

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 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.

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 census 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	19.0
Land in farms.....	12.1
Estimated market value of land and buildings ¹	11.8
Market value of agricultural products sold	3.9
Harvested cropland	10.2
Corn for grain or seed	21.5
Wheat for grain	-
Livestock and poultry inventory:	
Cattle and calves	10.9
Hogs and pigs	6.0
Hens and pullets of laying age.....	.6

¹Data are based on a sample of farms.

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. In Rhode Island, sampling error in the census data results only from the nonresponse sample.

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. In Rhode Island, both complete count and sample 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 included under the following section headings: farm production expenditures, fertilizer and chemical usage, farm machinery and equipment, value of land and buildings, and farm-related income.

Table B provides the generalized reliability estimates of the estimated number of farms in a county reporting complete count and sample count items. These are derived from regression equations. The 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.

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

Farms	Relative standard error of estimate (percent)
COMPLETE COUNT ITEM	
Number of farms reporting:	
25	5.4
50	3.0
75	1.6
100	1.4
150	1.1
200	1.0
3008
500	(X)
750	(X)
1,000	(X)
1,500	(X)
2,000	(X)
SAMPLE COUNT ITEM	
Number of farms reporting:	
25	6.3
50	4.4
75	3.5
100	3.0
150	2.4
200	2.0
300	1.5
500	(X)
750	(X)
1,000	(X)
1,500	(X)
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. Both parts of the table reflect the variability from the nonresponse survey for the items of interest.

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 are 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 was 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 census report forms. Nonresponse to particular questions

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

Processing Error

All phases of processing for each report form are sources for the introduction of nonsampling error. The processing of the report forms includes clerical screening for farm activity, computerized check-in of report forms and follow-up of nonrespondents, keying and transmittal of completed report forms, computerized editing of inconsistent and missing data, review and correction of individual records referred from the computer edit, review and correction of tabulated data, and electronic data processing. These operations undergo a number of quality control checks to ensure as accurate an application as possible, yet some errors are not detected and corrected.

Classification Error

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

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

EDITING DATA AND IMPUTATION FOR ITEM NONRESPONSE

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

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

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

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

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

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

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

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

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

the possible imputation variables were reset to the default values and relationships for subsequent executions.

After the initial computer edit, keyed reports not meeting the census farm definition were reviewed to ensure that the data were keyed correctly. Edit referrals were

generated for about 25 percent of the reports included as farms; they were reviewed for keying accuracy to ensure that the computer edit actions were correct. If the results of the computer edit were not acceptable, corrections were made and the record was reedited.

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

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

Item	Total	Relative standard error of estimate (percent)	Item	Total	Relative standard error of estimate (percent)
FARMS AND LAND IN FARMS			FARM PRODUCTION EXPENSES¹		
Farms ----- number ..	649	1.2	Total farm production expenses ----- farms ..	649	1.7
Land in farms ----- acres ..	49 601	1.4	Average per farm ----- dollars ..	32 436	.5
Average size of farm ----- acres ..	76	1.8		49 978	1.8
MARKET VALUE OF AGRICULTURAL PRODUCTS SOLD			NET CASH RETURN FROM AGRICULTURAL SALES FOR THE FARM UNIT (SEE TEXT)¹		
Total sales (see text) ----- farms ..	649	1.2	All farms ----- number ..	649	1.7
Average per farm ----- dollars ..	60 882	1.2	Average per farm ----- dollars ..	10 904	2.0
Farms by value of sales:			Farms with net gains ² ----- number ..	296	1.8
Less than \$1,000 (see text) ----- farms ..	107	3.6	Average net gain ----- dollars ..	32 956	1.9
\$1,000 to \$2,499 ----- farms ..	28	5.8	Farms with net losses ----- number ..	353	2.4
\$2,500 to \$4,999 ----- farms ..	68	4.5	Average net loss ----- dollars ..	7 588	3.2
\$5,000 to \$9,999 ----- farms ..	111	4.7	GOVERNMENT PAYMENTS AND OTHER FARM-RELATED INCOME		
\$10,000 to \$19,999 ----- farms ..	115	3.5	Government payments ----- farms ..	60	2.7
\$20,000 to \$24,999 ----- farms ..	420	3.5	Other farm-related income ¹ ----- farms ..	197	2.4
\$25,000 to \$39,999 ----- farms ..	85	3.9	Customwork and other agricultural services ----- farms ..	148	2.9
\$40,000 to \$49,999 ----- farms ..	590	4.0	Gross cash rent or share payments ----- farms ..	1 020	3.3
\$50,000 to \$99,999 ----- farms ..	76	3.5	Forest products and Christmas trees ----- farms ..	45	4.9
\$100,000 to \$249,999 ----- farms ..	1 045	3.5	Other farm-related income sources ----- farms ..	301	7.3
\$250,000 to \$499,999 ----- farms ..	23	6.4	COMMODITY CREDIT CORPORATION LOANS		
\$500,000 or more ----- farms ..	512	6.4	Total ----- farms ..	-	-
Sales by commodity or commodity group:			Total ----- dollars ..	-	-
Crops, including nursery and greenhouse crops ----- farms ..	424	1.4			
Grains ----- farms ..	27 431	.4			
Corn for grain ----- farms ..	12	8.1			
Wheat ----- farms ..	(D)	(D)			
Soybeans ----- farms ..	8	10.4			
Sorghum for grain ----- farms ..	25	5.8			
Barley ----- farms ..	-	-			
Oats ----- farms ..	-	-			
Other grains ----- farms ..	1	-			
Cotton and cottonseed ----- farms ..	(D)	(D)			
Tobacco ----- farms ..	4	12.2			
Hay, silage, and field seeds ----- farms ..	159	2.6			
Vegetables, sweet corn, and melons ----- farms ..	1 010	3.2			
Fruits, nuts, and berries ----- farms ..	126	2.6			
Nursery and greenhouse crops ----- farms ..	2 461	1.4			
Other crops ----- farms ..	91	3.2			
Livestock, poultry, and their products ----- farms ..	2 322	1.7			
Poultry and poultry products ----- farms ..	158	2.3			
Dairy products ----- farms ..	19 501	.4			
Cattle and calves ----- farms ..	23	4.8			
Hogs and pigs ----- farms ..	(D)	(D)			
Sheep, lambs, and wool ----- farms ..	279	1.9			
Other livestock and livestock products (see text) ----- farms ..	12 082	.7			
Value of agricultural products sold directly to individuals for human consumption (see text) ----- farms ..	52	4.6			
	4 758	3			
	41	3.2			
	5 024	1.4			
	162	2.5			
	880	2.5			
	41	5.8			
	744	4.4			
	53	4.8			
	49	6.0			
	63	4.2			
	626	2.4			
	127	2.9			
	1 578	1.8			

See footnotes at end of table.

