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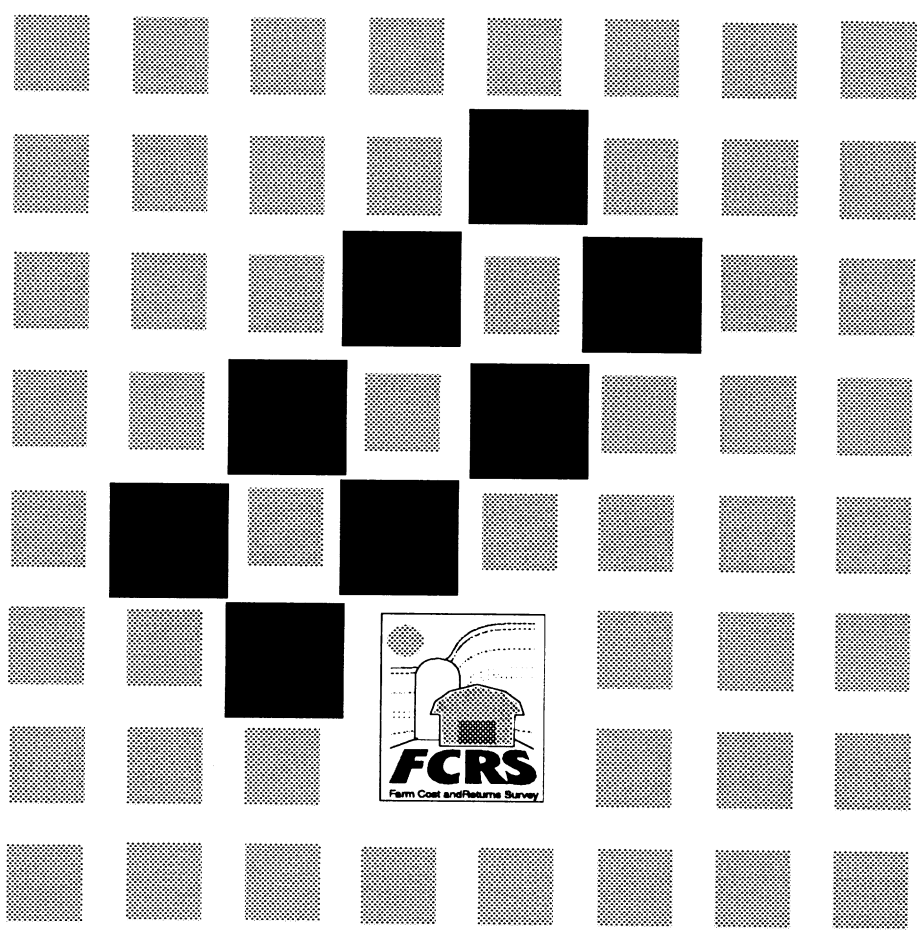
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Structural and Financial Characteristics of U.S. Farms, 1990

15th Annual Family Farm Report to Congress

Judith Z. Kalbacher
Susan E. Bentley
Donn A. Reimund



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Structural and Financial Characteristics of U.S. Farms, 1990: 15th Annual Family Farm Report to Congress. By Judith Z. Kalbacher, Susan E. Bentley, and Donn A. Reimund, Agriculture and Rural Economy Division, Economic Research Service, U.S. Department of Agriculture. Agriculture Information Bulletin No. 690.

Abstract

About 1.8 million farms operated 1 billion acres of land in the contiguous United States in 1990, according to the Farm Costs and Returns Survey (FCRS) from the U.S. Department of Agriculture. The average acreage operated was 588 acres per reporting farm, and gross farm sales averaged \$63,200. Gross cash farm income totaled \$121.4 billion in 1990, with 48 percent from livestock and poultry sales, 41 percent from crop sales, 5 percent from government payments, and 6 percent from other farm-related income. This report introduces a new reporting format that will provide annual data on the major structural and financial characteristics of the farm sector as portrayed by the FCRS. Annual farm structural data are not available from any other national data source.

Keywords: Farm structure, land base and use, farm financial situation, and farm operator household income.

Preface

This publication is based on the 15th annual report to the Congress on the status of family farms. These reports have been submitted to Congress in accordance with the Food and Agriculture Act of 1977 as amended.

Contents

| | |
|---|-----|
| Summary | iii |
| Introduction | 1 |
| Highlights | 2 |
| Farm Numbers, Land in Farms, and Gross Farm Sales | 2 |
| Type of Farm Organization | 2 |
| Operator Tenure | 4 |
| Landownership and Use | 4 |
| Farm Size Measures | 6 |
| Type of Farm | 7 |
| Farm Business Income Statement | 8 |
| Farm Balance Sheet | 8 |
| New Capital Investments | 9 |
| Farm Financial Performance | 10 |
| Selected Characteristics of Farm Operators | 10 |
| Farm Operator Households | 14 |
| References | 18 |
| Appendix A--Definitions of Terms | 19 |
| Appendix B--The Farm Costs and Returns Survey | 22 |
| Appendix Tables | 24 |

Summary

This report, the 15th Annual Family Farm Report to Congress, introduces a new reporting format that will provide annual data on the major structural and financial characteristics of the farm sector as portrayed by the U.S. Department of Agriculture's Farm Costs and Returns Survey (FCRS). Annual farm structural data are not available from any other national data source.

Estimates derived from the 1990 survey, the base year for the new data series, indicate that about 1.8 million farms operated 1 billion acres of land in the contiguous United States during the year. The average acreage operated was 588 acres per reporting farm and gross farm sales averaged \$63,200. Gross cash farm income totaled \$121.4 billion in 1990, with 48 percent from livestock and poultry sales, 41 percent from crop sales, 5 percent from government payments, and 6 percent from other farm-related income.

The variables presented in this report were selected to provide a comprehensive overview of the organization, resource base, and financial situation of the Nation's farm sector. These variables fall into three basic categories: farm structure, land base and use, and farm financial and economic well-being. Selected data on farm operator households are also included to provide a sense of the importance of farming to operator households.

Farm structure variables measure the number and distribution of farms by several classifications, such as acreage, value of production, form of organization, type of farm, and operator characteristics. The FCRS data provide the following snapshots of the U.S. farm sector:

- Farm size measures show a concentration of farms in the smaller acreage and sales classes. Farms of less than 500 acres account for slightly more than 80 percent of farms surveyed, but slightly less than 20 percent of the farmland. About 60 percent of farms reported gross farm sales of less than \$20,000 in 1990; these small farms account for only 4 percent of farm sales.
- The individual owner business organization and the full ownership land tenure arrangement make up the largest proportion of farms. Average acreage and average sales data indicate that farms operated by individuals and full owners were smaller than farms operated under other forms of business organization and tenure arrangements.
- Beef-hog-sheep operations are the most common production specialty, followed by cash grain operations. The two most common farm types operated the largest shares of farmland and, along with dairy operations, produced the bulk of gross farm sales.
- Measured by average acreage operated, operators with less than a high school education and operators primarily employed in occupations other than farming generally had the smallest farms. No significant differences were found in average acreage operated by age group. Average farm sales were lowest for farm operators 65 years old or more, operators with less than a high school education, and operators primarily employed in occupations other than farming.

Land base and use variables measure the total amount of land operated, how land is used, and the arrangements under which land is held and operated. The 1990 FCRS data provide the following information:

- Ninety-two percent of reporting farms owned land, 46 percent rented land from others, and 10 percent rented land to others. About 44 percent of the land operated, excluding Federal grazing land and other land rented on an animal-unit-month basis, was rented.
- Farms participating in the survey removed 56.1 million acres of cropland from production in compliance with the 10-year Conservation Reserve Program and other government programs and for summer fallow. Other government programs including set-aside and any other Federal and State programs accounted for 19.4 million of those acres.

Financial and economic well-being variables measure the income and wealth status of farms. The FCRS provides the following information for 1990:

- Farm operations reported \$121.4 billion in gross cash farm income, with 48 percent from livestock and poultry sales, 41 percent from crop sales, 5 percent from government payments, and 6 percent from other farm-related income. Average gross cash income was about \$73,600 per reporting farm.
- Cash expenses totaled \$100.4 billion, with an average per reporting farm of \$57,400. Net cash income (gross cash farm income after expenses) totaled \$21 billion, for an average of \$12,000 per reporting farm.
- Classification of survey farms according to their combined income and solvency status revealed that the largest share of farms surveyed were in a favorable financial position, regardless of farm size. About a third of the farms fell in the marginal income category, mostly small operations with sales of less than \$40,000. Comparatively few were classified as marginally solvent or financially vulnerable.

Farm operator household variables for farm and off-farm sources of income measure the household's financial dependence on the farming operation. The 1990 FCRS data provide the following information:

- Off-farm income significantly contributes to the total income of many farm households, offsetting some of the differences in farm income observed among operations.
- Farm operator households that are more dependent on farm income and those with negative total household income generally have larger farms than other operator households, in terms of acres operated and farm sales. Farm operator households with positive total income and farm losses have the smallest farms.

These variables, taken together, show how the Nation's farm sector is organized to use and control its resources and the financial and economic results of its activities. As more data become available over time, these variables will provide a basis for monitoring changes in the organization and well-being of the sector.

Structural and Financial Characteristics of U.S. Farms, 1990

15th Annual Family Farm Report to Congress

**Judith Z. Kalbacher, Susan E. Bentley,
and Donn A. Reimund**

Introduction

This report, the 15th Annual Family Farm Report to Congress, introduces a new reporting format that will provide annual data on the major structural and financial characteristics of U.S. farms. The new data series will be based on data obtained from the annual Farm Costs and Returns Survey (FCRS) conducted by the U.S. Department of Agriculture's (USDA) Economic Research Service and National Agricultural Statistics Service (see Appendix B--The Farm Costs and Returns Survey--for more information on the survey). Annual farm structural data are not available from any other national sources of data. Over time, the data in these reports will provide a basis for monitoring changes in the organization and well-being of the farm sector.

The term "farm structure" refers to "how farms of different sizes and types organize natural, financial, and human resources to produce food and fiber and the distribution of income and wealth that results from that activity" (Carlin, 1990). Farm structure is important to the efficiency of resource use and productivity of the natural resource base, affecting the quantity and quality of output available for domestic and foreign consumption. Structural issues affect the well-being of people involved in the farm sector, as well as those in closely linked industries. Measures of income and wealth within the sector are necessary to assess policy needs and to evaluate the effectiveness of farm policies and programs.

This report to Congress summarizes the major structural features on the Nation's farms in 1990. The report includes tables with information about farms, land in farms, and farm sales categorized by farm structural variables, land base and use variables, and variables related to the financial and economic well-being of farms. Selected data on farm operator households are also included to provide a sense of the importance of farming to operator households. The data reflect how households allocate their time between farm and nonfarm activities, thus providing insight into farm organization and structure.

Farm characteristics data are distributed by several classifications, such as acreage size, value of production, form of organization, type of farm, and operator characteristics. Land base and use data measure the total amount of land operated, how land is used, and the arrangements under which land is held and operated. Changes in the primary structural and land base and use variables generally occur over a relatively long period of time. However, the financial variables that measure the income and wealth of farms are more sensitive to current economic and policy shifts.

The first part of this report highlights major structural and financial characteristics of the farm sector in 1990. The second part presents appendixes consisting of definitions of terms, information about the data source, and detailed data tables. The detailed tables include the type of information normally requested by policymakers and the public.

Over time, these tables will provide a comprehensive information base on U.S. farm structure.

Highlights

The appendix tables include detailed information on farms in the 1990 FCRS; text tables and figures provide information which summarizes their major characteristics in the same year. Because of changes in the survey designed to improve coverage, the estimates derived from the 1990 survey are not directly comparable with those for earlier years.

Variations in sample design and survey procedures influence the conclusions reached about the structure and financial characteristics of farms based on the survey data. To provide a perspective on the reliability of the data, we include relative standard errors (RSE's) for all survey items in the tables. See appendix B for a detailed explanation of this statistic. Most statements of comparisons made in the text are statistically significant with a 95-percent or higher confidence level.

All average values indicate the average per reporting farm; that is, the total value of the item divided by the number of farms that reported a positive or negative value for that item. Definitions for table items and classifications are presented in appendix A.

Farm Numbers, Land in Farms, and Gross Farm Sales

Farms in the FCRS are defined as "all establishments that sold or would normally have sold at least \$1,000 of agricultural products during the year." Estimates derived from the 1990 survey indicate that about 1.8 million farms operated 1 billion acres of land in the contiguous United States during the year. In comparison with the official USDA estimate prepared by the National Agricultural Statistics Service, FCRS farms represent 82 percent of the official number of farms estimated for the contiguous United States in 1990 (see app. B). The average acreage operated by FCRS farms was 588 acres per reporting farm and gross farm sales averaged \$63,200.

To determine regional patterns, we examine the data by major farming regions of the Nation (fig. 1).

These data indicate that the Corn Belt has the largest number of farms, representing 20 percent of the survey's farms in 1990 (fig. 2). The Appalachian region, Southern Plains, and Lake States rank next.

