



AgEcon SEARCH
RESEARCH IN AGRICULTURAL & APPLIED ECONOMICS

The World's Largest Open Access Agricultural & Applied Economics Digital Library

This document is discoverable and free to researchers across the globe due to the work of AgEcon Search.

Help ensure our sustainability.

Give to AgEcon Search

AgEcon Search
<http://ageconsearch.umn.edu>
aesearch@umn.edu

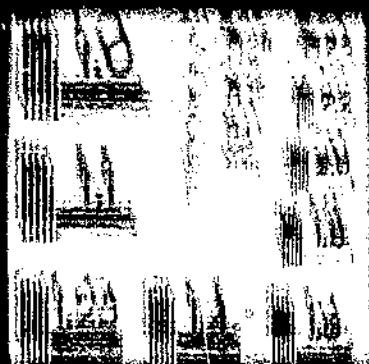
*Papers downloaded from **AgEcon Search** may be used for non-commercial purposes and personal study only. No other use, including posting to another Internet site, is permitted without permission from the copyright owner (not AgEcon Search), or as allowed under the provisions of Fair Use, U.S. Copyright Act, Title 17 U.S.C.*

BULLETIN.) / M. E. SALASSI, ET AL. ECONOMIC RESEARCH SERVICE,
WASHINGTON, DC. AGRICULTURE AND RURAL ECONOMY DIV. APR 91 690

1 OF 1

PB 92

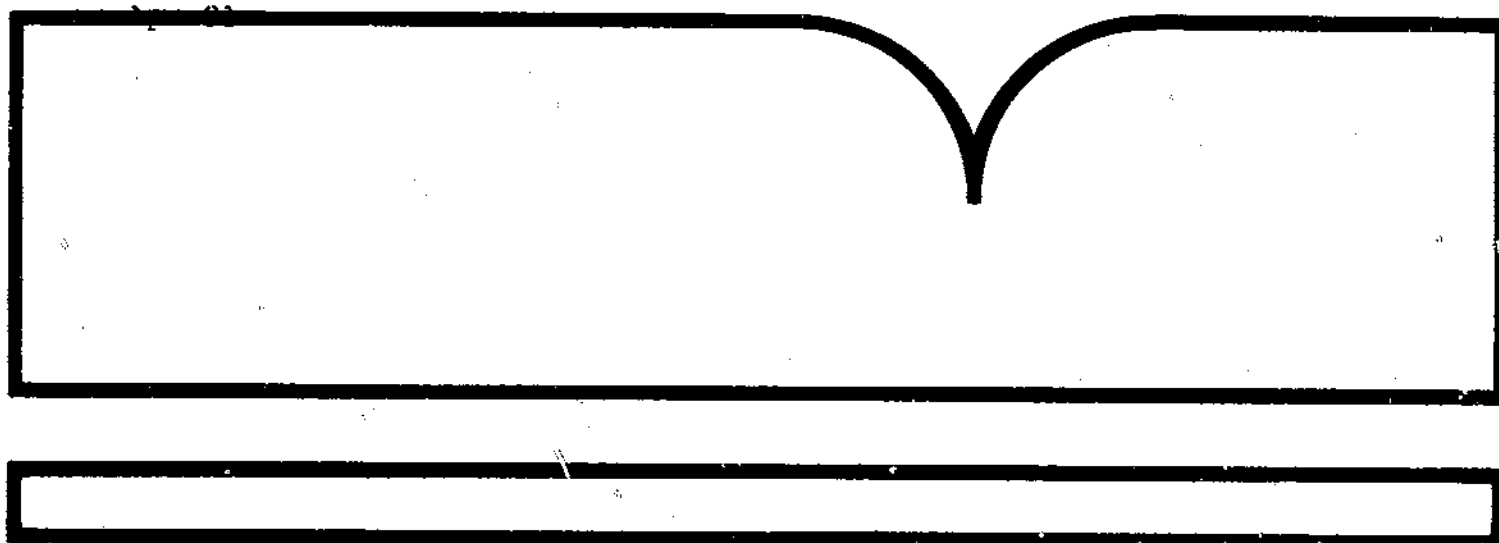
187 632



PB92-187632

Representative U.S. Corn Farms, 1987

(U.S.) Economic Research Service, Washington, DC



U.S. Department of Commerce
National Technical Information Service

NTIS

REPORT DOCUMENTATION PAGE			Form Approved OMB No. 0704-0188	
<small>Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.</small>				
1	PB92-187632	2. REPORT DATE April 1991	3. REPORT TYPE AND DATES COVERED Final	
4. TITLE AND SUBTITLE Representative U.S. Corn Farms, 1987			5. FUNDING NUMBERS	
6. AUTHOR(S) Michael E. Salassi, William D. McBride, and Robert E. Pelly				
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) U.S. Department of Agriculture Economic Research Service 1301 New York Avenue, N.W. Washington, DC 20005-4788			8. PERFORMING ORGANIZATION REPORT NUMBER SB-820	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)			10. SPONSORING/MONITORING AGENCY REPORT NUMBER	
11. SUPPLEMENTARY NOTES				
12a. DISTRIBUTION/AVAILABILITY STATEMENT			12b. DISTRIBUTION CODE	
13. ABSTRACT (Maximum 200 words) <p>This report presents average characteristics (such as size, land use and tenure, and income and expenses) of representative U.S. farms producing corn for grain in 1987. Corn is the leading U.S. crop enterprise both in harvested acreage and in commodity sales. Information about differences in the organization and financial structure of U.S. corn farms is presented for nine major corn-producing States and for small, mid-sized, and large farms in three regions. Basic data for the study came from the 1987 Farm Costs and Returns Survey, a survey conducted annually by the National Agricultural Statistics Service of the U.S. Department of Agriculture.</p>				
14. SUBJECT TERMS Farm Costs and Returns Survey, corn, State, region, sales class, farm characteristics			15. NUMBER OF PAGES 68	
			16. PRICE CODE	
17. SECURITY CLASSIFICATION OF REPORT	18. SECURITY CLASSIFICATION OF THIS PAGE	19. SECURITY CLASSIFICATION OF ABSTRACT	20. LIMITATION OF ABSTRACT	



United States
Department of
Agriculture

Economic
Research
Service

Statistical
Bulletin
Number 820

Representative U.S. Corn Farms, 1987

Michael E. Salassi
William D. McBride
Robert A. Pelly



REPRODUCED BY
U.S. DEPARTMENT OF COMMERCE
NATIONAL TECHNICAL INFORMATION SERVICE
SPRINGFIELD, VA. 22161

It's Easy To Order Another Copy!

Just dial 1-800-999-6779. Toll free in the United States and Canada.
Other areas, please call 1-301-725-7937.

Ask for *Representative U.S. Corn Farms, 1987* (SB-820).

The cost is \$11.00 per copy. For non-U.S. addresses (includes Canada), add 25 percent. Charge your purchase to your VISA or MasterCard, or we can bill you. Or send a check or purchase order (made payable to ERS-NASS) to:

ERS-NASS
P.O. Box 1608
Rockville, MD 20849-1608.

We'll fill your order by first-class mail.

Representative U.S. Corn Farms, 1987. Michael E. Salassi, William D. McBride, and Robert A. Pelly. Agriculture and Rural Economy Division, Economic Research Service, U.S. Department of Agriculture. Statistical Bulletin No. 820.

Abstract

This report presents average characteristics (such as size, land use and tenure, and income and expenses) of representative U.S. farms producing corn for grain in 1987. Corn is the leading U.S. crop enterprise both in harvested acreage and in commodity sales. Information about differences in the organization and financial structure of U.S. corn farms is presented for nine major corn-producing States and for small, mid-sized, and large farms in three regions. Basic data for the study came from the 1987 Farm Costs and Returns Survey, a survey conducted annually by the National Agricultural Statistics Service of the U.S. Department of Agriculture.

Keywords: Farm Costs and Returns Survey, corn, State, region, sales class, farm characteristics.

Acknowledgments

The authors would like to thank Duane Hacklander, Bob McElroy, Dave Banker, Mitch Morehart, and Jim Johnson of the Economic Research Service, USDA, and Enid Hodes of the Economics Management Staff, USDA, for their comments, suggestions, and critical review of this manuscript.

Preface

This report is the second in a series of statistical bulletins about representative U.S. farms. The first, Representative U.S. Wheat Farms (SB-786), was published by the Economic Research Service, USDA, in January 1990, and can be ordered by telephoning toll-free 1-800-999-6779. The cost is \$11.00 per copy. For non-U.S. addresses, add 25 percent (includes Canada). Charge your purchase to your VISA or MasterCard, or we can bill you. Or send a check or purchase order (made payable to ERS-NASS) to:

ERS-NASS
P.O. Box 1608
Rockville, MD 20849-1608.

Your order will be filled by first-class mail.

Contents

Introduction.....	1
Data Source.....	1
Farm Characteristics.....	2
Representative Corn Farms by State.....	3
Representative Corn Farms by Size and Region.....	10

Appendix Tables

State Information

Illinois corn farms by selected sales class versus all Illinois corn farms, 1987	
1. Land use and tenure.....	13
2. Value of assets and debt.....	14
3. Farm labor.....	15
4. Income and expenses.....	16
Indiana corn farms by selected sales class versus all Indiana corn farms, 1987	
5. Land use and tenure.....	17
6. Value of assets and debt.....	18
7. Farm labor.....	19
8. Income and expenses.....	20
Iowa corn farms by selected sales class versus all Iowa corn farms, 1987	
9. Land use and tenure.....	21
10. Value of assets and debt.....	22
11. Farm labor.....	23
12. Income and expenses.....	24
Minnesota corn farms by selected sales class versus all Minnesota corn farms, 1987	
13. Land use and tenure.....	25
14. Value of assets and debt.....	26
15. Farm labor.....	27
16. Income and expenses.....	28
Missouri corn farms by selected sales class versus all Missouri corn farms, 1987	
17. Land use and tenure.....	29
18. Value of assets and debt.....	30
19. Farm labor.....	31
20. Income and expenses.....	32
Nebraska corn farms by selected sales class versus all Nebraska corn farms, 1987	
21. Land use and tenure.....	33
22. Value of assets and debt.....	34

Contents--Continued

23.	Farm labor.....	35
24.	Income and expenses.....	36

Ohio corn farms by selected sales class versus all Ohio corn farms, 1987

25.	Land use and tenure.....	37
26.	Value of assets and debt.....	38
27.	Farm labor.....	39
28.	Income and expenses.....	40

South Dakota corn farms by selected sales class versus all South Dakota corn farms, 1987

29.	Land use and tenure.....	41
30.	Value of assets and debt.....	42
31.	Farm labor.....	43
32.	Income and expenses.....	44

Wisconsin corn farms by selected sales class versus all Wisconsin corn farms, 1987

33.	Land use and tenure.....	45
34.	Value of assets and debt.....	46
35.	Farm labor.....	47
36.	Income and expenses.....	48

Regional Information

Corn Belt corn farms by size of farm, 1987

37.	Land use and tenure.....	49
38.	Value of assets and debt.....	50
39.	Farm labor.....	51
40.	Income and expenses.....	52

Lake States corn farms by size of farm, 1987

41.	Land use and tenure.....	53
42.	Value of assets and debt.....	54
43.	Farm labor.....	55
44.	Income and expenses.....	56

Plains States corn farms by size of farm, 1987

45.	Land use and tenure.....	57
46.	Value of assets and debt.....	58
47.	Farm labor.....	59
48.	Income and expenses.....	60

Representative U.S. Corn Farms, 1987

Michael E. Salassi
William D. McBride
Robert A. Pelly*

Introduction

U.S. agriculture is a very diverse industry, composed of many farms that produce a variety of crops and livestock. As a result, farms in one part of the country may be substantially different in structure and organization from farms in another part. Information about how characteristics of farms vary across the country, particularly for farms producing specific commodities, is useful for many reasons. The combination of crop enterprises on farms may vary, sometimes greatly, from one State or region to another. Characteristics such as size, land tenure, enterprise combination, and financial structure influence how particular Government policies or market conditions will affect farms. Farms representative of particular States or regions provide the basis for analyzing how different areas will be affected by such policies and conditions.

This report focuses on farms producing corn. Corn is the major field crop produced in the United States. It is the leading crop enterprise in both harvested acreage and commodity sales. Each year, 70 to 80 million acres of U.S. land are planted in corn, producing about 8 billion bushels. Approximately 60 percent of U.S. corn harvested for grain is used as feed for livestock with the remainder split between domestic food use and export. We look at average characteristics of representative U.S. farms producing corn for grain. We show differences in farm size and land tenure, enterprise mix, farm labor, assets and debt, and whole-farm income and expenses. We present characteristics of representative corn farms for nine major corn-producing States as well as for three different sizes of corn farms in three major corn-producing regions.

Data Source

Basic data used in estimating the characteristics of representative U.S. corn farms presented in this report came from the 1987 Farm Costs and Returns Survey (FCRS) conducted in February and March 1988 by the National Agricultural Statistics Service (NASS). The FCRS is a stratified, multiframe survey consisting of a list frame and an area frame. List frame farms were stratified by economic size, while area frame farms were stratified by land use type. The survey is a full probability survey with all producers having a likelihood of being selected in the sample. Multiple versions of the FCRS are integrated into a single survey to simultaneously obtain data such as farm

*Michael E. Salassi, William D. McBride, and Robert A. Pelly are agricultural economists with the Agriculture and Rural Economy Division, Economic Research Service, U.S. Department of Agriculture.

organization, farm income and expenses, assets and debt, and operator and household characteristics. Commodity-specific versions of the FCRS, which are conducted on a 4-year rotation, obtain data on enterprise production practices used in cost-of-production estimation. Data from all versions of the 1987 FCRS were used because corn was one of the enterprises surveyed during that year.

Farm Characteristics

Characteristics of representative or typical farms estimated from survey data will vary depending upon how those farms were defined. These farm definitions consist of statements of whether or not a farm has a particular attribute or characteristic. Corn farms, for purposes of this report, could have been defined as farms which reported planted or harvested corn acreage, or farms on which corn accounted for the majority of crop acreage or crop sales. Stricter definitions could have included farms on which corn accounted for 50 percent or more of total farm sales or excluded farms which also reported livestock enterprises. The sample size of the selected subset of survey data generally decreases as the strictness of the definition of representative farm increases. For this and other reasons, corn farms included in this report were defined as farms which reported at least 1 acre of corn harvested for grain. This definition, although broad, allows people with varied purposes to have greater flexibility in the use of this data.

Characteristics of U.S. corn farms presented in this report are divided into four categories: (1) land use and tenure, (2) farm assets and debt, (3) farm labor, and (4) farm income and expenses. These characteristics were chosen to give a general picture of the entire farming operation of farms producing corn. Average estimates per farm are presented for characteristics for each category. Corresponding coefficients of variation are also presented for each category. The coefficient of variation provides a way to evaluate the reliability of survey estimates. Coefficients of variation indicate sampling error, which is sampling variation that occurs by chance. However, data may also be subject to nonsampling error. The smaller the coefficient of variation, the greater the reliability of the estimate. Estimates with coefficients of variation greater than 50 percent were determined to be unreliable estimates and were not published. In addition, estimates based on three or fewer nonzero responses were also not published to avoid problems of data disclosure. In both cases, these estimates are denoted with a 'd' in the tables indicating that data are insufficient for disclosure.

Categories for average land tenure of corn farms were estimated for acres owned, acres cash-rented, acres share-rented, and total acres operated by the farm. Tenure categories (such as land rented on an animal-unit-month (AUM) basis, land rented free from others, and land cash- or share-rented to others) were not estimated as separate items, although all items are reflected in total acres operated.