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

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

Item	Total	Relative standard error of estimate (percent)	Item	Total	Relative standard error of estimate (percent)
LAND IN FARMS ACCORDING TO USE			TENURE OF OPERATOR		
Total cropland ----- farms ..	591	1.2	All operators ----- farms ..	649	1.2
Harvested cropland ----- farms ..	24 411	1.1	Full owners ----- farms ..	49 601	1.4
1 to 9 acres ----- farms ..	517	1.3	Part owners ----- farms ..	421	1.6
10 to 19 acres ----- farms ..	18 136	1.1	Tenants ----- farms ..	25 498	2.2
20 to 29 acres ----- farms ..	215	2.4	Tenants ----- farms ..	162	2.1
30 to 49 acres ----- farms ..	698	3.1	Tenants ----- farms ..	20 473	1.9
50 to 99 acres ----- farms ..	82	3.8	Tenants ----- farms ..	66	3.6
100 to 199 acres ----- farms ..	1 069	3.9	Tenants ----- farms ..	3 630	3.1
200 to 499 acres ----- farms ..	51	4.7	OWNED AND RENTED LAND		
500 to 999 acres ----- farms ..	1 173	4.6	Land owned ----- farms ..	583	1.3
1,000 acres or more ----- farms ..	58	3.9	Owned land in farms ----- farms ..	37 446	1.7
1,000 acres or more ----- farms ..	2 150	4.0	Owned land in farms ----- farms ..	583	1.3
1,000 acres or more ----- farms ..	75	2.5	Owned land in farms ----- farms ..	36 663	1.7
1,000 acres or more ----- farms ..	5 186	2.4	Land rented or leased from others ----- farms ..	228	1.8
1,000 acres or more ----- farms ..	22	4.4	Rented or leased land in farms ----- farms ..	13 372	1.6
1,000 acres or more ----- farms ..	(D)	—	Rented or leased land in farms ----- farms ..	584	2.0
1,000 acres or more ----- farms ..	12	—	Rented or leased land in farms ----- farms ..	228	1.8
1,000 acres or more ----- farms ..	3 794	—	Rented or leased land in farms ----- farms ..	12 938	1.6
1,000 acres or more ----- farms ..	2	(D)	Land rented or leased to others ----- farms ..	38	5.2
1,000 acres or more ----- farms ..	(D)	(D)	Land rented or leased to others ----- farms ..	1 217	9.1
1,000 acres or more ----- farms ..	—	—	OPERATOR CHARACTERISTICS		
1,000 acres or more ----- farms ..	—	—	Operators by place of residence:		
1,000 acres or more ----- farms ..	—	—	On farm operated ----- farms ..	514	1.4
1,000 acres or more ----- farms ..	—	—	Not on farm operated ----- farms ..	98	2.8
1,000 acres or more ----- farms ..	—	—	Not reported ----- farms ..	37	5.3
1,000 acres or more ----- farms ..	—	—	Operators by principal occupation:		
1,000 acres or more ----- farms ..	—	—	Farming ----- farms ..	333	1.4
1,000 acres or more ----- farms ..	—	—	Other ----- farms ..	316	2.0
1,000 acres or more ----- farms ..	—	—	Operators by days worked off farm:		
1,000 acres or more ----- farms ..	—	—	Any ----- farms ..	323	1.9
1,000 acres or more ----- farms ..	—	—	200 days or more ----- farms ..	202	2.5
1,000 acres or more ----- farms ..	—	—	Operators by sex:		
1,000 acres or more ----- farms ..	—	—	Male ----- farms ..	559	1.2
1,000 acres or more ----- farms ..	—	—	Male ----- farms ..	45 405	1.4
1,000 acres or more ----- farms ..	—	—	Female ----- farms ..	90	3.6
1,000 acres or more ----- farms ..	—	—	Female ----- farms ..	4 196	3.6
1,000 acres or more ----- farms ..	—	—	Average age of operator ----- years ..	53.4	1.7
1,000 acres or more ----- farms ..	—	—	FARMS BY TYPE OF ORGANIZATION		
1,000 acres or more ----- farms ..	—	—	Individual or family (sole proprietorship) ----- farms ..	529	1.4
1,000 acres or more ----- farms ..	—	—	Individual or family (sole proprietorship) ----- farms ..	35 296	1.8
1,000 acres or more ----- farms ..	—	—	Partnership ----- farms ..	42	4.5
1,000 acres or more ----- farms ..	—	—	Partnership ----- farms ..	5 316	3.7
1,000 acres or more ----- farms ..	—	—	Corporation:		
1,000 acres or more ----- farms ..	—	—	Family held ----- farms ..	72	2.8
1,000 acres or more ----- farms ..	—	—	Family held ----- farms ..	(D)	(D)
1,000 acres or more ----- farms ..	—	—	More than 10 stockholders ----- farms ..	1	—
1,000 acres or more ----- farms ..	—	—	10 or less stockholders ----- farms ..	71	2.9
1,000 acres or more ----- farms ..	—	—	Other than family held ----- farms ..	1	35.0
1,000 acres or more ----- farms ..	—	—	Other than family held ----- farms ..	(D)	(D)
1,000 acres or more ----- farms ..	—	—	More than 10 stockholders ----- farms ..	—	—
1,000 acres or more ----- farms ..	—	—	10 or less stockholders ----- farms ..	1	35.0
1,000 acres or more ----- farms ..	—	—	Other—cooperative, estate or trust, institutional, etc. ----- farms ..	5	10.7
1,000 acres or more ----- farms ..	—	—	Other—cooperative, estate or trust, institutional, etc. ----- farms ..	516	4.2
1,000 acres or more ----- farms ..	—	—	HIRED FARM LABOR		
1,000 acres or more ----- farms ..	—	—	Hired workers by days worked:		
1,000 acres or more ----- farms ..	—	—	150 days or more ----- farms ..	121	1.8
1,000 acres or more ----- farms ..	—	—	150 days or more ----- farms ..	565	.7
1,000 acres or more ----- farms ..	—	—	Less than 150 days ----- farms ..	197	2.1
1,000 acres or more ----- farms ..	—	—	Less than 150 days ----- farms ..	770	1.6
1,000 acres or more ----- farms ..	—	—	INJURIES AND DEATHS		
1,000 acres or more ----- farms ..	—	—	Farm-related injuries:		
1,000 acres or more ----- farms ..	—	—	Operator and family members ----- farms ..	5	15.1
1,000 acres or more ----- farms ..	—	—	Operator and family members ----- farms ..	6	16.2
1,000 acres or more ----- farms ..	—	—	Hired workers ----- farms ..	9	—
1,000 acres or more ----- farms ..	—	—	Hired workers ----- farms ..	11	—
1,000 acres or more ----- farms ..	—	—	Farm-related deaths:		
1,000 acres or more ----- farms ..	—	—	Operator and family members ----- farms ..	—	—
1,000 acres or more ----- farms ..	—	—	Operator and family members ----- farms ..	—	—
1,000 acres or more ----- farms ..	—	—	Hired workers ----- farms ..	—	—
1,000 acres or more ----- farms ..	—	—	Hired workers ----- farms ..	—	—

See footnotes at end of table.