Because farm size varies from one region to another with different types of agricultural activities, the geographic distribution of farmland differs from the distribution of farms. The Mountain States have by far the largest amount of farmland, representing 33 percent of total acreage operated in 1990. The extensive amount of rangeland in the Mountain States underlies the region's comparatively large amount of farmland and small number of farms. The Mountain States at 3,221 acres per farm had the highest average acreage operated of all regions. In contrast, the Corn Belt, with its large number of farms, averaged only 293 acres per farm and is among the regions with the smallest farms.

About 60 percent of total gross farm sales were produced in just four regions: the Corn Belt, Northern Plains, Pacific, and Lake States. These regions producing the bulk of farm sales in 1990 traditionally have been among the Nation's leading agricultural production areas.

Type of Farm Organization

Individually operated farms are the most common type of organization, accounting for 9 of every 10 farms in the 1990 survey (fig. 3). Partnerships and corporations make up a very small share of the farms but account for slightly more of both land operated and gross farm sales.

Data on gross value of agricultural sales indicate differences by type of farming organization. Individually owned operations, because of their large number, account for the largest share of sales. However, corporate farms have much higher average farm sales than either individual operations or partnerships (table 1). The average value of sales by partnerships was only a third of the corporate value of \$465,000 in 1990; for individual operations, the average was just a tenth of the corporate level.

Average acreage is also highest for corporate farms at 3,515 acres in 1990, compared with 1,539 acres for partnerships, and 440 acres for individuals. For all three organizational types, average acreage relates directly to the distribution of farms by sales class. The low average acreage estimate for

Figure 1

Regions of the contiguous United States

Ten regions delineate major farming regions across the Nation

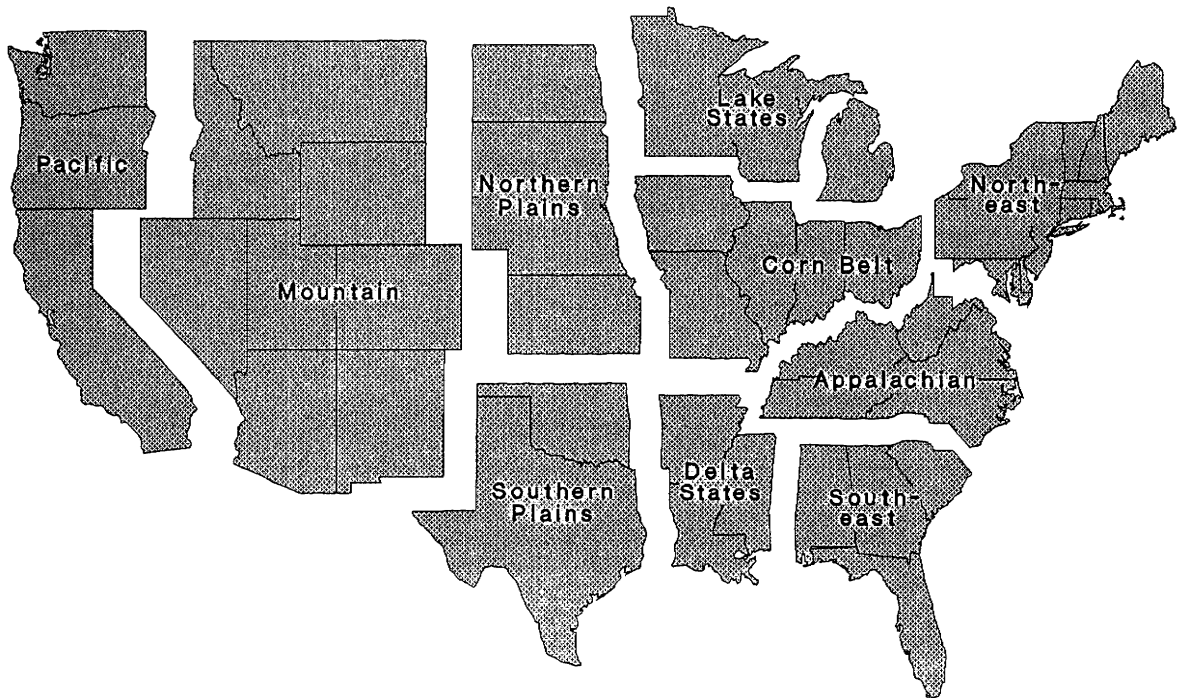
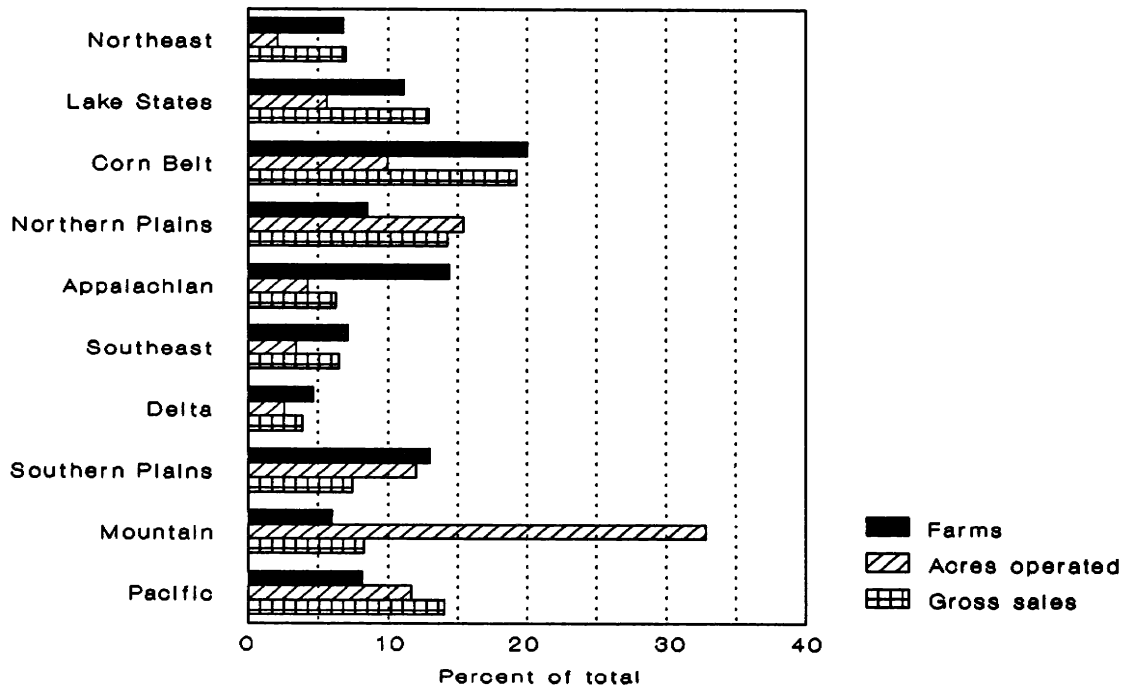


Figure 2

Farms, farmland, and gross farm sales, by region, 1990

The Mountain States have by far the largest amount of farmland, representing 33 percent of total acreage operated in 1990



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

individual operations reflects a large number of farms in the lowest sales class (\$9,999 or less per year). Consistent with the large number of small operations, data on the principal occupation of farm operators indicate that about 45 percent of individually run farms had operators with primary employment off the farm, and these operations averaged only 159 acres.

Operator Tenure

About 44 percent of the land operated by farms in the 1990 FCRS, excluding Federal grazing land and other land rented on an animal-unit-month basis (AUM land), was rented. The majority of farm operations surveyed (55 percent) reported full ownership of the land they operate, while 37 percent owned part and rented the remainder of their land (fig. 3). Only 9 percent of the operations reported that they rented all of their land.

Full ownership is the most common tenure type in all regions except two. There were nearly equal numbers of full- and part-owner (part-tenant) operated farms in the Lake States, while part-owner operations predominated in the Northern Plains.

In the Northern Plains, 9 of every 10 operations are cash grain farms or livestock ranches and both of these types of operations typically use large amounts of leased land.

Part owners generally operate the largest farms, averaging 905 acres in 1990, followed by full tenants with 714 acres per farm and full owners with 353 acres per farm (includes AUM land). Part owners, with 57 percent of the total in 1990, also account for the largest share of the acreage operated in the survey.

Gross farm sales are also concentrated on part-owner operations (58 percent of the products sold in 1990). The average value of farm sales for part owners was about \$99,500, similar to the average for full tenants at \$103,800. Average sales were lower on full owner operations at \$32,200.

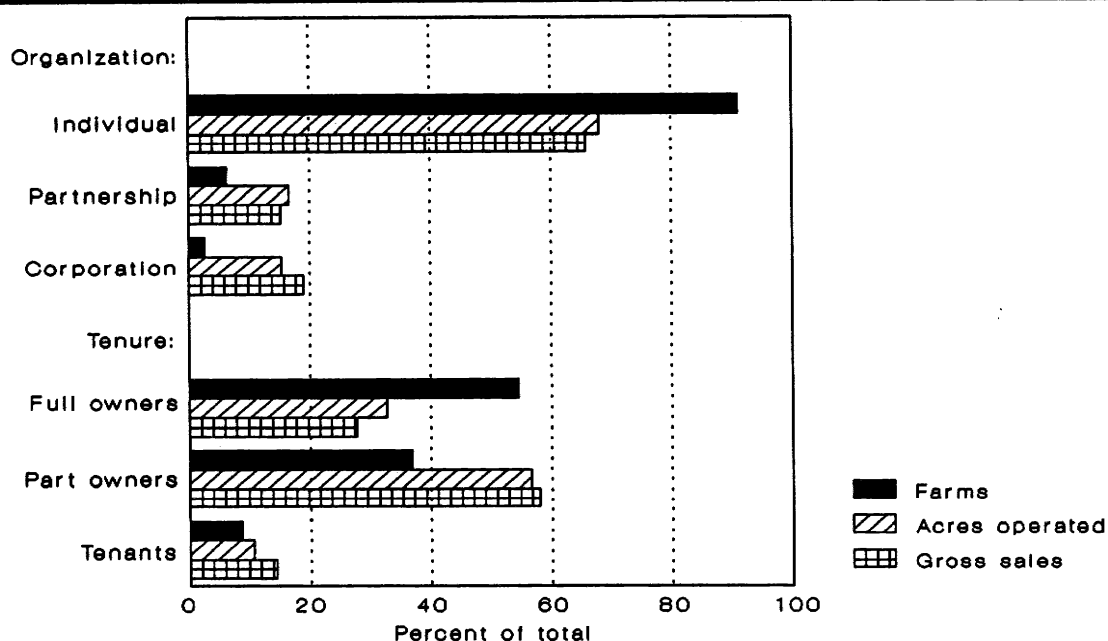
Landownership and Use

Ninety-two percent of the survey's farms owned land in 1990, 46 percent rented land from others, and 10 percent rented land to others. Farms participating in the FCRS removed 56.1 million acres of cropland

Figure 3

Farms, farmland, and gross farm sales, by type of farm organization and operator tenure, 1990

Farms operated by individuals and full owners are the most common farm types reported in the survey



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

Table 1--Number of farms, mean acres operated, and mean sales for all regions, by farm operation characteristics, 1990

Farms operated by individuals and full owners, the most common farm types, were comparatively small in terms of acreage and sales

| Category | Farms | RSE of number ¹ | Mean acres operated | RSE of mean | Mean gross farm sales | RSE of mean |
|--|---------------|----------------------------|---------------------|----------------|-----------------------|----------------|
| | <i>Number</i> | <i>Percent</i> | <i>Acres</i> | <i>Percent</i> | <i>Dollars</i> | <i>Percent</i> |
| All farms | 1,752,125 | 1.77 | 588 | 3.42 | 63,190 | 2.78 |
| Organization: | | | | | | |
| Corporate | 44,839 | 6.54 | 3,515 | 12.10 | 464,963 | 10.31 |
| Partnership | 110,912 | 8.27 | 1,539 | 10.80 | 150,811 | 8.51 |
| Individual | 1,596,150 | 1.85 | 440 | 3.61 | 45,533 | 2.70 |
| Tenancy: | | | | | | |
| Full tenant | 152,104 | 4.71 | 714 | 7.34 | 103,799 | 7.44 |
| Part tenant | 645,722 | 2.35 | 905 | 3.76 | 99,493 | 3.35 |
| Full owner | 954,298 | 2.68 | 353 | 7.70 | 32,153 | 5.58 |
| Acreage class: | | | | | | |
| 2,000 acres or more | 68,774 | 4.31 | 8,685 | 5.13 | 310,109 | 7.06 |
| 1,000 - 1,999 acres | 96,428 | 6.19 | 1,374 | .96 | 190,479 | 7.46 |
| 500 - 999 acres | 171,787 | 3.57 | 691 | .66 | 134,939 | 4.06 |
| 180 - 499 acres | 392,452 | 2.73 | 300 | .84 | 66,948 | 4.72 |
| 100 - 179 acres | 264,216 | 4.10 | 134 | .64 | 31,393 | 11.26 |
| 50 - 99 acres | 246,847 | 4.39 | 73 | .83 | 19,366 | 10.86 |
| 1 - 49 acres | 511,621 | 4.40 | 21 | 2.75 | 16,598 | 9.01 |
| Sales class: | | | | | | |
| \$500,000 or more | 38,921 | 5.32 | 4,505 | 10.85 | 1,018,130 | 5.65 |
| \$250,000 - \$499,999 | 73,067 | 4.36 | 2,140 | 10.34 | 291,690 | 1.45 |
| \$100,000 - \$249,999 | 197,844 | 3.08 | 1,286 | 4.40 | 136,240 | 1.05 |
| \$40,000 - \$99,999 | 241,034 | 3.20 | 851 | 6.15 | 57,072 | 1.39 |
| \$20,000 - \$39,999 | 173,168 | 4.33 | 461 | 8.38 | 24,266 | 1.78 |
| \$10,000 - \$19,999 | 208,116 | 4.95 | 282 | 10.70 | 12,332 | 1.62 |
| \$9,999 or less | 819,975 | 3.19 | 123 | 12.64 | 2,801 | 2.41 |
| Net farm income solvency class: ² | | | | | | |
| Favorable | 967,133 | 2.16 | 619 | 4.21 | 72,487 | 3.52 |
| Marginal income | 551,066 | 3.27 | 490 | 7.87 | 28,088 | 4.84 |
| Marginal solvency | 110,899 | 4.98 | 801 | 7.68 | 168,190 | 7.48 |
| Vulnerable | 123,027 | 5.98 | 597 | 14.81 | 52,681 | 9.48 |
| Farm type: | | | | | | |
| Cash grain | 337,498 | 2.94 | 574 | 3.44 | 68,475 | 3.11 |
| Tobacco | 75,473 | 9.72 | 144 | 8.15 | 34,588 | 17.33 |
| Cotton | 21,508 | 9.16 | 916 | 9.74 | 180,311 | 11.11 |
| Other field crops | 123,095 | 6.31 | 360 | 26.55 | 41,287 | 9.91 |
| Vegetable, fruit, or nuts | 92,762 | 11.37 | 136 | 16.19 | 94,609 | 16.47 |
| Nursery or greenhouse | 36,732 | 12.42 | 88 | 46.69 | 162,279 | 17.76 |
| Beef, hogs, or sheep | 804,380 | 2.60 | 826 | 4.65 | 42,059 | 5.50 |
| Poultry | 30,301 | 11.81 | 373 | 71.79 | 70,191 | 20.81 |
| Dairy | 138,735 | 4.73 | 342 | 4.31 | 165,072 | 4.62 |
| Other livestock | 91,417 | 10.06 | 253 | 19.87 | 21,601 | 15.82 |