Land use is divided into four categories: average harvested crop acreage for several major as well as minor crops, pasture and hay, land idled for Government programs, and land in summer fallow.

The category of farm assets and debt provides estimates on the market value of farm assets and the total unpaid balance of farm debt as of December 31, 1987. Farm assets include land and buildings, equipment, livestock, crop inventory

(excluding crops under Commodity Credit Corporation (CCC) loan), purchased inputs on hand, and other farm assets. Other farm assets include such items as shares in farm cooperatives, bonds, certificates of deposit, savings and checking accounts, and money owed to the farm operation, including crops and livestock sold for future payment. Farm debt is classified by lender, including Production Credit Association, Farmers Home Administration (FmHA), commercial banks, Federal land banks, merchants and dealers, insurance companies, other individuals, and other lenders.

Farm labor on representative corn farms was estimated for the operator, unpaid labor, and hired labor. Labor that was provided by the operator and unpaid workers was estimated on an hours-per-week basis. The estimate of hired labor was based on the number of persons hired and represents the peak number of hired workers used on the operation at any one time during the year.

The farm income and expense category presents cash farm income, nonfarm income, and cash farm operating expense estimates for the 1987 calendar year. These estimates represent income and expenses associated with the entire farm operation and not just the corn enterprise. Nonfarm income estimates are included to show the extent to which off-farm income sources supplement farm business income. Cash farm operating expenses are separated into estimates for seed, fertilizer, pesticides, fuel and oil, feed, livestock purchases, livestock services, equipment lease, marketing, hired labor, contract labor, custom work, interest payments, property taxes, general business, cash rent, and miscellaneous expenses.

Representative Corn Farms by State

The primary objective of this report was to estimate characteristics of representative corn farms in major corn-producing States, which involved: (1) the selection of States considered to be major corn producers and (2) the selection of a subset of farms within each State considered to be representative of corn farms in that State. Selection of States considered to be major producers of corn was based on information from the 1987 Census of Agriculture.

The Census of Agriculture and the FCRS were conducted simultaneously in 1987. It was the first time in which these two surveys, one conducted every 5 years and the other conducted annually, coincided in the same year. The target population of farms surveyed was identical for both surveys; that is, farms that "sold or would have sold at least \$1,000 worth of agricultural products during 1987." Table 1 lists the 15 States with the largest number of corn farms in 1987 reported by the Census of Agriculture and corresponding data from the FCRS. Tables 2 and 3 show similar data for harvested corn acreage and total corn production. The FCRS statistics include coefficients of variation and standard deviations, which are measures of data reliability.

Despite their common farm definition, several factors limit the comparability of these two data sources. The most important factors associated with differences in estimates of total farm numbers, total crop acreage, or total production relate to sample design and data collection procedures. Since participation in the Census of Agriculture is mandatory, it involves a complete enumeration of farms. Participation in the FCRS is voluntary. It uses a probability-based, multiframe sampling approach to provide estimates that are representative of the U.S. population but are based on a smaller

sample of farms. Other factors that may limit the comparison of particular types of data between the Census of Agriculture and the FCRS include differences in interview technique, conceptual differences in instruction and wording of questions, level of detail in data collected for specific items, and consistency in the inclusion of landlord and contractor shares of income and expenses between specific categories. Furthermore, the Census of Agriculture includes all 50 States, while the FCRS includes only the 48 contiguous States (it excludes Alaska and Hawaii).

Census data indicated that Iowa and Illinois contained the largest number and share of corn farms of all U.S. farms producing corn for grain (table 1). They totaled 83,301 and 66,600 and their shares were 13.3 and 10.6 percent, respectively. The number of corn farms in other leading States ranged from 51,355 in Minnesota (8.2 percent of U.S. corn farms) to 10,561 in Georgia (1.7 percent of U.S. corn farms). The distribution of corn farms reported in the FCRS was very similar to that of the Census of Agriculture, although there were differences in estimates of total farm numbers per State. Iowa, Illinois, Nebraska, Indiana, and Minnesota had the largest share of corn acreage and production in 1987, representing 59.7 percent of harvested U.S. acreage and 65.1 percent of total U.S. production reported by the Census of

Table 1--Number and share of corn farms, Census of Agriculture and Farm Costs and Returns Survey, 1987 ^{1/}

Rank	State	Census		FCRS			
		Farms		Farms		Coef. Var.	Std. Dev.
		Number	Percent	Number	Percent	Percent	Farms
1	Iowa	83,301	13.3	67,702	12.7	4.5	3,072
2	Illinois	66,600	10.6	52,257	9.8	5.3	2,810
3	Minnesota	51,355	8.2	44,734	8.4	5.8	2,611
4	Wisconsin	48,665	7.8	45,699	8.5	5.6	2,591
5	Ohio	45,702	7.3	39,470	7.4	8.1	3,213
6	Indiana	45,383	7.2	35,826	6.7	6.1	2,211
7	Nebraska	34,717	5.5	25,500	4.8	8.1	2,084
8	Pennsylvania	26,968	4.3	30,654	5.7	10.5	3,230
9	Missouri	25,921	4.1	16,934	3.2	10.1	1,723
10	Michigan	25,140	4.0	17,674	3.3	8.7	1,538
11	Kentucky	25,067	4.0	21,852	4.1	14.1	3,098
12	North Carolina	21,000	3.3	17,012	3.2	8.6	1,464
13	South Dakota	19,448	3.1	17,822	3.3	7.3	1,316
14	Tennessee	13,715	2.2	16,041	3.0	14.3	2,300
15	Georgia	10,561	1.7	11,759	2.2	17.6	2,069
	Other States	84,059	13.4	73,752	13.8	6.4	4,752
	United States	627,602	100.0	534,691	100.0	1.9	10,574

^{1/} Farms growing corn for grain or seed.

Source: 1987 Census of Agriculture, Bureau of the Census, U.S. Department of Commerce and 1987 Farm Costs and Returns Survey, U.S. Department of Agriculture.

Agriculture (tables 2 and 3). FCRS data showed these five States having 59.4 percent of acreage and 65.1 percent of production. Iowa and Illinois led other States, with production of over 1.1 billion bushels each.

Nine States were selected as major corn-producing States for purposes of this report (fig. 1). They included Iowa, Illinois, Nebraska, Indiana, Minnesota, Ohio, Wisconsin, Missouri, and South Dakota. Selection was based on States with the largest share of total U.S. corn acreage and production. Census of Agriculture and FCRS data resulted in very similar rankings by both acreage and production.

State distributions of corn farms and production by sales class were estimated using the 1987 FCRS (table 4). Percentages are based on total farm sales. Selection of a subset of corn farms within each State from which to estimate average characteristics of representative farms was accomplished in two steps. The first step was to exclude farms with total farm sales of less than \$40,000. This was done to focus on commercial-sized farms, which, under most current definitions, are assumed to be farms with total sales of \$40,000 or

Table 2--Harvested corn acreage, Census of Agriculture and Farm Costs and Returns Survey, 1987 ^{1/}

Rank	State	Census		FCRS			
		Corn cropland		Corn cropland		Coef. Var.	Std. Dev.
		harvested		harvested			
		1,000		1,000			1,000
		<u>acres</u>	<u>Percent</u>	<u>acres</u>	<u>Percent</u>	<u>Percent</u>	<u>acres</u>
1	Iowa	10,147	17.3	9,071	17.8	5.3	483
2	Illinois	9,163	15.6	7,623	14.9	5.3	407
3	Nebraska	6,091	10.4	4,164	8.2	7.2	303
4	Indiana	4,884	8.3	5,693	11.2	10.9	625
5	Minnesota	4,756	8.1	3,721	7.3	5.5	207
6	Ohio	3,108	5.3	2,905	5.7	6.4	186
7	Wisconsin	2,788	4.7	2,560	5.0	7.9	203
8	South Dakota	2,574	4.7	2,352	4.6	19.7	229
9	Missouri	2,069	3.5	1,739	3.4	11.7	204
10	Michigan	1,982	3.4	1,816	3.6	11.3	206
11	Kansas	1,244	2.1	906	1.8	10.9	99
12	Texas	1,227	2.1	712	1.4	15.5	111
13	Pennsylvania	1,070	1.8	983	1.9	16.3	161
14	North Carolina	1,056	1.8	841	1.6	19.1	77
15	Kentucky	1,049	1.8	1,155	2.3	14.7	171
	Other States	5,494	9.4	4,779	9.4	5.1	246
	United States	58,702	100.0	51,020	100.0	2.2	1,131

^{1/} Farms growing corn for grain or seed.

Source: 1987 Census of Agriculture, Bureau of the Census, U.S. Department of Commerce and 1987 Farm Costs and Returns Survey, U.S. Department of Agriculture.

more. Although the number of corn farms with less than \$40,000 in total farm sales may constitute a large percentage of the total number of corn farms within a particular State, these farms usually account for a very small percentage of that State's total corn production (see table 4). By excluding these small farms, our estimate of a representative farm from the remaining surveyed farms focuses on larger, commercial-sized farms that account for a significant share of a State's total corn production.

The second step involved selecting a particular sales class that accounted for a significant portion of both corn farms and corn production within each State. By selecting a subgroup of farms from which to estimate average farm characteristics rather than using all farms, we avoided problems encountered when researchers combine farms that can vary greatly in size and composition. The selection of a single sales class of farms ensures that farms in that group will be similar in size and structure, resulting in more consistent estimates of whole-farm relationships. This process resulted in selecting subsets of representative corn farms from only one sales class, \$100,000-\$249,999. Corn farms in this sales class, for the nine States selected, accounted for the largest portion of total production within each State,

Table 3--Corn production, Census of Agriculture and Farm Costs and Returns Survey, 1987 ^{1/}

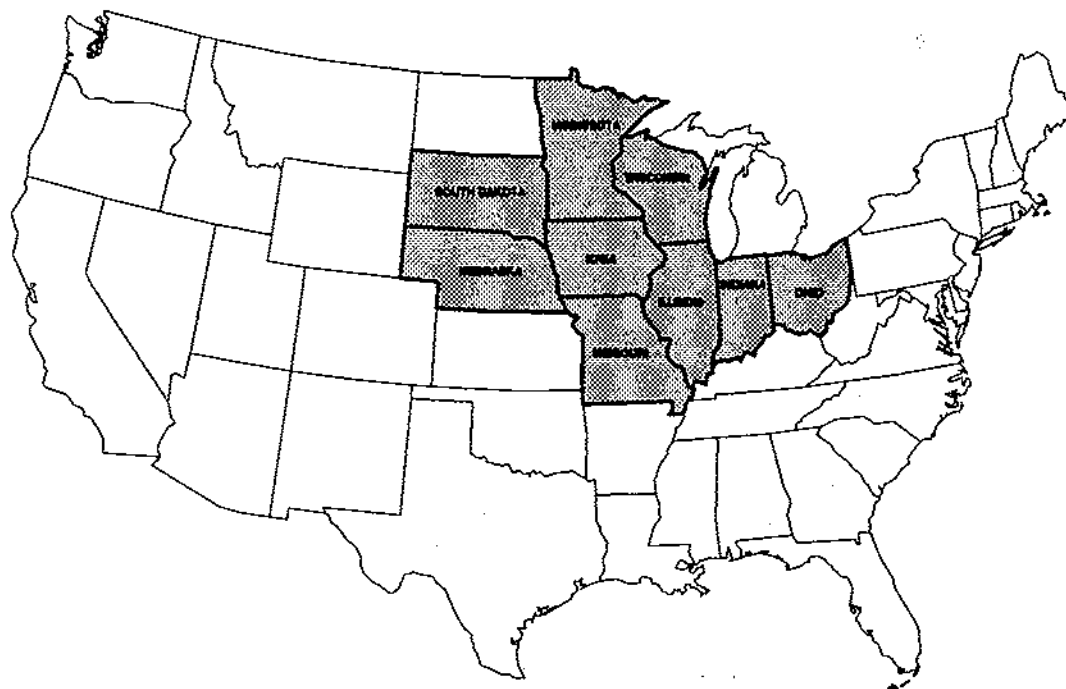
Rank	State	Census		FCRS			
		Production		Production		Coef. Var.	Std. Dev.
		1,000 bushels	Percent	1,000 bushels	Percent	Percent	1,000 bushels
1	Iowa	1,274,388	19.0	1,206,368	19.7	5.5	66,967
2	Illinois	1,168,644	17.4	1,008,325	16.5	5.6	56,784
3	Nebraska	749,231	11.1	534,510	8.7	8.1	43,775
4	Indiana	619,046	9.2	762,849	12.5	11.2	86,159
5	Minnesota	567,384	8.4	468,385	7.7	5.6	26,587
6	Ohio	355,339	5.3	348,647	5.7	6.9	24,114
7	Wisconsin	311,690	4.6	306,895	5.0	8.7	26,777
8	Missouri	218,093	3.2	202,859	3.3	11.5	23,336
9	South Dakota	199,209	3.0	204,360	3.3	11.9	24,430
10	Michigan	189,780	2.8	183,926	3.0	12.4	22,843
11	Kansas	144,134	2.1	102,873	1.7	11.2	11,604
12	Texas	123,807	1.8	67,938	1.1	16.0	10,914
13	Kentucky	104,365	1.6	109,007	1.8	15.1	16,558
14	Pennsylvania	99,282	1.5	95,783	1.6	16.5	15,806
15	Colorado	98,920	1.5	83,383	1.4	16.3	13,640
	Other States	501,690	7.5	432,305	7.1	5.5	24,054
	United States	6,725,002	100.0	6,118,413	100.0	2.4	149,197

^{1/} Farms growing corn for grain or seed.

Source: 1987 Census of Agriculture, Bureau of the Census, U.S. Department of Commerce and 1987 Farm Costs and Returns Survey, U.S. Department of Agriculture.

Figure 1

Leading corn-producing States, 1987



ranging from 29 to 42 percent of the total State production. The share of corn farms in this sales class ranged from 18 to 37 percent. Appendix tables 1-36 show average farm characteristics representative of these subsets of farms for major corn-producing States and average characteristics of all corn farms in each State.

Although the representative farms estimated for each State were chosen from the same sales class (\$100,000-\$249,999 in total farm sales), the size and composition of these farms varied greatly from State to State. South Dakota, Missouri, and Nebraska had the largest farms producing corn for grain. Representative corn farms estimated for South Dakota and Missouri operated more than 1,000 acres of land, while those in Nebraska operated just over 900 acres. Minnesota and Wisconsin had the smallest farms. Minnesota had an average farm size of 459 acres and Wisconsin had an average farm size of 379 acres.

Statistics revealed a mixed picture on land tenure. The percentage of total acres operated that were owned by representative farms was highest in Minnesota and Wisconsin (60-70 percent) and lowest for Illinois, Indiana, Iowa, and Missouri (30-40 percent). Cash-rented land was most prevalent in Minnesota, South Dakota, and Wisconsin, while share-rented land was more common in Illinois, Indiana, Missouri, and Nebraska. Corn farms in Iowa and Ohio had roughly similar amounts of acreage under cash and share rental arrangements.

Crop mix was similar across States within a particular region but varied from region to region. Corn and soybeans were the dominant crop mix for the Corn

Table 4--State share of corn farms and production by total farm sales, 1987

Item	Total farm sales					Total
	\$500,000 or more	\$250,000- \$499,999	\$100,000- \$249,999	\$40,000- \$99,999	Less than \$40,000	
	<u>Percent</u>					
Illinois:						
Farms	3	10	24	26	37	100
Production	10	30	35	18	7	100
Indiana:						
Farms	d	d	26	21	40	100
Production	d	d	35	13	7	100
Iowa:						
Farms	3	11	30	31	25	100
Production	7	23	42	21	7	100
Minnesota:						
Farms	d	d	22	35	34	100
Production	d	d	29	28	10	100
Missouri:						
Farms	d	d	21	36	33	100
Production	d	d	39	25	7	100
Nebraska:						
Farms	d	d	37	27	d	100
Production	d	d	42	15	d	100
Ohio:						
Farms	d	d	18	19	57	100
Production	d	d	37	20	16	100
South Dakota:						
Farms	d	d	26	30	33	100
Production	d	d	32	24	10	100
Wisconsin:						
Farms	d	d	30	36	29	100
Production	d	d	39	20	10	100
United States:						
Farms	2	8	22	26	42	100
Production	11	26	36	18	9	100

d = Insufficient data for disclosure.