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

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

Item	Total	Relative standard error of estimate (percent)	Item	Total	Relative standard error of estimate (percent)
FARMS BY SIZE			LIVESTOCK		
1 to 9 acres ----- farms ..	128	3.1	Cattle and calves inventory ----- farms ..	208	2.3
----- acres ..	488	3.8	----- number ..	6 057	1.7
10 to 49 acres ----- farms ..	237	2.2	Beef cows ----- farms ..	133	3.0
----- acres ..	5 692	2.4	----- number ..	967	4.4
50 to 69 acres ----- farms ..	70	3.7	Milk cows ----- farms ..	55	3.5
----- acres ..	4 056	3.7	----- number ..	2 565	1.7
70 to 99 acres ----- farms ..	59	4.2	Cattle and calves sold ----- farms ..	162	2.5
----- acres ..	4 814	4.3	----- number ..	2 509	1.7
100 to 139 acres ----- farms ..	61	3.7	----- \$1,000 ..	880	2.5
----- acres ..	7 182	3.7	Hogs and pigs inventory ----- farms ..	48	5.2
140 to 179 acres ----- farms ..	25	5.3	----- number ..	5 488	3.3
----- acres ..	3 916	5.4	Hogs and pigs sold ----- farms ..	41	5.8
180 to 219 acres ----- farms ..	28	5.1	----- number ..	6 011	5.0
----- acres ..	5 491	5.0	----- \$1,000 ..	744	4.4
220 to 259 acres ----- farms ..	5	8.5	Sheep and lambs of all ages inventory ----- farms ..	62	4.6
----- (D)	(D)	(D)	----- number ..	1 355	11.1
260 to 499 acres ----- farms ..	24	4.7	Sheep and lambs sold ----- farms ..	49	5.1
----- acres ..	8 179	4.3	----- number ..	771	6.6
500 to 999 acres ----- farms ..	10	5.1	Horses and ponies inventory ----- farms ..	152	2.7
----- acres ..	5 840	5.5	----- number ..	1 015	3.2
1,000 to 1,999 acres ----- farms ..	2	—	Horses and ponies sold ----- farms ..	24	6.9
----- acres ..	(D)	(D)	----- number ..	108	5.9
2,000 acres or more ----- farms ..	—	—			
----- acres ..	—	—			
FARMS BY STANDARD INDUSTRIAL CLASSIFICATION			POULTRY		
Cash grains (011) ----- farms ..	2	24.3	Chickens 3 months old or older inventory ----- farms ..	83	3.8
----- acres ..	(D)	(D)	----- number ..	242 307	.3
Field crops, except cash grains (013) ----- farms ..	112	3.2	Hens and pullets of laying age ----- farms ..	83	3.8
----- acres ..	12 127	2.6	----- number ..	242 095	.3
Vegetables and melons (016) ----- farms ..	72	3.8	Broilers and other meat-type chickens sold ----- farms ..	5	16.2
----- acres ..	4 563	5.4	----- number ..	(D)	(D)
Fruits and tree nuts (017) ----- farms ..	60	4.0	CROPS HARVESTED		
----- acres ..	2 852	5.6	Corn for silage or green chop ----- farms ..	72	3.0
Horticultural specialties (018) ----- farms ..	136	2.4	----- acres ..	2 949	2.3
----- acres ..	8 640	1.9	----- tons, green ..	49 638	1.8
General farms, primarily crop (019) ----- farms ..	13	10.2	----- farms ..	19	5.7
----- acres ..	(D)	(D)	----- acres ..	1 310	.2
Livestock, except dairy, poultry, and animal specialties (021) ----- farms ..	126	3.2	----- cwt ..	374 808	.1
----- acres ..	8 933	5.3	Hay—alfalfa, other tame, small grain, wild, grass silage, green chop, etc. (see text) ----- farms ..	245	2.1
Dairy farms (024) ----- farms ..	41	3.2	----- acres ..	7 614	2.3
----- acres ..	7 578	2.4	----- tons, dry ..	15 864	2.6
Poultry and eggs (025) ----- farms ..	21	6.6	Vegetables harvested for sale (see text) ----- farms ..	126	2.6
----- acres ..	1 554	6.6	----- acres ..	1 868	2.6
Animal specialties (027) ----- farms ..	60	4.2	----- farms ..	72	3.6
----- acres ..	1 827	6.5	Land in orchards ----- farms ..	664	4.5
General farms, primarily livestock and animal specialties (029) ----- farms ..	6	14.8			
----- acres ..	394	14.5			

¹Data are based on a sample of farms.

