	1.5
Sherman	217	1.6	84 268	1.3	174	1.7	39 504	.6	135	2.0	(D)	(D)
Smith	33	5.3	2 748	3.5	397	2.1	55 417	1.6	341	2.3	21 256	2.2
Stafford	167	2.3	75 698	1.2	252	2.2	66 429	.9	185	2.6	11 635	2.1
Stanton	151	1.6	128 896	.7	71	3.0	56 387	.5	42	4.2	4 732	2.1
Stevens	152	1.5	131 754	.7	128	1.8	74 795	.3	101	2.2	6 819	1.4
Sumner	29	5.5	5 064	3.2	583	1.6	41 525	1.5	438	1.8	12 158	2.4
Thomas	184	1.7	84 836	1.2	216	1.7	60 595	.6	172	2.1	(D)	(D)
Trego	31	6.1	2 334	6.7	309	2.2	43 043	1.6	276	2.3	18 316	2.2
Wabaunsee	27	6.6	3 720	6.5	400	1.8	49 110	1.9	317	2.1	17 591	2.3
Wallace	106	2.7	49 006	1.9	145	2.5	24 562	1.5	127	2.8	9 977	2.0
Washington	41	4.6	4 827	3.7	605	2.4	59 979	1.9	507	2.5	23 640	2.3
Wichita	152	2.2	72 499	1.5	127	2.4	133 984	.3	86	3.2	(D)	(D)
Wilson	9	9.2	986	16.4	380	1.1	29 298	1.4	342	1.2	13 834	1.5
Woodson	5	11.6	620	15.9	264	1.4	27 354	1.7	229	1.5	11 013	1.8
Wyandotte	11	10.3	(D)	(D)	81	3.6	2 622	4.6	71	3.9	(D)	(D)

See footnotes at end of table.

TIPS [UPF] BATCH_1166 [ACEN,C_ARLEDGE] 4/ 7/94 6:29 AM MACHINE: EPCV23 DATA:VOL1_TIPS_APX_47.TIPS;1 * 3/29/94 13:57:00 TAPE: NOreel FRAME: 20
TSF:TIPS92-13572900.DAT;1 3/29/94 13:57:38 UTF:TIPS93-13572900.DAT;1 3/29/94 13:57:39 META:VOL1_TIPS96_APX_47.DAT;2 3/29/94 13:58:53

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

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

Geographic area	Milk cows inventory Farms Number	Farms Relative standard error of estimate (percent)	Total Number	Total Relative standard error of estimate (percent)	Hogs and pigs inventory Farms Number	Farms Relative standard error of estimate (percent)	Total Number	Total Relative standard error of estimate (percent)	Sheep and lambs inventory Farms Number	Farms Relative standard error of estimate (percent)	Total Number	Total Relative standard error of estimate (percent)
Kansas	**2 165**	**1.5**	**85 132**	**1.0**	**5 684**	**1.5**	**1 584 048**	**.9**	**2 120**	**1.4**	**206 566**	**1.2**
Allen	41	3.9	2 069	2.3	43	4.5	4 527	5.3	18	8.1	445	11.9
Anderson	41	5.5	1 339	4.9	58	4.5	17 312	3.5	21	7.8	1 081	6.5
Atchison	34	6.7	1 362	5.6	136	3.4	26 576	3.7	9	12.7	1 143	5.6
Barber	8	7.3	625	3.8	16	6.9	8 681	3.5	16	7.2	3 389	3.2
Barton	20	5.7	651	4.0	54	3.7	6 237	3.1	14	8.1	1 687	12.3
Bourbon	35	5.2	938	6.1	53	4.3	5 833	4.9	8	10.8	329	13.4
Brown	37	5.5	1 670	5.2	127	3.0	38 525	2.1	31	6.5	2 609	10.9
Butler	24	5.3	582	5.8	116	2.3	42 266	1.6	43	4.7	6 672	1.8
Chase	8	10.8	295	9.2	32	5.1	8 999	2.8	8	11.5	430	14.2
Chautauqua	15	8.3	304	7.9	27	6.4	3 993	10.0	9	10.2	243	7.6
Cherokee	16	8.5	356	10.1	42	5.8	4 625	10.7	4	17.2	(D)	(D)
Cheyenne	8	12.8	16	13.0	28	6.9	4 610	5.1	5	15.3	321	27.4
Clark	3	10.5	(D)	(D)	6	11.0	248	14.1	2	24.9	(D)	(D)
Clay	23	7.8	897	8.2	142	3.4	53 871	2.1	22	7.9	1 802	8.4
Cloud	18	8.8	359	13.2	49	5.0	21 272	2.8	22	8.0	902	10.8
Coffey	10	10.8	162	8.4	50	5.4	14 718	2.2	19	8.8	2 256	16.5
Comanche	6	15.2	365	15.0	20	7.4	1 466	7.9	3	24.8	70	25.2
Cowley	25	7.1	632	4.0	82	3.7	29 581	2.1	41	5.2	2 986	5.5
Crawford	26	6.4	1 070	4.6	36	6.2	2 815	12.5	15	11.2	1 105	16.4
Decatur	12	9.4	261	12.9	39	4.7	9 295	5.1	13	8.8	947	9.2
Dickinson	42	3.9	1 773	2.8	89	3.0	16 462	3.4	42	4.9	1 929	8.8
Doniphan	13	8.5	666	4.1	88	4.1	11 661	5.0	21	8.8	948	10.3
Douglas	28	4.8	1 665	2.7	49	4.8	7 094	6.7	26	6.8	596	8.5
Edwards	5	13.1	107	14.8	16	5.7	978	13.9	6	10.5	704	17.5
Elk	9	7.6	155	12.6	31	4.1	7 915	3.5	9	7.9	570	8.7
Ellis	28	6.8	1 447	5.8	34	6.8	4 012	7.9	12	10.1	922	13.9
Ellsworth	6	10.8	55	3.2	31	5.8	8 527	3.8	14	9.1	2 237	11.6
Finney	6	12.9	30	5.8	30	5.8	5 920	2.3	23	6.8	872	10.1
Ford	15	6.6	236	13.4	29	5.4	2 021	10.7	21	6.2	799	6.6
Franklin	43	4.0	2 578	2.7	100	2.9	14 588	2.9	35	5.0	1 590	6.2
Geary	13	7.9	623	5.2	35	4.7	25 746	1.2	3	21.0	(D)	(D)
Gove	18	7.8	549	5.5	35	5.7	8 143	6.1	12	9.3	2 155	3.7
Graham	9	11.6	469	6.3	21	6.1	5 519	2.2	6	13.7	322	32.5
Grant	3	13.0	(D)	(D)	19	6.3	5 761	2.9	13	7.7	2 357	1.2
Gray	3	21.4	(D)	(D)	20	5.4	4 347	4.3	10	7.6	2 995	4.3
Greeley	3	11.7	(D)	(D)	8	10.1	1 874	15.4	–	–	–	–
Greenwood	12	9.4	793	3.6	22	7.1	3 133	12.3	22	7.0	829	14.1
Hamilton	6	10.4	(D)	(D)	11	5.7	2 293	4.0	3	19.2	(D)	(D)
Harper	8	10.4	255	1.5	20	7.3	3 438	11.3	30	6.7	3 008	7.7
Harvey	32	3.8	1 440	2.4	87	2.9	23 543	2.3	57	3.8	5 392	6.1
Haskell	4	9.5	(D)	(D)	18	5.6	10 185	3.5	1	37.8	(D)	(D)
Hodgeman	9	9.5	327	1.7	13	7.9	845	10.3	6	12.7	1 733	17.6
Jackson	54	4.7	1 184	5.2	94	3.9	7 580	5.8	30	5.7	1 959	3.6
Jefferson	45	5.1	1 706	5.4	95	3.5	12 601	3.1	20	8.5	457	10.4
Jewell	25	5.8	577	6.3	132	2.4	49 074	1.2	36	4.8	8 743	2.0
Johnson	17	6.5	797	4.5	25	5.9	5 394	3.4	15	8.0	2 560	1.6
Kearny	3	17.6	6	19.7	13	9.6	1 547	11.4	8	12.6	(D)	(D)
Kingman	18	6.2	1 018	2.9	71	3.6	6 748	4.4	41	4.8	2 425	6.3
Kiowa	3	22.0	(D)	(D)	22	6.2	4 134	8.8	5	16.1	209	16.1
Labette	31	3.9	1 257	3.8	68	3.4	12 257	2.9	24	5.7	849	6.8
Lane	2	24.7	(D)	(D)	13	11.2	1 591	21.1	5	13.2	111	9.8
Leavenworth	48	4.1	3 684	2.0	115	3.3	16 390	3.6	21	8.0	586	13.7
Lincoln	20	7.2	619	8.3	33	5.8	5 543	9.5	19	6.5	4 172	5.8
Linn	30	6.5	1 224	6.0	40	5.3	12 863	4.7	6	16.0	134	22.9
Logan	10	11.4	73	27.9	13	9.5	1 768	13.2	12	9.5	565	13.6
Lyon	18	6.6	721	4.3	84	3.3	10 601	3.4	32	5.0	1 326	7.8
McPherson	59	3.2	2 676	2.5	98	2.7	26 828	2.2	66	3.5	8 312	4.1
Marion	78	2.7	4 152	1.9	159	2.1	31 358	1.9	49	3.8	4 021	5.6
Marshall	57	5.4	1 686	5.7	246	3.0	50 417	3.4	27	7.1	1 387	11.8
Meade	4	15.6	(D)	(D)	6	13.3	1 794	15.1	9	9.6	824	15.3
Miami	36	4.2	1 433	3.5	52	4.2	6 584	5.7	40	4.6	841	7.5
Mitchell	10	12.0	402	10.6	60	4.4	20 944	3.3	32	6.5	2 537	7.7
Montgomery	31	5.1	848	4.7	64	3.0	26 085	.8	21	6.1	614	10.1
Morris	37	5.1	1 184	6.4	64	4.2	10 781	5.4	11	10.9	515	15.2
Morton	10	9.3	27	11.3	9	12.9	1 176	29.0	5	14.6	61	20.1
Nemaha	96	3.8	4 657	3.2	280	2.5	114 227	1.8	32	6.6	1 369	16.6
Neosho	41	3.5	2 064	2.2	53	3.6	21 737	1.5	29	5.4	1 428	9.0
Ness	8	10.6	257	12.2	10	12.4	1 084	16.2	13	10.5	812	17.4
Norton	7	16.1	142	25.0	55	4.3	29 664	1.4	11	9.1	1 605	10.0
Osage	16	6.7	328	7.2	60	3.3	12 639	2.9	23	6.0	585	7.0
Osborne	17	7.6	503	7.8	54	4.9	20 819	1.3	22	8.4	1 597	20.6
Ottawa	19	5.4	242	5.6	32	4.5	8 310	3.0	20	5.4	4 721	1.7
Pawnee	4	14.6	(D)	(D)	25	5.8	3 380	7.6	23	6.5	3 333	8.5
Phillips	18	8.6	484	8.9	78	3.9	38 249	1.6	20	7.9	1 349	8.1
Pottawatomie	44	5.7	887	7.6	138	3.1	35 100	2.3	19	8.8	742	14.5
Pratt	7	12.0	86	29.2	29	5.5	18 835	1.4	16	8.5	536	10.1
Rawlins	9	6.8	351	5.2	46	3.6	8 020	4.2	15	6.3	1 476	1.6
Reno	120	2.8	3 593	2.6	124	3.0	15 131	3.1	125	2.9	11 415	3.9
Republic	13	8.8	443	7.5	81	4.2	20 316	3.4	39	5.7	10 704	3.3