¹The relative standard error (RSE) provides the means of evaluating the survey results. A smaller RSE indicates greater reliability of the estimate.

²See text on page 10 for an explanation of categories.

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

from production in compliance with the 10-year Conservation Reserve Program and other government programs and for summer fallow. Other government programs including set-aside and any other Federal and State programs accounted for 19.4 million of those acres.

Fifty-four percent of all cropland removed from production was in the Northern Plains and Mountain States. The large amount of cropland removed from production in these two regions reflects the crop-fallow rotations commonly followed in dry land cash grain production in the Mountain and Plains States, and large amounts of land taken out of production under crop reduction programs, conservation reserve, and other government programs.

Farm Size Measures

The two common measures of farm size are acres operated, a resource-based measure, and gross farm sales, an output-based measure. Gross value of sales in this report includes all sales of crops, livestock, poultry and products, and miscellaneous

agricultural products, as well as government agricultural payments and landlord's share of crops sold during the reporting year.

Acreage Class

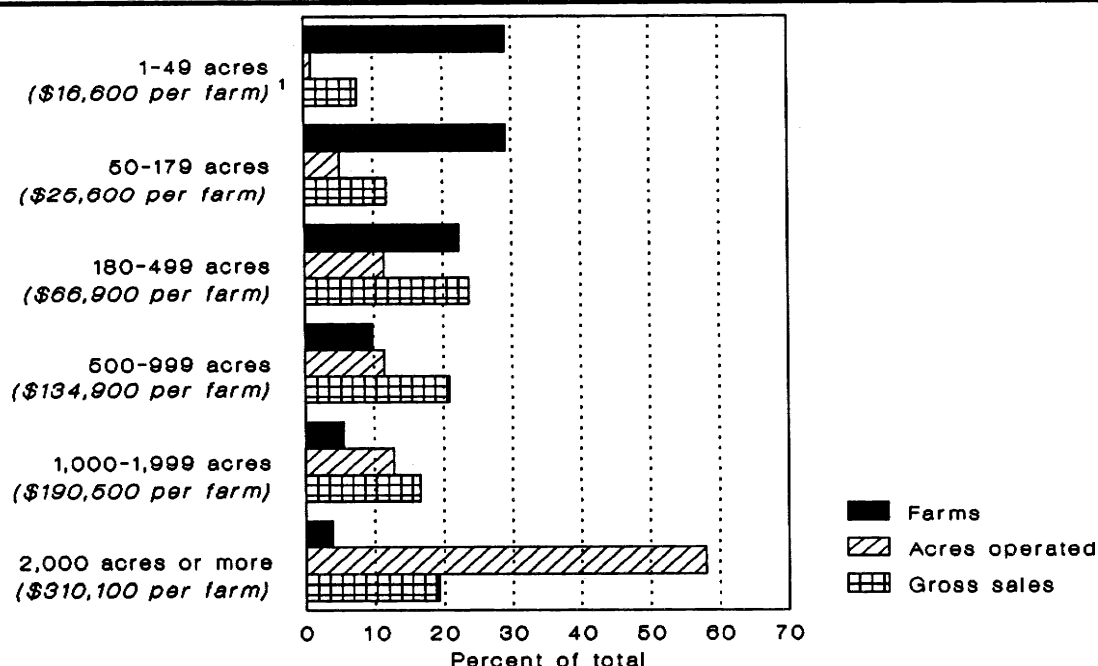
FCRS data show a concentration of farms in the smaller acreage classes, with more than 80 percent of the all farms having fewer than 500 acres (fig. 4). But, the average farm size of all farms surveyed was 588 acres. In total, farms with fewer than 500 acres operated slightly less than 20 percent of the survey's farmland. Only about 4 percent of the farms operated 2,000 or more acres, but they accounted for nearly 60 percent of the land operated. These very large farms operated 8,685 acres per farm.

Farms in the larger size classes with 500 acres or more generated about 57 percent of total gross farm sales in 1990. Average sales were also highest on farms in the largest acreage classes, generally increasing from just \$16,600 for farms with 1-49 acres to \$310,100 for farms with 2,000 or more acres.

Figure 4

Farms, farmland, and gross farm sales, by acreage class, 1990

The largest number of farms surveyed fall in the smaller acreage classes with fewer than 500 acres



¹ Numbers inside parentheses indicate average sales per reporting farm in the class.

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

Sales Class

The largest share of farms in the survey were classified in the lowest sales class, with nearly 60 percent reporting gross farm sales of less than \$20,000 in 1990 (fig. 5). These small farms account for only 15 percent of the acreage operated in the survey and 4 percent of farm sales.

A relatively small number of very large farms produced the largest share of farm sales. Only 2 percent of the farms were large operations with sales of \$500,000 or more, but they generated 36 percent of gross farm sales and operated 17 percent of the land.

Average acreage increased consistently with sales class, ranging from 155 acres per farm in the lowest sales class to 4,505 acres for farms with gross receipts of \$500,000 or more. The average farm in the \$500,000 or more sales class reported farm sales of \$1.0 million, compared with sales of \$4,700 for the average farm in the lowest sales class.

A substantial number of farms in the largest sales class specialize in enterprises that generate high sales volumes per acre operated (about \$226 per acre in 1990), such as cattle feedlots, poultry, vegetables, and fruits. Farms in the lowest sales class are more likely to specialize in enterprises requiring relatively large acreage per dollar of sales (generating only \$48 per acre), such as cash grains and range livestock.

Type of Farm

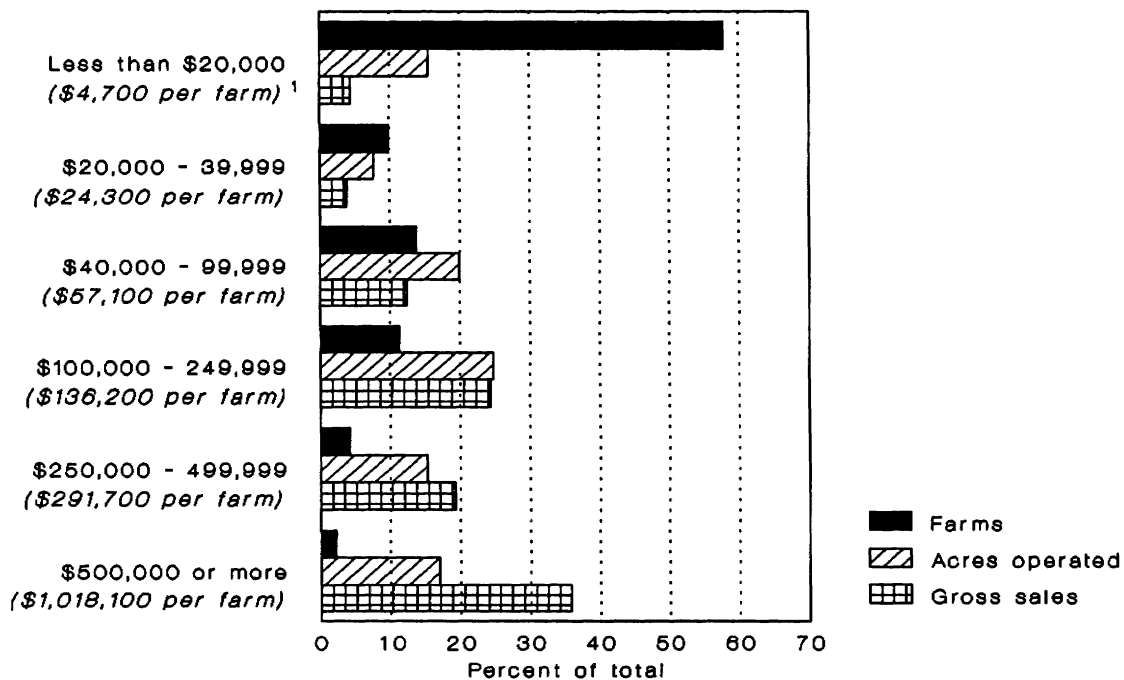
Beef-hog-sheep operations are the most common production specialty reported by farms in the 1990 survey, accounting for about 46 percent of the total. Cash grain farms (19 percent) rank second. These farm types also operated the largest shares of farmland, with beef-hog-sheep farms accounting for about 65 percent of total acreage and cash grain farms accounting for 19 percent of the total.

Beef-hog-sheep, cash grain, and dairy farms generated 73 percent of gross farm sales in 1990 (fig. 6). However, among these farm types, only

Figure 5

Farms, farmland, and gross farm sales, by sales class, 1990

The largest number of farms surveyed fall in the lowest sales class with less than \$20,000 of gross farm sales during the year



¹ Numbers inside parentheses indicate average sales perreporting farm in the class.
Source: Farm Costs and Returns Survey, U.S. Department of Agriculture.

dairy farms at \$165,100 per farm generated high average sales. Beef-hog-sheep operations averaged only \$42,100 in gross farm sales, which is below the average for all farms in the survey. The average sales value for cash grain farms at \$68,500 was similar to the all-farms average.

Farm Business Income Statement

In the 1990 FCRS, farm operations reported \$121.4 billion in gross cash farm income. Livestock and poultry sales represented 48 percent, crop sales 41 percent, government payments 5 percent, and other farm-related income 6 percent. Average gross cash income was about \$73,600 per reporting farm.

Cash expenses estimated from the 1990 survey totaled \$100.4 billion, with an average per reporting farm of \$57,400. Net cash farm income totaled \$21 billion, for an average of \$12,000 per reporting farm. After adjusting net cash income by subtracting depreciation and noncash labor expenses and adding the value of inventory change and nonmoney income, we estimated total net farm income at about \$23.6 billion, or \$13,500 per

reporting farm. Because of high relative standard errors of the net cash farm income and net farm income estimates by many of the farm and operating characteristics, we urge caution in making comparisons between categories of farms.

About a third of the survey's farms reported receiving direct government payments in 1990 at an average of nearly \$9,900 per reporting farm. About half of all payments went to two regions, the Northern Plains and Corn Belt. Farms organized as individual operations received the largest amount of direct government payments, accounting for 78 percent of the total. Government payments were also concentrated by farm type, with cash grain operations alone accounting for 55 percent of the total. Beef-hog-sheep operations rank next with 23 percent of the total.