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

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

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

Item	Total	Relative standard error of estimate (percent)	Item	Total	Relative standard error of estimate (percent)
FARMS AND LAND IN FARMS			FARM PRODUCTION EXPENSES¹		
Farms ----- number ..	274	1.2	Total farm production expenses ----- farms ..	274	1.6
Land in farms ----- acres ..	32 379	1.3	Average per farm ----- \$1,000 ..	29 478	.4
Average size of farm ----- acres ..	118	1.8	----- dollars ..	107 583	1.6
MARKET VALUE OF AGRICULTURAL PRODUCTS SOLD			Livestock and poultry purchased ----- farms ..		
Total sales (see text) ----- farms ..	274	1.2	----- \$1,000 ..	1 025	1.2
Average per farm ----- \$1,000 ..	38 364	.3	----- farms ..	103	2.5
----- dollars ..	140 014	1.3	Commercially mixed formula feeds ----- farms ..	4 020	.8
Farms by value of sales:			----- \$1,000 ..	73	2.8
\$10,000 to \$19,999 ----- farms ..	76	3.5	----- farms ..	3 209	.6
----- \$1,000 ..	1 045	3.5	Seeds, bulbs, plants, and trees ----- farms ..	164	1.7
\$20,000 to \$24,999 ----- farms ..	23	6.4	----- \$1,000 ..	1 306	.6
----- \$1,000 ..	512	6.4	Commercial fertilizer ----- farms ..	216	1.7
\$25,000 to \$39,999 ----- farms ..	36	4.8	----- \$1,000 ..	1 195	.7
----- \$1,000 ..	1 075	4.7	Agricultural chemicals ----- farms ..	190	1.8
\$40,000 to \$49,999 ----- farms ..	13	8.0	----- \$1,000 ..	866	.8
----- \$1,000 ..	564	8.0	Petroleum products ----- farms ..	271	1.6
\$50,000 to \$99,999 ----- farms ..	49	3.4	----- \$1,000 ..	1 305	.7
----- \$1,000 ..	3 360	3.2	Electricity ----- farms ..	228	1.6
\$100,000 to \$249,999 ----- farms ..	45	—	----- \$1,000 ..	655	.7
----- \$1,000 ..	7 143	—	Hired farm labor ----- farms ..	169	1.7
\$250,000 to \$499,999 ----- farms ..	12	—	----- \$1,000 ..	8 866	1.3
----- \$1,000 ..	4 296	—	Contract labor ----- farms ..	33	3.2
\$500,000 or more ----- farms ..	20	—	----- \$1,000 ..	491	1.3
----- \$1,000 ..	20 369	—	Repair and maintenance ----- farms ..	259	1.6
Sales by commodity or commodity group:			----- \$1,000 ..	2 065	.7
Crops, including nursery and greenhouse crops ----- farms ..	216	1.5	Customwork, machine hire, and rental of machinery and equipment ----- farms ..	74	2.6
----- \$1,000 ..	26 677	.4	----- \$1,000 ..	229	.8
Grains ----- farms ..	9	7.7	Interest expense ----- farms ..	129	1.8
----- \$1,000 ..	(D)	(D)	----- \$1,000 ..	1 246	1.3
Corn for grain ----- farms ..	5	9.7	Secured by real estate ----- farms ..	89	2.3
----- \$1,000 ..	(D)	(D)	----- \$1,000 ..	980	1.5
Wheat ----- farms ..	—	—	Not secured by real estate ----- farms ..	62	2.3
----- \$1,000 ..	—	—	----- \$1,000 ..	266	1.4
Soybeans ----- farms ..	—	—	Cash rent ----- farms ..	102	2.0
----- \$1,000 ..	—	—	----- \$1,000 ..	857	.4
Sorghum for grain ----- farms ..	—	—	Property taxes ----- farms ..	249	1.6
----- \$1,000 ..	—	—	----- \$1,000 ..	1 267	1.6
Barley ----- farms ..	—	—	All other farm production expenses ----- farms ..	271	1.6
----- \$1,000 ..	—	—	----- \$1,000 ..	4 086	.5
Oats ----- farms ..	1	—	NET CASH RETURN FROM AGRICULTURAL SALES FOR THE FARM UNIT (SEE TEXT)¹		
----- \$1,000 ..	(D)	(D)	All farms ----- number ..	274	1.6
Other grains ----- farms ..	4	12.2	----- \$1,000 ..	8 886	.5
----- \$1,000 ..	(D)	(D)	Average per farm ----- dollars ..	32 430	1.7
Cotton and cottonseed ----- farms ..	—	—	Farms with net gains ² ----- number ..	197	1.7
----- \$1,000 ..	—	—	----- \$1,000 ..	9 551	.5
Tobacco ----- farms ..	—	—	Average net gain ----- dollars ..	48 483	1.8
----- \$1,000 ..	—	—	Farms with net losses ----- number ..	77	3.2
Hay, silage, and field seeds ----- farms ..	59	3.2	----- \$1,000 ..	665	2.9
----- \$1,000 ..	692	4.3	Average net loss ----- dollars ..	8 639	4.3
Vegetables, sweet corn, and melons ----- farms ..	77	2.7	GOVERNMENT PAYMENTS AND OTHER FARM-RELATED INCOME		
----- \$1,000 ..	2 347	1.4	Government payments ----- farms ..	40	1.4
Fruits, nuts, and berries ----- farms ..	54	3.6	----- \$1,000 ..	173	1.4
----- \$1,000 ..	2 218	1.7	Other farm-related income ¹ ----- farms ..	57	3.3
Nursery and greenhouse crops ----- farms ..	105	2.4	----- \$1,000 ..	529	3.4
----- \$1,000 ..	19 303	.4	Customwork and other agricultural services ----- farms ..	17	6.9
Other crops ----- farms ..	18	4.7	----- \$1,000 ..	352	3.6
----- \$1,000 ..	(D)	(D)	Gross cash rent or share payments ----- farms ..	14	5.6
Livestock, poultry, and their products ----- farms ..	105	2.2	----- \$1,000 ..	26	4.5
----- \$1,000 ..	11 687	.7	Forest products and Christmas trees ----- farms ..	14	8.2
Poultry and poultry products ----- farms ..	23	5.1	----- \$1,000 ..	91	10.0
----- \$1,000 ..	4 723	.3	Other farm-related income sources ----- farms ..	22	4.1
Dairy products ----- farms ..	38	2.8	----- \$1,000 ..	59	10.2
----- \$1,000 ..	5 011	1.4	COMMODITY CREDIT CORPORATION LOANS		
Cattle and calves ----- farms ..	73	2.5	Total ----- farms ..	—	—
----- \$1,000 ..	698	2.8	----- \$1,000 ..	—	—
Hogs and pigs ----- farms ..	18	7.4			
----- \$1,000 ..	707	4.6			
Sheep, lambs, and wool ----- farms ..	8	11.1			
----- \$1,000 ..	3	14.9			
Other livestock and livestock products (see text) ----- farms ..	18	6.6			
----- \$1,000 ..	545	2.5			
Value of agricultural products sold directly to individuals for human consumption (see text) ----- farms ..	48	3.6			
----- \$1,000 ..	1 404	1.9			

See footnotes at end of table.