Source: 1987 Farm Costs and Returns Survey, U.S. Department of Agriculture.

Belt States of Illinois, Indiana, Iowa, Missouri, and Ohio. Farms in these States reported approximately equal acreages of corn and soybeans per farm except for the Missouri farm, which had a significantly higher soybean acreage. The average crop mix of corn farms in States of other regions had an average crop mix that, in addition to corn and soybeans, included acreages of barley, oats, sorghum, and wheat.

Land and buildings constituted the largest component of farm assets for all of the representative corn farms estimated in this report. The value of land and buildings, as a share of total farm assets, ranged from 36 percent in South Dakota to 61 percent in Ohio. Dollar values were in the \$200,000-\$300,000 range for all States except South Dakota. Value of machinery and equipment on representative corn farms comprised 15-23 percent of total assets. The average value of livestock inventory per farm was higher for farms in the Lake States and Northern Plains States than for farms in Corn Belt States. However, approximately 50 percent or more of all corn farms in each State reported some livestock inventories on hand at the end of the year.

A rather significant component of total assets on some farms included items listed as "other farm assets." This item includes shares in farm cooperatives, bonds, certificates of deposit, savings and checking accounts, and money owed to the farm operation, including crops and livestock sold for future payment. The percentage distribution of total farm asset value among land and buildings, machinery and equipment, livestock, crop inventories, purchased inputs, and other assets of the representative corn farms was very similar to that of all corn farms in each State.

Farm debt on corn farms was distributed among several lending sources with no one lending group accounting for more than 50 percent of total farm debt. The largest portion of total farm debt in most States was owed to commercial banks. Other important lenders to whom debt was owed included FmHA and Federal land banks. Debt-to-asset ratios for representative farms were not significantly different from the average of all corn farms in each State. They ranged from 15 percent in Nebraska to 33 percent in Iowa.

Operator labor and unpaid labor on farms with sales of \$100,000-\$249,999 was generally greater in terms of number of hours per week than the average labor across all corn farms in each State. Operator-provided labor averaged 4-16 hours per week and unpaid labor averaged as much as 13 hours per week more. The peak number of paid workers hired at any one time during the year was generally two workers in most States.

Gross cash farm income for representative corn farms was in the \$130,000-\$140,000 range for 1987. Whether crop sales or livestock sales was the major contributor to gross farm income depended upon which region of the country a particular State was located. Farms in the Corn Belt region generally reported a larger percentage of gross cash farm income coming from crop sales. For example, corn farms in Indiana, with sales of \$100,000-\$249,999, reported that 55 percent of their gross cash income came from crop sales. Farms in the Lake States and Plains States reported that sales of livestock and livestock products, including milk, were the major contributor to farm income, ranging from 47 percent of gross cash income in Nebraska to 98 percent in Wisconsin. Income from participation in Government commodity programs accounted for 15 to 20 percent of gross cash farm income on most farms, while farm income from other sources accounted for 3 to 7 percent.

Major expenses on corn farms varied by primary enterprise. Seed, fertilizer, chemicals, fuel, and cash rent were major expenses for farms on which crops were the dominant enterprise. Feed, livestock purchases, and livestock services were major expense items for farms on which livestock was the dominant enterprise. Interest was a major expense item on all representative farms regardless of enterprise specialty. Total farm expenses varied little from State to State, averaging \$90,000-\$110,000 for representative farms.

Representative Corn Farms by Size and Region

Farms producing corn in the 1987 FCRS were combined into production regions to estimate average characteristics of corn farms by size of farm. Three regions representing major corn-producing areas, the Corn Belt, Lake States, and Plains States, were selected (fig. 2). Table 5 shows regional shares of U.S. corn farms, acreage, and production reported by the Census of Agriculture and the FCRS. The Corn Belt is the largest corn-producing region in the United States, representing roughly 40 percent of farms and 50 percent of harvested acreage and production. The Lake States and Plains States regions represent a considerably smaller share of U.S. farms, acreage, and production. Together these three regions account for approximately 70 to 75 percent of U.S. corn farms and about 90 percent of total U.S. corn grain production. Table 6 shows the regional distributions of corn farms and production by total farm sales, estimated from the 1987 FCRS. The process of selecting a subset of corn farms from which to estimate average farm characteristics within each region was similar to that used for State subsets. Corn farms with less than \$40,000 in total farm sales were excluded. However, rather than selecting a

Figure 2

Leading corn-producing regions, 1987

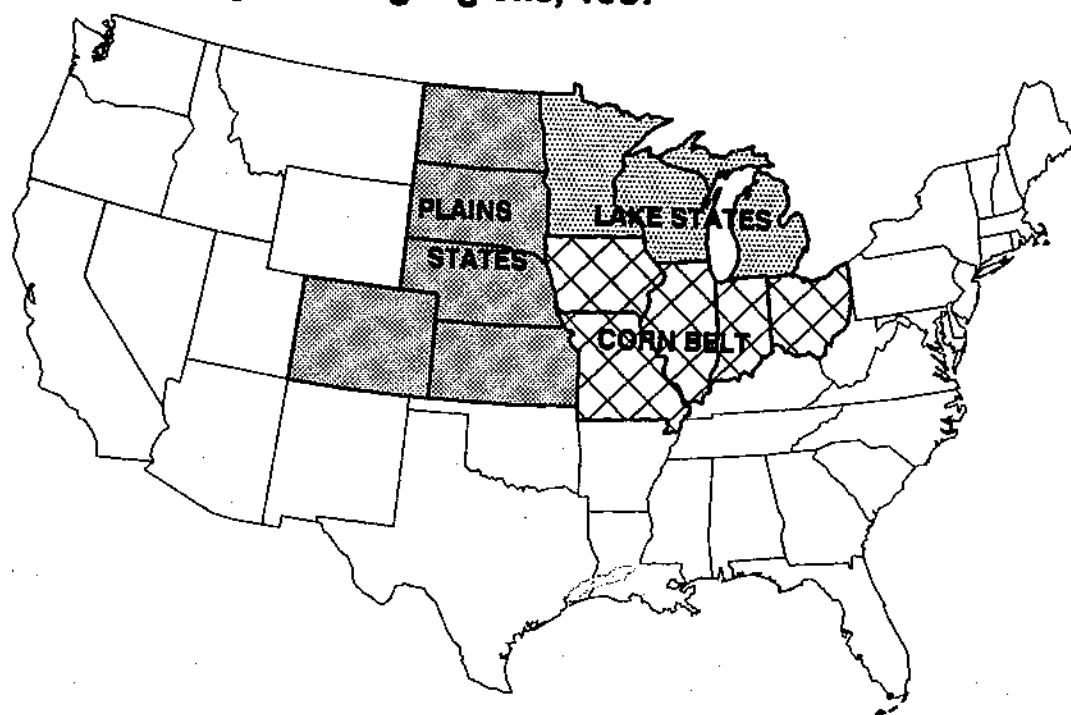


Table 5--Regional share of U.S. corn farms, acreage, and production, Census of Agriculture and Farm Costs and Returns Survey, 1987 1/

Region	Farms		Harvested acreage		Total production	
	Census	FCRS	Census	FCRS	Census	FCRS
	<u>Percent</u>					
Corn Belt	42.5	39.7	50.0	53.0	54.0	57.7
Lake States	20.0	20.2	16.2	15.9	15.9	15.7
Plains States	11.6	10.7	19.0	16.5	18.4	15.7
Other	25.9	29.4	14.8	14.6	11.7	10.9
U.S. total	100.0	100.0	100.0	100.0	100.0	100.0

1/ Farms growing corn for grain or seed.

Source: 1987 Census of Agriculture, Bureau of the Census, U.S. Department of Commerce and 1987 Farm Costs and Returns Survey, U.S. Department of Agriculture.

Table 6--Regional share of corn farms and production by total farm sales, 1987

Production by total farm sales, 198

Item	Total farm sales					Total
	\$500,000 or more	\$250,000- \$499,999	\$100,000- \$249,999	\$40,000- \$99,999	Less than \$40,000	
					</	

Source: 1987 Farm Costs and Returns Survey, U.S. Department of Agriculture.

subset from one sales class, as was done for States, we selected subsets from several sales classes to estimate average farm characteristics for different sizes of corn farms within a region.

We examined three sizes of farms producing corn in this report. Small farms were those with \$40,000-\$99,999 in total farm sales, mid-sized farms had \$100,000-\$249,999 in total farm sales, and large farms had \$250,000-\$499,999 in total farm sales. By selecting farms in these three sales classes, the smallest and largest farms in each region were excluded. The remaining farms were assumed to be representative of farms producing corn for grain in each region. These subsets of farms were used to estimate the average characteristics of corn farms by region and size of farm shown in appendix tables 37-48.

Total acres operated by size of farm, although proportional to farm sales, varied substantially among regions. Average farm sizes of small, mid-sized, and large farms in the Lake States were estimated to be 275 acres, 428 acres, and 891 acres, respectively, while farms in the Corn Belt were slightly larger. Corn farms in the Plains States were significantly larger, with small farms averaging 640 acres and large farms averaging 1,710 acres. In each region, the percentage of land owned tended to decline as farm size increased. The highest percentage of owned land was in the Lake States. Crop mix varied little by size of farm. Corn and soybeans were the major crops in the Corn Belt and Lake States. Wheat was also a major crop on Plains States' farms. The portion of the crop mix on farms devoted to corn tended to increase as farm size increased.

Value of land and buildings accounted for roughly 45 to 55 percent of total farm assets, and its share of the total generally remained unchanged as farm size increased. The value of machinery and equipment made up 16 to 20 percent of total assets. This percentage also did not appear to be influenced by farm size. Other farm assets, made up mainly of financial assets, accounted for smaller portions of total farm assets on larger farms, although these changes were relatively minor.

Distributions of farm debt changed little as farm size increased. Commercial banks, Federal land banks, and the FmHA were the major lending sources. The debt-to-asset ratio, however, did increase for larger farms in each region.

Crop sales accounted for 26 percent of gross cash farm income on large corn farms in the Lake States in 1987, up from 16 percent for small farms and 13 percent for mid-sized farms. Government payments on these farms, which are related to crop sales, increased to 17 percent of gross income, up from 11 to 12 percent on small and mid-sized farms. Livestock sales accounted for larger portions of gross cash farm income and crop sales accounted for smaller portions of gross cash farm income as farm size increased in the Corn Belt. The composition of farm income changed little as farm size varied in the Plains States. Farm size also had little effect on the general composition of farm expenses. Major expense items such as fertilizer, chemicals, feed, and interest payments were relatively the same percentages of total farm expenses regardless of farm size.

Appendix table 1--Land use and tenure: Illinois corn farms by selected sales class versus all Illinois corn farms, 1987

Item	Farms with sales of \$100,000-\$249,999		All Illinois corn farms	
	Average per farm	Coefficient of variation ^{1/}	Average per farm	Coefficient of variation ^{1/}
	<u>Acres</u>	<u>Percent</u>	<u>Acres</u>	<u>Percent</u>
Land tenure:				
Owned	185	14.23	153	7.43
Cash-rented	137	19.15	78	12.35
Share-rented	327	8.64	208	8.51
Total operated ^{2/}	643	4.55	433	5.51
Land use:				
Harvested crops--				
Corn	215	5.49	146	5.50
Barley	d	na	d	na
Oats	5	26.89	2	18.28
Sorghum	d	na	2	42.22
Soybeans	206	6.20	135	6.70
Wheat	26	23.98	15	15.64
Other	d	na	1	41.68
Pasture and hay	45	16.45	35	18.60
Government programs	100	6.51	62	6.14
Summer fallow	0	na	d	na

d - Insufficient data for disclosure.

na - Not applicable.

^{1/} The coefficient of variation provides a means of evaluating survey results. The smaller the coefficient, the greater the reliability of the estimate.

^{2/} Data may not add because some categories (such as land rented on an animal-unit-month basis, land rented free from others, and land cash- or share-rented to others) are not listed.

Source: 1987 Farm Costs and Returns Survey, U.S. Department of Agriculture.

Appendix table 2--Value of assets and debt: Illinois corn farms by selected sales class versus all Illinois corn farms, 1987

Item	Farms with sales of \$100,000-\$249,999		All Illinois corn farms	
	Average per farm	Coefficient of variation 1/	Average per farm	Coefficient of variation 1/
	<u>Dollars</u>	<u>Percent</u>	<u>Dollars</u>	<u>Percent</u>
Assets:				
Land and buildings	237,583	13.16	212,701	7.71
Machinery and equipment	108,522	9.37	71,691	6.59
Livestock	19,640	16.51	15,594	9.98
Crop inventory	38,304	9.80	24,832	7.67
Purchased inputs	3,721	18.35	4,416	38.07
Other assets	60,669	29.11	34,570	15.24
Total 2/	468,529	9.37	363,803	6.26
Debt:				
Production Credit Association	d	na	2,046	23.01
Farmers Home Administration	12,664	37.20	d	na
Commercial banks	44,580	17.16	28,214	11.13
Federal land banks	33,143	30.62	17,876	19.34
Merchants and dealers	4,475	34.74	2,211	21.80
Insurance companies	d	na	d	na
Individuals	17,819	39.28	8,518	24.23
Other lenders	1,194	36.81	753	23.39
Total 2/	118,166	17.26	69,440	10.26

d - Insufficient data for disclosure.

na - Not applicable.

1/ The coefficient of variation provides a means of evaluating survey results. The smaller the coefficient, the greater the reliability of the estimate.

2/ Data may not add due to rounding or nondisclosure of data.

Source: 1987 Farm Costs and Returns Survey, U.S. Department of Agriculture.

Appendix table 3--Farm labor: Illinois corn farms by selected sales class
versus all Illinois corn farms, 1987

Item	Farms with sales of \$100,000-\$249,999		All Illinois corn farms	
	Average per farm	Coefficient of variation ^{1/}	Average per farm	Coefficient of variation ^{1/}
	<u>Hours per week</u>	<u>Percent</u>	<u>Hours per week</u>	<u>Percent</u>
Labor hours:				
Operator	52	3.38	38	3.68
Unpaid labor	18	15.07	12	10.81
	<u>Number</u>	<u>Percent</u>	<u>Number</u>	<u>Percent</u>
Hired labor:				
Hired workers (peak) ^{2/}	2	11.46	1	8.92

d - Insufficient data for disclosure.

na - Not applicable.

^{1/} The coefficient of variation provides a means of evaluating survey results. The smaller the coefficient, the greater the reliability of the estimate.

^{2/} Peak number of workers hired at any one time during the year.

Source: 1987 Farm Costs and Returns Survey, U.S. Department of Agriculture.