See footnotes at end of table.

TIPS [UPF] BATCH_1166 [ACEN,C_ARLEDGE] 4/7/94 6:29 AM MACHINE: EPCV23 DATA:VOL1_TIPS_APX_47.TIPS;1 * 3/29/94 13:57:00 TAPE: NOreel FRAME: 21
TSF:TIPS92-13572900.DAT;1 3/29/94 13:57:38 UTF:TIPS93-13572900.DAT;1 3/29/94 13:57:39 META:VOL1_TIPS96_APX_47.DAT;2 3/29/94 13:58:53

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

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

	Milk cows inventory				Hogs and pigs inventory				Sheep and lambs inventory			
	Farms		Total		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)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)
Rice	10	7.2	335	6.0	25	5.9	15 340	2.6	18	7.0	1 278	9.6
Riley	11	8.4	726	5.5	95	2.7	23 187	2.6	20	5.8	4 359	2.0
Rooks	14	6.6	1 010	4.2	37	5.0	2 127	7.9	7	11.9	321	14.0
Rush	11	8.3	236	6.0	7	12.3	830	15.9	5	12.1	339	22.6
Russell	17	9.8	533	10.3	17	9.7	4 496	12.4	22	7.1	1 102	7.2
Saline	18	5.5	987	2.5	31	4.9	21 010	1.3	17	8.0	1 087	11.8
Scott	–	–	–	–	13	6.7	26 837	.9	2	12.3	(D)	(D)
Sedgwick	92	2.5	6 852	1.5	81	3.3	17 469	2.4	63	3.8	13 646	1.8
Seward	1	40.0	(D)	(D)	18	7.7	(D)	(D)	6	16.0	129	21.7
Shawnee	18	7.8	493	7.9	39	4.6	8 931	3.6	13	9.2	488	17.7
Sheridan	11	7.5	816	.3	44	3.8	8 342	3.6	13	7.9	1 783	7.6
Sherman	6	8.1	(D)	(D)	28	5.2	2 819	4.1	14	7.3	1 755	11.0
Smith	24	7.7	477	6.1	92	3.7	31 930	2.8	38	5.6	1 503	8.2
Stafford	5	16.3	8	21.5	32	6.1	3 097	7.6	15	9.5	719	16.3
Stanton	3	21.2	13	28.2	10	10.6	381	17.6	6	14.4	178	16.0
Stevens	4	19.1	7	28.3	11	10.1	505	19.0	11	9.2	283	17.4
Sumner	27	5.8	1 315	4.8	85	3.6	18 299	2.6	65	4.2	10 244	2.9
Thomas	2	23.8	(D)	(D)	27	5.9	4 967	6.9	19	6.8	3 696	2.5
Trego	24	6.6	755	6.9	22	7.2	2 843	10.4	12	11.5	1 503	18.9
Wabaunsee	24	7.3	796	8.0	65	4.3	16 754	3.3	16	9.0	3 633	5.9
Wallace	5	16.8	48	4.1	16	8.6	1 764	17.2	18	8.6	2 000	10.4
Washington	26	5.1	1 668	2.4	200	3.0	87 508	1.6	30	7.1	1 983	9.2
Wichita	1	48.1	(D)	(D)	8	10.2	3 000	2.0	11	8.2	724	11.4
Wilson	12	8.0	288	8.4	43	4.0	11 792	3.6	15	7.4	1 248	13.8
Woodson	3	12.2	28	23.6	30	5.2	2 964	5.8	23	6.3	1 007	9.2
Wyandotte	6	13.7	(D)	(D)	5	16.2	(D)	(D)	5	17.9	41	20.2

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)
Kansas	**2 357**	**1.3**	**1 621 465**	**.7**	**80**	**3.8**	**88 483**	**11.1**
Allen	32	5.5	534	6.9	2	16.5	(D)	(D)
Anderson	31	6.7	1 755	7.4	–	–	–	–
Atchison	20	8.3	(D)	(D)	–	–	–	–
Barber	14	9.0	286	12.3	–	–	–	–
Barton	41	4.5	(D)	(D)	4	18.3	(D)	(D)
Bourbon	27	6.3	1 058	9.4	–	–	–	–
Brown	12	10.8	439	14.1	–	–	–	–
Butler	64	3.8	(D)	(D)	–	–	–	–
Chase	13	7.7	417	11.9	2	25.6	(D)	(D)
Chautauqua	17	7.9	520	9.6	–	–	–	–
Cherokee	19	8.1	553	17.1	–	–	–	–
Cheyenne	17	7.9	361	10.2	2	22.6	(D)	(D)
Clark	4	13.4	105	10.2	–	–	–	–
Clay	16	9.8	525	18.2	–	–	–	–
Cloud	13	11.1	427	15.0	2	19.8	(D)	(D)
Coffey	25	7.1	(D)	(D)	–	–	–	–
Comanche	1	–	(D)	(D)	1	46.2	(D)	(D)
Cowley	36	6.1	907	7.5	2	16.5	(D)	(D)
Crawford	18	9.1	521	16.7	–	–	–	–
Decatur	14	7.8	445	8.3	–	–	–	–
Dickinson	26	6.5	(D)	(D)	2	17.5	(D)	(D)
Doniphan	14	8.8	408	6.7	1	47.5	(D)	(D)
Douglas	32	6.2	7 172	7.5	–	–	–	–
Edwards	3	13.5	(D)	(D)	–	–	–	–
Elk	14	7.1	805	11.9	–	–	–	–
Ellis	51	5.4	927	5.5	–	–	–	–
Ellsworth	28	6.1	635	7.6	–	–	–	–
Finney	8	11.9	170	13.3	–	–	–	–
Ford	22	6.3	426	6.9	–	–	–	–
Franklin	47	4.8	2 029	12.5	3	23.2	(D)	(D)
Geary	15	7.3	625	17.1	–	–	–	–
Gove	14	9.8	360	12.4	1	–	(D)	(D)
Graham	6	13.8	96	16.9	–	–	–	–
Grant	19	6.2	372	6.9	–	–	–	–
Gray	15	7.4	183	9.7	1	–	(D)	(D)
Greeley	7	9.8	116	11.5	–	–	–	–
Greenwood	17	8.5	529	11.8	1	30.5	(D)	(D)
Hamilton	10	10.1	208	15.0	–	–	–	–
Harper	14	8.3	179	10.0	3	14.2	(D)	(D)
Harvey	37	4.8	160 177	.1	3	19.4	730	22.2
Haskell	10	8.2	391	12.1	–	–	–	–
Hodgeman	10	9.7	246	12.0	–	–	–	–
Jackson	42	5.4	972	7.9	–	–	–	–
Jefferson	56	4.6	1 584	8.5	3	18.0	(D)	(D)

See footnotes at end of table.