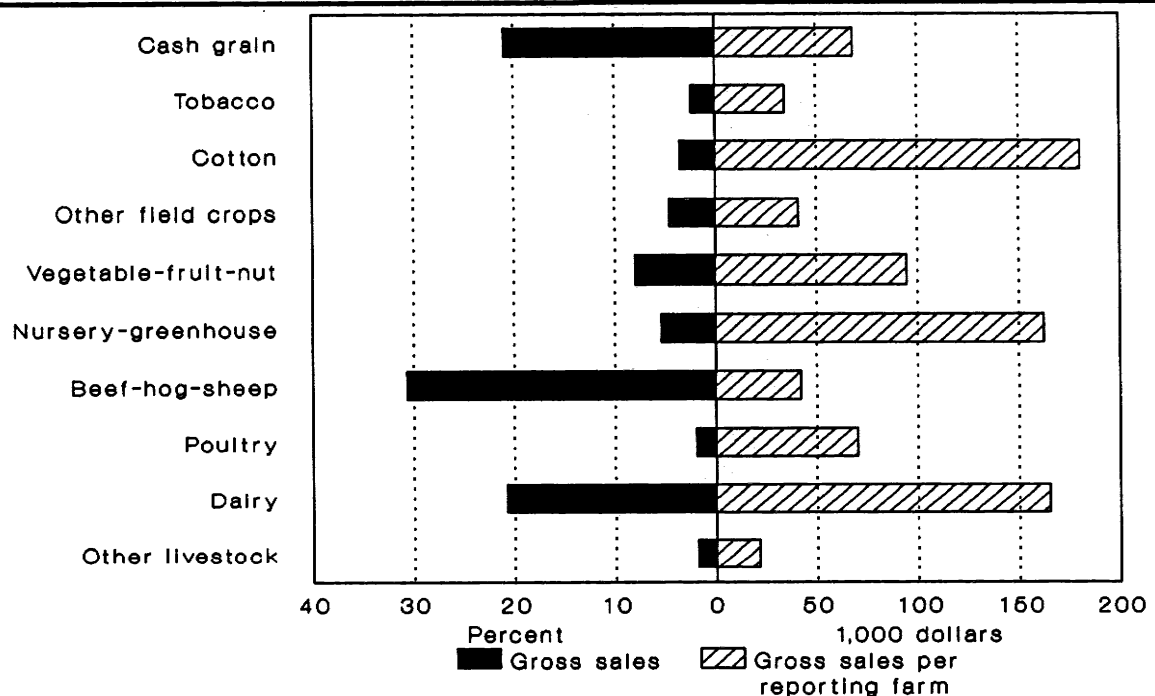
Farm Balance Sheet

Farm operations' assets and liabilities reported in the 1990 FCRS were \$719.4 billion and \$94.7 billion, resulting in total equity (the difference between assets and debts) of \$624.7 billion (fig. 7). The ratio

Figure 6

Distribution of gross farm sales and average sales, by type of farm, 1990

Three farm types in the survey--beef-hog-sheep, cash grain, and dairy--produce the bulk of farm sales, but only the dairy farms in the group generated high average sales per farm



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

of total debt to total assets was 0.13, leaving farm operations with an equity in their farm businesses equal to 87 percent of total asset value. The average value of assets per reporting farm was \$411,000, while liabilities averaged about \$55,600 per reporting farm. Equity per reporting farm averaged \$356,600.

Overall conclusions about regional patterns cannot be stated with certainty because of high relative standard errors for some of the estimates of farm assets and equity by region. However, the estimates of farm liabilities indicate that Corn Belt farms reported the largest amount of farm debt of all regions, amounting to about 20 percent of total liabilities in 1990. Average debt at about \$55,000 per reporting farm in the Corn Belt was similar to the average for all regions at about \$56,000 per reporting farm.

Farms operated by individuals accounted for 76 percent of the total assets and 78 percent of total liabilities reported in the 1990 survey. Average equity was highest on farms operated by corporations at \$1.6 million per reporting farm,

which is more than twice the estimated average equity for partnerships and five times the average for individually run farms.

New Capital Investments

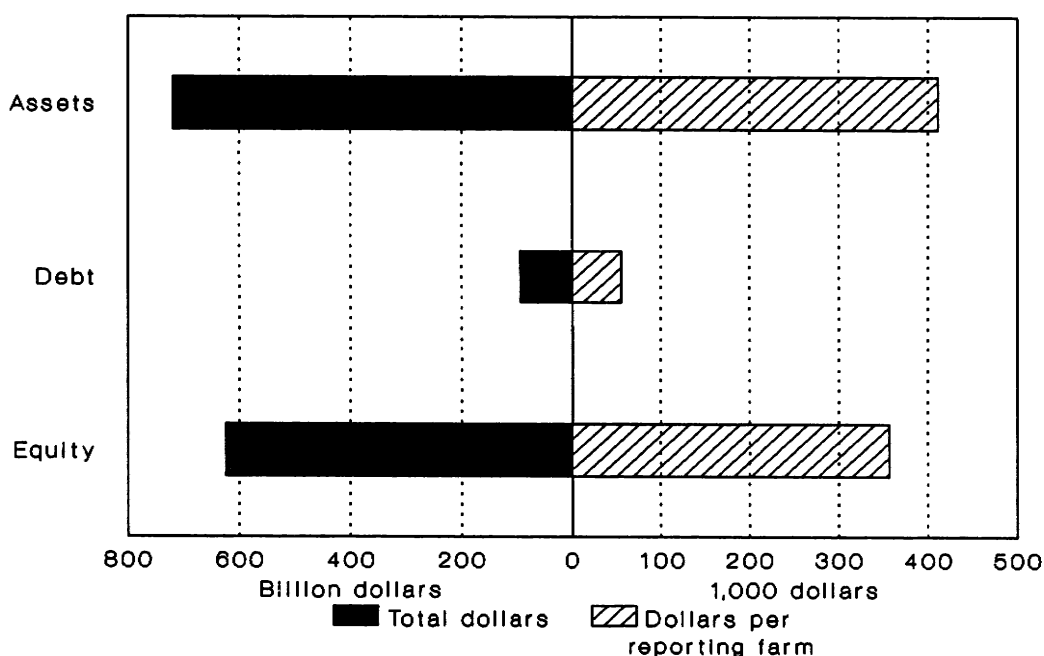
About 60 percent of farm operators in the FCRS reported new capital investments in 1990, for an average of \$13,000 per farm. They spent \$13.7 billion on capital investments, such as improvements to farm real estate and purchases of new machinery and equipment. The total amount spent on these investments was 1.9 percent of the total assets reported. This ratio indicates the rate of growth in total capital investments in the farm sector. The ratio of new capital investments to total assets suggests a general tendency toward lower levels of growth for farms classified in the smallest acreage (100 acres or fewer) and sales classes (\$20,000 or less).

About 80 percent of capital investments were made by individual operators at an average investment of \$11,500 per reporting farm. The average for farm partnerships was \$20,300 while corporate farms averaged \$36,200.

Figure 7

Farm business assets, debt, and equity, 1990

Farm operation equity equaled about 87 percent of total assets in 1990



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

Farm Financial Performance

Farms are classified by financial categories based on their combined net income and solvency status. The categories are (1) favorable - positive income and debt/asset ratio below 0.40; (2) marginal income - negative income and debt/asset ratio below 0.40; (3) marginal solvency - positive income and debt/asset ratio of 0.40 or higher; and (4) vulnerable - negative income and debt/asset ratio of 0.40 or higher. The largest share of farms in the 1990 FCRS were in the favorable financial category regardless of farm size (table 2 and fig. 8). About a third overall were in the marginal income category; most of these farms were small operations with sales of less than \$40,000. Comparatively few of the survey's farms were classified as marginally solvent or vulnerable.

Farms in the marginal solvency category generally had higher average sales than farms in the other financial performance categories while farms in the marginal income category averaged the lowest farm sales (table 2). However, average farm sales by financial category varied by sales class.

Selected Characteristics of Farm Operators

Farm operator age, principal occupation, and education have implications for the managerial capability of operators and, accordingly, for farm size and volume of output. FCRS data on the characteristics of farm operators show variation among farms, and some general patterns are noted.

Age

Almost equal numbers of the survey's farm operators are in each of the age groups, except for the relatively small number less than 35 years old (fig. 9). Farmland is also nearly equally distributed among the age groups 35 years old and older. Although the youngest group of farmers operated the fewest farms and least acreage, their share of farm sales was equal to that of the oldest group.

Average acreage estimates show no significant differences by age group of operator (table 3). However, average gross farm sales data indicate that sales fall off after the traditional retirement age at 65 years. Average sales at about \$37,300 for those 65 years old and older were significantly lower than for any other age group.

Data on farm assets and liabilities suggest differences in wealth of farm operators related to their age. Assets on farms operated by the youngest farmers totaled \$55.5 billion in 1990. Liabilities against these assets amounted to about \$13.8 billion, yielding a debt/asset ratio of 0.25. Debt/asset ratios for each age group were as follows:

| Age group | Debt/asset ratio |
|-----------------------|------------------|
| Younger than 35 years | 0.25 |
| 35-44 years | .20 |
| 45-54 years | .15 |
| 55-64 years | .10 |
| 65 years or older | .06 |

The debt/asset ratio, used as a measure of farmers' financial positions, has implications of financial security. The above ratios suggest a general tendency for farmers to start out highly leveraged and become financially solvent as they age.

The ratio of new capital investment to total assets was also highest for the youngest group of farmers at 3.8 percent, and then generally declined to a low of 1.0 percent for farmers 65 years of age or older. These data show some indication that younger farmers initially invest heavily to get their operations started, and the rate of new investment declines over time to the level needed to maintain total capital investment at a stable level.

Education

The largest number of farm operators in the 1990 survey (40 percent of the total) reported that they had completed high school but had not gone on to college. Another 19 percent had some college training, and 17 percent completed college. Operators with a high school education also operated the largest amount of the survey's farmland and generated the largest volume of total sales.

However, farm size measures suggest that the largest farms are operated by individuals with higher levels of education. Measured by acreage or sales, average farm size increases with level of education, with the exception of similar levels of average sales for operators with some college and operators with a college education (fig. 10).

The ratio of debts to assets in 1990 shows no clear pattern by educational level of operator. However, total equity per farm was comparatively high for

Table 2--Number of farms and mean sales for all regions, by farm financial category and gross farm sales class, 1990

The largest share of farms surveyed were in a favorable financial position, regardless of farm size

| Farm financial category/ sales class ¹ | Farms | RSE of number | Mean gross farm sales | RSE of mean |
|--|---------------|------------------|--------------------------|----------------|
| | <i>Number</i> | <i>Percent</i> | <i>Dollars</i> | <i>Percent</i> |
| Favorable | 967,133 | 2.16 | 72,487 | 3.52 |
| \$500,000 or more | 24,335 | 7.14 | 1,011,106 | 7.33 |
| \$250,000 - \$499,999 | 47,621 | 5.55 | 299,392 | 1.63 |
| \$100,000 - \$249,999 | 123,753 | 3.97 | 139,578 | 1.36 |
| \$40,000 - \$99,999 | 148,281 | 4.16 | 58,331 | 1.76 |
| \$20,000 - \$39,999 | 106,387 | 5.70 | 24,586 | 2.38 |
| \$10,000 - \$19,999 | 117,445 | 6.31 | 12,159 | 2.34 |
| \$9,999 or less | 399,309 | 4.16 | 3,194 | 3.22 |
| Marginal income | 551,066 | 3.27 | 28,088 | 4.84 |
| \$500,000 or more | 5,949 | 12.64 | 725,198 | 11.06 |
| \$250,000 - \$499,999 | 7,943 | 10.76 | 270,689 | 4.42 |
| \$100,000 - \$249,999 | 30,941 | 8.89 | 123,668 | 2.60 |
| \$40,000 - \$99,999 | 47,328 | 7.25 | 50,905 | 3.22 |
| \$20,000 - \$39,999 | 44,836 | 7.88 | 23,204 | 3.31 |
| \$10,000 - \$19,999 | 72,986 | 9.09 | 12,419 | 2.36 |
| \$9,999 or less | 341,083 | 4.65 | 2,438 | 3.79 |
| Marginal solvency | 110,899 | 4.98 | 168,190 | 7.48 |
| \$500,000 or more | 6,909 | 12.45 | 1,228,141 | 14.02 |
| \$250,000 - \$499,999 | 12,485 | 9.69 | 282,036 | 4.89 |
| \$100,000 - \$249,999 | 32,103 | 7.53 | 137,524 | 2.15 |
| \$40,000 - \$99,999 | 31,770 | 9.89 | 59,770 | 3.69 |
| \$20,000 - \$39,999 | 7,798 | 21.47 | 27,303 | 6.47 |
| \$10,000 - \$19,999 | 6,545 | 27.82 | 13,576 | 7.93 |
| \$9,999 or less | 13,289 | 19.94 | 2,243 | 19.95 |
| Vulnerable | 123,027 | 5.98 | 52,681 | 9.48 |
| \$500,000 or more | 1,728 | 16.22 | 1,285,939 | 16.76 |
| \$250,000 - \$499,999 | 5,019 | 16.87 | 275,863 | 4.61 |
| \$100,000 - \$249,999 | 11,046 | 12.43 | 130,330 | 4.20 |
| \$40,000 - \$99,999 | 13,654 | 13.08 | 58,509 | 4.85 |
| \$20,000 - \$39,999 | 14,147 | 16.20 | 23,548 | 5.54 |
| \$10,000 - \$19,999 | 11,139 | 17.47 | 12,849 | 3.94 |
| \$9,999 or less | 66,294 | 9.52 | 2,418 | 8.44 |

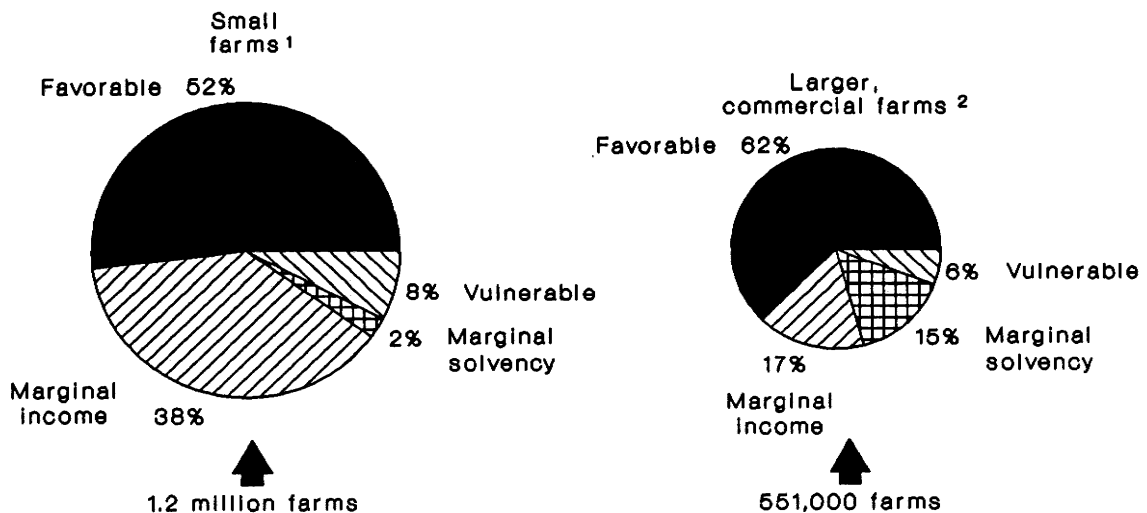
¹See text for an explanation of categories.