Appendix table 4--Income and expenses: Illinois corn farms by selected sales class versus all Illinois corn farms, 1987

Item	Farms with sales of \$100,000-\$249,999		All Illinois corn farms	
	Average per farm	Coefficient of variation ^{1/}	Average per farm	Coefficient of variation ^{1/}
	<u>Dollars</u>	<u>Percent</u>	<u>Dollars</u>	<u>Percent</u>
Income:				
Crop sales, including CCC	62,738	8.57	46,662	7.24
Livestock sales	37,569	16.50	28,740	12.36
Government payments	24,369	7.54	16,781	6.24
Other farm income	4,366	24.80	3,203	12.90
Gross cash farm income ^{2/}	129,042	5.88	95,385	6.20
Nonfarm income	14,650	19.16	17,729	6.79
Expenses:				
Seed	5,807	6.19	4,009	5.77
Fertilizer, lime, and chemicals	18,293	6.09	12,422	5.88
Fuel and oil	5,673	5.45	3,950	5.42
Feed	8,857	21.22	6,375	15.47
Livestock purchases	5,913	26.73	6,976	13.97
Livestock services	1,249	21.94	749	14.14
Equipment lease	d	na	d	na
Marketing	2,757	18.26	2,117	11.62
Hired labor ^{3/}	3,879	17.26	2,840	20.89
Contract labor	d	na	d	na
Custom work	768	42.76	787	18.31
Interest payments	12,623	17.96	7,579	10.22
Property taxes	2,231	13.09	2,097	7.90
General business	6,120	6.28	4,646	6.32
Cash rent	9,724	18.90	6,028	12.99
Miscellaneous	9,839	7.99	6,560	6.25
Total ^{2/}	94,371	6.04	67,706	6.11

d = Insufficient data for disclosure.

na = Not applicable.

^{1/} The coefficient of variation provides a means of evaluating survey results. The smaller the coefficient, the greater the reliability of the estimate.

^{2/} Data may not add due to rounding or nondisclosure of data.

^{3/} Excludes wages paid to operator and family members.

Source: 1987 Farm Costs and Returns Survey, U.S. Department of Agriculture.

Appendix table 5--Land use and tenure: Indiana corn farms by selected sales class versus all Indiana corn farms, 1987

Item	Farms with sales of \$100,000-\$249,999		All Indiana corn farms	
	Average per farm	Coefficient of variation ^{1/}	Average per farm	Coefficient of variation ^{1/}
	<u>Acres</u>	<u>Percent</u>	<u>Acres</u>	<u>Percent</u>
Land tenure:				
Owned	216	14.41	184	8.66
Cash-rented	150	19.69	110	17.42
Share-rented	279	17.33	185	11.35
Total operated ^{2/}	648	6.18	476	7.90
Land use:				
Harvested crops--				
Corn	208	8.97	159	9.76
Barley	0	na	0	na
Oats	d	na	1	28.45
Sorghum	0	na	0	na
Soybeans	214	8.58	140	10.39
Wheat	33	20.65	17	15.38
Other	d	na	4	45.45
Pasture and hay	37	27.59	38	14.15
Government programs	96	9.65	61	8.90
Summer fallow	0	na	d	na

d - Insufficient data for disclosure.

na - Not applicable.

^{1/} The coefficient of variation provides a means of evaluating survey results. The smaller the coefficient, the greater the reliability of the estimate.

^{2/} Data may not add because some categories (such as land rented on an animal-unit-month basis, land rented free from others, and land cash- or share-rented to others) are not listed.

Source: 1987 Farm Costs and Returns Survey, U.S. Department of Agriculture.

Appendix table 6--Value of assets and debt: Indiana corn farms by selected sales class versus all Indiana corn farms, 1987

Item	Farms with sales of \$100,000-\$249,999		All Indiana corn farms	
	Average per farm	Coefficient of variation ^{1/}	Average per farm	Coefficient of variation ^{1/}
	<u>Dollars</u>	<u>Percent</u>	<u>Dollars</u>	<u>Percent</u>
Assets:				
Land and buildings	330,865	17.38	241,045	9.03
Machinery and equipment	102,775	9.09	70,416	8.19
Livestock	16,069	21.64	16,975	14.44
Crop inventory	51,064	12.77	34,498	14.13
Purchased inputs	6,277	22.96	4,816	24.19
Other assets	67,088	40.72	63,601	17.72
Total ^{2/}	574,138	11.57	431,340	7.58
Debt:				
Production Credit Association	0	na	d	na
Farmers Home Administration	d	na	9,702	31.70
Commercial banks	44,321	23.20	26,848	14.37
Federal land banks	d	na	16,075	24.01
Merchants and dealers	2,538	41.69	4,357	46.52
Insurance companies	d	na	d	na
Individuals	15,317	28.98	6,299	23.18
Other lenders	d	na	d	na
Total ^{2/}	100,658	18.72	73,695	11.76

d - Insufficient data for disclosure.

na - Not applicable.

^{1/} The coefficient of variation provides a means of evaluating survey results. The smaller the coefficient, the greater the reliability of the estimate.

^{2/} Data may not add due to rounding or nondisclosure of data.

Source: 1987 Farm Costs and Returns Survey, U.S. Department of Agriculture.

Appendix table 7--Farm labor: Indiana corn farms by selected sales class
versus all Indiana corn farms, 1987

Item	Farms with sales of \$100,000-\$249,999		All Indiana corn farms	
	Average per farm	Coefficient of variation ^{1/}	Average per farm	Coefficient of variation ^{1/}
	<u>Hours per week</u>	<u>Percent</u>	<u>Hours per week</u>	<u>Percent</u>
Labor hours:				
Operator	51	5.04	42	3.83
Unpaid labor	20	23.00	16	12.64
	<u>Number</u>	<u>Percent</u>	<u>Number</u>	<u>Percent</u>
Hired labor:				
Hired workers (peak) ^{2/}	2	21.81	1	12.24

d = Insufficient data for disclosure.

na = Not applicable.

^{1/} The coefficient of variation provides a means of evaluating survey results. The smaller the coefficient, the greater the reliability of the estimate.

^{2/} Peak number of workers hired at any one time during the year.

Source: 1987 Farm Costs and Returns Survey, U.S. Department of Agriculture.

Appendix table 8--Income and expenses: Indiana corn farms by selected sales class versus all Indiana corn farms, 1987

Item	Farms with sales of \$100,000-\$249,999		All Indiana corn farms	
	Average per farm	Coefficient of variation ^{1/}	Average per farm	Coefficient of variation ^{1/}
	<u>Dollars</u>	<u>Percent</u>	<u>Dollars</u>	<u>Percent</u>
Income:				
Crop sales, including CCC	73,210	16.53	53,052	14.13
Livestock sales	28,355	21.71	30,758	15.47
Government payments	24,763	13.29	15,764	10.52
Other farm income	5,772	18.16	4,163	16.79
Gross cash farm income ^{2/}	132,100	9.51	103,738	9.74
Nonfarm income	19,682	15.72	23,150	13.36
Expenses:				
Seed	8,337	17.33	5,243	12.42
Fertilizer, lime, and chemicals	20,799	9.78	15,832	10.56
Fuel and oil	6,763	10.68	4,326	8.98
Feed	7,095	23.48	7,975	23.35
Livestock purchases	6,009	35.91	5,655	21.03
Livestock services	532	35.80	709	21.12
Equipment lease	1,236	38.19	d	na
Marketing	d	na	1,208	21.18
Hired labor ^{3/}	3,155	27.85	1,699	22.03
Contract labor	d	na	d	na
Custom work	1,075	35.42	675	17.68
Interest payments	12,083	19.25	7,957	12.07
Property taxes	5,557	9.82	3,984	9.35
General business	7,068	13.63	5,060	9.26
Cash rent	10,979	22.65	8,166	19.95
Miscellaneous	9,708	11.52	7,269	9.96
Total ^{2/}	102,642	9.19	76,511	9.21

d - Insufficient data for disclosure.

na - Not applicable.

^{1/} The coefficient of variation provides a means of evaluating survey results. The smaller the coefficient, the greater the reliability of the estimate.

^{2/} Data may not add due to rounding or nondisclosure of data.

^{3/} Excludes wages paid to operator and family members.

Source: 1987 Farm Costs and Returns Survey, U.S. Department of Agriculture.

Appendix table 9--Land use and tenure: Iowa corn farms by selected sales class versus all Iowa corn farms, 1987

Item	Farms with sales of \$100,000-\$249,999		All Iowa corn farms	
	Average per farm	Coefficient of variation ^{1/}	Average per farm	Coefficient of variation ^{1/}
	<u>Acres</u>	<u>Percent</u>	<u>Acres</u>	<u>Percent</u>
Land tenure:				
Owned	214	12.21	184	6.29
Cash-rented	138	16.07	98	9.72
Share-rented	197	12.22	119	9.00
Total operated ^{2/}	543	4.53	391	3.92
Land use:				
Harvested crops--				
Corn	191	5.06	134	4.39
Barley	d	na	d	na
Oats	8	18.56	6	11.26
Sorghum	0	na	0	na
Soybeans	148	8.71	104	5.67
Wheat	d	na	d	na
Other	d	na	3	43.04
Pasture and hay	74	11.12	58	8.44
Government programs	91	7.65	63	5.98
Summer fallow	0	na	0	na

d = Insufficient data for disclosure.

na = Not applicable.

^{1/} The coefficient of variation provides a means of evaluating survey results. The smaller the coefficient, the greater the reliability of the estimate.

^{2/} Data may not add because some categories (such as land rented on an animal-unit-month basis, land rented free from others, and land cash- or share-rented to others) are not listed.

Source: 1987 Farm Costs and Returns Survey, U.S. Department of Agriculture.

Appendix table 10--Value of assets and debt: Iowa corn farms by selected sales class versus all Iowa corn farms, 1987

Item	Farms with sales of \$100,000-\$249,999		All Iowa corn farms	
	Average per farm	Coefficient of variation 1/	Average per farm	Coefficient of variation 1/
	<u>Dollars</u>	<u>Percent</u>	<u>Dollars</u>	<u>Percent</u>
Assets:				
Land and buildings	212,163	12.96	191,470	6.41
Machinery and equipment	76,654	6.37	58,737	4.74
Livestock	29,274	12.16	27,635	7.59
Crop inventory	54,475	9.62	40,149	6.66
Purchased inputs	3,997	25.18	3,536	13.34
Other assets	42,538	22.34	39,669	13.60
Total 2/	419,100	7.80	361,196	5.02
Debt:				
Production Credit Association	d	na	1,254	37.69
Farmers Home Administration	22,206	25.64	15,012	17.87
Commercial banks	43,035	17.54	30,576	10.44
Federal land banks	28,677	26.00	19,543	17.27
Merchants and dealers	2,307	25.36	1,685	17.29
Insurance companies	d	na	6,754	32.64
Individuals	32,556	28.26	20,305	16.18
Other lenders	7,161	45.34	3,712	30.88
Total 2/	140,196	14.23	98,841	8.69

d - Insufficient data for disclosure.

na - Not applicable.

1/ The coefficient of variation provides a means of evaluating survey results. The smaller the coefficient, the greater the reliability of the estimate.

2/ Data may not add due to rounding or nondisclosure of data.

Source: 1987 Farm Costs and Returns Survey, U.S. Department of Agriculture.

Appendix table 11--Farm labor: Iowa corn farms by selected sales class
versus all Iowa corn farms, 1987

Item	Farms with sales of \$100,000-\$249,999		All Iowa corn farms	
	Average per farm	Coefficient of variation <u>1/</u>	Average per farm	Coefficient of variation <u>1/</u>
	<u>Hours per week</u>	<u>Percent</u>	<u>Hours per week</u>	<u>Percent</u>
Labor hours:				
Operator	52	4.23	45	2.97
Unpaid labor	14	12.91	12	9.66
	<u>Number</u>	<u>Percent</u>	<u>Number</u>	<u>Percent</u>
Hired labor:				
Hired workers (peak) <u>2/</u>	2	13.39	2	7.75

d - Insufficient data for disclosure.

na - Not applicable.

1/ The coefficient of variation provides a means of evaluating survey results. The smaller the coefficient, the greater the reliability of the estimate.

2/ Peak number of workers hired at any one time during the year.

Source: 1987 Farm Costs and Returns Survey, U.S. Department of Agriculture.

Appendix table 12--Income and expenses: Iowa corn farms by selected sales class versus all Iowa corn farms, 1987

Item	Farms with sales of \$100,000-\$249,999		All Iowa corn farms	
	Average per farm	Coefficient of variation 1/	Average per farm	Coefficient of variation 1/
	<u>Dollars</u>	<u>Percent</u>	<u>Dollars</u>	<u>Percent</u>
Income:				
Crop sales, including CCC	44,242	10.32	32,159	6.43
Livestock sales	48,185	12.31	45,566	7.76
Government payments	31,564	10.07	22,193	6.56
Other farm income	8,576	19.86	7,188	11.61
Gross cash farm income 2/	132,567	4.49	107,105	4.66
Nonfarm income	15,583	33.19	15,201	11.81
Expenses:				
Seed	5,267	6.11	3,826	4.66
Fertilizer, lime, and chemicals	14,120	7.56	10,322	5.59
Fuel and oil	4,963	10.64	3,789	5.71
Feed	13,536	13.60	11,621	8.99
Livestock purchases	6,823	23.14	11,661	12.64
Livestock services	1,213	14.60	1,085	10.04
Equipment lease	452	43.76	291	33.70
Marketing	2,520	12.24	1,848	7.75
Hired labor 3/	1,585	20.04	1,280	11.85
Contract labor	154	43.51	89	29.07
Custom work	2,086	37.11	1,470	17.70
Interest payments	12,583	12.72	9,970	8.08
Property taxes	3,237	11.85	2,746	6.51
General business	6,472	5.29	5,053	4.10
Cash rent	9,931	16.42	7,219	10.16
Miscellaneous	8,557	5.36	6,733	4.83
Total 2/	93,498	5.00	79,004	4.89

d - Insufficient data for disclosure.

na - Not applicable.

1/ The coefficient of variation provides a means of evaluating survey results. The smaller the coefficient, the greater the reliability of the estimate.

2/ Data may not add due to rounding or nondisclosure of data.

3/ Excludes wages paid to operator and family members.

Source: 1987 Farm Costs and Returns Survey, U.S. Department of Agriculture.

Appendix table 13--Land use and tenure: Minnesota corn farms by selected sales class versus all Minnesota corn farms, 1987

Item	Farms with sales of \$100,000-\$249,999		All Minnesota corn farms	
	Average per farm	Coefficient of variation ^{1/}	Average per farm	Coefficient of variation ^{1/}
	<u>Acres</u>	<u>Percent</u>	<u>Acres</u>	<u>Percent</u>
Land tenure:				
Owned	282	9.28	205	5.35
Cash-rented	170	17.70	120	9.59
Share-rented	18	35.05	25	18.92
Total operated ^{2/}	459	6.81	346	4.46
Land use:				
Harvested crops--				
Corn	108	7.34	83	5.30
Barley	7	30.38	6	16.97
Oats	9	21.96	10	11.88
Sorghum	0	na	0	na
Soybeans	78	14.08	70	7.48
Wheat	24	37.72	15	18.11
Other	27	31.67	11	22.15
Pasture and hay	70	15.34	52	9.25
Government programs	75	12.66	49	6.64
Summer fallow	d	na	d	na

d - Insufficient data for disclosure.

na - Not applicable.

^{1/} The coefficient of variation provides a means of evaluating survey results. The smaller the coefficient, the greater the reliability of the estimate.

^{2/} Data may not add because some categories (such as land rented on an animal-unit-month basis, land rented free from others, and land cash- or share-rented to others) are not listed.

Source: 1987 Farm Costs and Returns Survey, U.S. Department of Agriculture.