TIPS [UPF] BATCH_1166 [ACEN,C_ARLEDGE] 4/ 7/94 6:29 AM MACHINE: EPCV23 DATA:VOL1_TIPS_APX_47.TIPS;1 * 3/29/94 13:57:00 TAPE: NOreel FRAME: 22
TSF:TIPS92-13572900.DAT;1 3/29/94 13:57:38 UTF:TIPS93-13572900.DAT;1 3/29/94 13:57:39 META:VOL1_TIPS96_APX_47.DAT;2 3/29/94 13:58:53

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

| Geographic area | Hens and pullets of laying age inventory | | | | Broilers and other meat-type chickens sold | | | |
| | Farms | | Total | | Farms | | Total | |
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)
Jewell	17	7.7	424	9.5	3	16.5	445	16.4
Johnson	29	5.9	1 148	10.5	2	24.0	(D)	(D)
Kearny	8	10.1	372	9.6	–	–	–	–
Kingman	35	5.0	985	7.5	1	42.9	(D)	(D)
Kiowa	3	9.7	62	11.7	–	–	–	–
Labette	29	5.3	575	6.9	–	–	–	–
Lane	4	20.5	70	15.9	–	–	–	–
Leavenworth	46	5.3	1 363	7.1	1	35.1	(D)	(D)
Lincoln	20	7.0	539	10.0	–	–	–	–
Linn	29	6.6	505	9.8	–	–	–	–
Logan	14	10.2	201	12.1	–	–	–	–
Lyon	43	4.5	58 815	5.5	–	–	–	–
McPherson	57	3.6	573 647	1.3	2	22.9	(D)	(D)
Marion	48	4.1	103 515	5.0	2	23.2	(D)	(D)
Marshall	29	7.7	1 861	12.2	3	20.7	960	30.1
Meade	12	7.9	466	13.5	1	–	(D)	(D)
Miami	53	4.2	1 646	5.5	2	24.5	(D)	(D)
Mitchell	16	9.4	657	16.4	1	49.0	(D)	(D)
Montgomery	34	5.1	787	8.4	–	–	–	–
Morris	19	7.5	1 025	15.4	–	–	–	–
Morton	10	10.1	192	13.5	–	–	–	–
Nemaha	26	7.3	(D)	(D)	1	45.4	(D)	(D)
Neosho	28	5.9	891	13.6	–	–	–	–
Ness	12	10.4	360	12.0	–	–	–	–
Norton	12	10.7	272	14.1	–	–	–	–
Osage	24	6.0	471	10.3	–	–	–	–
Osborne	21	8.2	485	8.2	2	24.1	(D)	(D)
Ottawa	29	4.8	1 002	12.4	–	–	–	–
Pawnee	9	11.6	256	14.9	–	–	–	–
Phillips	22	8.1	703	10.1	–	–	–	–
Pottawatomie	36	6.1	(D)	(D)	1	44.5	(D)	(D)
Pratt	20	7.8	1 107	14.8	–	–	–	–
Rawlins	19	7.0	585	13.2	–	–	–	–
Reno	93	3.3	171 251	2.4	12	8.9	72 334	13.4
Republic	37	6.3	1 000	8.1	1	47.0	(D)	(D)
Rice	16	7.1	263	6.8	–	–	–	–
Riley	15	8.0	1 138	2.4	2	25.1	(D)	(D)
Rooks	15	8.5	249	14.2	1	35.1	(D)	(D)
Rush	14	8.7	383	12.3	–	–	–	–
Russell	22	7.5	454	11.3	–	–	–	–
Saline	34	5.0	781	5.2	–	–	–	–
Scott	4	17.5	64	18.4	–	–	–	–
Sedgwick	57	4.4	(D)	(D)	2	27.0	(D)	(D)
Seward	8	13.3	178	23.6	–	–	–	–
Shawnee	33	5.7	655	9.2	–	–	–	–
Sheridan	13	8.0	710	20.5	–	–	–	–
Sherman	21	6.3	737	9.4	–	–	–	–
Smith	23	7.7	718	14.2	–	–	–	–
Stafford	16	8.8	335	9.1	–	–	–	–
Stanton	1	45.6	(D)	(D)	–	–	–	–
Stevens	5	14.4	69	24.8	–	–	–	–
Sumner	35	6.0	712	9.3	1	35.3	(D)	(D)
Thomas	16	7.4	348	8.9	–	–	–	–
Trego	22	8.8	461	10.0	3	21.7	280	27.0
Wabaunsee	22	7.0	503	8.1	2	22.2	(D)	(D)
Wallace	10	10.9	275	11.3	1	–	(D)	(D)
Washington	23	8.3	1 963	15.0	–	–	–	–
Wichita	8	12.7	183	15.2	–	–	–	–
Wilson	11	8.6	257	12.3	–	–	–	–
Woodson	14	8.4	255	9.6	–	–	–	–
Wyandotte	5	17.4	150	18.0	–	–	–	–

Livestock and poultry —Con.

Selected crops harvested

| Geographic area | Corn for grain or seed | | | | | | Corn for silage or green chop | | | | | |
| | Farms | | Acres | | Quantity | | Farms | | Acres | | Quantity | |
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Bushels	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Tons, green	Relative standard error of estimate (percent)
Kansas	**9 604**	**1.3**	**1 748 802**	**.6**	**258 720 259**	**.5**	**1 797**	**1.1**	**105 469**	**.7**	**1 810 537**	**.8**
Allen	101	2.5	8 657	2.4	866 181	2.1	10	6.6	772	3.4	11 035	2.9
Anderson	247	2.5	22 101	2.2	2 309 251	2.3	20	7.4	594	8.4	6 958	8.8
Atchison	280	2.7	28 876	2.2	3 257 592	2.1	41	5.0	1 257	4.1	17 339	5.9
Barber	13	6.8	1 372	6.6	239 973	6.4	2	–	(D)	(D)	(D)	(D)
Barton	71	2.5	21 533	1.2	3 345 272	1.0	21	3.9	2 617	4.7	43 131	2.9
Bourbon	75	3.1	5 967	3.3	547 316	3.6	17	6.7	531	5.0	6 471	4.8
Brown	322	2.0	55 346	1.3	7 287 399	1.2	48	4.1	1 687	3.9	24 062	4.1
Butler	42	3.2	2 969	2.1	277 168	2.3	30	2.6	2 162	1.7	24 993	1.6
Chase	31	4.3	2 458	3.8	248 660	3.7	13	5.4	1 517	1.1	20 945	.9

See footnotes at end of table.

TIPS [UPF] BATCH_1166 [ACEN,C_ARLEDGE] 4/ 7/94 6:29 AM MACHINE: EPCV23 DATA:VOL1_TIPS_APX_47.TIPS;1 * 3/29/94 13:57:00 TAPE: NOreel FRAME: 23
TSF:TIPS92-13572900.DAT;1 3/29/94 13:57:38 UTF:TIPS93-13572900.DAT;1 3/29/94 13:57:39 META:VOL1_TIPS96_APX_47.DAT;2 3/29/94 13:58:53