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

Figure 8

Farm financial performance, by farm size, 1990

The largest share of both small farms and larger, commercial farms in the survey are in the favorable financial category



¹ Small farms are defined as farms with less than \$40,000 of gross farm sales per year.

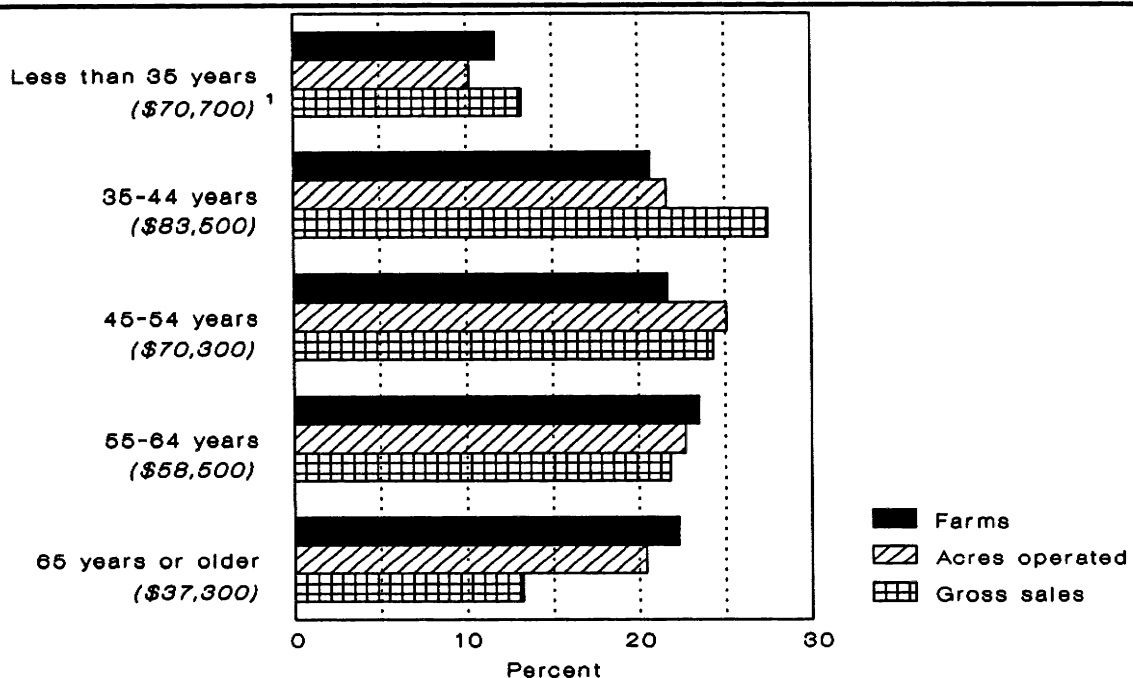
² Larger, commercial farms are defined as farms with gross farm sales of \$40,000 or more per year.

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

Figure 9

Farms, farmland, and gross farm sales, by age of operator, 1990

The youngest group of farmers operates the fewest farms and least acreage, but their share of farm sales equals that of the oldest group



¹ Numbers inside parentheses indicate average sales per reporting farm in the class.

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

operators with a college education at \$583,800 per farm. Average equity for all farms was about \$356,600.

Principal Occupation

The largest number of farm operators in the survey, representing 56 percent of the total in 1990, reported farm or ranch work as their primary occupation (defined as the occupation at which the operator spent 50 percent or more of his/her work time). Operators primarily employed in farm or ranch work also operated most of the farmland (82 percent) and produced most of the farm sales (86 percent). Hired farm managers ran only 1 percent of the farms. Their operations accounted for about 5 percent of the farmland and 7 percent of the farm sales. Farms operated by individuals with principal occupations other than farming (44 percent of the farms) accounted for 8 percent of total farm sales and 13 percent of all farmland.

Data on farm size, measured by average sales or average acreage, indicate that hired farm managers run the largest farms, and operators primarily employed off the farm run the smallest (fig. 11). These small farms reported an overall net cash farm income loss in 1990, as cash expenses exceeded gross cash income by an average of \$2,200 per farm.

Operator and Unpaid Labor

Farm operators worked an average of 32 hours per week on their farms in 1990. In addition to operator labor, nearly half of all farms reported using an average of 25 hours per week of unpaid labor. The total of operator and unpaid labor came to an average weekly labor input of 43 hours per farm.

By occupational category, operators who reported farming as their primary occupation used an average of 59 hours per week of operator and unpaid labor. Operators primarily employed in occupations other

Table 3--Number of farms, mean acres operated, and mean sales for all regions, by farm operator characteristics, 1990

Average farm sales were lowest for farm operators 65 years old and older, operators with less than a high school education, and operators primarily employed in occupations other than farming

| Operator characteristics | Farms | RSE of number | Mean acres operated | RSE of mean | Mean gross farm sales | RSE of mean |
|--------------------------|---------------|----------------|---------------------|----------------|-----------------------|----------------|
| | <i>Number</i> | <i>Percent</i> | <i>Acres</i> | <i>Percent</i> | <i>Dollars</i> | <i>Percent</i> |
| Occupation: | | | | | | |
| Farming | 974,625 | 1.79 | 871 | 3.67 | 96,887 | 2.66 |
| Hired farm manager | 11,647 | 11.10 | 3,944 | 19.76 | 629,439 | 18.57 |
| Other occupation | 765,452 | 3.26 | 177 | 8.37 | 11,094 | 5.42 |
| Age: | | | | | | |
| Less than 35 years | 205,437 | 4.89 | 512 | 10.67 | 70,695 | 5.95 |
| 35 - 44 years | 363,350 | 3.59 | 612 | 8.12 | 83,472 | 5.85 |
| 45 - 54 years | 380,727 | 3.64 | 680 | 6.90 | 70,349 | 4.69 |
| 55 - 64 years | 411,397 | 3.17 | 569 | 5.01 | 58,461 | 5.85 |
| 65 years or older | 390,989 | 3.23 | 538 | 9.04 | 37,251 | 8.62 |
| Education: | | | | | | |
| Less than high school | 420,747 | 3.35 | 375 | 8.51 | 33,088 | 5.75 |
| High school | 708,597 | 2.40 | 518 | 5.13 | 60,318 | 3.33 |
| Some college | 331,257 | 4.23 | 666 | 6.54 | 76,806 | 6.86 |
| College | 291,213 | 4.58 | 978 | 8.62 | 96,162 | 7.11 |

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

than farming reported a much lower average labor input at 23 hours per week of operator and unpaid labor, pointing out that these farms are largely part-time operations.

Farm Operator Households

Because most farms are operated as sole proprietorship businesses, farm business decisions such as what to produce or whether or not to expand the farm are affected by other activities of farm household members. Such factors as whether household members work at nearby off-farm jobs that provide income comparable to that from farming, whether children plan to become involved in farming, or whether retirement is close at hand affect what the household plans to do on the farm. Even for farms operated as partnerships or family corporations, what is done on the farm is influenced by nonfarm activities of household members involved in the farming operation.

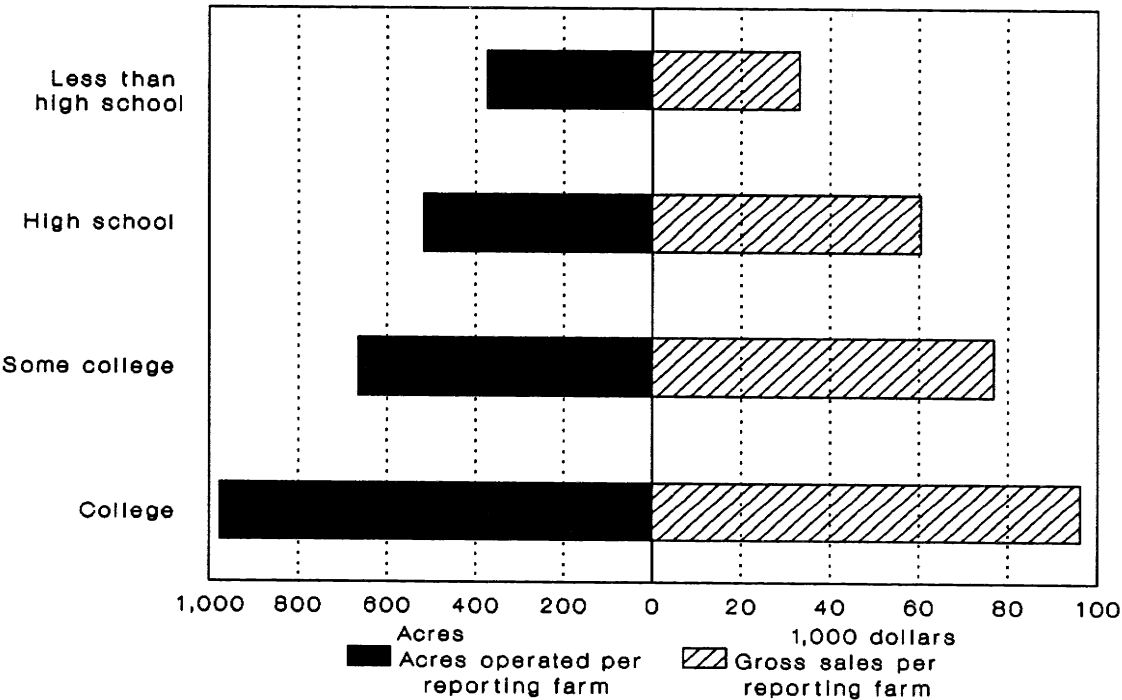
Most farm operator households receive some income from off-farm sources. Off-farm income significantly contributes to the total income of many

farm households, offsetting some of the differences in farm income observed among operations. Thus, knowing something about the relative importance of farm income to the farm household provides important insights that can help us understand the structure of the U.S. farm sector today.

FCRS Household Data

A subset of the FCRS data provides off-farm income and other information about farm operator households. Excluded from this subset are farms operated as nonfamily corporations or cooperatives or where the operator, as a hired manager, does not receive any of the net income of the farm business. For farms with more than one operator (for example, partnership businesses), only one operator and household, usually the senior operator and his/her household, are surveyed. The households of others who may consider themselves operators were not included in the survey. While we do not know the personal or household characteristics of these excluded households, we do know the number of other households that share in the net income of the farm business.

Figure 10
Average farmland and gross farm sales, by educational level of operator, 1990
Farm size increases with educational level of operator



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

In 1990, 130,382 farm operators reported that the net income of the farm business was split with others outside their household. On average, when households shared net farm business income, it was split with another 1.5 households. In these cases where the net income from the farm was shared by two or more households, the net farm income allocated to the surveyed household was calculated by multiplying the net income from the farm business by the share that the surveyed household reported receiving (a more detailed definition is found in app. A). For a detailed examination of farm operator households and their characteristics in 1988-90, see Ahearn, Perry, and El-Osta (1993).

Average Household Income

The average household income of farm operator households was \$39,007 in 1990 (table 4). There were variations by region and when households were grouped by the organization of the farm associated with the household. Farm operator households associated with family-held corporate farms had the highest average household income at

\$101,064, while households associated with individually operated farms had the lowest average household income at \$36,134.