Appendix table 14--Value of assets and debt: Minnesota corn farms by selected sales class versus all Minnesota corn farms, 1987

Item	Farms with sales of \$100,000-\$249,999		All Minnesota corn farms	
	Average per farm	Coefficient of variation ^{1/}	Average per farm	Coefficient of variation ^{1/}
	<u>Dollars</u>	<u>Percent</u>	<u>Dollars</u>	<u>Percent</u>
Assets:				
Land and buildings	246,021	11.27	171,130	6.43
Machinery and equipment	80,575	6.07	62,593	6.34
Livestock	54,156	15.30	31,302	9.89
Crop inventory	30,447	11.90	23,472	8.29
Purchased inputs	4,850	23.03	3,873	14.80
Other assets	44,994	26.69	32,984	14.45
Total ^{2/}	461,044	8.70	325,354	5.77
Debt:				
Production Credit Assoc- iation	11,919	36.81	4,212	25.83
Farmers Home Admini- stration	19,027	37.21	10,345	22.15
Commercial banks	28,843	29.41	25,405	13.04
Federal land banks	36,022	26.96	21,120	19.34
Merchants and dealers	2,009	26.31	2,607	28.74
Insurance companies	d	na	1,900	42.52
Individuals	38,817	27.31	22,286	15.77
Other lenders	d	na	2,967	38.32
Total ^{2/}	143,385	12.22	90,841	8.53

d - Insufficient data for disclosure.

na - Not applicable.

^{1/} The coefficient of variation provides a means of evaluating survey results. The smaller the coefficient, the greater the reliability of the estimate.

^{2/} Data may not add due to rounding or nondisclosure of data.

Source: 1987 Farm Costs and Returns Survey, U.S. Department of Agriculture.

Appendix table 15--Farm labor: Minnesota corn farms by selected sales class versus all Minnesota corn farms, 1987

Item	Farms with sales of \$100,000-\$249,999		All Minnesota corn farms	
	Average per farm	Coefficient of variation ^{1/}	Average per farm	Coefficient of variation ^{1/}
	<u>Hours per week</u>	<u>Percent</u>	<u>Hours per week</u>	<u>Percent</u>
Labor hours:				
Operator	64	4.69	52	3.68
Unpaid labor	23	20.67	23	13.29
	<u>Number</u>	<u>Percent</u>	<u>Number</u>	<u>Percent</u>
Hired labor:				
Hired workers (peak) ^{2/}	2	13.58	1	9.32

d - Insufficient data for disclosure.

na - Not applicable.

^{1/} The coefficient of variation provides a means of evaluating survey results. The smaller the coefficient, the greater the reliability of the estimate.

^{2/} Peak number of workers hired at any one time during the year.

Source: 1987 Farm Costs and Returns Survey, U.S. Department of Agriculture.

Appendix table 16--Income and expenses: Minnesota corn farms by selected sales class versus all Minnesota corn farms, 1987

Item	Farms with sales of \$100,000-\$249,999		All Minnesota corn farms	
	Average per farm	Coefficient of variation ^{1/}	Average per farm	Coefficient of variation ^{1/}
	Dollars	Percent	Dollars	Percent
Income:				
Crop sales, including CCC	28,500	16.36	22,474	8.11
Livestock sales	76,872	12.57	45,711	9.73
Government payments	22,913	10.42	15,669	6.89
Other farm income	5,332	24.73	3,819	17.72
Gross cash farm income ^{2/}	133,617	5.37	87,672	6.38
Nonfarm income	12,973	14.01	16,107	9.36
Expenses:				
Seed	4,627	8.00	3,313	5.74
Fertilizer, lime, and chemicals	11,004	9.35	7,853	6.41
Fuel and oil	4,585	7.18	3,476	5.55
Feed	16,408	15.40	9,597	11.50
Livestock purchases	7,113	26.49	6,065	14.38
Livestock services	2,694	17.80	1,622	12.09
Equipment lease	d	na	421	29.96
Marketing	4,120	12.06	2,132	9.44
Hired labor ^{3/}	1,782	24.08	1,381	16.38
Contract labor	d	na	184	30.80
Custom work	1,544	28.35	780	14.70
Interest payments	17,202	15.44	10,084	9.18
Property taxes	2,508	10.97	1,652	7.17
General business	7,141	6.12	5,189	5.00
Cash rent	8,682	18.17	6,477	10.60
Miscellaneous	9,844	10.05	7,221	7.19
Total ^{2/}	99,933	5.27	67,444	6.00

d - Insufficient data for disclosure.

na - Not applicable.

^{1/} The coefficient of variation provides a means of evaluating survey results. The smaller the coefficient, the greater the reliability of the estimate.

^{2/} Data may not add due to rounding or nondisclosure of data.

^{3/} Excludes wages paid to operator and family members.

Source: 1987 Farm Costs and Returns Survey, U.S. Department of Agriculture.

Appendix table 17--Land use and tenure: Missouri corn farms by selected sales class versus all Missouri corn farms, 1987

Item	Farms with sales of \$100,000-\$249,999		All Missouri corn farms	
	Average per farm	Coefficient of variation ^{1/}	Average per farm	Coefficient of variation ^{1/}
	<u>Acres</u>	<u>Percent</u>	<u>Acres</u>	<u>Percent</u>
Land tenure:				
Owned	392	24.28	303	10.67
Cash-rented	232	29.01	110	20.97
Share-rented	420	18.74	233	15.63
Total operated ^{2/}	1,038	8.68	641	8.53
Land use:				
Harvested crops--				
Corn	182	10.48	103	10.61
Barley	0	na	0	na
Oats	d	na	2	31.14
Sorghum	11	34.30	11	28.71
Soybeans	354	15.63	188	14.32
Wheat	25	41.27	22	19.77
Other	d	na	3	48.62
Pasture and hay	219	28.24	173	12.54
Government programs	105	9.52	62	10.82
Summer fallow	0	na	d	na

d - Insufficient data for disclosure.

na - Not applicable.

^{1/} The coefficient of variation provides a means of evaluating survey results. The smaller the coefficient, the greater the reliability of the estimate.

^{2/} Data may not add because some categories (such as land rented on an animal-unit-month basis, land rented free from others, and land cash- or share-rented to others) are not listed.

Source: 1987 Farm Costs and Returns Survey, U.S. Department of Agriculture.

Appendix table 18--Value of assets and debt: Missouri corn farms by selected sales class versus all Missouri corn farms, 1987

Item	Farms with sales of \$100,000-\$249,999		All Missouri corn farms	
	Average per farm	Coefficient of variation ^{1/}	Average per farm	Coefficient of variation ^{1/}
	<u>Dollars</u>	<u>Percent</u>	<u>Dollars</u>	<u>Percent</u>
Assets:				
Land and buildings	322,456	24.10	229,274	10.71
Machinery and equipment	111,200	13.68	75,274	10.53
Livestock	45,411	23.78	31,219	12.06
Crop inventory	37,565	19.15	25,238	17.07
Purchased inputs	4,113	30.18	1,651	22.84
Other assets	115,062	29.99	68,192	21.93
Total ^{2/}	635,806	18.05	430,847	8.88
Debt:				
Production Credit Association	d	na	1,413	46.16
Farmers Home Administration	14,173	46.44	d	na
Commercial banks	42,280	22.85	30,752	20.17
Federal land banks	27,999	43.85	14,183	26.63
Merchants and dealers	6,378	35.41	2,556	26.34
Insurance companies	d	na	d	na
Individuals	5,652	47.10	11,892	41.39
Other lenders	1,289	45.65	d	na
Total ^{2/}	101,484	18.42	90,326	16.44

d = Insufficient data for disclosure.

na = Not applicable.

^{1/} The coefficient of variation provides a means of evaluating survey results. The smaller the coefficient, the greater the reliability of the estimate.

^{2/} Data may not add due to rounding or nondisclosure of data.

Source: 1987 Farm Costs and Returns Survey, U.S. Department of Agriculture.

Appendix table 19--Farm labor: Missouri corn farms by selected sales class versus all Missouri corn farms, 1987

Item	Farms with sales of \$100,000-\$249,999		All Missouri corn farms	
	Average per farm	Coefficient of variation ^{1/}	Average per farm	Coefficient of variation ^{1/}
	<u>Hours per week</u>	<u>Percent</u>	<u>Hours per week</u>	<u>Percent</u>
Labor hours:				
Operator	57	5.79	49	4.61
Unpaid labor	19	38.15	14	22.29
	<u>Number</u>	<u>Percent</u>	<u>Number</u>	<u>Percent</u>
Hired labor:				
Hired workers (peak) ^{2/}	2	18.89	1	13.77

d - Insufficient data for disclosure.

na - Not applicable.

^{1/} The coefficient of variation provides a means of evaluating survey results. The smaller the coefficient, the greater the reliability of the estimate.

^{2/} Peak number of workers hired at any one time during the year.

Source: 1987 Farm Costs and Returns Survey, U.S. Department of Agriculture.

Appendix table 20--Income and expenses: Missouri corn farms by selected sales class versus all Missouri corn farms, 1987

Item	Farms with sales of \$100,000-\$249,999		All Missouri corn farms	
	Average per farm	Coefficient of variation ^{1/}	Average per farm	Coefficient of variation ^{1/}
	<u>Dollars</u>	<u>Percent</u>	<u>Dollars</u>	<u>Percent</u>
Income:				
Crop sales, including CCC	69,614	15.30	38,022	13.63
Livestock sales	44,025	24.14	35,022	18.40
Government payments	21,137	9.14	12,541	11.16
Other farm income	6,294	25.39	3,253	16.17
Gross cash farm income ^{2/}	141,071	6.55	88,839	10.13
Nonfarm income	12,121	34.05	20,173	22.83
Expenses:				
Seed	7,279	17.91	3,550	12.94
Fertilizer, lime, and chemicals	20,814	10.53	12,920	14.62
Fuel and oil	6,812	10.44	4,630	11.80
Feed	11,739	26.71	7,706	16.47
Livestock purchases	8,082	37.33	9,725	30.24
Livestock services	766	26.00	873	16.48
Equipment lease	d	na	d	na
Marketing	1,261	24.14	838	15.96
Hired labor ^{3/}	4,155	21.61	2,257	20.02
Contract labor	d	na	d	na
Custom work	1,635	31.86	1,305	17.97
Interest payments	13,710	16.33	9,002	16.37
Property taxes	1,660	17.20	1,298	9.00
General business	8,580	21.23	4,989	12.14
Cash rent	8,273	32.35	3,454	25.48
Miscellaneous	9,525	13.25	8,256	11.36
Total ^{2/}	104,650	5.67	71,182	10.80

d - Insufficient data for disclosure.

na - Not applicable.

^{1/} The coefficient of variation provides a means of evaluating survey results. The smaller the coefficient, the greater the reliability of the estimate.

^{2/} Data may not add due to rounding or nondisclosure of data.

^{3/} Excludes wages paid to operator and family members.

Source: 1987 Farm Costs and Returns Survey, U.S. Department of Agriculture.

Appendix table 21--Land use and tenure: Nebraska corn farms by selected sales class versus all Nebraska corn farms, 1987

Item	Farms with sales of \$100,000-\$249,999		All Nebraska corn farms	
	Average per farm	Coefficient of variation ^{1/}	Average per farm	Coefficient of variation ^{1/}
	<u>Acres</u>	<u>Percent</u>	<u>Acres</u>	<u>Percent</u>
Land tenure:				
Owned	449	30.69	328	16.98
Cash-rented	181	26.49	176	19.41
Share-rented	292	21.11	200	13.63
Total operated ^{2/}	909	17.63	691	10.51
Land use:				
Harvested crops--				
Corn	185	10.82	163	6.87
Barley	d	na	d	na
Oats	11	32.49	8	20.50
Sorghum	32	35.69	20	25.34
Soybeans	64	13.02	57	11.79
Wheat	24	32.46	17	21.63
Other	d	na	15	34.54
Pasture and hay	411	36.12	296	21.57
Government programs	88	8.64	66	7.77
Summer fallow	11	46.99	10	29.46

d = Insufficient data for disclosure.

na = Not applicable.

^{1/} The coefficient of variation provides a means of evaluating survey results. The smaller the coefficient, the greater the reliability of the estimate.

^{2/} Data may not add because some categories (such as land rented on an animal-unit-month basis, land rented free from others, and land cash- or share-rented to others) are not listed.

Source: 1987 Farm Costs and Returns Survey, U.S. Department of Agriculture.

Appendix table 22--Value of assets and debt: Nebraska corn farms by selected sales class versus all Nebraska corn farms, 1987

Item	Farms with sales of \$100,000-\$249,999		All Nebraska corn farms	
	Average per farm	Coefficient of variation ^{1/}	Average per farm	Coefficient of variation ^{1/}
	<u>Dollars</u>	<u>Percent</u>	<u>Dollars</u>	<u>Percent</u>
Assets:				
Land and buildings	210,297	11.27	185,258	8.13
Machinery and equipment	70,682	11.26	66,812	6.38
Livestock	54,430	14.34	49,269	10.29
Crop inventory	36,289	14.98	33,520	11.05
Purchased inputs	3,154	23.64	2,954	17.63
Other assets	84,710	19.89	67,849	16.30
Total ^{2/}	459,562	8.04	405,662	6.47
Debt:				
Production Credit Association	d	na	2,602	39.54
Farmers Home Administration	10,833	40.57	12,880	27.02
Commercial banks	30,070	29.91	30,542	15.61
Federal land banks	10,147	44.21	9,270	24.16
Merchants and dealers	2,288	39.16	2,208	27.39
Insurance companies	d	na	3,855	43.51
Individuals	10,557	31.95	8,239	21.15
Other lenders	d	na	3,353	29.64
Total ^{2/}	70,618	18.67	72,949	10.72

d = Insufficient data for disclosure.

na = Not applicable.

^{1/} The coefficient of variation provides a means of evaluating survey results. The smaller the coefficient, the greater the reliability of the estimate.

^{2/} Data may not add due to rounding or nondisclosure of data.

Source: 1987 Farm Costs and Returns Survey, U.S. Department of Agriculture.

Appendix table 23--Farm labor: Nebraska corn farms by selected sales class versus all Nebraska corn farms, 1987

Item	Farms with sales of \$100,000-\$249,999		All Nebraska corn farms	
	Average per farm	Coefficient of variation ^{1/}	Average per farm	Coefficient of variation ^{1/}
	<u>Hours per week</u>	<u>Percent</u>	<u>Hours per week</u>	<u>Percent</u>
Labor hours:				
Operator	56	6.83	52	5.00
Unpaid labor	16	20.74	13	12.25
	<u>Number</u>	<u>Percent</u>	<u>Number</u>	<u>Percent</u>
Hired labor:				
Hired workers (peak) ^{2/}	1	24.37	1	13.04

d - Insufficient data for disclosure.

na - Not applicable.

^{1/} The coefficient of variation provides a means of evaluating survey results. The smaller the coefficient, the greater the reliability of the estimate.

^{2/} Peak number of workers hired at any one time during the year.

Source: 1987 Farm Costs and Returns Survey, U.S. Department of Agriculture.

Appendix table 24--Income and expenses: Nebraska corn farms by selected sales class versus all Nebraska corn farms, 1987

Item	Farms with sales of \$100,000-\$249,999		All Nebraska corn farms	
	Average per farm	Coefficient of variation ^{1/}	Average per farm	Coefficient of variation ^{1/}
	<u>Dollars</u>	<u>Percent</u>	<u>Dollars</u>	<u>Percent</u>
Income:				
Crop sales, including CCC	38,388	13.56	36,198	9.86
Livestock sales	63,560	10.91	67,780	15.29
Government payments	27,311	10.03	21,139	7.86
Other farm income	4,665	26.41	9,016	46.28
Gross cash farm income ^{2/}	133,923	5.19	134,133	9.16
Nonfarm income	12,198	33.79	10,764	16.69
Expenses:				
Seed	5,512	10.21	4,362	7.78
Fertilizer, lime, and chemicals	10,984	12.37	9,205	7.97
Fuel and oil	6,701	11.40	5,709	7.62
Feed	11,825	18.51	12,819	14.79
Livestock purchases	17,802	24.66	27,116	24.10
Livestock services	1,679	23.09	1,791	16.34
Equipment lease	d	na	400	32.05
Marketing	1,349	21.15	1,468	14.54
Hired labor ^{3/}	1,518	32.06	2,615	19.01
Contract labor	d	na	329	38.79
Custom work	1,882	20.46	1,414	14.64
Interest payments	8,045	19.93	8,333	11.02
Property taxes	3,657	10.72	3,052	8.29
General business	7,971	13.82	7,206	8.04
Cash rent	5,167	25.48	5,320	15.90
Miscellaneous	8,844	10.62	8,366	8.00
Total ^{2/}	94,151	6.25	99,506	9.95

d - Insufficient data for disclosure.

na - Not applicable.