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

Geographic area	Corn for grain or seed						Corn for silage or green chop					
	Farms		Acres		Quantity		Farms		Acres		Quantity	
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Bushels	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Tons, green	Relative standard error of estimate (percent)
Chautauqua	6	11.0	599	10.4	67 758	9.8	1	38.4	(D)	(D)	(D)	(D)
Cherokee	87	3.6	6 719	2.4	709 342	2.2	7	6.5	91	5.0	1 285	5.3
Cheyenne	107	2.5	24 879	1.8	3 053 419	1.3	22	4.6	1 058	2.7	17 382	3.1
Clark	1	31.6	(D)	(D)	(D)	(D)	1	–	(D)	(D)	(D)	(D)
Clay	67	3.8	8 705	2.8	1 270 574	3.0	16	6.9	541	4.3	9 795	3.3
Cloud	78	4.0	9 455	4.0	1 026 827	3.6	6	14.1	117	10.1	2 245	8.3
Coffey	151	2.8	13 523	2.3	1 378 305	2.4	17	6.1	675	4.3	7 111	4.9
Comanche	16	6.4	2 321	6.3	356 553	5.3	8	8.1	372	9.1	6 916	5.7
Cowley	21	5.4	1 145	4.6	108 373	4.7	16	3.4	1 340	1.1	19 093	1.3
Crawford	149	3.2	16 496	2.4	1 836 283	2.3	6	7.9	481	.6	5 980	.9
Decatur	120	2.3	21 513	1.6	2 015 710	1.5	10	5.1	659	1.5	9 310	1.2
Dickinson	98	2.1	4 504	1.9	497 960	1.5	85	2.4	3 186	1.7	43 766	1.6
Doniphan	311	2.5	55 566	2.0	7 629 594	2.0	29	5.4	1 161	10.9	27 298	18.1
Douglas	186	2.4	20 420	2.2	2 647 531	2.0	26	4.2	923	3.2	13 934	3.0
Edwards	100	1.6	50 278	.6	8 566 310	.6	14	–	1 313	–	27 674	–
Elk	9	8.1	859	7.0	105 750	7.1	–	–	–	–	–	–
Ellis	3	16.1	(D)	(D)	(D)	(D)	–	–	–	–	–	–
Ellsworth	5	16.3	497	14.4	52 645	15.0	4	17.4	49	20.4	553	22.9
Finney	156	1.5	69 487	.6	11 953 140	.6	14	3.4	1 913	1.6	45 140	1.0
Ford	90	1.8	32 282	1.1	5 543 773	1.0	13	4.3	1 072	2.6	16 830	3.8
Franklin	188	2.0	17 128	1.5	2 037 097	1.5	45	3.6	1 403	3.9	22 462	4.3
Geary	32	4.4	1 328	8.8	136 871	7.4	14	5.9	348	4.1	3 718	3.9
Gove	41	4.4	7 473	3.9	905 992	4.2	13	8.5	1 060	6.4	19 325	5.5
Graham	18	5.6	2 918	7.7	366 205	2.7	9	4.3	335	4.6	5 358	5.4
Grant	120	1.8	42 665	1.0	8 610 689	1.0	14	4.5	3 050	4.6	51 741	4.9
Gray	200	1.3	68 556	.9	12 587 545	.9	13	–	2 041	–	47 400	–
Greeley	33	2.9	17 969	1.2	2 560 477	1.3	7	5.0	601	1.7	15 059	1.8
Greenwood	31	4.5	2 213	3.4	223 343	3.3	11	5.5	601	2.3	7 322	3.0
Hamilton	21	3.6	6 676	2.5	1 134 922	2.2	2	–	(D)	(D)	(D)	(D)
Harper	11	5.5	2 774	.4	374 403	.3	6	7.1	1 337	19.6	8 464	18.6
Harvey	93	2.5	10 883	2.4	1 463 184	2.3	24	3.8	1 137	1.8	11 997	1.9
Haskell	174	.9	98 657	.3	18 784 018	.3	16	3.3	1 256	.1	30 026	.1
Hodgeman	30	4.1	3 933	3.6	625 190	3.9	44	3.6	4 714	4.4	101 928	4.5
Jackson	214	2.7	16 138	2.9	1 776 712	2.9	16	9.7	369	8.3	5 630	9.0
Jefferson	205	2.5	25 386	2.0	3 194 824	2.0	31	6.0	987	6.9	12 234	6.3
Jewell	46	3.4	7 773	2.8	1 078 522	3.2	9	7.2	217	3.5	3 002	4.1
Johnson	80	2.9	8 733	2.5	1 026 761	2.3	16	6.8	796	4.7	10 652	9.1
Kearny	67	2.9	24 895	1.5	4 268 557	1.5	12	5.9	1 027	4.8	24 661	6.7
Kingman	32	3.1	7 136	1.6	1 143 345	1.6	17	4.2	805	2.2	14 270	1.7
Kiowa	70	2.0	22 322	.8	4 021 702	.8	3	–	225	–	4 450	–
Labette	70	2.9	3 843	2.9	368 535	3.1	12	6.3	395	6.8	5 075	7.9
Lane	33	3.7	5 832	2.0	808 486	1.8	8	–	656	–	9 406	–
Leavenworth	219	2.4	18 400	2.7	2 034 259	2.7	54	4.1	2 231	2.4	29 514	2.2
Lincoln	3	16.8	75	8.1	(D)	(D)	10	8.7	264	8.3	3 060	6.7
Linn	88	3.7	9 690	2.8	931 292	2.1	3	15.9	80	6.0	900	5.3
Logan	27	5.0	6 070	3.7	746 571	3.8	9	10.2	846	4.4	11 796	3.3
Lyon	180	2.0	13 747	1.8	1 373 286	1.8	49	3.1	4 404	1.2	66 977	1.2
McPherson	129	2.2	14 775	2.0	2 215 416	2.1	30	3.7	1 467	2.5	24 415	2.5
Marion	117	2.1	5 999	2.0	601 875	1.8	84	2.2	3 038	2.0	36 459	1.9
Marshall	206	3.2	12 374	3.5	1 358 262	3.5	18	9.2	468	9.4	6 684	9.4
Meade	134	1.8	48 557	1.2	8 859 617	1.3	10	4.7	598	2.9	13 035	2.7
Miami	149	2.1	14 837	1.5	1 677 987	1.4	22	4.3	1 469	2.5	21 499	2.9
Mitchell	36	4.5	4 015	3.1	539 186	3.0	5	–	410	–	6 860	–
Montgomery	84	2.4	11 599	1.1	1 247 540	1.0	2	–	(D)	(D)	(D)	(D)
Morris	62	4.2	3 688	5.7	413 455	6.3	19	6.3	848	7.9	13 983	8.8
Morton	35	2.3	7 401	1.8	1 211 819	2.3	6	7.7	1 143	4.9	24 468	1.7
Nemaha	332	2.4	17 484	2.2	1 953 975	2.3	82	3.3	2 511	2.7	41 493	2.5
Neosho	89	2.8	8 299	2.1	928 312	2.1	8	6.2	530	1.7	8 190	.9
Ness	1	43.1	(D)	(D)	(D)	(D)	3	14.4	78	14.9	1 660	16.8
Norton	68	3.2	13 626	1.5	1 549 400	1.4	7	9.4	557	8.4	10 526	9.3
Osage	92	2.3	5 646	2.2	620 566	2.0	12	5.2	408	4.3	4 784	4.9
Osborne	28	6.6	1 283	7.6	155 323	8.2	9	10.3	158	8.1	2 890	9.8
Ottawa	16	4.4	1 479	6.2	213 221	6.5	4	7.6	187	4.1	3 073	4.9
Pawnee	63	2.5	19 319	1.0	3 064 962	1.1	12	4.9	706	2.5	13 805	2.4
Phillips	47	4.0	9 791	1.4	1 507 219	1.1	7	12.0	166	11.7	3 495	12.0
Pottawatomie	121	3.0	13 724	2.5	1 824 777	2.4	36	4.3	2 312	2.2	42 403	2.2
Pratt	120	1.9	41 633	1.0	6 886 035	1.0	13	3.1	996	2.0	17 475	1.9
Rawlins	60	2.7	7 692	2.5	760 484	2.3	15	5.7	464	3.1	8 068	2.5
Reno	73	2.4	13 727	1.3	2 006 703	1.3	32	5.1	829	8.1	12 831	5.2
Republic	241	2.7	41 648	2.2	6 192 380	2.3	11	7.4	322	4.4	5 571	5.8
Rice	43	2.7	10 931	1.1	1 736 458	1.1	12	5.2	1 120	4.9	22 506	4.5
Riley	53	3.5	3 579	4.2	472 769	3.5	27	4.9	846	3.8	12 151	4.1
Rooks	15	6.6	938	4.7	112 638	4.8	8	9.3	309	7.9	5 050	6.5
Rush	20	5.7	1 568	5.0	206 961	5.5	1	33.9	(D)	(D)	(D)	(D)
Russell	2	23.4	(D)	(D)	(D)	(D)	1	–	(D)	(D)	(D)	(D)
Saline	35	4.5	1 680	3.7	199 462	3.9	24	5.1	862	3.9	12 458	4.3
Scott	78	2.0	16 561	1.9	2 249 470	1.8	33	2.6	4 760	2.1	99 956	2.1
Sedgwick	64	2.9	10 462	2.1	1 305 723	1.6	30	4.8	1 241	5.1	16 880	3.7
Seward	87	2.1	31 076	1.3	4 965 173	1.3	3	13.3	885	6.3	8 400	13.3
Shawnee	149	2.1	21 132	2.1	2 876 438	2.0	13	5.8	360	7.0	5 075	5.0

See footnotes at end of table.

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

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

Selected crops harvested

Geographic area	Corn for grain or seed						Corn for silage or green chop					
	Farms		Acres		Quantity		Farms		Acres		Quantity	
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Bushels	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Tons, green	Relative standard error of estimate (percent)
Sheridan	155	1.7	45 795	1.1	6 221 031	1.1	21	3.9	1 130	5.4	21 040	5.6
Sherman	167	1.6	40 736	1.3	5 057 471	1.2	21	3.2	1 954	4.5	34 286	5.5
Smith	45	4.3	2 985	4.0	364 540	4.2	7	9.4	128	5.4	2 242	4.9
Stafford	117	2.2	42 913	1.1	6 838 762	1.1	12	4.0	766	1.0	12 236	.9
Stanton	127	1.6	52 905	.7	10 369 470	.6	14	4.2	4 102	3.0	104 735	3.9
Stevens	114	1.5	60 254	.6	11 228 263	.6	–	–	–	–	–	–
Sumner	31	4.1	2 819	6.8	219 580	3.0	16	3.8	800	3.6	9 728	4.2
Thomas	148	2.0	56 609	1.3	7 016 232	1.3	14	4.8	734	4.8	14 037	2.9
Trego	7	11.5	702	1.9	(D)	(D)	13	9.4	296	9.7	3 802	8.2
Wabaunsee	78	4.2	7 725	4.3	863 446	4.5	29	5.9	963	4.5	13 502	4.3
Wallace	95	2.8	30 637	1.9	4 531 787	2.1	7	12.0	591	16.5	9 795	15.9
Washington	173	3.0	14 123	2.6	1 555 458	2.6	33	5.0	1 130	4.2	17 133	4.4
Wichita	95	2.7	20 201	1.6	3 284 535	1.7	40	3.0	4 569	2.1	111 227	2.1
Wilson	49	3.3	4 514	2.7	544 587	2.8	2	15.3	(D)	(D)	(D)	(D)
Woodson	69	3.0	5 277	2.3	544 737	2.0	2	–	(D)	(D)	(D)	(D)
Wyandotte	16	7.6	2 022	2.3	227 541	2.7	3	16.7	(D)	(D)	(D)	(D)

Selected crops harvested —Con.