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

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

Item	Total	Relative standard error of estimate (percent)	Item	Total	Relative standard error of estimate (percent)
LAND IN FARMS ACCORDING TO USE			FARMS BY TYPE OF ORGANIZATION		
Total cropland ----- farms ..	259	1.3	Individual or family (sole proprietorship) ----- farms ..	195	1.6
Harvested cropland ----- acres..	17 840	1.1	Partnership ----- acres..	20 042	1.9
Harvested cropland ----- farms ..	250	1.3	Partnership ----- farms ..	22	5.7
Cropland: ----- acres..	14 170	1.1	Corporation: ----- acres..	4 287	3.4
Pasture or grazing only ----- farms ..	79	2.5	Family held ----- farms ..	56	2.7
Pasture or grazing only ----- acres..	(D)	(D)	More than 10 stockholders ----- farms ..	(D)	(D)
More than 10 stockholders ----- farms ..	134	2.0	10 or less stockholders ----- farms ..	1	—
10 or less stockholders ----- acres..	9 997	2.2	Other than family held ----- farms ..	—	—
Total woodland ----- farms ..	33	4.6	More than 10 stockholders ----- farms ..	—	—
Pastureland and rangeland other than cropland and woodland pastured ----- farms ..	1 222	8.1	10 or less stockholders ----- farms ..	—	—
Land in house lots, ponds, roads, wasteland, etc. ----- farms ..	160	1.7	Other—cooperative, estate or trust, institutional, etc. ----- farms ..	1	—
Irrigated land ----- farms ..	3 320	2.3	Irrigated ----- acres..	(D)	(D)
Harvested cropland irrigated ----- farms ..	92	2.2			
Harvested cropland irrigated ----- acres..	2 904	.7			
Pasture and other land irrigated ----- farms ..	92	2.2			
Pasture and other land irrigated ----- acres..	(D)	(D)			
Land under federal acreage reduction programs: ----- farms ..	—	—			
Diverted under annual commodity programs ----- farms ..	—	—			
Conservation Reserve or Wetlands Reserve Programs ----- farms ..	8	5.3			
Conservation Reserve or Wetlands Reserve Programs ----- acres..	(D)	(D)			
VALUE OF LAND AND BUILDINGS ¹			HIRED FARM LABOR		
Estimated market value of land and buildings ----- farms ..	274	1.6	Hired workers by days worked: ----- farms ..	103	1.5
Average per farm ----- \$1,000..	193 927	1.3	150 days or more ----- workers..	543	.7
Average per acre ----- dollars	707 764	2.0	Less than 150 days ----- farms ..	133	2.0
	5 989	1.9	Less than 150 days ----- workers..	652	1.3
VALUE OF MACHINERY AND EQUIPMENT ¹			INJURIES AND DEATHS		
Estimated market value of all machinery and equipment ----- farms ..	274	1.6	Farm-related injuries: ----- farms ..	3	16.3
Average per farm ----- \$1,000..	17 613	1.3	Operator and family members ----- farms ..	(D)	(D)
Average per acre ----- dollars	64 282	2.0	Hired workers ----- farms ..	9	—
			Hired workers ----- number..	11	—
AGRICULTURAL CHEMICALS¹			FARM-RELATED DEATHS:		
Commercial fertilizer ----- farms ..	215	1.7	Operator and family members ----- farms ..	—	—
Acres on which used ----- acres..	12 301	1.1	Hired workers ----- farms ..	—	—
			Hired workers ----- number..	—	—
TENURE OF OPERATOR			FARMS BY SIZE		
All operators ----- farms ..	274	1.2	1 to 9 acres ----- farms ..	31	5.2
Full owners ----- farms ..	32 379	1.3	10 to 49 acres ----- farms ..	79	3.1
Part owners ----- farms ..	137	2.1	50 to 69 acres ----- farms ..	35	4.6
Tenants ----- farms ..	12 846	2.3	70 to 99 acres ----- farms ..	21	4.8
	103	2.0	100 to 139 acres ----- farms ..	36	3.3
	16 604	1.8	140 to 179 acres ----- farms ..	17	4.6
	34	4.1	180 to 219 acres ----- farms ..	19	4.5
	2 929	2.9	220 to 259 acres ----- farms ..	5	8.5
			260 to 499 acres ----- farms ..	21	4.9
			500 to 999 acres ----- farms ..	8	—
			1,000 to 1,999 acres ----- farms ..	2	—
			2,000 acres or more ----- farms ..	—	—
OWNED AND RENTED LAND			FARMS BY STANDARD INDUSTRIAL CLASSIFICATION		
Land owned ----- farms ..	240	1.4	Cash grains (011) ----- farms ..	1	—
Owned land in farms ----- farms ..	22 296	1.5	Field crops, except cash grains (013) ----- farms ..	30	4.1
Owned land in farms ----- acres..	240	1.4	Vegetables and melons (016) ----- farms ..	39	4.3
Rented or leased land in farms ----- farms ..	22 069	1.6	Fruits and tree nuts (017) ----- farms ..	30	4.5
Land rented or leased from others ----- farms ..	137	1.7	Horticultural specialties (018) ----- farms ..	92	2.6
Rented or leased land in farms ----- farms ..	10 582	1.5	General farms, primarily crop (019) ----- farms ..	4	9.6
Rented or leased land in farms ----- landlords..	426	2.2	Livestock, except dairy, poultry, and animal specialties (021) ----- farms ..	19	7.2
Rented or leased land in farms ----- farms ..	137	1.7	Dairy farms (024) ----- farms ..	38	2.8
Rented or leased land in farms ----- acres..	10 310	1.5	Poultry and eggs (025) ----- farms ..	10	5.5
Land rented or leased to others ----- farms ..	17	5.6	Animal specialties (027) ----- farms ..	7	10.7
Rented or leased to others ----- farms ..	499	9.1	General farms, primarily livestock and animal specialties (029) ----- farms ..	4	17.0
OPERATOR CHARACTERISTICS			LIVESTOCK		
Operators by place of residence: ----- farms ..	200	1.6	Cattle and calves inventory ----- farms ..	79	2.5
On farm operated ----- farms ..	60	2.7	Beef cows ----- farms ..	4 618	1.6
Not on farm operated ----- farms ..	14	7.4	Milk cows ----- farms ..	37	4.2
Not reported ----- farms ..	14	7.4	Milk cows ----- farms ..	363	5.8
Operators by principal occupation: ----- farms ..	202	1.4	Milk cows ----- farms ..	40	2.8
Farming ----- farms ..	72	3.4	Milk cows ----- number..	2 524	1.7
Other ----- farms ..	72	3.4	Cattle and calves sold ----- farms ..	73	2.5
Operators by days worked off farm: ----- farms ..	90	2.9	Hogs and pigs sold ----- farms ..	2 063	1.8
Any ----- farms ..	52	4.0	Hogs and pigs sold ----- \$1,000..	698	2.8
200 days or more ----- farms ..	52	4.0	Hogs and pigs sold ----- farms ..	20	6.7
Operators by sex: ----- farms ..	248	1.3	Hogs and pigs sold ----- farms ..	5 226	3.4
Male ----- farms ..	26	5.7	Hogs and pigs sold ----- farms ..	18	7.4
Female ----- farms ..	26	5.7	Hogs and pigs sold ----- \$1,000..	5 652	5.3
Average age of operator ----- years ..	54.0	1.8	Hogs and pigs sold ----- number..	707	4.6
			Sheep and lambs of all ages inventory ----- farms ..	8	11.1
			Sheep and lambs of all ages inventory ----- number..	115	12.8
			Sheep and lambs sold ----- farms ..	7	12.7
			Sheep and lambs sold ----- farms ..	57	14.1
			Sheep and lambs sold ----- number..	57	14.1
			Horses and ponies inventory ----- farms ..	39	4.2
			Horses and ponies inventory ----- farms ..	294	6.2
			Horses and ponies sold ----- farms ..	9	9.9
			Horses and ponies sold ----- number..	72	7.6

See footnotes at end of table.

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

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

Item	Total	Relative standard error of estimate (percent)	Item	Total	Relative standard error of estimate (percent)
POULTRY			CROPS HARVESTED—Con.		
Chickens 3 months old or older inventory -----farms -- number..	21	5.8	Irish potatoes ----- farms --	13	5.7
Hens and pullets of laying age -----farms -- number..	21	(D) 5.8	acres..	1 298	.1
	238 387	.2	cwt..	372 405	(L)
Broilers and other meat-type chickens sold -----farms -- number..	4	16.4	Hay—alfalfa, other tame, small grain, wild, grass silage, green chop, etc. (see text) -----farms --	96	2.3
	(D)	(D)	acres..	4 364	3.0
CROPS HARVESTED			tons, dry..	10 604	3.4
Corn for silage or green chop -----farms --	48	2.7	Vegetables harvested for sale (see text) -----farms --	77	2.7
acres..	2 464	2.0	acres..	1 753	2.7
tons, green..	42 973	1.3	Land in orchards -----farms --	38	4.3
			acres..	579	5.1

¹Data are based on a sample of farms.