^{1/} The coefficient of variation provides a means of evaluating survey results. The smaller the coefficient, the greater the reliability of the estimate.

^{2/} Data may not add due to rounding or nondisclosure of data.

^{3/} Excludes wages paid to operator and family members.

Source: 1987 Farm Costs and Returns Survey, U.S. Department of Agriculture.

Appendix table 25--Land use and tenure: Ohio corn farms by selected sales class versus all Ohio corn farms, 1987

Item	Farms with sales of \$100,000-\$249,999		All Ohio corn farms	
	Average per farm	Coefficient of variation ^{1/}	Average per farm	Coefficient of variation ^{1/}
	<u>Acres</u>	<u>Percent</u>	<u>Acres</u>	<u>Percent</u>
Land tenure:				
Owned	321	22.71	165	10.77
Cash-rented	160	18.31	91	11.62
Share-rented	164	26.34	62	16.63
Total operated ^{2/}	650	12.41	315	8.14
Land use:				
Harvested crops--				
Corn	139	8.34	74	7.72
Barley	d	na	d	na
Oats	8	29.55	5	16.35
Sorghum	0	na	0	na
Soybeans	136	13.35	77	9.30
Wheat	38	16.53	18	11.40
Other	d	na	2	28.17
Pasture and hay	120	30.45	54	15.00
Government programs	87	32.26	36	16.74
Summer fallow	d	na	d	na

d - Insufficient data for disclosure.

na - Not applicable.

^{1/} The coefficient of variation provides a means of evaluating survey results. The smaller the coefficient, the greater the reliability of the estimate.

^{2/} Data may not add because some categories (such as land rented on an animal-unit-month basis, land rented free from others, and land cash- or share-rented to others) are not listed.

Source: 1987 Farm Costs and Returns Survey, U.S. Department of Agriculture.

Appendix table 26--Value of assets and debt: Ohio corn farms by selected sales class versus all Ohio corn farms, 1987

Item	Farms with sales of \$100,000-\$249,999		All Ohio corn farms	
	Average per farm	Coefficient of variation ^{1/}	Average per farm	Coefficient of variation ^{1/}
	<u>Dollars</u>	<u>Percent</u>	<u>Dollars</u>	<u>Percent</u>
Assets:				
Land and buildings	352,221	14.19	210,857	8.13
Machinery and equipment	94,703	8.65	58,956	8.25
Livestock	62,164	32.22	23,262	19.23
Crop inventory	33,229	12.58	17,543	9.80
Purchased inputs	4,044	34.08	1,802	17.19
Other assets	32,509	29.81	33,055	18.17
Total ^{2/}	578,869	11.48	345,475	7.26
Debt:				
Production Credit Assoc- iation	8,778	35.74	4,726	21.64
Farmers Home Admini- stration	22,635	39.81	6,551	29.90
Commercial banks	41,327	27.23	20,267	14.18
Federal land banks	25,171	25.17	12,790	23.12
Merchants and dealers	3,795	30.52	1,680	21.44
Insurance companies	d	na	d	na
Individuals	d	na	d	na
Other lenders	3,175	36.33	1,539	26.64
Total ^{2/}	124,207	21.61	57,930	12.31

d = Insufficient data for disclosure.

na = Not applicable.

^{1/} The coefficient of variation provides a means of evaluating survey results. The smaller the coefficient, the greater the reliability of the estimate.

^{2/} Data may not add due to rounding or nondisclosure of data.

Source: 1987 Farm Costs and Returns Survey, U.S. Department of Agriculture.

Appendix table 27--Farm labor: Ohio corn farms by selected sales class
versus all Ohio corn farms, 1987

Item	Farms with sales of \$100,000-\$249,999		All Ohio corn farms	
	Average per farm	Coefficient of variation <u>1/</u>	Average per farm	Coefficient of variation <u>1/</u>
	<u>Hours per week</u>	<u>Percent</u>	<u>Hours per week</u>	<u>Percent</u>
Labor hours:				
Operator	59	4.81	43	4.75
Unpaid labor	28	17.10	15	13.04
	<u>Number</u>	<u>Percent</u>	<u>Number</u>	<u>Percent</u>
Hired labor:				
Hired workers (peak) <u>2/</u>	2	15.67	1	12.08

d = Insufficient data for disclosure.

na = Not applicable.

1/ The coefficient of variation provides a means of evaluating survey results. The smaller the coefficient, the greater the reliability of the estimate.

2/ Peak number of workers hired at any one time during the year.

Source: 1987 Farm Costs and Returns Survey, U.S. Department of Agriculture.

Appendix table 28--Income and expenses: Ohio corn farms by selected sales class versus all Ohio corn farms, 1987

Item	Farms with sales of \$100,000-\$249,999		All Ohio corn farms	
	Average per farm	Coefficient of variation ^{1/}	Average per farm	Coefficient of variation ^{1/}
	<u>Dollars</u>	<u>Percent</u>	<u>Dollars</u>	<u>Percent</u>
Income:				
Crop sales, including CCC	45,456	16.13	25,323	10.10
Livestock sales	77,753	12.65	31,865	12.90
Government payments	18,553	18.52	8,599	12.66
Other farm income	3,643	29.74	2,116	17.10
Gross cash farm income ^{2/}	145,405	5.97	67,904	8.69
Nonfarm income	10,139	16.36	18,189	7.27
Expenses:				
Seed	6,206	12.42	2,929	9.10
Fertilizer, lime, and chemicals	19,635	9.66	9,837	8.53
Fuel and oil	6,025	10.10	2,873	7.92
Feed	17,908	17.76	6,737	14.13
Livestock purchases	12,177	34.39	3,854	23.46
Livestock services	2,392	21.48	1,089	19.94
Equipment lease	d	na	d	na
Marketing	1,685	20.61	921	15.16
Hired labor ^{3/}	4,239	37.17	2,042	21.50
Contract labor	d	na	d	na
Custom work	970	23.52	528	15.90
Interest payments	11,864	18.99	6,235	13.02
Property taxes	4,027	32.56	1,916	14.29
General business	5,729	9.15	3,079	7.71
Cash rent	9,130	17.93	4,948	12.47
Miscellaneous	11,391	11.38	6,057	9.93
Total ^{2/}	115,342	7.40	53,651	8.16

d - Insufficient data for disclosure.

na - Not applicable.

^{1/} The coefficient of variation provides a means of evaluating survey results. The smaller the coefficient, the greater the reliability of the estimate.

^{2/} Data may not add due to rounding or nondisclosure of data.

^{3/} Excludes wages paid to operator and family members.

Source: 1987 Farm Costs and Returns Survey, U.S. Department of Agriculture.

Appendix table 29--Land use and tenure: South Dakota corn farms by selected sales class versus all South Dakota corn farms, 1987

Item	Farms with sales of \$100,000-\$249,999		All South Dakota corn farms	
	Average per farm	Coefficient of variation ^{1/}	Average per farm	Coefficient of variation ^{1/}
	<u>Acres</u>	<u>Percent</u>	<u>Acres</u>	<u>Percent</u>
Land tenure:				
Owned	641	16.36	495	9.15
Cash-rented	541	32.78	281	20.75
Share-rented	230	20.98	157	15.92
Total operated ^{2/}	1,385	14.06	897	8.89
Land use:				
Harvested crops--				
Corn	179	8.26	132	7.95
Barley	29	24.12	27	14.69
Oats	49	20.47	31	13.07
Sorghum	d	na	d	na
Soybeans	82	20.22	72	16.19
Wheat	187	20.42	98	14.55
Other	53	38.93	23	28.25
Pasture and hay	501	32.02	325	17.32
Government programs	183	12.40	112	9.35
Summer fallow	d	na	13	45.64

d - Insufficient data for disclosure.

na - Not applicable.

^{1/} The coefficient of variation provides a means of evaluating survey results. The smaller the coefficient, the greater the reliability of the estimate.

^{2/} Data may not add because some categories (such as land rented on an animal-unit-month basis, land rented free from others, and land cash- or share-rented to others) are not listed.

Source: 1987 Farm Costs and Returns Survey, U.S. Department of Agriculture.

Appendix table 30--Value of assets and debt: South Dakota corn farms by selected sales class versus all South Dakota corn farms, 1987

Item	Farms with sales of \$100,000-\$249,999		All South Dakota corn farms	
	Average per farm	Coefficient of variation ^{1/}	Average per farm	Coefficient of variation ^{1/}
	<u>Dollars</u>	<u>Percent</u>	<u>Dollars</u>	<u>Percent</u>
Assets:				
Land and buildings	175,316	9.88	185,057	8.62
Machinery and equipment	90,453	10.84	69,112	8.82
Livestock	62,230	21.86	46,930	14.56
Crop inventory	73,435	49.80	37,406	28.35
Purchased inputs	3,365	23.96	1,609	18.37
Other assets	80,417	24.88	73,211	17.10
Total ^{2/}	485,216	12.56	413,325	7.84
Debt:				
Production Credit Association	d	na	d	na
Farmers Home Administration	19,302	26.40	12,403	23.22
Commercial banks	33,541	21.04	30,701	13.25
Federal land banks	17,672	26.37	12,822	17.80
Merchants and dealers	820	40.71	d	na
Insurance companies	d	na	d	na
Individuals	9,474	34.99	8,029	25.49
Other lenders	d	na	2,156	44.82
Total ^{2/}	84,600	12.01	75,444	10.26

d - Insufficient data for disclosure.

na - Not applicable.

^{1/} The coefficient of variation provides a means of evaluating survey results. The smaller the coefficient, the greater the reliability of the estimate.

^{2/} Data may not add due to rounding or nondisclosure of data.

Source: 1987 Farm Costs and Returns Survey, U.S. Department of Agriculture.

Appendix table 31--Farm labor: South Dakota corn farms by selected sales class versus all South Dakota corn farms, 1987

Item	Farms with sales of \$100,000-\$249,999		All South Dakota corn farms	
	Average per farm	Coefficient of variation ^{1/}	Average per farm	Coefficient of variation ^{1/}
	<u>Hours per week</u>	<u>Percent</u>	<u>Hours per week</u>	<u>Percent</u>
Labor hours:				
Operator	59	3.80	48	4.59
Unpaid labor	20	23.73	17	14.68
	<u>Number</u>	<u>Percent</u>	<u>Number</u>	<u>Percent</u>
Hired labor:				
Hired workers (peak) ^{2/}	1	17.30	1	19.03

d - Insufficient data for disclosure.

na - Not applicable.

^{1/} The coefficient of variation provides a means of evaluating survey results. The smaller the coefficient, the greater the reliability of the estimate.

^{2/} Peak number of workers hired at any one time during the year.

Source: 1987 Farm Costs and Returns Survey, U.S. Department of Agriculture.

Appendix table 32--Income and expenses: South Dakota corn farms by selected sales class versus all South Dakota corn farms, 1987

Item	Farms with sales of \$100,000-\$249,999		All South Dakota corn farms	
	Average per farm	Coefficient of variation ^{1/}	Average per farm	Coefficient of variation ^{1/}
	<u>Dollars</u>	<u>Percent</u>	<u>Dollars</u>	<u>Percent</u>
Income:				
Crop sales, including CCC	27,292	15.98	21,698	11.86
Livestock sales	70,280	11.50	56,542	13.40
Government payments	24,886	9.38	17,229	8.71
Other farm income	6,321	24.62	4,294	15.04
Gross cash farm income ^{2/}	128,779	6.31	99,763	9.13
Nonfarm income	5,945	18.16	10,906	14.29
Expenses:				
Seed	5,052	8.57	3,779	9.60
Fertilizer, lime, and chemicals	9,365	10.95	7,321	9.82
Fuel and oil	6,548	6.63	4,715	6.95
Feed	10,441	14.27	8,574	13.99
Livestock purchases	15,634	30.97	14,895	22.89
Livestock services	997	13.36	1,379	24.19
Equipment lease	d	na	280	37.00
Marketing	1,660	24.27	1,224	15.09
Hired labor ^{3/}	2,932	31.16	1,838	20.28
Contract labor	d	na	85	49.85
Custom work	1,955	20.41	1,515	12.22
Interest payments	7,868	17.86	7,935	11.26
Property taxes	2,632	12.74	2,366	9.04
General business	6,469	9.76	5,044	8.20
Cash rent	9,047	19.70	5,577	15.10
Miscellaneous	10,708	8.55	7,661	8.00
Total ^{2/}	91,662	7.93	74,190	9.41

d - Insufficient data for disclosure.

na - Not applicable.

^{1/} The coefficient of variation provides a means of evaluating survey results. The smaller the coefficient, the greater the reliability of the estimate.

^{2/} Data may not add due to rounding or nondisclosure of data.

^{3/} Excludes wages paid to operator and family members.

Source: 1987 Farm Costs and Returns Survey, U.S. Department of Agriculture.

Appendix table 33--Land use and tenure: Wisconsin corn farms by selected sales class versus all Wisconsin corn farms, 1987

Item	Farms with sales of \$100,000-\$249,999		All Wisconsin corn farms	
	Average per farm	Coefficient of variation ^{1/}	Average per farm	Coefficient of variation ^{1/}
	<u>Acres</u>	<u>Percent</u>	<u>Acres</u>	<u>Percent</u>
Land tenure:				
Owned	277	7.05	205	5.35
Cash-rented	100	13.05	77	10.31
Share-rented	8	49.62	11	30.61
Total operated ^{2/}	379	4.81	291	4.56
Land use:				
Harvested crops--				
Corn	72	6.96	56	7.58
Barley	3	36.61	2	26.77
Oats	18	13.68	12	8.36
Sorghum	0	na	0	na
Soybeans	4	43.21	6	31.68
Wheat	1	48.78	1	29.29
Other	18	21.60	20	13.12
Pasture and hay	120	6.91	89	5.39
Government programs	24	16.57	22	11.51
Summer fallow	0	na	d	na

d - Insufficient data for disclosure.

na - Not applicable.

^{1/} The coefficient of variation provides a means of evaluating survey results. The smaller the coefficient, the greater the reliability of the estimate.

^{2/} Data may not add because some categories (such as land rented on an animal-unit-month basis, land rented free from others, and land cash- or share-rented to others) are not listed.

Source: 1987 Farm Costs and Returns Survey, U.S. Department of Agriculture.