Geographic area	Sorghum for grain or seed						Wheat for grain					
	Farms		Acres		Quantity		Farms		Acres		Quantity	
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Bushels	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Bushels	Relative standard error of estimate (percent)
Kansas	**23 820**	**1.5**	**2 957 276**	**1.1**	**222 145 624**	**1.1**	**36 623**	**1.4**	**9 942 149**	**1.0**	**329 082 833**	**.9**
Allen	239	1.8	18 289	1.7	1 424 504	1.7	298	1.5	36 190	1.3	1 337 186	1.3
Anderson	256	2.4	21 831	2.2	1 999 686	2.2	339	2.2	33 632	2.1	1 325 275	2.2
Atchison	294	2.8	27 184	2.9	2 407 599	2.9	274	2.8	16 323	2.6	579 532	2.7
Barber	49	3.1	3 988	3.0	220 540	3.2	316	1.3	132 844	1.0	3 921 608	1.1
Barton	395	1.3	41 052	1.2	2 489 889	1.2	596	1.0	170 396	1.0	3 227 316	.9
Bourbon	124	2.7	8 909	3.1	615 468	3.5	169	2.2	17 844	1.8	672 447	1.9
Brown	332	2.1	39 495	2.0	3 914 386	2.0	376	2.0	35 330	1.6	1 359 160	1.5
Butler	352	1.4	71 351	1.1	5 295 348	1.0	459	1.2	73 786	1.1	2 665 540	1.1
Chase	93	2.7	7 353	2.8	568 291	3.1	116	2.3	14 564	2.9	519 975	3.1
Chautauqua	38	5.0	3 320	3.1	231 335	2.7	73	3.5	10 382	2.4	366 711	2.4
Cherokee	207	2.5	21 329	2.6	1 972 219	2.8	351	2.0	72 613	1.9	3 023 145	1.9
Cheyenne	54	3.9	6 110	4.5	334 189	3.4	293	1.9	97 975	1.5	2 974 627	1.5
Clark	39	3.5	4 440	3.0	239 828	4.4	170	1.2	66 978	1.2	1 185 791	1.4
Clay	386	2.6	40 449	2.4	3 488 520	2.3	461	2.5	92 311	2.3	3 193 144	2.3
Cloud	337	2.6	41 972	2.5	2 999 861	2.4	422	2.5	114 608	2.3	3 625 251	2.3
Coffey	230	2.5	20 645	2.8	1 690 511	2.8	304	2.2	34 531	2.1	1 191 641	2.2
Comanche	48	4.2	5 301	4.1	253 401	2.8	161	2.0	74 803	1.5	1 511 668	1.5
Cowley	300	2.0	30 217	1.8	2 135 265	1.9	539	1.6	128 425	1.7	4 195 976	1.7
Crawford	240	2.7	20 119	2.7	1 583 319	2.8	346	2.4	38 123	2.2	1 539 679	2.2
Decatur	211	1.8	28 433	1.8	1 762 355	1.6	352	1.3	114 380	1.3	4 701 098	1.3
Dickinson	452	1.4	47 183	1.2	3 408 609	1.2	695	1.2	167 392	1.1	5 734 991	1.1
Doniphan	67	4.9	3 664	6.3	381 216	6.2	148	3.3	9 284	2.8	345 942	2.4
Douglas	163	2.6	11 375	3.0	1 093 621	2.9	241	2.2	18 060	2.5	683 391	2.4
Edwards	127	1.6	15 771	1.8	949 766	1.5	244	1.1	78 206	1.1	1 600 794	1.1
Elk	64	2.9	4 480	2.8	238 243	3.0	130	2.0	12 672	2.5	432 762	2.4
Ellis	175	3.3	14 615	3.5	942 935	3.9	487	2.3	103 623	2.5	2 905 761	2.5
Ellsworth	187	2.4	17 896	2.3	1 033 232	2.5	296	1.9	77 507	1.9	1 548 426	1.9
Finney	201	1.4	38 670	1.0	3 434 145	1.1	368	1.0	202 099	.7	8 570 415	.7
Ford	214	1.5	32 601	1.3	2 465 175	1.7	491	1.0	173 676	.9	3 958 777	.9
Franklin	272	1.8	19 834	1.8	1 890 523	2.0	288	1.7	21 633	1.6	829 766	1.5
Geary	129	1.9	9 765	2.5	717 158	2.6	150	1.7	20 715	2.3	648 620	2.4
Gove	214	2.5	30 264	2.0	2 374 161	2.0	377	2.0	136 367	1.6	5 129 127	1.7
Graham	150	2.1	21 378	1.6	1 425 409	1.5	317	1.6	98 586	1.3	3 653 202	1.3
Grant	125	1.8	34 468	1.5	2 403 789	1.6	196	1.2	88 925	1.1	4 022 623	1.0
Gray	174	1.4	32 785	1.0	3 016 818	.9	372	.9	145 194	.8	5 024 800	.7
Greeley	38	3.3	6 493	1.3	230 590	2.1	208	1.0	152 453	.6	4 846 769	.6
Greenwood	125	2.9	11 056	2.7	694 574	3.2	181	2.5	14 374	3.1	483 909	3.1
Hamilton	46	3.0	7 554	2.4	333 368	2.9	180	1.2	136 803	.7	4 649 803	.7
Harper	50	3.7	3 332	3.0	176 798	3.8	441	1.4	251 660	1.0	7 394 254	1.0
Harvey	475	1.2	70 302	1.1	4 745 251	1.1	544	1.1	123 640	1.1	4 819 719	1.1
Haskell	84	1.7	18 171	1.9	1 517 350	2.1	213	.8	122 788	.7	5 434 200	.5
Hodgeman	131	2.1	17 418	1.9	1 156 608	1.7	314	1.1	110 752	1.1	2 507 091	1.2
Jackson	248	2.5	17 045	2.8	1 436 210	2.8	251	2.5	18 089	2.6	634 758	2.5
Jefferson	180	2.7	14 261	2.7	1 258 027	3.1	215	2.5	14 153	3.3	468 688	2.6
Jewell	433	1.4	62 665	1.2	4 979 255	1.2	482	1.3	126 641	1.2	4 940 146	1.2
Johnson	67	3.5	5 202	4.4	421 259	4.5	122	2.4	14 413	2.6	575 225	2.6
Kearny	75	2.8	13 078	2.4	1 029 480	2.8	202	1.4	126 219	.9	4 476 643	1.0
Kingman	166	2.1	10 303	2.2	517 930	2.4	554	1.1	208 353	1.0	6 643 853	.9
Kiowa	108	1.9	14 615	1.3	854 640	1.2	201	1.2	72 617	1.0	1 721 896	1.0
Labette	263	1.7	22 583	1.6	2 090 812	1.6	413	1.5	62 199	1.4	2 382 395	1.4
Lane	79	3.2	10 852	2.3	795 450	2.2	233	2.0	116 710	1.6	4 079 548	1.6
Leavenworth	167	2.8	9 833	3.1	836 965	3.2	208	2.5	11 256	2.5	385 920	2.5
Lincoln	272	1.7	24 601	1.9	1 680 371	1.9	411	1.3	111 302	1.5	3 208 833	1.5
Linn	165	3.0	11 664	2.8	942 781	2.8	194	2.8	14 932	2.7	558 232	2.5

See footnotes at end of table.

TIPS [UPF] BATCH_1166 [ACEN,C_ARLEDGE] 4/ 7/94 6:29 AM MACHINE: EPCV23 DATA:VOL1_TIPS_APX_47.TIPS;1 * 3/29/94 13:57:00 TAPE: NOreel FRAME: 25
TSF:TIPS92-13572900.DAT;1 3/29/94 13:57:38 UTF:TIPS93-13572900.DAT;1 3/29/94 13:57:39 META:VOL1_TIPS96_APX_47.DAT;2 3/29/94 13:58:53

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

Selected crops harvested —Con.

Geographic area	Sorghum for grain or seed						Wheat for grain					
	Farms		Acres		Quantity		Farms		Acres		Quantity	
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Bushels	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Bushels	Relative standard error of estimate (percent)
Logan	72	3.7	10 300	2.6	714 800	2.3	285	1.9	136 231	1.3	3 832 956	1.3
Lyon	390	1.3	36 066	1.4	2 753 110	1.4	360	1.4	28 329	1.5	1 010 958	1.5
McPherson	612	1.1	51 673	1.2	3 405 083	1.2	981	.9	224 444	1.0	8 847 541	1.0
Marion	652	1.2	80 455	1.1	5 607 204	1.1	761	1.1	144 031	1.1	5 262 171	1.1
Marshall	733	2.5	108 329	2.3	9 955 678	2.4	698	2.6	83 680	2.3	2 497 993	2.3
Meade	156	1.8	29 426	1.4	2 618 624	1.4	323	1.3	111 433	1.1	3 427 212	1.0
Miami	209	1.8	11 091	2.4	930 470	2.6	188	1.9	14 816	1.9	545 818	1.9
Mitchell	333	2.1	51 861	1.5	3 852 918	1.5	419	2.0	182 327	1.5	6 307 314	1.5
Montgomery	145	1.8	21 307	1.2	1 677 720	1.2	294	1.4	53 411	1.1	1 955 359	1.2
Morris	275	2.1	25 583	2.2	1 737 934	2.3	293	2.0	43 064	2.3	1 323 832	2.3
Morton	97	2.2	40 121	1.9	2 144 663	2.0	155	1.6	75 735	1.2	2 765 084	1.1
Nemaha	723	2.1	101 522	2.0	9 393 841	2.0	600	2.2	40 846	2.1	1 445 711	2.1
Neosho	207	1.8	19 630	1.8	1 583 315	1.9	297	1.5	46 994	1.3	1 768 798	1.4
Ness	149	2.6	14 954	2.5	830 287	2.4	473	1.6	162 046	1.5	5 279 805	1.6
Norton	159	2.7	18 448	2.6	1 326 739	2.5	321	2.1	103 370	1.7	4 167 758	1.7
Osage	359	1.3	37 284	1.3	3 522 570	1.4	301	1.3	21 110	1.3	768 850	1.3
Osborne	325	2.5	35 159	2.3	2 446 964	2.2	403	2.4	114 522	2.2	3 780 099	2.2
Ottawa	169	1.8	13 189	1.3	811 388	1.2	398	1.6	134 178	1.0	4 546 710	1.1
Pawnee	208	1.6	34 883	1.3	2 504 232	1.3	327	1.2	114 908	1.1	2 377 905	1.1
Phillips	299	2.6	37 102	2.0	2 518 555	2.0	413	2.3	110 697	1.8	4 568 334	1.7
Pottawatomie	315	2.2	27 633	1.9	2 456 230	1.9	315	2.1	22 520	1.9	781 375	1.9
Pratt	196	1.7	24 351	1.6	1 498 364	1.4	337	1.3	147 309	1.0	4 689 204	1.0
Rawlins	209	1.5	30 762	1.3	1 997 078	1.4	358	1.1	113 901	1.0	3 067 534	1.3
Reno	591	1.5	81 222	1.4	5 143 797	1.4	910	1.3	246 292	1.2	8 738 047	1.1
Republic	465	2.3	67 463	2.1	4 872 698	2.3	572	2.2	94 889	2.1	3 052 519	2.0
Rice	338	1.4	60 858	1.0	4 534 334	1.0	407	1.3	151 852	1.0	4 134 875	1.0
Riley	242	1.7	24 925	1.8	2 148 990	1.9	266	1.5	25 427	1.9	802 108	1.9
Rooks	199	1.8	24 006	1.3	1 631 006	1.2	336	1.3	110 421	1.1	4 157 311	1.2
Rush	212	1.7	23 701	1.5	1 460 339	1.8	425	1.4	132 177	1.3	3 659 964	1.3
Russell	221	2.6	21 053	2.5	1 303 515	2.6	361	2.2	88 063	2.2	1 749 104	2.2
Saline	236	1.7	13 903	1.9	966 740	2.2	468	1.1	144 096	1.3	4 561 554	1.3
Scott	140	1.5	28 591	1.0	2 179 191	1.3	279	.8	143 320	.8	5 180 125	.7
Sedgwick	579	1.2	69 403	1.2	4 852 150	1.2	866	1.0	218 794	1.0	7 526 232	1.0
Seward	106	2.0	31 566	1.4	2 146 409	1.7	154	1.6	69 275	1.1	2 523 081	1.1
Shawnee	172	2.1	17 027	2.3	1 705 040	2.2	206	1.9	14 625	2.1	527 743	1.9
Sheridan	217	1.7	23 877	1.6	1 683 930	1.6	396	1.2	117 294	1.1	5 100 494	1.2
Sherman	69	2.7	9 648	2.9	689 182	3.4	276	1.4	94 787	1.1	2 396 172	1.0
Smith	432	2.1	62 611	1.9	5 064 096	1.8	488	2.0	116 913	1.8	5 063 136	1.8
Stafford	237	2.4	38 461	2.3	2 265 738	2.3	365	2.0	131 001	1.6	3 263 177	1.6
Stanton	81	2.2	16 075	1.7	1 295 343	1.8	197	1.3	129 570	.8	5 839 688	.6
Stevens	170	1.3	82 824	1.0	4 499 049	.9	188	1.3	91 955	.6	4 099 707	.6
Sumner	284	2.0	25 542	1.9	1 403 446	2.1	909	1.4	422 662	1.1	12 676 172	1.1
Thomas	190	1.7	30 236	1.8	1 995 687	1.9	365	1.2	133 744	1.0	3 450 301	1.3
Trego	149	3.1	14 285	3.3	927 450	4.0	392	2.0	104 943	2.0	3 439 789	2.0
Wabaunsee	259	2.3	21 097	2.6	1 795 438	3.1	227	2.5	14 947	3.2	492 319	3.3
Wallace	37	5.7	4 848	5.4	256 345	5.7	192	2.3	79 061	1.7	2 456 713	1.6
Washington	595	2.4	96 525	2.1	8 531 981	2.0	598	2.4	88 611	2.1	2 591 815	2.0
Wichita	123	2.5	18 235	2.4	1 766 857	2.2	242	1.7	141 062	1.2	5 504 348	1.1
Wilson	202	1.7	23 649	1.6	2 218 172	1.5	270	1.4	43 740	1.5	1 830 503	1.5
Woodson	163	1.9	15 930	1.8	1 339 931	1.9	170	1.9	22 318	1.8	789 534	1.8
Wyandotte	9	9.0	1 022	2.8	81 970	1.3	16	7.7	1 077	3.9	39 932	3.0