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

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

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

Item	All farms		Farms with sales of \$10,000 or more	
	Percent change from 1987 to 1992	Standard error of estimate	Percent change from 1987 to 1992	Standard error of estimate
Farms..... number..	-7.4	1.5	9.6	1.6
Land in farms..... acres..	-15.5	1.7	11.4	2.0
Average size of farm..... acres..	-9.5	2.4	1.7	2.3
Estimated market value of land and buildings ¹ :				
Average per farm.....dollars..	14.6	6.0	5.6	2.8
Average per acre.....dollars..	32.8	10.4	4.7	5.2
Estimated market value of all machinery and equipment ¹ :				
Average per farm.....dollars..	5.0	3.7	-14.9	2.3
Farms by size:				
1 to 9 acres.....	-2.3	4.0	14.8	7.0
10 to 49 acres.....	-5.2	2.9	12.9	4.4
50 to 179 acres.....	-10.8	2.5	2.8	2.9
180 to 499 acres.....	-13.6	4.2	15.4	5.2
500 to 999 acres.....	-9.1	5.9	-	-
1,000 to 1,999 acres.....	-	-	-	-
2,000 acres or more.....	-	-	-	-
Total cropland.....farms..	-1.0	1.7	15.1	1.8
Harvested cropland.....acres..	-6.5	1.6	-1.2	1.4
Irrigated land.....farms..	-1.1	1.8	17.4	1.9
.....acres..	-2.0	1.7	1.7	1.5
Market value of agricultural products sold.....\$1,000..	4.6	.6	4.7	.5
Average per farm.....dollars..	12.9	2.0	-4.4	1.5
Crops, including nursery and greenhouse crops.....\$1,000..	2.8	.5	2.4	.5
Livestock, poultry, and their products.....\$1,000..	8.8	1.6	10.6	1.5
Farms by value of sales:				
Less than \$2,500.....	-39.7	1.6	(X)	(X)
\$2,500 to \$4,999.....	45.6	7.7	(X)	(X)
\$5,000 to \$9,999.....	3.7	5.6	(X)	(X)
\$10,000 to \$24,999.....	25.3	5.8	25.3	5.8
\$25,000 to \$49,999.....	19.5	6.7	19.5	6.7
\$50,000 to \$99,999.....	-10.9	4.6	-10.9	4.6
\$100,000 to \$249,999.....	4.7	-	4.7	-
\$250,000 to \$499,999.....	-20.0	-	-20.0	-
\$500,000 or more.....	17.6	-	17.6	-
Total farm production expenses ¹\$1,000..	9.1	2.2	11.5	1.9
Average per farm.....dollars..	18.0	3.0	-5.6	2.1
Net cash return from agricultural sales for the farm unit (see text) ¹farms..	-7.5	2.1	18.1	2.5
Average per farm.....\$1,000..	-4.9	3.1	-5.2	2.1
.....dollars..	2.8	4.1	-19.8	2.5
Operators by principal occupation:				
Farming.....	-3.5	2.0	4.1	1.8
Other.....	-11.2	2.4	28.6	5.5
Operators by days worked off farm:				
Any.....	-18.2	4.4	12.5	6.5
200 days or more.....	-22.9	4.3	23.8	7.9
Livestock and poultry:				
Cattle and calves inventory.....farms..	-17.8	2.5	-1.3	3.5
.....number..	-12.6	2.4	-12.4	2.3
Beef cows.....farms..	-14.7	3.5	37.0	9.2
.....number..	-14.7	5.2	-3.7	9.0
Milk cows.....farms..	-21.4	3.8	-25.9	3.1
.....number..	-13.8	2.7	-13.9	2.6
Cattle and calves sold.....farms..	-21.4	2.6	-7.6	3.3
.....number..	-23.0	2.3	-23.1	2.3
Hogs and pigs inventory.....farms..	-18.6	5.7	-	8.3
.....number..	16.3	5.8	23.3	6.3
Hogs and pigs sold.....farms..	-16.3	6.4	-10.0	7.9
.....number..	20.5	8.3	25.0	8.7
Sheep and lambs inventory.....farms..	-18.4	5.0	-11.1	12.0
.....number..	-18.4	10.2	38.6	18.8
Chickens 3 months old or older inventory.....farms..	-13.5	4.4	23.5	9.7
.....number..	17.7	1.5	(D)	(D)
Broilers and other meat-type chickens sold.....farms..	-16.7	17.9	33.3	30.9
.....number..	(D)	(D)	(D)	(D)
Selected crops harvested:				
Corn for grain or seed.....farms..	77.8	23.3	266.7	61.0
.....acres..	73.7	16.0	(D)	(D)
.....bushels..	48.7	15.8	(D)	(D)
Corn for silage or green chop.....farms..	-6.5	4.2	-2.0	4.2
.....acres..	46.9	5.5	40.2	5.2
.....tons, green..	47.0	5.3	44.9	5.2
Irish potatoes.....farms..	-13.6	6.9	-18.8	5.8
.....acres..	-7.1	1.9	-6.8	1.9
.....cwt..	44.2	3.3	44.4	3.3
Hay—alfalfa, other tame, small grain, wild, grass silage, green chop, etc. (see text).....farms..	-15.8	2.4	3.2	3.1
.....acres..	-6.3	3.2	3.0	4.1
.....tons, dry..	12.3	4.1	23.1	5.3
Vegetables harvested for sale (see text).....farms..	27.3	5.1	35.1	5.2
.....acres..	-4.1	4.4	-1.8	3.5
Land in orchards.....farms..	-13.3	4.4	15.2	7.4
.....acres..	-22.5	5.5	-11.2	7.5

¹Data are based on a sample of farms.