Appendix table 34--Value of assets and debt: Wisconsin corn farms by selected sales class versus all Wisconsin corn farms, 1987

Item	Farms with sales of \$100,000-\$249,999		All Wisconsin corn farms	
	Average per farm	Coefficient of variation ^{1/}	Average per farm	Coefficient of variation ^{1/}
	<u>Dollars</u>	<u>Percent</u>	<u>Dollars</u>	<u>Percent</u>
Assets:				
Land and buildings	235,028	5.79	182,469	5.28
Machinery and equipment	89,951	6.00	60,169	5.45
Livestock	88,777	5.01	54,468	5.51
Crop inventory	23,530	7.55	19,903	10.29
Purchased inputs	d	na	1,503	30.75
Other assets	d	na	57,912	16.68
Total ^{2/}	550,654	6.26	376,424	5.12
Debt:				
Production Credit Assoc- iation	12,954	33.62	10,404	24.53
Farmers Home Admini- stration	26,953	30.26	13,097	23.35
Commercial banks	31,670	18.21	21,361	11.25
Federal land banks	28,135	26.06	15,380	18.69
Merchants and dealers	1,650	34.88	841	26.75
Insurance companies	d	na	d	na
Individuals	19,898	25.08	16,999	17.74
Other lenders	d	na	d	na
Total ^{2/}	125,752	10.68	80,818	8.68

d - Insufficient data for disclosure.

na - Not applicable.

^{1/} The coefficient of variation provides a means of evaluating survey results. The smaller the coefficient, the greater the reliability of the estimate.

^{2/} Data may not add due to rounding or nondisclosure of data.

Source: 1987 Farm Costs and Returns Survey, U.S. Department of Agriculture.

Appendix table 35--Farm labor: Wisconsin corn farms by selected sales class versus all Wisconsin corn farms, 1987

Item	Farms with sales of \$100,000-\$249,999		All Wisconsin corn farms	
	Average per farm	Coefficient of variation ^{1/}	Average per farm	Coefficient of variation ^{1/}
	<u>Hours per week</u>	<u>Percent</u>	<u>Hours per week</u>	<u>Percent</u>
Labor hours:				
Operator	76	2.11	63	2.75
Unpaid labor	29	13.54	24	8.69
	<u>Number</u>	<u>Percent</u>	<u>Number</u>	<u>Percent</u>
Hired labor:				
Hired workers (peak) ^{2/}	3	7.83	2	7.12

^{1/} The coefficient of variation provides a means of evaluating survey results. The smaller the coefficient, the greater the reliability of the estimate.

^{2/} Peak number of workers hired at any one time during the year.

Source: 1987 Farm Costs and Returns Survey, U.S. Department of Agriculture.

Appendix table 36--Income and expenses: Wisconsin corn farms by selected sales class versus all Wisconsin corn farms, 1987

Item	Farms with sales of \$100,000-\$249,999		All Wisconsin corn farms	
	Average per farm	Coefficient of variation 1/	Average per farm	Coefficient of variation 1/
	Dollars	Percent	Dollars	Percent
Income:				
Crop sales, including CCC	3,654	29.45	6,222	22.30
Livestock sales	125,684	3.98	73,032	5.27
Government payments	8,276	14.72	6,611	11.42
Other farm income	4,664	34.62	2,808	19.72
Gross cash farm income 2/	142,277	2.89	88,674	5.09
Nonfarm income	6,836	19.01	13,757	8.36
Expenses:				
Seed	3,375	9.59	2,409	8.41
Fertilizer, lime, and chemicals	7,853	9.05	5,845	8.34
Fuel and oil	3,996	7.78	2,821	5.99
Feed	21,052	8.01	11,798	6.54
Livestock purchases	4,578	25.52	2,664	15.77
Livestock services	5,829	7.96	3,369	7.07
Equipment lease	d	na	211	27.34
Marketing	5,145	6.11	3,465	6.33
Hired labor 3/	4,343	15.55	2,460	12.33
Contract labor	d	na	106	41.73
Custom work	1,028	12.34	760	12.92
Interest payments	11,704	10.20	7,714	8.69
Property taxes	5,227	6.67	4,080	4.41
General business	8,835	15.44	5,722	8.84
Cash rent	4,962	18.26	3,614	12.44
Miscellaneous	11,632	5.79	7,172	5.38
Total 2/	100,029	3.83	64,209	4.87

d - Insufficient data for disclosure.

na - Not applicable.

1/ The coefficient of variation provides a means of evaluating survey results. The smaller the coefficient, the greater the reliability of the estimate.

2/ Data may not add due to rounding or nondisclosure of data.

3/ Excludes wages paid to operator and family members.

Source: 1987 Farm Costs and Returns Survey, U.S. Department of Agriculture.

Appendix table 37--Land use and tenure: Corn Belt corn farms by size of farm, 1987

Item	Small farm 1/ Average Coefficient per farm		Mid-sized farm 2/ Average Coefficient per farm		Large farm 3/ Average Coefficient per farm	
	of varia- tion 4/ Acres Percent		of varia- tion 4/ Acres Percent		of varia- tion 4/ Acres Percent	
Land tenure:						
Owned	167	6.56	233	7.45	341	7.50
Cash-rented	63	10.21	149	9.05	289	8.99
Share-rented	127	8.72	253	6.71	340	12.30
Total operated 5/	349	3.55	633	3.18	956	5.22
Land use:						
Harvested crops--						
Corn	93	3.65	192	3.19	343	5.50
Barley	d	na	d	na	d	na
Oats	4	16.98	6	13.37	6	22.88
Sorghum	1	45.09	2	39.76	d	na
Soybeans	101	6.02	186	4.88	280	7.26
Wheat	9	16.58	19	12.65	24	16.05
Other	1	30.83	4	45.52	8	38.89
Pasture and hay	56	10.68	76	10.03	86	20.87
Government programs	45	5.60	94	5.49	142	6.23
Summer fallow	d	na	d	na	0	na

d - Insufficient data for disclosure.

na - Not applicable.

1/ \$40,000-\$99,999 gross farm sales.

2/ \$100,000-\$249,999 gross farm sales.

3/ \$250,000-\$499,999 gross farm sales.

4/ The coefficient of variation provides a means of evaluating survey results. The smaller the coefficient, the greater the reliability of the estimate.

5/ Data may not add because some categories (such as land rented on an animal-unit-month basis, land rented free from others, and land cash- or share-rented to others) are not listed.

Source: 1987 Farm Costs and Returns Survey, U.S. Department of Agriculture.

Appendix table 38--Value of assets and debt: Corn Belt corn farms by size of farm, 1987

Item	Small farm 1/ Average per farm		Mid-sized farm 2/ Average per farm		Large farm 3/ Average per farm	
	Coefficient of variation 4/		Coefficient of variation 4/		Coefficient of variation 4/	
	Dollars	Percent	Dollars	Percent	Dollars	Percent
Assets:						
Land and buildings	181,357	6.48	265,225	7.05	449,054	7.48
Machinery and equipment	55,201	6.05	93,645	4.13	147,066	5.42
Livestock	15,974	9.05	30,114	11.07	53,005	9.48
Crop inventory	20,903	5.77	46,031	5.79	82,113	6.69
Purchased inputs	1,324	12.45	4,345	12.26	11,168	16.69
Other assets	38,278	15.48	54,765	14.36	59,736	16.51
Total 5/	313,037	5.08	494,125	4.75	802,142	5.37
Debt:						
Production Credit Association	2,896	23.87	2,491	24.30	3,637	37.95
Farmers Home Administration	11,978	35.43	17,254	17.03	20,065	25.91
Commercial banks	17,752	13.30	43,354	9.71	64,941	11.39
Federal land banks	12,199	23.14	26,379	15.77	41,106	18.73
Merchants and dealers	1,218	21.92	3,343	15.75	8,887	40.08
Insurance companies	d	na	d	na	18,810	37.38
Individuals	6,791	24.39	22,082	19.00	25,936	17.51
Other lenders	d	na	d	na	6,555	48.67
Total 5/	57,817	10.48	123,213	8.54	189,937	7.61

d - Insufficient data for disclosure.

na - Not applicable.

1/ \$40,000-\$99,999 gross farm sales.

2/ \$100,000-\$249,999 gross farm sales.

3/ \$250,000-\$499,999 gross farm sales.

4/ The coefficient of variation provides a means of evaluating survey results. The smaller the coefficient, the greater the reliability of the estimate.

5/ Data may not add due to rounding or nondisclosure of data.

Source: 1987 Farm Costs and Returns Survey, U.S. Department of Agriculture.

Appendix table 39--Farm labor: Corn Belt corn farms by size of farm, 1987

Item	<u>Small farm 1/</u>		<u>Mid-sized farm 2/</u>		<u>Large farm 3/</u>	
	<u>Average</u>	<u>Coefficient</u>	<u>Average</u>	<u>Coefficient</u>	<u>Average</u>	<u>Coefficient</u>
	<u>per</u>	<u>of varia-</u>	<u>per</u>	<u>of varia-</u>	<u>per</u>	<u>of varia-</u>
	<u>farm</u>	<u>tion 4/</u>	<u>farm</u>	<u>tion 4/</u>	<u>farm</u>	<u>tion 4/</u>
	<u>Hours</u>	<u>Percent</u>	<u>Hours</u>	<u>Percent</u>	<u>Hours</u>	<u>Percent</u>
	<u>per week</u>		<u>per week</u>		<u>per week</u>	
Labor hours:						
Operator	44	2.96	53	2.15	59	2.47
Unpaid labor	10	12.34	18	8.36	25	13.30
	<u>Number</u>	<u>Percent</u>	<u>Number</u>	<u>Percent</u>	<u>Number</u>	<u>Percent</u>
Hired labor:						
Hired workers						
(peak) 5/	1	9.28	2	7.36	3	8.34

1/ \$40,000-\$99,999 gross farm sales.

2/ \$100,000-\$249,999 gross farm sales.

3/ \$250,000-\$499,999 gross farm sales.

4/ The coefficient of variation provides a means of evaluating survey results. The smaller the coefficient, the greater the reliability of the estimate.

5/ Peak number of workers hired at any one time during the year.

Source: 1987 Farm Costs and Returns Survey, U.S. Department of Agriculture.

Appendix table 40--Income and expenses: Corn Belt corn farms by size of farm, 1987

Item	Small farm 1/ Average per farm		Mid-sized farm 2/ Average per farm		Large farm 3/ Average per farm	
	Coefficient of variation 4/		Coefficient of variation 4/		Coefficient of variation 4/	
	Dollars	Percent	Dollars	Percent	Dollars	Percent
Income:						
Crop sales, including CCC	28,475	5.17	55,649	6.06	107,631	7.74
Livestock sales	19,400	7.80	45,814	7.43	100,008	9.34
Government payments	11,999	5.60	26,200	5.84	45,640	5.95
Other farm income	2,912	11.97	6,259	12.11	13,213	15.80
Gross cash farm income 5/	62,787	2.50	133,923	2.90	266,493	3.22
Nonfarm income	16,836	7.56	15,118	14.57	11,755	11.24
Expenses:						
Seed	2,823	3.59	6,197	5.37	10,154	6.71
Fertilizer, lime, and chemicals	8,528	3.76	17,483	3.94	31,742	5.80
Fuel and oil	2,927	4.14	5,716	4.74	9,259	4.51
Feed	4,878	9.62	11,742	8.76	24,723	14.53
Livestock purchases	3,111	17.47	7,260	13.94	20,653	13.38
Livestock services	568	13.62	1,229	10.28	2,663	15.72
Equipment lease	d	na	695	21.98	1,370	27.51
Marketing	1,136	8.88	2,307	9.99	3,709	10.99
Hired labor 6/	740	17.64	2,940	11.64	5,721	13.57
Contract labor	d	na	d	na	475	36.17
Custom work	1,005	14.48	d	na	1,392	18.74
Interest payments	5,942	9.48	12,485	7.82	20,360	7.78
Property taxes	2,078	6.41	3,401	8.01	6,015	8.62
General business	3,417	3.60	6,535	4.30	11,096	5.88
Cash rent	3,674	11.24	9,846	9.36	21,325	9.24
Miscellaneous	4,852	4.27	9,511	4.01	17,575	5.32
Total 5/	45,841	2.87	98,978	3.09	188,233	3.43

d = Insufficient data for disclosure.

na = Not applicable.

1/ \$40,000-\$99,999 gross farm sales.

2/ \$100,000-\$249,999 gross farm sales.

3/ \$250,000-\$499,999 gross farm sales.

4/ The coefficient of variation provides a means of evaluating survey results. The smaller the coefficient, the greater the reliability of the estimate.

5/ Data may not add due to rounding or nondisclosure of data.

6/ Excludes wages paid to operator and family members.

Source: 1987 Farm Costs and Returns Survey, U.S. Department of Agriculture.

Appendix table 41--Land use and tenure: Lake States corn farms by size of farm, 1987

Item	Small farm 1/ Average Coefficient per of varia- farm tion 4/		Mid-sized farm 2/ Average Coefficient per of varia- farm tion 4/		Large farm 3/ Average Coefficient per of varia- farm tion 4/	
	Acres	Percent	Acres	Percent	Acres	Percent
Land tenure:						
Owned	171	5.62	277	5.25	387	9.17
Cash-rented	82	10.39	135	9.96	428	9.25
Share-rented	24	21.21	22	36.89	76	46.24
Total						
operated 5/	275	3.47	428	4.31	891	6.77
Land use:						
Harvested crops--						
Corn	54	6.08	92	5.00	260	7.80
Barley	2	28.42	5	21.27	9	43.30
Oats	11	10.41	15	11.14	20	28.56
Sorghum	0	na	0	na	0	na
Soybeans	34	13.06	42	18.88	161	16.77
Wheat	6	22.87	14	25.88	34	29.22
Other	13	17.13	26	16.66	78	16.75
Pasture and hay	64	6.79	95	6.63	101	13.67
Government programs	26	10.84	48	9.32	122	8.88
Summer fallow	d	na	d	na	1	47.50

d - Insufficient data for disclosure.

na - Not applicable.

1/ \$40,000-\$99,999 gross farm sales.

2/ \$100,000-\$249,999 gross farm sales.

3/ \$250,000-\$499,999 gross farm sales.

4/ The coefficient of variation provides a means of evaluating survey results. The smaller the coefficient, the greater the reliability of the estimate.

5/ Data may not add because some categories (such as land rented on an animal-unit-month basis, land rented free from others, and land cash- or share-rented to others) are not listed.

Source: 1987 Farm Costs and Returns Survey, U.S. Department of Agriculture.

Appendix table 42--Value of assets and debt: Lake States corn farms by size of farm, 1987

Item	Small farm 1/ Average per farm Coefficient of varia- tion 4/		Mid-sized farm 2/ Average per farm Coefficient of varia- tion 4/		Large farm 3/ Average per farm Coefficient of varia- tion 4/	
	Dollars	Percent	Dollars	Percent	Dollars	Percent
Assets:						
Land and buildings	140,673	5.83	248,724	5.43	388,895	10.01
Machinery and equipment	56,303	6.74	89,512	4.17	152,958	7.57
Livestock	33,414	5.87	70,404	5.82	93,292	11.22
Crop inventory	16,748	9.36	27,287	6.96	92,474	13.02
Purchased inputs	1,263	15.25	3,332	25.12	8,438	17.14
Other assets	31,626	15.47	80,455	18.81	83,527	26.45
Total 5/	280,028	4.47	519,714	4.78	819,584	8.11
Debt:						
Production Credit Association	2,993	23.46	11,747	23.87	36,194	36.57
Farmers Home Administration	9,022	26.68	22,762	22.36	27,917	39.01
Commercial banks	22,434	13.96	30,651	15.12	46,730	17.24
Federal land banks	11,644	34.24	33,953	16.79	71,190	20.14
Merchants and dealers	d	na	1,844	20.96	5,439	26.49
Insurance companies	d	na	d	na	d	na
Individuals	16,753	18.42	28,965	17.75	46,865	26.67
Other lenders	3,218	38.36	d	na	d	na
Total 5/	68,400	10.21	134,868	7.71	244,049	12.75

d - Insufficient data for disclosure.

na - Not applicable.

1/ \$40,000-\$99,999 gross farm sales.

2/ \$100,000-\$249,999 gross farm sales.

3/ \$250,000-\$499,999 gross farm sales.