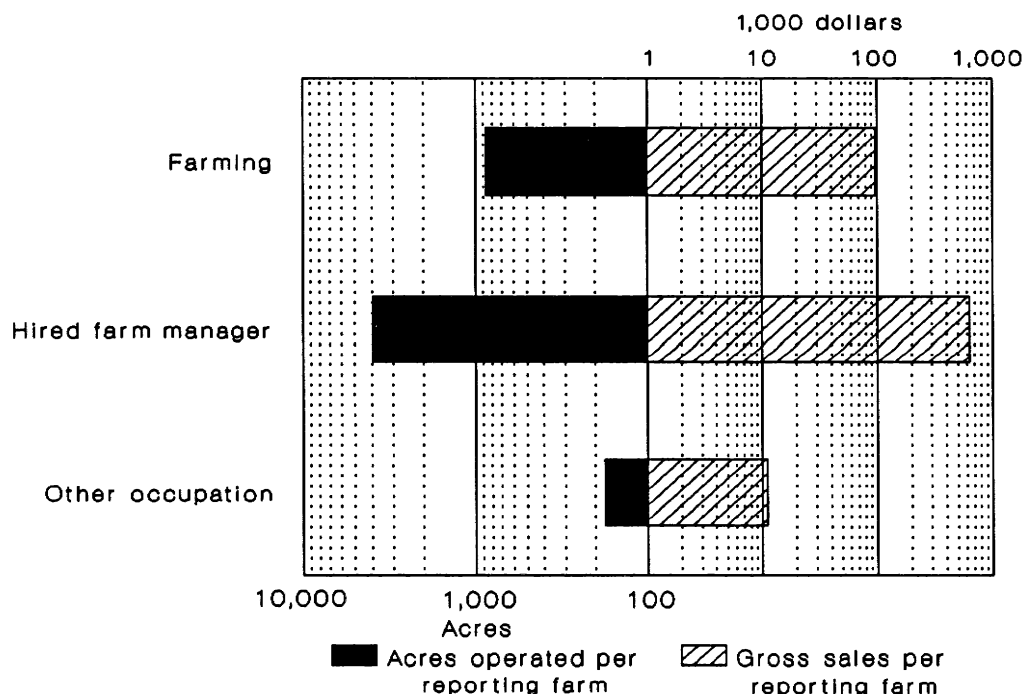
Farm operator household income also varied by the household's dependence on farm income. To measure the relative importance of farm income to the operator household, farms were grouped into categories based on the ratio of farm income to total household income, as defined in appendix A. Five categories of farm operator households with positive household income were created: loss from farming, 0-24 percent of total household income from farming, 25-49 percent from farming, 50-74 percent from farming, and 75 percent or more from farming. Farm operator households with negative total household income are in a separate group.

Farm operator households in the loss from farming category accounted for almost half of all farm operator households, and their average total household income was \$40,011 in 1990. Farm operator households in the next three categories had, on average, similar levels of total household income. Farm operator households with 75 percent or more of their

Figure 11

Average farmland and gross farm sales, by principal occupation of operator, 1990

Farm size measures indicate that hired farm managers run the largest farms and operators primarily employed off the farm run the smallest farms



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

household income from farming had a higher average household income of \$61,849, while farm operator households with negative total household income lost an average of \$25,983 in 1990.

Selected Farm Characteristics by Dependency Category

Average acreage and average sales estimates for 1990 show differences in farm size by degree of dependence on farming (fig. 12). Farm operator households that depend more on farm income and those with negative total household income generally have larger farms than other operator households. Farm operator households with positive total household income and farm losses have the smallest farms.

Farm operator households with positive total household income and farm losses had farms similar in many respects to farms associated with households in the positive household income/0-24 percent from farming dependency category. Farms

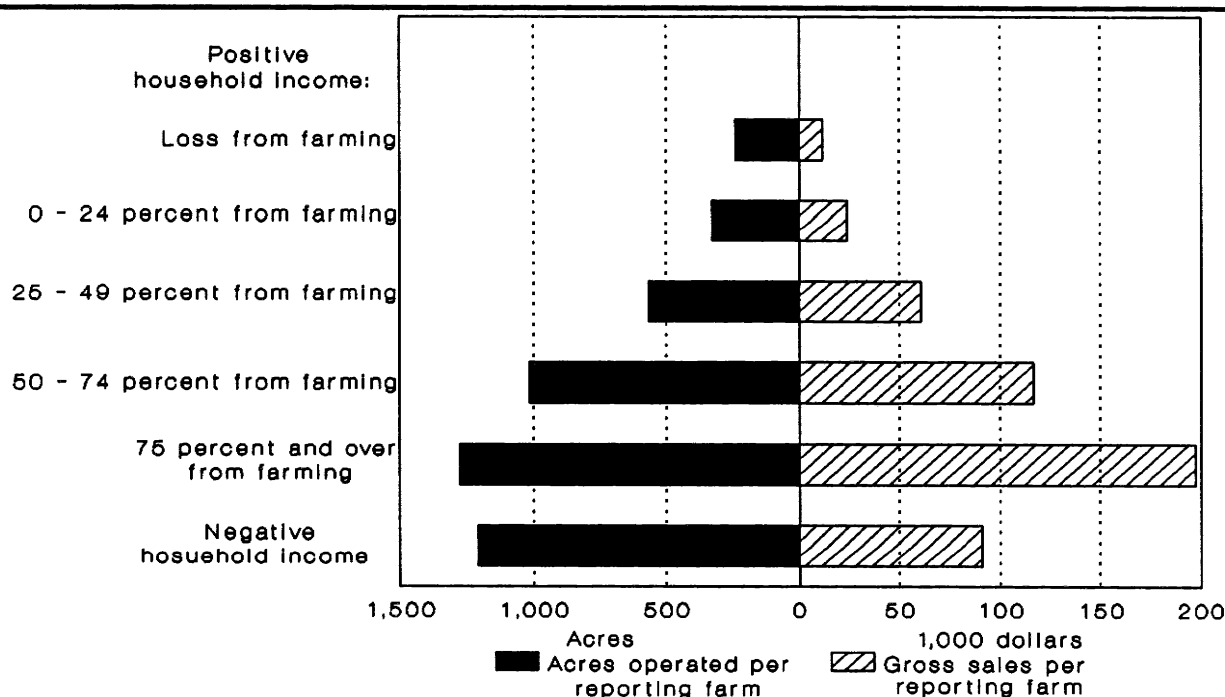
in these two categories were smaller, on average, than other farms in terms of acres operated, expenses, farm assets, liabilities, and equity. Operators of these farms also reported fewer average labor hours worked by both the operator and other unpaid labor. Average gross cash income from farming was also comparatively low for these two categories, but the average for the farm loss category was even lower than the average for the 0-24 percent dependency category.

Farm operator households with positive household incomes and 25-49 percent of it from farming reported that their farms averaged 567 acres in size, with gross cash income of \$68,814 per reporting farm. Farm operator households with positive household incomes and more than 50 percent of their income from farming and farm operator households with negative household incomes were associated with relatively large farms in terms of acres operated, gross cash income, and cash expenses. Farm assets, liabilities, and equity levels were also relatively high.

Figure 12

Average farmland and gross farm sales, by farm operator household dependency category, 1990

Farm operator households depend more on farm income as their farms' size increases



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

Table 4--Farm operator household income, by region, farm organization, and farm operator household dependency category, 1990

Farm operator households associated with individually operated farms, the most common business organization for farms in the survey, had a lower average household income than those associated with family-held corporate farms or partnership farms

| Item | Households reporting | Average per household | RSE of average |
|--|----------------------|-----------------------|----------------|
| | <i>Number</i> | <i>Dollars</i> | <i>Percent</i> |
| All farm households | 1,738,019 | 39,007 | 4.53 |
| Region: | | | |
| Northeast | 119,016 | 40,208 | 13.53 |
| Lake States | 193,555 | 32,882 | 4.95 |
| Corn Belt | 349,453 | 33,529 | 3.83 |
| Northern Plains | 148,887 | 38,541 | 8.84 |
| Appalachian | 251,170 | 28,796 | 4.19 |
| Southeast | 124,198 | 41,293 | 8.35 |
| Delta | 80,581 | 36,092 | 5.69 |
| Southern Plains | 227,747 | 38,130 | 5.18 |
| Mountain | 104,099 | 37,339 | 11.89 |
| Pacific | 139,315 | 81,465 | 21.13 |
| Farm organization: | | | |
| Corporate | 36,301 | 101,064 | 13.39 |
| Partnership | 110,000 | 60,104 | 10.24 |
| Individual | 1,591,718 | 36,134 | 5.19 |
| Farm operator household farm dependency category: | | | |
| Positive household income-- | | | |
| Loss from farming | 825,312 | 40,011 | 10.20 |
| 0 - 24 percent from farming | 267,007 | 45,107 | 7.14 |
| 25 - 49 percent from farming | 129,042 | 43,163 | 5.77 |
| 50 - 74 percent from farming | 103,996 | 45,961 | 5.71 |
| 75 percent and over | 263,018 | 61,849 | 4.24 |
| Negative household income | 149,644 | -25,983 | na |

na = Not applicable.

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

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Appendix A--Definitions of Terms

To simplify the use of the data in this report, the following definitions are provided:

Classification variables

Region: Regions and the States they contain are as follows:

Northeast:

Connecticut, Delaware, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont

Lake States:

Michigan, Minnesota, Wisconsin

Corn Belt:

Illinois, Indiana, Iowa, Missouri, Ohio

Northern Plains:

Kansas, Nebraska, North Dakota, South Dakota

Appalachian:

Kentucky, North Carolina, Tennessee, Virginia, West Virginia

Southeast:

Alabama, Florida, Georgia, South Carolina

Delta:

Arkansas, Louisiana, Mississippi

Southern Plains:

Oklahoma, Texas

Mountain:

Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, Wyoming

Pacific:

California, Oregon, Washington

Production specialty: Farm operators were asked to identify the farm production specialty classification that represented the largest portion of gross commodity receipts from their farm operation. Possible responses included the following:

Cash grains:

Largest portion of farm receipts from corn, soybeans, other grains (such as wheat, oats, barley, rye, and sorghum), and/or rice.

Tobacco:

Largest portion of farm receipts from tobacco.

Cotton:

Largest portion of farm receipts from cotton and cottonseed.

Other field crops:

Largest portion of farm receipts from peanuts, Irish potatoes, sunflowers, sweet potatoes, sugarcane, broomcorn, popcorn, sugar beets, mint, hops, seed crops, hay, silage, and forage or any remaining farms that received the majority of farm income from the sales of other types of field crops.

Vegetables, fruits, or nuts:

Largest portion of farm receipts from vegetables, fruits, tree nuts, and/or berries.

Nursery or greenhouse:

Largest portion of farm receipts from nursery and/or greenhouse products.

Beef, hog, or sheep:

Largest portion of farm receipts from cattle (except dairy breeding stock), hogs, pigs, sheep, and/or lambs.

Poultry:

Largest portion of farm receipts from broilers, other chickens, turkeys, and/or eggs.

Dairy:

Largest portion of farm receipts from milk and dairy products.

Other livestock:

Largest portion of farm receipts from mules, horses, foals and ponies, fur farms, bees and honey, fish, minnows, or any remaining livestock farms.

Farm organization: Respondents were asked to identify their farm operation as an individual operation, partnership, corporation (family or nonfamily), or cooperative. Because of the limited number of cooperatives, this category was dropped from this classification analysis (but retained in other classification analyses), and family and nonfamily corporations were combined.

Acreage class: Acres operated includes owned land plus land rented from others (including land rented or leased on an animal-unit-month (AUM) basis), less land rented out. Seven classes were constructed: 1 - 49 acres, 50 - 99 acres, 100 - 179 acres, 180 - 499 acres, 500 - 999 acres, 1,000 - 1,999 acres, and 2,000 or more acres.

Sales class: Gross value of sales includes all sales of crops, livestock, poultry and poultry products, and miscellaneous agricultural products, all government agricultural payments, and landlords' shares of crops sold. Seven classes were constructed: \$9,999 or less, \$10,000 - \$19,999, \$20,000 - \$39,999, \$40,000 - \$99,999, \$100,000 - \$249,999, \$250,000 - \$499,999, \$500,000 or more.

Net farm income solvency class: Farms were classified into one of four categories based on their combined income and solvency status, as defined in the text.

Land tenure status: Defined as acres owned as a percentage of land operated. Full tenants rented all of the land operated, part tenants (part owners) owned at least 1 acre and rented some of the land operated, and full owners owned all of the land operated in 1990.

Operator occupation: Farm operators were asked to identify their major occupation as farm or ranch work, hired manager, or something else.

Operator age: Farm operators were asked to provide their age, and five age categories were constructed: younger than 35 years, 35 - 44 years, 45 - 54 years, 55 - 64 years, and 65 years or older.

Operator education: Operators were asked to provide the highest grade they had completed in school. Four categories were constructed: less than high school, high school, some college, and college.

Table variables

Farms and land in farms:

Total acres operated:

Agricultural land owned plus land rented or leased from others (including land rented on an AUM basis), less land rented out.

Acres owned:

Total acres owned by the farm operation.

Land rented or leased from others: Acreage rented during the year, excluding land rented or leased on an animal-unit-month (AUM) basis.

Land rented out:

Acreage provided to other farm operations for cash rent or under a share rent agreement.

Cropland removed from production:

Land diverted from production in 1990 in compliance with government agricultural programs including set-aside, the 10-year Conservation Reserve Program (CRP), and other Federal or State programs, or for summer fallow.

Government programs:

Land idled from production in 1990 through Acres in Conservation Reserve (ACR) or Conserving Uses (CU) or in other Federal or State programs.

Labor hours worked: The average hours per week worked by the farm operator and by all persons who received no cash wages or any other compensation for farmwork on the operation during 1990. Operator hours and unpaid labor hours are also reported separately.