Selected crops harvested —Con.

Geographic area	Oats for grain						Soybeans for beans					
	Farms		Acres		Quantity		Farms		Acres		Quantity	
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Bushels	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Bushels	Relative standard error of estimate (percent)
Kansas	**4 659**	**1.6**	**118 788**	**1.5**	**6 024 886**	**1.6**	**14 743**	**1.5**	**1 669 958**	**1.2**	**56 854 327**	**1.1**
Allen	74	3.1	1 227	3.3	65 303	3.4	336	1.4	54 204	1.2	1 473 427	1.2
Anderson	88	4.1	2 749	9.0	157 237	9.1	405	2.1	74 383	2.0	2 446 322	2.0
Atchison	89	4.4	1 765	5.4	81 217	5.4	410	2.4	47 967	2.2	1 720 302	2.1
Barber	33	4.3	1 279	4.5	53 745	5.0	16	6.3	1 210	5.5	37 497	6.4
Barton	46	3.8	929	5.5	38 790	6.2	62	2.8	6 620	2.1	284 972	2.1
Bourbon	60	4.0	1 592	4.2	84 576	4.1	244	1.9	32 810	2.0	794 994	2.0
Brown	95	3.7	1 892	4.3	136 219	4.4	476	1.9	78 622	1.5	3 096 279	1.4
Butler	49	4.1	989	5.3	42 099	4.9	212	1.8	24 259	1.7	745 198	1.7
Chase	18	6.9	438	8.6	25 734	9.1	88	2.8	8 391	3.0	286 723	3.2
Chautauqua	13	9.4	310	10.3	13 010	11.6	23	5.6	4 242	1.9	122 047	2.0
Cherokee	52	5.0	1 174	6.0	60 916	6.4	335	2.1	73 795	2.0	1 875 418	2.0
Cheyenne	4	11.3	228	8.7	8 120	12.2	17	7.0	1 920	6.7	61 364	8.6
Clark	3	–	(D)	(D)	(D)	(D)	1	–	(D)	(D)	(D)	(D)
Clay	90	4.3	1 817	4.5	110 932	4.8	291	2.7	22 572	2.2	879 950	2.2
Cloud	53	5.1	1 612	5.6	85 766	6.2	138	3.5	9 553	3.6	324 064	3.9
Coffey	56	4.9	1 055	5.2	53 368	6.4	369	2.0	62 005	1.9	1 816 634	2.0
Comanche	7	11.3	186	12.3	3 162	9.3	7	8.6	826	5.2	22 938	4.3
Cowley	52	4.7	1 233	4.7	58 440	4.7	63	4.0	3 345	3.8	104 317	4.2
Crawford	106	3.9	2 630	4.6	129 974	4.4	365	2.3	52 613	2.2	1 299 225	2.2

See footnotes at end of table.

TIPS [UPF] BATCH_1166 [ACEN,C_ARLEDGE] 4/ 7/94 6:29 AM MACHINE: EPCV23 DATA:VOL1_TIPS_APX_47.TIPS;1 * 3/29/94 13:57:00 TAPE: NOreel FRAME: 26
TSF:TIPS92-13572900.DAT;1 3/29/94 13:57:38 UTF:TIPS93-13572900.DAT;1 3/29/94 13:57:39 META:VOL1_TIPS96_APX_47.DAT;2 3/29/94 13:58:53