4/ The coefficient of variation provides a means of evaluating survey results. The smaller the coefficient, the greater the reliability of the estimate.

5/ Data may not add due to rounding or nondisclosure of data.

Source: 1987 Farm Costs and Returns Survey, U.S. Department of Agriculture.

Appendix table 43--Farm labor: Lake States corn farms by size of farm, 1987

Item	<u>Small farm 1/</u>		<u>Mid-sized farm 2/</u>		<u>Large farm 3/</u>	
	<u>Average</u>	<u>Coefficient</u>	<u>Average</u>	<u>Coefficient</u>	<u>Average</u>	<u>Coefficient</u>
	<u>per</u>	<u>of varia-</u>	<u>per</u>	<u>of varia-</u>	<u>per</u>	<u>of varia-</u>
	<u>farm</u>	<u>tion 4/</u>	<u>farm</u>	<u>tion 4/</u>	<u>farm</u>	<u>tion 4/</u>
	<u>Hours</u>	<u>Percent</u>	<u>Hours</u>	<u>Percent</u>	<u>Hours</u>	<u>Percent</u>
	<u>per week</u>		<u>per week</u>		<u>per week</u>	
Labor hours:						
Operator	62	2.57	70	2.13	68	4.53
Unpaid labor	24	10.42	27	10.37	37	24.13
	<u>Number</u>	<u>Percent</u>	<u>Number</u>	<u>Percent</u>	<u>Number</u>	<u>Percent</u>
Hired labor:						
Hired workers						
(peak) 5/	2	13.52	3	10.60	4	15.88

1/ \$40,000-\$99,999 gross farm sales.

2/ \$100,000-\$249,999 gross farm sales.

3/ \$250,000-\$499,999 gross farm sales.

4/ The coefficient of variation provides a means of evaluating survey results. The smaller the coefficient, the greater the reliability of the estimate.

5/ Peak number of workers hired at any one time during the year.

Source: 1987 Farm Costs and Returns Survey, U.S. Department of Agriculture.

Appendix: table 44--Income and expenses: Lake States corn farms by size of farm, 1987

Item	Small farm 1/ Average per farm Coefficient of varia- farm tion 4/		Mid-sized farm 2/ Average per farm Coefficient of varia- farm tion 4/		Large farm 3/ Average per farm Coefficient of varia- farm tion 4/	
	Dollars	Percent	Dollars	Percent	Dollars	Percent
Income:						
Crop sales, including CCC	10,045	12.05	17,401	13.79	75,935	13.16
Livestock sales	43,699	5.24	101,083	4.84	153,238	9.15
Government payments	7,979	10.35	15,136	8.03	47,894	9.09
Other farm income	2,515	26.31	4,808	20.40	10,423	17.20
Gross cash farm income 5/	64,239	2.63	138,427	2.59	287,490	3.84
Nonfarm income	12,652	12.65	9,979	10.31	11,776	17.84
Expenses:						
Seed	2,372	5.75	4,259	6.47	10,455	9.81
Fertilizer, lime, and chemicals	5,145	6.60	10,443	6.90	30,692	9.21
Fuel and oil	2,569	4.24	4,428	4.80	10,114	5.60
Feed	6,992	6.36	18,872	7.29	31,631	11.75
Livestock purchases	2,573	15.64	6,071	17.51	11,583	19.78
Livestock services	1,950	8.91	4,225	7.68	5,633	13.86
Equipment lease	327	44.63	419	25.45	1,064	27.78
Marketing	2,287	6.24	4,651	5.69	8,402	12.33
Hired labor 6/	1,239	19.23	3,359	12.38	10,065	18.57
Contract labor	67	46.70	148	39.18	725	41.92
Custom work	571	13.70	1,245	14.60	865	23.69
Interest payments	5,918	9.10	14,181	8.73	26,571	11.41
Property taxes	2,613	5.93	4,486	5.90	7,167	9.83
General business	4,215	3.18	8,105	9.19	13,802	6.90
Cash rent	3,481	13.27	6,616	11.71	23,285	11.53
Miscellaneous	6,059	6.50	11,286	4.83	19,017	6.06
Total 5/	48,378	2.87	102,794	3.01	211,070	4.69

1/ \$40,000-\$99,999 gross farm sales.

2/ \$100,000-\$249,999 gross farm sales.

3/ \$250,000-\$499,999 gross farm sales.

4/ The coefficient of variation provides a means of evaluating survey results. The smaller the coefficient, the greater the reliability of the estimate.

5/ Data may not add due to rounding or nondisclosure of data.

6/ Excludes wages paid to operator and family members.

Source: 1987 Farm Costs and Returns Survey, U.S. Department of Agriculture.

Appendix table 45--Land use and tenure: Plains States corn farms by size of farm, 1987

Item	Small farm 1/ Average Coefficient per farm of varia- tion 4/		Mid-sized farm 2/ Average Coefficient per farm of varia- tion 4/		Large farm 3/ Average Coefficient per farm of varia- tion 4/	
	Acres	Percent	Acres	Percent	Acres	Percent
Land tenure:						
Owned	344	10.98	572	13.20	712	11.27
Cash-rented	153	14.00	362	16.67	493	14.81
Share-rented	169	15.31	301	11.77	399	15.99
Total						
operated 5/	640	7.07	1,212	8.42	1,710	9.60
Land use:						
Harvested crops--						
Corn	99	9.02	169	6.22	310	6.84
Barley	16	23.52	27	18.48	48	21.38
Oats	17	16.63	24	19.34	11	26.15
Sorghum	13	31.27	29	22.82	45	28.50
Soybeans	54	18.61	71	12.98	141	20.62
Wheat	52	14.18	135	12.75	189	14.45
Other	12	26.71	58	18.77	65	21.62
Pasture and hay	251	13.48	456	17.96	427	16.77
Government programs	71	10.28	144	6.59	215	8.49
Summer fallow	10	35.35	31	23.88	48	26.40

1/ \$40,000-\$99,999 gross farm sales.

2/ \$100,000-\$249,999 gross farm sales.

3/ \$250,000-\$499,999 gross farm sales.

4/ The coefficient of variation provides a means of evaluating survey results. The smaller the coefficient, the greater the reliability of the estimate.

5/ Data may not add because some categories (such as land rented on an animal-unit-month basis, land rented free from others, and land cash- or share-rented to others) are not listed.

Source: 1987 Farm Costs and Returns Survey, U.S. Department of Agriculture.

Appendix table 46--Value of assets and debt: Plains States corn farms by size of farm, 1987

Item	Small farm 1/ Average per farm		Mid-sized farm 2/ Coefficient of variation 4/ Average per farm		Large farm 3/ Coefficient of variation 4/ Average per farm	
	Dollars	Percent	Dollars	Percent	Dollars	Percent
Assets:						
Land and buildings	154,087	9.19	223,982	6.63	530,342	21.14
Machinery and equipment	55,834	7.44	86,679	6.27	161,160	8.04
Livestock	36,331	15.58	56,311	9.30	97,024	16.30
Crop inventory	15,902	15.71	45,933	19.78	91,403	11.05
Purchased inputs	751	17.91	3,568	13.44	8,690	19.17
Other assets	59,768	24.25	85,943	13.77	148,309	20.02
Total 5/	322,674	7.63	502,416	5.40	1,036,929	12.03
Debt:						
Production Credit Association	d	na	3,952	37.77	20,073	40.95
Farmers Home Administration	13,168	35.33	18,801	19.90	24,909	26.81
Commercial banks	19,232	16.18	31,373	16.09	93,083	16.10
Federal land banks	5,407	26.16	20,361	18.22	54,562	17.60
Merchants and dealers	d	na	2,158	25.00	6,656	24.50
Insurance companies	d	na	531	49.10	12,778	44.50
Individuals	8,777	29.06	11,282	21.52	18,227	22.24
Other lenders	d	na	2,151	31.65	5,626	45.85
Total 5/	55,326	13.02	90,610	9.89	235,915	8.86

d - Insufficient data for disclosure.

na - Not applicable.

1/ \$40,000-\$99,999 gross farm sales.

2/ \$100,000-\$249,999 gross farm sales.

3/ \$250,000-\$499,999 gross farm sales.

4/ The coefficient of variation provides a means of evaluating survey results. The smaller the coefficient, the greater the reliability of the estimate.

5/ Data may not add due to rounding or nondisclosure of data.

Source: 1987 Farm Costs and Returns Survey, U.S. Department of Agriculture.

Appendix table 47--Farm labor: Plains States corn farms by size of farm, 1987

Item	<u>Small farm 1/</u>		<u>Mid-sized farm 2/</u>		<u>Large farm 3/</u>	
	Average per farm	Coefficient of varia- tion 4/	Average per farm	Coefficient of varia- tion 4/	Average per farm	Coefficient of varia- tion 4/
	Hours per week	Percent	Hours per week	Percent	Hours per week	Percent
Labor hours:						
Operator	56	4.19	57	3.46	62	3.67
Unpaid labor	15	12.33	17	12.05	24	16.89
	<u>Number</u>	<u>Percent</u>	<u>Number</u>	<u>Percent</u>	<u>Number</u>	<u>Percent</u>
Hired labor:						
Hired workers (peak) 5/	1	24.31	1	12.65	3	11.04

1/ \$40,000-\$99,999 gross farm sales.

2/ \$100,000-\$249,999 gross farm sales.

3/ \$250,000-\$499,999 gross farm sales.

4/ The coefficient of variation provides a means of evaluating survey results. The smaller the coefficient, the greater the reliability of the estimate.

5/ Peak number of workers hired at any one time during the year.

Source: 1987 Farm Costs and Returns Survey, U.S. Department of Agriculture.

Appendix table 48--Income and expenses: Plains States corn farms by size of farm, 1987

Item	Small farm 1/ Average per farm		Mid-sized farm 2/ Average per farm		Large farm 3/ Average per farm	
	Coefficient of variation 4/		Coefficient of variation 4/		Coefficient of variation 4/	
	Dollars	Percent	Dollars	Percent	Dollars	Percent
Income:						
Crop sales, including CCC	20,324	9.70	41,896	8.18	95,244	11.24
Livestock sales	28,247	9.24	59,807	7.06	126,809	13.62
Government payments	12,777	7.75	27,584	5.59	50,926	7.37
Other farm income	3,203	18.91	6,275	14.26	11,857	16.36
Gross cash farm income 5/	64,552	3.48	135,562	3.15	284,837	4.74
Nonfarm income	8,622	14.09	10,127	20.62	7,059	17.95
Expenses:						
Seed	2,702	8.51	5,960	5.91	9,962	8.54
Fertilizer, lime, and chemicals	5,713	9.48	11,880	6.79	25,899	7.38
Fuel and oil	4,020	6.60	7,395	5.79	13,753	6.97
Feed	5,151	16.07	9,601	12.08	23,828	20.15
Livestock purchases	4,632	20.70	14,995	17.09	46,304	18.14
Livestock services	840	12.89	1,496	13.69	4,618	24.00
Equipment lease	d	na	1,001	27.59	1,878	29.37
Marketing	843	14.29	1,607	12.58	3,514	14.64
Hired labor 6/	616	32.79	2,342	15.84	8,381	16.92
Contract labor	d	na	355	38.37	437	44.43
Custom work	1,070	15.18	1,983	13.39	5,004	39.89
Interest payments	5,837	11.61	9,880	10.57	28,824	9.67
Property taxes	2,090	11.35	3,095	7.05	4,730	10.81
General business	4,313	6.09	8,145	7.23	17,059	8.43
Cash rent	3,398	15.08	7,744	13.50	15,592	13.68
Miscellaneous	5,797	5.42	10,014	5.65	21,681	9.10
Total 5/	47,349	4.68	97,494	3.97	231,465	6.61

d - Insufficient data for disclosure.

na - Not applicable.

1/ \$40,000-\$99,999 gross farm sales.

2/ \$100,000-\$249,999 gross farm sales.

3/ \$250,000-\$499,999 gross farm sales.

4/ The coefficient of variation provides a means of evaluating survey results. The smaller the coefficient, the greater the reliability of the estimate.

5/ Data may not add due to rounding or nondisclosure of data.

6/ Excludes wages paid to operator and family members.

Source: 1987 Farm Costs and Returns Survey, U.S. Department of Agriculture.

Get these timely reports from USDA's Economic Research Service

These periodicals bring you the latest information on food, the farm, and rural America to help you keep your expertise up-to-date. Order these periodicals today to get the latest facts, figures, trends, and issues from ERS.

Agricultural Outlook. Presents USDA's farm income and food price forecasts. Emphasizes the short-term outlook, but also presents long-term analyses of issues ranging from international trade to U.S. land use and availability. 11 issues. 1 year, \$26; 2 years, \$51; 3 years, \$75.

Economic Indicators of the Farm Sector. Updates economic trends in U.S. agriculture. Each issue explores a different aspect of income and expenses: national and State financial summaries, production and efficiency statistics, and costs of production for livestock and dairy and for major field crops. 5 issues. 1 year, \$14; 2 years, \$27; 3 years, \$39.

Farmline. Concise, fact-filled articles focus on economic conditions facing farmers, how the agricultural environment is changing, and the causes and consequences of those changes for farm and rural people. 11 issues. 1 year, \$12; 2 years, \$23; 3 years, \$33.

Food Review. Offers the latest developments in food prices, product safety, nutrition programs, consumption patterns, and marketing. 4 issues. 1 year, \$11; 2 years, \$21; 3 years, \$30.

Foreign Agricultural Trade of the United States. Updates the quantity and value of U.S. farm exports and imports, plus price trends. 8 issues. 1 year, \$25; 2 years, \$49; 3 years, \$72.

Rural Development Perspectives. Crisp, nontechnical articles on the results of new rural research and what those results mean. 3 issues. 1 year, \$9; 2 years, \$27; 3 years, \$24.

Rural Conditions and Trends. Tracks rural events: macroeconomic conditions, employment and underemployment, industrial structure, earnings and income, poverty and population. 4 issues. 1 year, \$14; 2 years, \$27; 3 years, \$39.

The Journal of Agricultural Economics Research. Technical research in agricultural economics, including econometric models and statistics focusing on methods employed and results of USDA economic research. 4 issues. 1 year, \$8; 2 years, \$15; 3 years, \$21.

World Agriculture. Deals with worldwide developments in agricultural markets and trade with an emphasis on implications for global and U.S. agricultural trade. 4 issues. 1 year, \$21; 2 years, \$41; 3 years, \$60.

Situation and Outlook Reports. These reports provide timely analyses and forecasts of all major agricultural commodities and related topics such as finance, farm inputs, land values, and world and regional developments. Each *Situation and Outlook* title costs 1 year, \$12; 2 years, \$23; 3 years, \$33. Titles include:

Agricultural Income and Finance	Cotton and Wool	Oil Crops	Sugar and Sweeteners
Agricultural Resources	Dairy	Outlook for U.S.	Tobacco
Agriculture and Trade Reports	Feed	Agricultural Exports	Vegetables and Specialties
Aquaculture	Fruit and Tree Nuts	Rice	Wheat

Also available: *Livestock and Poultry*: 1 year, \$17; 2 years, \$33; 3 years, \$48.

Livestock & Poultry Update (monthly): 1 year, \$15; 2 years, \$29; 3 years, \$42.

U.S. Agricultural Trade Update (monthly): 1 year, \$15; 2 years, \$29; 3 years, \$42.

Add 25 percent for shipments to foreign addresses (includes Canada).

To subscribe to these periodicals, call our order desk toll free,
1-800-999-6779 (8:30-5:00 ET in the United States and Canada;
other areas, please call 301-725-7937), or write to:

ERS-NASS
P.O. Box 1608
Rockville, MD 20849-1608

END
DATE
FILMED
7-17-92
NTIS