Capital investments: Total operator capital expenditures in 1990.

Farm business income and expenses:

Gross cash farm income:

Livestock sales--Gross value of all livestock items sold from the farm or ranch, including marketing charges and livestock sold under marketing contracts.

Crop sales--Gross value of all crop items sold from the farm or ranch, including marketing charges and crops sold under marketing contracts. Also includes net Commodity Credit Corporation loans (value of crops placed under CCC loans in 1990 less the value of CCC loans repaid, not forfeited).

Government farm payments--Gross value of direct payments by the Federal Government (excluding wool and unshorn lamb wool payments) including the face value of commodity (payment in kind (PIK))

certificates, plus the premium received from PIK certificates excluding the landlord's share.

Other farm income--Income from custom work, machine hire, land rented to others, livestock grazing, contract production fees, outdoor recreation, and any other farm-related income.

Cash expenses:

Includes variable expenses for livestock purchases, feed, veterinary services and supplies, other livestock-related expenses, seed and plants, fertilizer and chemicals, labor, fuels and oils, repairs and maintenance, machine-hire and custom work, utilities, and other variable expenses, as well as fixed expenses including real estate and property taxes, interest, insurance, and rent and lease payments.

Net cash farm income:

Gross cash farm income (as defined above) less cash expenses. Represents income available to farm operators for living expenses, principal payment, income taxes, and other expenses or reinvestment in the farm.

Net farm income:

Net cash farm income minus depreciation plus the value of inventory change and nonmoney income. Reflects the return or loss to operator and unpaid family labor, management, and equity capital associated with 1990's production.

Farm Business Assets and Liabilities:

Farm assets:

The estimated market value on December 31, 1990, of all capital assets owned by the farm operation.

Farm operation liabilities:

Total amount of debt owed by the farm or ranch on December 31, 1990. Includes outstanding principal plus unpaid interest owed to any banks, individuals, co-ops, merchants, or Federal agencies.

Equity:

The difference between farm operation assets and farm operation liabilities.

Farm Operator Household Variables

Farm operator households: The households of senior operators who operate the estimated 1.8 million farms covered by the 1990 FCRS. Households associated with farms that are organized as nonfamily corporations or cooperatives, or where the operator, as a hired manager, does not receive any of the net income of the farm business, are excluded. In the case of multiple operators, only the households of the senior operators are included.

Farm operator household income: The farm income that accrues to the farm operator household, less depreciation, plus all sources of off-farm income accruing to the household in 1990. Both farm income and off-farm income may be negative.

Farm operator household farm income:

Includes the net income of the farm operated times the percent received by the household, plus cash received by the household from renting out farmland, plus net income received by the household from other farm businesses, plus wages and salaries paid to the operator and household members by the farm business. The net income of the farm operated is calculated as the net cash income of the farm business, excluding income the business receives from renting out farmland and including farm labor expenses paid to household members as expenses, less depreciation.

Farm operator household off-farm income:

Includes off-farm wages and salaries of all household members, plus the net income of any nonfarm businesses, interest and dividends, and all other cash off-farm income of household members.

Farm operator household dependency categories:

A ratio is calculated to provide information on the components of farm operator household income and their importance. There are six categories of this ratio based on the value of farm operator household income and farm income, as defined in the text.

Appendix B--The Farm Costs and Returns Survey

The 1990 Farm Costs and Returns Survey (FCRS) provided the data for this report. The U.S. Department of Agriculture's (USDA) Economic Research Service (ERS) and National Agricultural Statistics Service (NASS) conduct this survey each year. The FCRS is the most comprehensive national annual data source available on farm financial and operating characteristics. A major advantage of the FCRS over other data sources is that details on expenses, income, assets, debt, and many other items can be disaggregated by production region, farm size, production specialty, and other characteristics. Such detail is important for a thorough understanding of the farm economy because it represents a collection of diverse agricultural enterprises.

Both NASS and ERS use the FCRS data extensively for production expense summaries, financial analyses, other publications, and staff work. NASS annually releases FCRS statistics on farm production expenses, while ERS publishes a detailed summary of financial characteristics of U.S. farms (Morehart, Johnson, and Banker, 1988, 1989, 1990, and 1992). ERS conducts research on the financial status of farms and presents the findings in USDA publications, professional journals, conference presentations, and other outlets. NASS and ERS also use the data to publish annual State and regional summaries of farm financial conditions (U.S. Dept. of Agriculture, NASS and ERS, *Farm Costs and Returns Survey, Summary*).

Data Reliability and Survey Coverage

More than 24,000 farms and ranches are contacted annually through personal interviews during February and March. The sample originates from two sources. The first is a list of known operators of farms stratified by economic size and other attributes. That sample, the list frame, contains larger, more specialized operations. Maintaining a current list for smaller operations is difficult. Thus, an area frame is used to compensate for any incompleteness in the list frame. The area frame sample consists of land segments located within the 48 contiguous States stratified by land use. Rigorous procedures are followed to prevent the inclusion of any one farm in both sample frames.

The FCRS is a probability-based survey, where each respondent represents a number of farms of similar

size and type. Thus, sample data can be expanded using appropriate weights to represent all U.S. farms. Estimates based on the expanded sample differ from what would have occurred if a complete enumeration had been taken. These differences result from sampling and nonsampling variability (Ford, Nealon, and Tortora, 1986). A measure of sampling variability is available from survey results. The relative standard error (RSE) is the standard error of the estimate represented as a percentage of the estimate. The RSE, also called the coefficient of variation (CV) when computed for means, is computed by dividing the standard error of the estimate and multiplying the result by 100. We question the reliability of an estimate when the RSE exceeds 25 percent, and data users should use caution when interpreting items reported with RSE's of this magnitude or higher. For the estimated number of farms reporting, RSE's not given in the tables will be noted with an asterisk if they exceed 25 percent.

The standard error can also be used to calculate a confidence interval around an estimate. The confidence interval, based on a 95-percent probability, for average acres operated for all farms, for example, is estimated to be between 549 and 627 acres. The standard error of an estimate can also evaluate the statistical significance of differences between groups. For example, the appropriate t-statistic for a comparison between average acres operated by farms in the Northeast and the Lake States can be constructed by taking the difference between the mean of the two groups and dividing by the square root of the sum of the squared standard errors of the two groups. Or

$$\begin{aligned} t &= (\text{Acres operated}_{\text{Northeast}} - \text{Acres operated}_{\text{Lake States}}) / \\ &\quad (\text{Standard error}_{\text{Northeast}}^2 + \text{Standard error}_{\text{Lake States}}^2)^{0.5} \\ &= (183 - 297) / (8.71^2 + 15.27^2)^{0.5} \\ &= -6.48 \end{aligned}$$

Although t-statistics are not reported in this report, the discussion in each section emphasizes the comparison between groups only when means were significantly different at the 95-percent level.

Survey data are also influenced by nonsampling errors. Data collection procedures are made uniform and consistent across the Nation by extensively training and supervising data collectors. Efforts are also undertaken to minimize other types

of potential nonsampling errors by using extensive edit and data analysis. Questionnaires are hand edited in State offices and through computerized routines in Washington, DC. The extent of nonsampling errors is not known or directly measurable.

NASS personnel in Washington, DC, combined the data collected in States and constructed farm size, geographic location, and production specialty variables on the basis of reported information for each farm operation. NASS is also responsible for constructing survey expansion factors, or weights. ERS provides additional information by constructing additional classification variables and by defining aggregated expense, income, asset, and debt categories as well as major financial indicators, such as net farm income and debt/asset ratio for each farm.

Comparability with Other Sources of Agricultural Data

F CRS estimates, for various reasons, often differ from other agricultural data sources. Therefore, direct comparisons between F CRS estimates published in this report and other available data should be made only with careful consideration to sample design, data collection procedures, and underlying variable definitions.

1987 Census of Agriculture

In 1987, for the first time, the Census of Agriculture (every 5 years) and the Farm Costs and Returns Survey (annual) were conducted simultaneously (U.S. Dept. of Commerce, 1989). Each survey gathers economic and physical agricultural data from a common target population: all farms that sold or normally would have sold at least \$1,000 worth of agricultural products. Aside from this similarity of purpose, there are several differences that limit comparability of data obtained from these surveys.

The most obvious differences pertain to sample design and data collection procedures. The Census of Agriculture requires mandatory participation, while the F CRS relies on voluntary response. As a result, the Census involves a complete enumeration of farms (for most items). The F CRS uses a probability-based, multiframe sampling approach, which provides estimates that are representative of the U.S. population of farms based on a smaller subsample. Questionnaires are mailed to targeted

farms and are completed by respondents for the Census. F CRS data are collected through personal interview by trained enumerators. The F CRS is conducted in the 48 contiguous States, while the Census includes Alaska and Hawaii. The Census of Agriculture also includes institutional farms, which are excluded in the F CRS.

In many instances, there are conceptual differences associated with specific pieces of information obtained from these surveys due to the wording of questions asked or the instructions associated with collecting the information. In other cases, the level of detail may differ between the types of questions asked, which prohibits direct comparisons. Finally, the inclusions of landlord and contractor shares of income and expenses may not be consistent between specific categories.

USDA Agricultural Data

Estimates of income, expenses, assets, and debt of the U.S. farm sector reported in *Economic Indicators of the Farm Sector Series* (ECIFS) are not directly comparable with estimates from this report (U.S. Dept. of Agriculture, 1991; U.S. Dept. of Agriculture, *Agricultural Income and Finance Situation and Outlook*). ECIFS estimates represent a combination of several data sources. In many instances, procedures used and assumptions made are dictated by the format of available data. Since the F CRS estimates represent farm operators, these estimates are typically below those of ECIFS, which represent the entire farm sector (farm operators, landlords, contractors, and others). ECIFS estimates also cover all 50 States versus the 48 States covered by the F CRS.

Appendix table 1—Mean acres operated, by organization, tenancy, acreage, sales, solvency, and region, 1990

| Item | Northeast | | | Lake States | | | Corn Belt | | | Northern Plains | | |
|---------------------------------|----------------|--------------|--------------------------|----------------|--------------|--------------------------|----------------|--------------|--------------------------|-----------------|--------------|--------------------------|
| | Expanded count | Mean acres | RSE of mean ¹ | Expanded count | Mean acres | RSE of mean ¹ | Expanded count | Mean acres | RSE of mean ¹ | Expanded count | Mean acres | RSE of mean ¹ |
| | <i>Farms</i> | <i>Acres</i> | <i>Percent</i> | <i>Farms</i> | <i>Acres</i> | <i>Percent</i> | <i>Farms</i> | <i>Acres</i> | <i>Percent</i> | <i>Farms</i> | <i>Acres</i> | <i>Percent</i> |
| All farms | 119,990 | 183 | 4.76 | 195,870 | 297 | 5.14 | 350,803 | 293 | 3.53 | 149,551 | 1,062 | 4.96 |
| Organization: | | | | | | | | | | | | |
| Corporate | 2,662* | 381 | 19.65 | 5,837 | 848 | 24.97 | 8,051 | 597 | 17.04 | 4,465 | 2,866 | 11.73 |
| Partnership | 11,000 | 312 | 11.32 | 14,026 | 498 | 11.81 | 18,882 | 564 | 12.92 | 6,165 | 2,512 | 10.50 |
| Individual | 106,305 | 165 | 5.56 | 175,976 | 263 | 4.85 | 323,858 | 270 | 3.80 | 138,906 | 939 | 5.75 |
| Tenancy: | | | | | | | | | | | | |
| Full tenant | 8,053 | 174 | 13.29 | 13,990 | 274 | 15.74 | 38,266 | 384 | 7.70 | 23,310 | 730 | 8.93 |
| Part tenant | 44,318 | 290 | 6.22 | 82,048 | 450 | 4.89 | 133,483 | 465 | 3.77 | 76,621 | 1,536 | 5.37 |
| Full owner | 67,619 | 115 | 7.91 | 99,831 | 175 | 11.75 | 179,054 | 146 | 8.06 | 49,619 | 484 | 11.14 |
| Acreage class: | | | | | | | | | | | | |
| 2,000 or more acres | d | d | na | d | d | na | 2,503 | 2,641 | 3.85 | 20,884 | 4,028 | 3.64 |
| 1,000-1,999 acres | 2,051* | 1,267 | 3.10 | 8,814 | 1,324 | 5.41 | 15,955 | 1,328 | 2.09 | 25,214 | 1,431 | 1.65 |
| 500-999 acres | 5,236 | 660 | 3.09 | 24,167 | 691 | 2.12 | 48,263 | 681 | 1.31 | 34,209 | 700 | 1.48 |
| 180-499 acres | 35,140 | 291 | 3.00 | 61,427 | 307 | 1.99 | 98,989 | 295 | 1.96 | 36,741 | 329 | 2.35 |
| 100-179 acres | 21,784 | 133 | 1.90 | 42,993 | 136 | 1.86 | 56,801 | 133 | 1.47 | 12,281 | 144 | 1.79 |
| 50-99 acres | 20,568 | 73 | 2.19 | 23,948 | 74 | 2.85 | 48,658 | 75 | 2.14 | 6,881* | 71 | 5.53 |
| 1-49 acres | 35,022 | 22 | 6.57 | 33,575 | 25 | 7.83 | 79,634 | 24 | 5.08 | 13,341 | 20 | 12.61 |
| Sales class: | | | | | | | | | | | | |
| \$500,000 or more | 2,686 | 903 | 13.17 | 4,424 | 977 | 16.70 | 5,559 | 1,264 | 10.78 | 3,884 | 4,626 | 8.54 |
| \$250,000-\$499,999 | 4,740 | 452 | 9.61 | 9,196 | 829 | 4.42 | 17,816 | 997 | 3.74 | 10,283 | 2,310 | 9.80 |
| \$100,000-\$249,999 | 14,803 | 299 | 8.23 | 37,694 | 472 | 4.89 | 56,183 | 565 | 3.86 | 31,569 | 1,670 | 6.37 |
| \$40,000-\$99,999 | 17,120 | 202 | 9.57 | 39,488 | 309 | 14.48 | 56,825 | 338 | 4.58 | 42,178 | 1,073 | 11.40 |
| \$20,000-\$39,999 | 8,426 | 184 | 9.88 | 24,202 | 198 | 11.29 | 39,706 | 237 | 14.64 | 19,721 | 559 | 11.05 |
| \$10,000-\$19,999 | 10,954 | 198 | 22.16 | 20,918 | 254 | 22.00 | 45,975 | 168 | 13.60 | 14,434 | 310 | 13.30 |
| \$9,999 or less | 61,261 | 95 | 9.69 | 59,948 | 103 | 13.83 | 128,739 | 78 | 6.91 | 27,483 | 131 | 14.44 |
| Net farm income solvency class: | | | | | | | | | | | | |
| Favorable | 59,637 | 209 | 6.09 | 107,248 | 306 | 5.18 | 212,600 | 293 | 4.39 | 86,895 | 1,134 | 6.66 |
| Marginal income | 45,216 | 149 | 9.06 | 56,086 | 276 | 14.50 | 96,193 | 232 | 8.48 | 30,488 | 837 | 11.93 |
| Marginal solvency | 7,344 | 237 | 13.23 | 18,901 | 354 | 10.03 | 22,175 | 542 | 8.37 | 19,283 | 1,166 | 8.69 |
| Vulnerable | 7,793 | 133 | 25.47 | 13,635 | 238 | 16.93 | 19,834 | 320 | 13.33 | 12,886 | 948 | 15.17 |