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

Geographic area	Oats for grain Farms Number	Oats Farms Relative standard error of estimate (percent)	Oats Acres Number	Oats Acres Relative standard error of estimate (percent)	Oats Quantity Bushels	Oats Quantity Relative standard error of estimate (percent)	Soybeans Farms Number	Soybeans Farms Relative standard error of estimate (percent)	Soybeans Acres Number	Soybeans Acres Relative standard error of estimate (percent)	Soybeans Quantity Bushels	Soybeans Quantity Relative standard error of estimate (percent)
Decatur	12	9.2	327	8.8	14 520	10.0	9	6.5	376	4.1	12 780	3.2
Dickinson	235	1.9	6 305	2.1	354 395	2.1	250	1.8	13 578	1.8	423 975	1.9
Doniphan	38	6.1	514	6.2	30 586	6.2	316	2.5	56 760	2.1	2 292 910	2.0
Douglas	72	4.1	1 339	5.8	71 803	6.2	294	2.0	36 261	2.0	1 451 716	1.9
Edwards	5	5.7	150	9.6	5 190	5.5	74	2.0	10 101	1.4	471 808	1.3
Elk	20	5.6	470	4.9	21 483	5.1	80	2.7	9 827	2.5	322 083	2.4
Ellis	21	8.2	825	14.4	40 285	9.1	2	–	(D)	(D)	(D)	(D)
Ellsworth	38	5.0	1 066	4.6	41 441	3.5	23	5.7	1 429	7.3	41 476	6.0
Finney	7	13.1	242	7.8	13 935	8.7	99	2.1	13 046	1.2	500 137	1.0
Ford	13	5.7	500	11.0	20 330	8.9	35	2.8	3 942	2.9	173 411	2.2
Franklin	102	2.7	1 878	3.6	108 550	3.6	370	1.5	56 802	1.5	1 987 979	1.5
Geary	43	4.2	979	4.1	48 553	5.5	92	2.6	5 417	2.5	191 341	2.9
Gove	9	9.4	895	15.1	38 075	15.0	7	12.2	359	23.2	11 350	23.7
Graham	6	6.9	138	4.8	6 760	5.2	2	–	(D)	(D)	(D)	(D)
Grant	–	–	–	–	–	–	19	5.6	1 124	5.6	49 589	6.9
Gray	9	8.1	793	14.0	19 175	9.8	69	2.3	4 245	3.3	170 381	3.4
Greeley	1	–	(D)	(D)	(D)	(D)	3	–	952	–	(D)	(D)
Greenwood	28	6.6	751	7.5	41 925	7.9	191	2.4	19 840	3.1	678 393	2.9
Hamilton	–	–	–	–	–	–	2	–	(D)	(D)	(D)	(D)
Harper	37	5.4	1 739	7.3	67 740	9.0	10	7.4	793	4.6	22 655	8.2
Harvey	46	4.1	998	5.6	45 848	5.7	210	1.7	16 532	1.7	599 724	1.8
Haskell	2	18.9	(D)	(D)	(D)	(D)	65	1.6	6 176	1.4	284 990	1.1
Hodgeman	5	11.1	324	6.6	17 359	7.0	8	5.7	493	1.7	19 162	1.8
Jackson	64	4.9	1 169	5.9	58 432	6.7	306	2.4	25 596	2.6	952 483	2.5
Jefferson	62	4.4	1 171	6.5	59 776	6.0	293	2.2	39 176	2.1	1 614 089	2.0
Jewell	57	3.5	1 681	3.3	99 535	3.6	56	3.2	4 065	2.8	137 212	2.8
Johnson	51	4.1	1 266	4.4	62 422	4.9	146	2.3	21 856	2.4	782 180	2.4
Kearny	–	–	–	–	–	–	28	4.5	2 815	2.1	101 376	2.5
Kingman	98	2.8	4 032	5.2	147 578	4.5	35	3.4	4 098	2.9	167 922	3.0
Kiowa	6	10.8	199	6.6	8 691	8.2	49	2.3	8 772	1.3	370 119	1.6
Labette	190	1.9	5 480	2.2	301 725	2.3	328	1.5	41 456	1.6	975 301	1.6
Lane	3	14.4	92	5.6	6 120	5.1	4	21.4	126	21.1	4 360	21.4
Leavenworth	63	4.3	1 139	4.8	62 593	4.9	267	2.2	26 035	2.4	1 013 340	2.5
Lincoln	64	3.5	2 054	5.2	87 418	3.4	19	6.5	1 130	4.1	42 436	3.8
Linn	56	5.1	1 433	5.7	72 305	5.8	239	2.5	33 291	2.0	1 103 888	1.8
Logan	3	13.5	373	9.8	8 718	15.9	2	–	(D)	(D)	(D)	(D)
Lyon	64	3.4	1 147	4.1	50 360	4.5	455	1.2	43 000	1.2	1 338 973	1.3
McPherson	77	3.2	1 485	3.4	65 258	3.6	257	1.7	17 283	1.8	706 100	1.8
Marion	150	2.2	3 835	3.5	190 496	4.2	184	2.0	6 953	2.5	213 197	2.3
Marshall	102	4.3	2 501	5.6	157 931	6.0	644	2.6	58 806	2.3	2 081 661	2.3
Meade	8	4.7	285	1.3	13 555	.2	55	2.3	4 805	1.0	212 994	1.1
Miami	92	2.8	1 754	3.2	98 867	3.4	322	1.5	40 349	1.2	1 545 651	1.2
Mitchell	31	5.0	1 209	7.3	43 335	4.0	42	4.8	4 364	4.1	146 276	3.5
Montgomery	47	4.0	1 080	4.5	42 475	4.7	187	1.7	28 240	1.2	737 434	1.2
Morris	96	3.4	2 220	4.1	107 576	4.1	215	2.3	15 030	2.9	464 640	3.1
Morton	6	13.7	245	8.6	12 560	13.3	1	42.4	(D)	(D)	(D)	(D)
Nemaha	94	4.3	1 516	4.3	84 781	4.8	550	2.2	32 831	2.2	1 185 926	2.2
Neosho	115	2.7	3 844	3.1	210 866	3.2	279	1.6	36 183	1.7	960 800	1.7
Ness	8	7.6	379	11.5	15 802	7.7	–	–	–	–	–	–
Norton	21	7.4	643	15.0	44 280	20.1	1	–	(D)	(D)	(D)	(D)
Osage	51	3.6	669	3.2	30 069	3.7	402	1.2	46 271	1.2	1 548 039	1.3
Osborne	45	5.3	1 743	9.2	78 082	9.7	20	7.7	944	5.7	31 440	4.6
Ottawa	49	3.2	1 714	2.8	95 349	3.0	68	2.6	3 121	2.5	112 531	2.5
Pawnee	11	7.3	297	9.2	17 127	8.7	79	2.3	9 785	1.7	382 374	1.7
Phillips	35	6.2	1 170	3.9	53 188	4.5	9	8.8	228	7.9	8 950	5.4
Pottawatomie	79	4.2	1 206	7.0	59 504	6.5	253	2.3	19 028	1.9	766 325	1.9
Pratt	21	4.3	780	7.0	31 553	9.6	80	2.3	8 941	1.8	373 125	1.7
Rawlins	18	5.5	686	10.8	31 398	7.7	4	12.4	167	12.8	4 772	13.3
Reno	91	3.1	3 010	5.5	138 344	7.4	143	2.1	11 181	1.8	408 061	1.7
Republic	106	4.0	2 613	4.2	175 640	4.4	314	2.6	20 531	2.3	858 216	2.3
Rice	19	5.6	519	4.1	23 465	4.6	67	2.7	6 209	1.6	212 018	1.5
Riley	78	3.1	1 412	4.2	65 557	4.6	199	1.8	12 377	2.9	453 270	2.9
Rooks	15	7.8	463	8.2	21 560	9.0	2	–	(D)	(D)	(D)	(D)
Rush	24	5.4	496	5.1	26 416	5.3	20	6.3	872	4.2	32 666	4.5
Russell	23	8.3	377	11.0	15 334	13.0	5	13.3	276	10.0	9 402	7.9
Saline	57	3.8	1 176	4.9	71 533	4.8	99	2.6	4 462	2.9	150 600	2.9
Scott	–	–	–	–	–	–	19	5.1	1 447	6.9	44 606	7.8
Sedgwick	58	4.1	1 279	5.0	62 937	5.0	148	2.2	15 852	2.0	607 458	1.7
Seward	4	17.7	57	17.4	2 050	23.6	25	4.5	2 379	3.6	104 573	3.9
Shawnee	48	4.2	716	5.0	36 272	5.3	307	1.5	35 063	1.5	1 458 194	1.5
Sheridan	13	5.3	294	4.0	16 388	3.3	49	2.4	3 608	1.5	127 870	2.0
Sherman	7	8.2	210	6.1	10 589	7.4	28	3.8	3 528	4.0	115 419	4.2
Smith	60	4.9	1 422	7.4	85 785	7.9	30	5.8	1 374	5.0	51 895	4.9
Stafford	27	7.3	887	6.7	40 069	5.5	83	2.6	11 500	2.7	428 645	2.7
Stanton	–	–	–	–	–	–	8	10.1	563	10.6	26 703	11.6
Stevens	2	–	(D)	(D)	(D)	(D)	6	6.0	438	4.6	19 867	4.6
Sumner	62	4.0	2 246	4.8	85 001	5.0	69	3.5	7 183	2.0	237 384	2.7
Thomas	17	6.7	761	10.7	26 617	11.2	59	2.7	6 580	1.8	254 030	1.9
Trego	16	9.1	238	10.6	10 980	12.1	–	–	–	–	–	–
Wabaunsee	57	4.7	929	11.8	52 844	14.2	210	2.6	14 323	3.3	515 844	3.5

See footnotes at end of table.

1992 CENSUS OF AGRICULTURE

TIPS [UPF] BATCH_1166 [ACEN,C_ARLEDGE] 4/ 7/94 6:29 AM MACHINE: EPCV23 DATA:VOL1_TIPS_APX_47.TIPS;1 * 3/29/94 13:57:00 TAPE: NOreel FRAME: 27
TSF:TIPS92-13572900.DAT;1 3/29/94 13:57:38 UTF:TIPS93-13572900.DAT;1 3/29/94 13:57:39 META:VOL1_TIPS96_APX_47.DAT;2 3/29/94 13:58:53

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

Geographic area	Oats for grain — Farms Number	Farms Relative standard error of estimate (percent)	Acres Number	Acres Relative standard error of estimate (percent)	Quantity Bushels	Quantity Relative standard error of estimate (percent)	Soybeans for beans — Farms Number	Farms Relative standard error of estimate (percent)	Acres Number	Acres Relative standard error of estimate (percent)	Quantity Bushels	Quantity Relative standard error of estimate (percent)
Wallace	6	11.7	1 120	7.4	49 550	3.8	8	12.4	663	9.0	22 784	9.0
Washington	124	3.7	2 673	3.7	171 595	3.6	396	2.6	25 242	2.1	892 902	2.0
Wichita	3	16.0	140	8.6	8 150	7.4	16	5.2	1 573	1.9	64 958	1.8
Wilson	37	4.5	708	5.9	33 728	6.4	259	1.4	46 846	1.5	1 464 238	1.5
Woodson	29	5.2	778	4.5	47 947	4.6	174	1.8	26 083	1.6	771 389	1.7
Wyandotte	2	–	(D)	(D)	(D)	(D)	33	5.8	6 426	3.2	256 664	3.1

Selected crops harvested —Con.

Hay—alfalfa, other tame, small grain, wild, grass silage, green chop, etc. (see text)