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

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

Geographic area	Farms		Land in farms		Average size of farm		Average market value of land and buildings per farm 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)		
Rhode Island ..	649	1.2	49 601	1.4	76	1.8	481 783	2.2	24 479	1.4		
Bristol	27	.9	1 468	1.7	54	1.9	666 476	4.2	930	3.2		
Kent	70	1.4	5 636	2.7	81	3.0	520 721	6.1	2 111	4.2		
Newport	120	1.1	9 631	2.6	80	2.8	676 582	4.0	5 462	2.9		
Providence	232	1.3	12 408	2.2	53	2.6	303 354	3.7	6 938	3.0		
Washington	200	1.2	20 458	2.2	102	2.5	533 319	3.4	9 037	1.6		
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)		
Rhode Island ..	37 718	2.2	39 512	.3	60 882	1.2	649	1.7	32 436	.5		
Bristol	34 456	5.0	2 095	1.2	77 595	1.5	27	3.8	1 453	1.2		
Kent	30 156	6.0	2 501	1.6	35 723	2.1	70	4.3	1 985	2.5		
Newport	45 519	4.2	11 710	.5	97 584	1.2	120	3.1	9 708	.7		
Providence	29 904	3.9	8 388	.8	36 156	1.5	232	2.5	7 180	1.1		
Washington	45 187	3.0	14 819	.3	74 093	1.3	200	2.5	12 110	.6		
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)
Rhode Island ..	147	2.9	1 130	1.3	288	2.4	4 320	.8	286	1.9	1 348	.7
Bristol	6	7.7	(D)	(D)	9	7.3	162	.3	18	4.3	17	2.1
Kent	12	9.7	(D)	(D)	32	5.9	186	3.4	29	6.0	44	3.7
Newport	24	7.3	191	5.6	47	5.3	694	3.8	60	3.6	691	.3
Providence	50	4.7	617	1.0	100	3.6	1 800	.5	94	3.2	130	4.7
Washington	55	4.5	252	2.5	100	3.6	1 479	1.1	85	3.1	466	1.2
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)
Rhode Island ..	408	1.8	1 332	.8	307	1.9	904	.8	607	1.7	1 487	.8
Bristol	22	3.8	51	.3	16	4.8	22	1.2	27	3.8	71	1.1
Kent	36	5.5	117	3.9	33	6.1	107	1.8	65	4.5	125	4.4
Newport	81	3.5	457	1.3	69	3.5	263	.8	114	3.1	399	1.3
Providence	145	2.8	174	2.8	98	3.0	158	3.9	219	2.4	314	1.8
Washington	124	2.8	533	1.1	91	3.0	354	.7	182	2.6	578	.9
Geographic area	Farm production expenses ¹ —Con.											
	Electricity				Hired farm labor				Contract labor			
	Farms		Value		Farms		Value		Farms		Value	
	Number	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)
Rhode Island ..	441	1.7	733	.7	237	1.8	9 076	.3	55	3.7	508	1.3
Bristol	21	3.6	23	3.4	6	7.7	(D)	(D)	1	32.5	(D)	(D)
Kent	40	5.6	37	4.0	27	5.9	(D)	(D)	5	9.4	(D)	(D)
Newport	86	3.2	183	1.2	60	3.3	4 098	.1	10	8.6	49	.6
Providence	153	2.6	184	1.9	73	3.1	1 131	1.5	21	6.1	77	4.7
Washington	141	2.7	307	.9	71	3.0	2 880	.3	18	6.4	274	2.0

See footnotes at end of table.

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

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

Geographic area	Farm production expenses ¹ —Con.											
	Repair and maintenance				Customwork, machine hire, and rental of machinery and equipment				Interest expense			
	Farms		Value		Farms		Value		Farms		Value	
	Number	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)
Rhode Island	560	1.7	2 406	.8	112	2.7	260	1.2	196	2.1	1 473	1.6
Bristol	27	3.8	97	1.4	7	6.6	7	7.2	11	3.0	37	2.3
Kent	57	4.6	202	2.8	15	7.6	79	.9	14	7.2	71	6.7
Newport	103	3.2	573	1.1	17	5.3	34	2.9	36	4.3	280	3.7
Providence	208	2.5	455	2.2	30	5.3	46	4.6	63	3.8	301	4.5
Washington	165	2.7	1 079	1.0	43	4.6	93	1.9	72	3.3	785	1.8
Geographic area	Farm production expenses ¹ —Con.											
	Cash rent				Property taxes paid				All other farm production expenses			
	Farms		Value		Farms		Value		Farms		Value	
	Number	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)
Rhode Island	141	2.2	909	.5	595	1.8	2 119	1.7	587	1.7	4 431	.5
Bristol	12	3.9	87	.2	23	4.2	68	1.8	26	3.7	123	4.3
Kent	11	10.3	19	8.9	65	4.5	279	5.9	61	4.5	264	2.4
Newport	42	4.2	288	.7	103	3.3	424	3.4	104	3.2	1 083	.8
Providence	27	4.5	116	1.8	215	2.5	632	2.9	215	2.5	1 046	1.4
Washington	49	3.6	399	.7	189	2.6	715	2.4	181	2.6	1 915	.5
Geographic area	Net cash return from agricultural sales for the farm unit (see text) ¹				Total cropland				Harvested cropland			
	Farms		Value		Farms		Acres		Farms		Acres	
	Number	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)
	Rhode Island	649	1.7	7 077	1.0	591	1.2	24 411	1.1	517	1.3	18 136
Bristol	27	3.8	(D)	(D)	26	1.6	1 227	1.6	25	1.7	876	.8
Kent	70	4.3	(D)	(D)	61	2.2	2 319	4.9	55	2.8	1 844	5.7
Newport	120	3.1	2 002	1.7	114	1.3	6 864	2.0	103	1.7	5 229	1.8
Providence	232	2.5	1 208	3.5	207	1.5	4 716	2.0	186	1.6	3 763	2.1
Washington	200	2.5	2 709	1.2	183	1.4	9 285	1.4	148	1.8	6 424	1.2
Geographic area	Irrigated land				Livestock and poultry							
	Farms		Acres		Cattle and calves inventory				Beef cows inventory			
	Farms		Total		Farms		Total		Farms		Total	
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)
Rhode Island	132	2.2	2 979	.7	208	2.3	6 057	1.7	133	3.0	967	4.4
Bristol	7	8.7	43	1.4	11	4.5	416	1.1	6	7.6	69	2.7
Kent	17	8.0	228	.9	19	6.3	598	7.5	10	9.9	191	13.4
Newport	19	2.5	441	.1	38	4.7	1 742	3.6	17	7.9	135	14.5
Providence	43	3.9	310	5.8	76	3.6	1 222	3.0	56	4.5	339	6.5
Washington	46	3.5	1 957	.6	64	3.5	2 079	2.1	44	4.6	233	5.6
Geographic area	Livestock and poultry —Con.											
	Milk cows inventory				Hogs and pigs inventory				Sheep and lambs inventory			
	Farms		Total		Farms		Total		Farms		Total	
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)
Rhode Island	55	3.5	2 565	1.7	48	5.2	5 488	3.3	62	4.6	1 355	11.1
Bristol	4	8.7	172	.4	1	35.0	(D)	3.3	2	17.5	(D)	(D)
Kent	6	11.2	175	1.2	8	10.8	574	19.6	4	14.6	46	15.3
Newport	16	7.4	990	3.6	7	13.2	(D)	(D)	11	10.9	(D)	(D)
Providence	12	8.0	392	2.0	19	8.2	4 071	3.4	23	7.5	809	17.9
Washington	17	5.0	836	2.6	13	10.1	222	13.7	22	7.0	305	9.3

See footnotes at end of table.