Geographic area	Farms Number	Farms Relative standard error of estimate (percent)	Acres Number	Acres Relative standard error of estimate (percent)	Quantity Tons, dry	Quantity Relative standard error of estimate (percent)
Kansas	**32 926**	**1.4**	**2 509 904**	**1.2**	**5 938 634**	**1.0**
Allen	406	1.3	33 363	1.7	60 112	1.6
Anderson	438	2.0	41 236	2.4	69 394	2.6
Atchison	444	2.3	23 228	2.5	47 336	2.5
Barber	219	1.5	16 999	1.4	45 996	1.6
Barton	459	1.1	51 296	1.3	142 426	1.4
Bourbon	523	1.2	41 174	1.7	70 068	2.0
Brown	371	2.0	18 168	2.1	45 350	2.2
Butler	737	1.0	66 958	1.2	109 773	1.2
Chase	178	1.8	14 011	2.1	29 920	2.0
Chautauqua	200	1.8	14 513	2.1	24 340	2.4
Cherokee	371	1.9	17 485	2.5	27 871	2.8
Cheyenne	121	3.0	7 871	2.5	27 663	2.5
Clark	94	2.1	9 389	1.4	26 550	1.6
Clay	373	2.6	26 706	3.0	57 579	3.0
Cloud	342	2.5	21 225	3.2	47 425	3.3
Coffey	317	2.2	34 199	2.5	54 125	2.7
Comanche	106	2.6	11 367	2.0	29 805	2.1
Cowley	504	1.6	32 001	1.7	59 487	1.7
Crawford	441	2.1	26 056	2.4	42 014	2.5
Decatur	175	1.9	11 538	1.9	43 934	2.0
Dickinson	611	1.2	49 155	1.2	122 354	1.1
Doniphan	254	2.6	7 502	2.7	20 475	2.8
Douglas	516	1.4	30 517	2.0	59 629	2.2
Edwards	145	1.5	25 690	.9	101 672	1.0
Elk	226	1.2	22 264	1.6	33 990	1.7
Ellis	318	2.6	20 540	2.8	49 527	3.0
Ellsworth	302	1.9	28 649	2.4	57 483	2.1
Finney	149	1.8	39 878	1.1	208 430	1.0
Ford	245	1.5	24 955	1.4	111 909	1.3
Franklin	577	1.3	38 069	1.5	72 102	1.6
Geary	171	1.6	17 708	2.1	40 565	2.0
Gove	153	2.7	11 332	2.7	34 574	2.5
Graham	153	2.2	13 007	1.8	40 016	2.2
Grant	74	2.3	14 163	1.0	57 739	1.5
Gray	121	1.8	28 590	1.0	151 361	.9
Greeley	22	4.8	2 246	1.8	6 817	1.0
Greenwood	353	1.7	40 802	1.8	63 707	1.7
Hamilton	58	3.0	11 613	4.1	46 347	4.0
Harper	283	1.8	19 315	2.5	42 881	1.8
Harvey	424	1.2	18 939	1.7	42 776	2.0
Haskell	40	3.0	3 511	3.3	16 193	3.8
Hodgeman	121	2.0	9 993	2.0	31 106	2.4
Jackson	672	1.7	51 837	2.2	90 003	2.3
Jefferson	604	1.5	36 408	2.3	66 933	2.5
Jewell	380	1.5	25 024	1.6	61 160	1.6
Johnson	354	1.4	19 930	2.0	36 242	2.1
Kearny	80	2.8	16 591	1.6	100 597	1.7
Kingman	419	1.3	32 477	1.5	72 308	1.8
Kiowa	115	2.0	10 746	1.1	35 727	1.0
Labette	531	1.2	31 125	1.7	52 721	1.7
Lane	65	4.0	3 052	5.2	8 917	8.7
Leavenworth	674	1.4	33 605	1.7	66 386	1.8
Lincoln	336	1.5	27 046	2.0	70 607	1.8
Linn	454	1.9	33 584	2.5	54 250	2.7
Logan	76	3.5	4 941	3.1	12 777	3.8
Lyon	522	1.1	56 797	1.6	88 099	1.6
McPherson	639	1.1	32 720	1.6	82 789	1.6
Marion	710	1.1	56 977	1.0	122 550	1.1
Marshall	599	2.5	34 530	2.7	72 694	2.8
Meade	121	2.2	8 966	1.9	24 999	1.6
Miami	781	1.1	49 866	1.2	92 324	1.3
Mitchell	270	2.4	16 030	2.5	42 439	2.5
Montgomery	463	1.2	27 583	1.5	46 666	1.5
Morris	322	1.9	37 825	2.1	70 424	2.0

See footnotes at end of table.

C–34 APPENDIX C

1992 CENSUS OF AGRICULTURE

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

Geographic area	Selected crops harvested —Con.					
	Hay—alfalfa, other tame, small grain, wild, grass silage, green chop, etc. (see text)					
	Farms		Acres		Quantity	
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Tons, dry	Relative standard error of estimate (percent)
Morton	35	4.3	2 084	4.1	4 871	2.3
Nemaha	661	2.1	38 013	2.3	89 536	2.3
Neosho	447	1.2	28 086	1.3	49 906	1.4
Ness	245	2.2	14 380	2.3	38 510	2.8
Norton	200	2.6	12 435	3.0	38 291	3.2
Osage	523	1.1	48 621	1.1	75 314	1.3
Osborne	318	2.5	21 278	2.6	48 519	2.7
Ottawa	290	1.6	21 156	1.7	49 385	1.6
Pawnee	176	1.9	23 828	2.1	84 451	2.1
Phillips	328	2.4	24 012	2.6	70 990	2.5
Pottawatomie	523	1.7	52 934	2.1	94 349	2.1
Pratt	164	2.0	19 811	.7	75 968	.8
Rawlins	209	1.6	16 602	1.5	59 956	1.7
Reno	742	1.3	38 641	1.5	103 387	1.5
Republic	461	2.3	25 081	2.4	59 485	2.3
Rice	245	1.5	16 009	1.8	44 855	1.9
Riley	277	1.5	19 904	2.2	44 160	2.4
Rooks	218	1.8	19 413	1.7	53 671	1.9
Rush	208	1.8	13 247	2.2	35 887	2.1
Russell	286	2.4	22 568	2.4	51 255	2.6
Saline	377	1.3	32 787	1.7	69 545	1.9
Scott	46	2.9	3 389	5.9	11 307	8.3
Sedgwick	713	1.1	40 461	1.3	100 025	1.3
Seward	43	3.6	11 228	1.0	53 985	.6
Shawnee	449	1.3	25 915	1.9	39 500	1.9
Sheridan	167	1.8	10 182	2.2	36 025	2.3
Sherman	103	2.3	7 552	2.9	23 507	3.0
Smith	349	2.3	22 791	2.6	58 269	2.5
Stafford	198	2.5	19 681	2.6	64 159	2.5
Stanton	28	3.8	3 347	3.5	13 601	5.4
Stevens	53	2.7	8 730	4.6	46 380	4.5
Sumner	495	1.7	26 122	2.1	55 599	2.2
Thomas	104	2.7	6 037	2.5	17 645	2.3
Trego	209	2.7	14 439	3.0	37 593	3.2
Wabaunsee	386	1.9	41 328	2.3	73 970	2.3
Wallace	68	3.7	7 259	1.9	18 313	1.8
Washington	547	2.4	35 053	2.3	84 503	2.2
Wichita	64	3.6	4 950	4.2	15 046	4.2
Wilson	338	1.2	25 785	1.7	45 693	1.8
Woodson	234	1.5	37 124	1.5	52 015	1.7
Wyandotte	77	3.6	2 760	4.7	4 775	7.2

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

TIPS [UPF] BATCH_1166 [ACEN,C_ARLEDGE] 4/ 7/94   6:29 AM MACHINE: EPCV23 DATA:VOL1_TIPS_APX_47.TIPS;1 * 3/29/94 13:57:00 TAPE: NOreel FRAME: 29
TSF:TIPS92-13572900.DAT;1   3/29/94 13:57:38 UTF:TIPS93-13572900.DAT;1   3/29/94 13:57:39 META:VOL1_TIPS96_APX_47.DAT;2 3/29/94 13:58:53

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..	63 278	1.1	2 171	29.3	3.3	.9
Land in farms ....acres ..	46 672 188	.8	150 100	33.3	.3	.1
Average size of farm ....acres ..	737.6	.4	69.1	28.4	(X)	(X)
Farms by size:						
Less than 10 acres	2 632	1.3	386	71.8	12.8	8.0
10 to 49 acres	6 023	1.3	833	48.3	12.2	5.2
Less than 50 acres	8 655	1.2	1 219	39.0	12.3	4.2
50 acres or more	54 623	1.1	952	39.9	1.7	.7
50 to 99 acres	6 039	1.1	590	56.4	8.9	4.6
100 to 179 acres	8 182	1.2	250	69.2	3.0	2.0
180 acres or more	40 402	1.3	112	54.7	.3	.2
Harvested cropland ....farms ..	52 348	1.1	1 124	41.4	2.1	.9
acres..	18 794 787	.8	51 203	48.6	.3	.1
Farms by value of sales:						
Less than $1,000	4 244	1.3	607	57.8	12.5	6.3
$1,000 to $2,499	4 143	1.3	689	59.2	14.3	7.2
Less than $2,500	8 387	1.3	1 297	40.9	13.4	4.7
$2,500 or more	54 891	1.1	875	43.4	1.6	.7
$2,500 to $9,999	13 426	1.1	661	52.2	4.7	2.3
$10,000 or more	41 465	1.2	214	76.5	.5	.4
Market value of agricultural products sold ....$1,000 ..	8 315 965	.3	8 966	36.3	.1	(L)
Farms by standard industrial classification:						
Crops (01)	33 239	1.1	851	51.9	2.5	1.3
Livestock (02)	30 039	1.0	1 320	36.8	4.2	1.5
Farms by type of organization:						
Individual or family	54 952	1.1	1 943	30.6	3.4	1.0
Partnership or corporation	7 908	.9	228	100.1	2.8	2.7
Other	418	1.8	–	(X)	–	(X)
Farms by tenure of operator:						
Full owners	26 947	1.1	1 609	34.7	5.6	1.8
Part owners and tenants	36 331	1.1	562	43.5	1.5	.7
Part owners	27 243	1.2	428	54.9	1.5	.8
Tenants	9 088	1.2	134	62.6	1.5	.9
Operators by place of residence:						
On farm operated	42 269	1.1	1 629	35.8	3.7	1.3
Not on farm operated	16 511	1.1	476	59.3	2.8	1.6
Not reported	4 498	1.1	67	99.9	1.5	1.4
Operators by principal occupation:						
Farming	39 324	1.2	601	56.5	1.5	.8
Other	23 954	1.1	1 570	35.2	6.2	2.0
Operators by sex:						
Male	60 094	1.1	1 786	30.1	2.9	.8
Female	3 184	1.2	386	71.3	10.8	6.9
Operators by race:						
White	63 032	1.1	2 014	30.6	3.1	.9
Black and other races	246	2.3	157	100.1	39.0	23.8
Operators by years on present farm:						
4 years or less	6 301	1.2	408	61.4	6.1	3.5
5 years or more	46 297	1.1	1 659	35.9	3.5	1.2
Average years on present farm	22.3	1.6	11.3	26.8	(X)	(X)
Not reported	10 680	1.1	105	69.0	1.0	.7
Average age of operator	53.2	.1	49.4	8.2	(X)	(X)

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

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

TIPS [UPF] BATCH_1166 [ACEN,C_ARLEDGE] 4/ 7/94 6:29 AM MACHINE: EPCV23 DATA:VOL1_TIPS_APX_47.TIPS;1 * 3/29/94 13:57:00 TAPE: NOreel FRAME: 30
TSF:TIPS92-13572900.DAT;1 3/29/94 13:57:38 UTF:TIPS93-13572900.DAT;1 3/29/94 13:57:39 META:VOL1_TIPS96_APX_47.DAT;2 3/29/94 13:58:53