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

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

Livestock and poultry — Con.											
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)	Number	Relative standard error of estimate (percent)	
	Rhode Island	83	3.8	242 095	.3	5	16.2	(D)	(D)	(D)	(D)
Bristol	3	15.1	84	17.4	—	—	—	—	—	—	
Kent	10	9.3	3 225	17.5	—	—	—	—	—	—	
Newport	9	12.8	(D)	(D)	1	47.1	(D)	(D)	(D)	(D)	
Providence	32	5.6	132 548	.1	2	22.1	(D)	(D)	(D)	(D)	
Washington	29	6.1	(D)	(D)	2	24.3	(D)	(D)	(D)	(D)	

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)	
	Rhode Island	16	7.8	172	7.6	11 280	6.7	72	3.0	2 949	2.3	49 638	1.8
Bristol	1	50.0	(D)	(D)	(D)	(D)	4	—	133	—	2 161	—	
Kent	1	—	(D)	(D)	(D)	(D)	12	8.4	335	9.4	5 325	10.2	
Newport	3	15.7	38	17.4	1 780	22.2	20	5.9	1 283	4.2	20 172	2.9	
Providence	1	—	(D)	(D)	(D)	(D)	15	7.1	379	3.7	5 732	2.7	
Washington	10	10.1	77	14.0	5 050	12.5	21	4.9	819	2.3	16 248	1.9	

Selected crops harvested — Con.													
Geographic area	Irish potatoes					Hay — alfalfa, other tame, small grain, wild, grass silage, green chop, etc. (see text)							
	Farms		Acres		Quantity			Farms		Acres		Quantity	
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Hundredweight	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Tons, dry	Relative standard error of estimate (percent)	
	Rhode Island	19	5.7	1 310	.2	374 808	.1	245	2.1	7 614	2.3	15 864	2.6
Bristol	—	—	—	—	—	—	10	5.0	387	1.6	670	3.6	
Kent	—	—	—	—	—	—	28	5.2	935	9.6	2 350	9.7	
Newport	8	6.9	825	.2	233 423	.2	46	4.1	1 647	5.2	2 775	7.9	
Providence	2	22.1	(D)	(D)	(D)	(D)	89	3.1	2 419	3.4	4 729	3.2	
Washington	9	9.2	(D)	(D)	(D)	(D)	72	3.2	2 226	3.1	5 340	3.7	

Selected crops harvested — Con.											
Geographic area	Vegetables harvested for sale (see text)					Land in orchards					
	Farms		Acres			Farms		Acres			
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	
	Rhode Island	126	2.6	1 868	2.6	72	3.6	664	4.5		
Bristol	13	3.0	(D)	(D)	3	20.3	2	22.4			
Kent	9	11.1	(D)	(D)	8	11.2	48	15.2			
Newport	21	6.4	359	5.2	14	8.6	127	17.8			
Providence	38	4.6	276	6.6	33	4.3	451	4.0			
Washington	45	4.3	612	4.1	14	9.1	36	8.5			

¹Data are based on a sample of farms.

Table G. New England States' Estimates of the Not on the Mail List Component of Farm Coverage Error: 1992

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

Item	Census published farms		Not on mail list ¹		Percent not on mail list ¹	
	Total (number)	Relative standard error of estimate (percent)	Total (number)	Relative standard error of estimate (percent)	Total (percent)	Standard error of percent
Farms ----- number--	22 991	.4	5 422	12.5	19.1	2.0
Land in farms ----- acres --	3 857 438	.3	314 720	21.7	7.5	1.4
Average size of farm ----- acres --	167.8	.5	58.0	16.8	(X)	(X)
Farms by size:						
Less than 10 acres -----	2 843	.8	1 229	29.5	30.2	6.6
10 to 49 acres -----	5 597	.6	2 491	18.7	30.8	4.0
Less than 50 acres -----	8 440	.6	3 720	15.3	30.6	3.3
50 acres or more -----	14 551	.4	1 702	22.2	10.5	2.1
50 to 99 acres -----	3 800	.6	688	37.4	15.3	5.1
100 to 179 acres -----	3 874	.6	674	32.6	14.8	4.2
180 acres or more -----	6 877	.4	339	48.6	4.7	2.1
Harvested cropland ----- farms --	19 644	.4	3 927	14.9	16.7	2.1
acres--	1 312 694	.2	63 683	19.9	4.6	.9
Farms by value of sales:						
Less than \$1,000 -----	3 770	.8	2 192	20.0	36.8	4.7
\$1,000 to \$2,499 -----	3 041	.8	1 238	29.1	28.9	5.8
Less than \$2,500 -----	6 811	.7	3 431	16.0	33.5	3.6
\$2,500 or more -----	16 180	.4	1 991	19.8	11.0	1.9
\$2,500 to \$9,999 -----	5 776	.6	1 218	25.8	17.4	3.7
\$10,000 or more -----	10 404	.3	773	34.7	6.9	2.3
Market value of agricultural products sold -----\$1,000 --	1 686 781	.1	27 166	30.0	1.6	.5
Farms by standard industrial classification:						
Crops (01) -----	12 093	.5	2 221	19.3	15.5	2.5
Livestock (02) -----	10 898	.4	3 201	17.2	22.7	3.1
Farms by type of organization:						
Individual or family -----	19 403	.4	4 857	13.0	20.0	2.1
Partnership or corporation -----	3 368	.5	460	50.0	12.0	5.0
Other -----	220	1.8	--	(X)	--	(X)
Farms by tenure of operator:						
Full owners -----	14 362	.5	3 963	15.0	21.6	2.6
Part owners and tenants -----	8 629	.4	1 457	23.3	14.4	2.8
Part owners -----	7 037	.4	1 148	25.8	14.0	3.0
Tenants -----	1 592	.8	309	48.2	16.2	6.7
Operators by place of residence:						
On farm operated -----	18 979	.4	4 837	13.2	20.3	2.2
Not on farm operated -----	2 824	.6	281	45.6	9.1	3.8
Not reported -----	1 188	.9	303	61.6	20.3	9.5
Operators by principal occupation:						
Farming -----	12 774	.4	1 971	23.6	13.4	2.8
Other -----	10 217	.6	2 925	17.3	22.3	3.0
Operators by sex:						
Male -----	19 820	.4	4 825	13.1	19.6	2.1
Female -----	3 171	.7	597	34.5	15.9	4.6
Operators by race:						
White -----	22 909	.4	4 895	13.3	17.6	1.9
Black and other races -----	82	3.6	--	(X)	--	(X)
Operators by years on present farm:						
4 years or less -----	2 150	.9	1 129	29.7	34.4	6.7
5 years or more -----	17 693	.4	3 339	15.7	15.9	2.2
Average years on present farm -----	19.6	.6	16.0	13.3	(X)	(X)
Not reported -----	3 148	.6	954	29.7	23.3	5.3
Average age of operator -----	53.2	.6	53.4	4.3	(X)	(X)

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

Note: New England States include Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont.

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