See footnotes at end of table.

Continued—

Appendix table 1—Mean acres operated, by organization, tenancy, acreage, sales, solvency, and region, 1990—Continued

| Item | Appalachian | | | Southeast | | | Delta | | |
|---------------------------------|----------------|--------------|--------------------------|----------------|--------------|--------------------------|----------------|--------------|--------------------------|
| | Expanded count | Mean acres | RSE of mean ¹ | Expanded count | Mean acres | RSE of mean ¹ | Expanded count | Mean acres | RSE of mean ¹ |
| | <i>Farms</i> | <i>Acres</i> | <i>Percent</i> | <i>Farms</i> | <i>Acres</i> | <i>Percent</i> | <i>Farms</i> | <i>Acres</i> | <i>Percent</i> |
| All farms | 252,383 | 174 | 4.57 | 125,600 | 281 | 11.22 | 81,471 | 326 | 5.06 |
| Organization: | | | | | | | | | |
| Corporate | 1,932* | 529 | 18.39 | 3,398 | 2,170 | 41.52 | 2,688* | 1,210 | 26.99 |
| Partnership | 12,522 | 442 | 13.63 | 6,181 | 433 | 20.35 | 3,216 | 1,275 | 12.28 |
| Individual | 237,831 | 157 | 4.93 | 116,020 | 218 | 10.27 | 75,568 | 254 | 5.00 |
| Tenancy: | | | | | | | | | |
| Full tenant | 15,466 | 186 | 14.58 | 5,540 | 461 | 26.31 | 7,841 | 821 | 11.22 |
| Part tenant | 92,198 | 265 | 6.68 | 37,013 | 402 | 12.86 | 29,007 | 426 | 7.05 |
| Full owner | 144,718 | 114 | 5.73 | 83,047 | 215 | 19.06 | 44,623 | 174 | 7.82 |
| Acreage class: | | | | | | | | | |
| 2,000 or more acres | 1,034 | 2,875 | 3.98 | 3,249* | 4,526 | 25.09 | 1,799 | 3,493 | 6.73 |
| 1,000-1,999 acres | 5,524 | 1,296 | 5.27 | 3,630 | 1,310 | 2.93 | 3,953 | 1,393 | 1.96 |
| 500-999 acres | 12,069 | 665 | 2.25 | 6,662 | 662 | 2.43 | 7,685 | 686 | 1.89 |
| 180-499 acres | 46,066 | 283 | 2.18 | 19,591 | 300 | 2.98 | 18,872 | 302 | 2.94 |
| 100-179 acres | 52,156 | 136 | 1.41 | 19,345 | 132 | 2.19 | 16,827 | 139 | 1.96 |
| 50-99 acres | 49,002 | 74 | 1.59 | 27,346 | 73 | 2.22 | 13,617 | 69 | 3.01 |
| 1-49 acres | 86,531 | 22 | 5.21 | 45,775 | 22 | 7.51 | 18,718 | 27 | 6.01 |
| Sales class: | | | | | | | | | |
| \$500,000 or more | 2,031 | 1,186 | 14.55 | 3,054 | 3,242 | 29.93 | 3,149 | 1,798 | 20.89 |
| \$250,000-\$499,999 | 4,087 | 886 | 10.49 | 5,099* | 685 | 23.63 | 3,913 | 952 | 17.05 |
| \$100,000-\$249,999 | 10,978 | 679 | 11.09 | 5,746 | 681 | 13.06 | 5,356 | 732 | 9.15 |
| \$40,000-\$99,999 | 21,187 | 324 | 9.19 | 10,439 | 537 | 22.31 | 7,473 | 438 | 8.91 |
| \$20,000-\$39,999 | 23,937 | 199 | 8.26 | 9,458 | 387 | 26.52 | 8,551 | 345 | 11.06 |
| \$10,000-\$19,999 | 36,036 | 156 | 7.84 | 14,455 | 149 | 13.00 | 9,699 | 224 | 8.42 |
| \$9,999 or less | 154,127 | 85 | 7.23 | 77,349 | 85 | 10.25 | 43,329 | 112 | 9.34 |
| Net farm income solvency class: | | | | | | | | | |
| Favorable | 164,888 | 177 | 5.78 | 66,171 | 315 | 18.24 | 44,161 | 321 | 6.86 |
| Marginal income | 66,318 | 154 | 7.94 | 45,367 | 229 | 11.52 | 24,843 | 252 | 8.95 |
| Marginal solvency | 9,156 | 313 | 21.95 | 4,874 | 375 | 20.96 | 6,454 | 500 | 17.24 |
| Vulnerable | 12,021 | 127 | 22.35 | 9,188 | 244 | 16.97 | 6,013 | 476 | 20.32 |

See footnotes at end of table.

Continued—

Appendix table 1—Mean acres operated, by organization, tenancy, acreage, sales, solvency, and region, 1990—Continued

| Item | Southern Plains | | | Mountain | | | Pacific | | |
|---------------------------------|-----------------|--------------|--------------------------|----------------|--------------|--------------------------|----------------|--------------|--------------------------|
| | Expanded count | Mean acres | RSE of mean ¹ | Expanded count | Mean acres | RSE of mean ¹ | Expanded count | Mean acres | RSE of mean ¹ |
| | <i>Farms</i> | <i>Acres</i> | <i>Percent</i> | <i>Farms</i> | <i>Acres</i> | <i>Percent</i> | <i>Farms</i> | <i>Acres</i> | <i>Percent</i> |
| All farms | 228,760 | 543 | 8.08 | 105,039 | 3,221 | 8.53 | 142,660 | 844 | 17.58 |
| Organization: | | | | | | | | | |
| Corporate | 2,736* | 5,291 | 49.54 | 5,519 | 13,672 | 13.35 | 7,550 | 4,296 | 41.85 |
| Partnership | 10,548 | 1,354 | 28.31 | 12,168* | 7,258 | 32.92 | 16,205* | 1,186 | 44.94 |
| Individual | 215,448 | 443 | 7.76 | 87,333 | 1,996 | 11.60 | 118,905 | 578 | 18.33 |
| Tenancy: | | | | | | | | | |
| Full tenant | 17,490 | 1,096 | 21.30 | 9,085 | 3,050 | 21.08 | 13,062 | 986 | 27.24 |
| Part tenant | 81,221 | 863 | 9.64 | 36,408 | 4,832 | 11.79 | 33,406 | 1,715 | 24.56 |
| Full owner | 130,049 | 269 | 15.78 | 59,546 | 2,262 | 15.30 | 96,192 | 522 | 32.11 |
| Acreage class: | | | | | | | | | |
| 2,000 or more acres | 11,025 | 6,183 | 9.87 | 20,792 | 14,797 | 7.46 | 6,353 | 16,327 | 16.01 |
| 1,000-1,999 acres | 13,199 | 1,366 | 2.11 | 13,655* | 1,436 | 2.31 | 4,431 | 1,327 | 3.31 |
| 500-999 acres | 20,953 | 717 | 1.92 | 6,968 | 711 | 2.08 | 5,573 | 726 | 3.34 |
| 180-499 acres | 50,956 | 304 | 2.55 | 13,060 | 314 | 3.00 | 11,611 | 285 | 3.58 |
| 100-179 acres | 29,251 | 128 | 1.77 | 5,555 | 137 | 2.20 | 7,224 | 132 | 2.30 |
| 50-99 acres | 31,358 | 72 | 2.65 | 8,725 | 70 | 3.17 | 16,743 | 70 | 3.24 |
| 1-49 acres | 72,017 | 21 | 6.81 | 36,284 | 16 | 9.04 | 90,726 | 14 | 9.13 |
| Sales class: | | | | | | | | | |
| \$500,000 or more | 3,185 | 8,187 | 26.76 | 3,403 | 19,108 | 17.20 | 7,546 | 4,573 | 39.07 |
| \$250,000-\$499,999 | 5,748 | 2,354 | 15.33 | 5,875 | 10,952 | 23.57 | 6,311 | 2,592 | 31.94 |
| \$100,000-\$249,999 | 10,577 | 1,839 | 9.51 | 13,196 | 6,864 | 9.94 | 11,742 | 1,908 | 22.28 |
| \$40,000-\$99,999 | 20,210 | 1,343 | 12.65 | 13,948 | 4,150 | 13.45 | 12,168 | 2,004 | 25.08 |
| \$20,000-\$39,999 | 18,671 | 757 | 10.87 | 9,352 | 2,201 | 24.79 | 11,144 | 619 | 32.79 |
| \$10,000-\$19,999 | 32,146 | 344 | 11.96 | 10,837 | 939 | 20.91 | 12,661* | 621 | 71.25 |
| \$9,999 or less | 138,222 | 93 | 8.73 | 48,428 | 614 | 38.03 | 81,088 | 98 | 45.60 |
| Net farm income solvency class: | | | | | | | | | |
| Favorable | 107,072 | 650 | 11.64 | 51,983 | 3,513 | 10.16 | 66,477 | 1,143 | 23.62 |
| Marginal income | 94,781 | 382 | 12.78 | 34,035 | 2,995 | 18.56 | 57,740 | 601 | 24.78 |
| Marginal solvency | 9,141 | 832 | 19.82 | 9,082 | 2,837 | 25.12 | 4,489 | 1,012 | 46.07 |
| Vulnerable | 17,766 | 609 | 23.30 | 9,939 | 2,815 | 38.19 | 13,953 | 370 | 42.26 |

*=The relative standard error for the estimated number of farms reporting exceeds 25 percent.

d=Data insufficient for disclosure.

na=Not applicable.

¹The relative standard error (RSE) provides the means of evaluating the survey results. A smaller RSE indicates greater reliability of the estimate.

Appendix table 2—Mean acres operated, by production specialty, selected operator characteristics, and region, 1990

| Item | Northeast | | | Lake States | | | Corn Belt | | | Northern Plains | | |
|---------------------------|----------------|--------------|--------------------------|----------------|--------------|--------------------------|----------------|--------------|--------------------------|-----------------|--------------|--------------------------|
| | Expanded count | Mean acres | RSE of mean ¹ | Expanded count | Mean acres | RSE of mean ¹ | Expanded count | Mean acres | RSE of mean ¹ | Expanded count | Mean acres | RSE of mean ¹ |
| | <i>Farms</i> | <i>Acres</i> | <i>Percent</i> | <i>Farms</i> | <i>Acres</i> | <i>Percent</i> | <i>Farms</i> | <i>Acres</i> | <i>Percent</i> | <i>Farms</i> | <i>Acres</i> | <i>Percent</i> |
| Production specialty: | | | | | | | | | | | | |
| Cash grain | 12,980 | 238 | 11.49 | 50,294 | 365 | 7.60 | 134,228 | 416 | 4.11 | 67,549 | 880 | 4.69 |
| Tobacco | d | d | na | d | d | na | d | d | na | 0 | 0 | na |
| Cotton | d | d | na | d | d | na | d | d | na | 0 | 0 | na |
| Other field crops | 13,579 | 136 | 15.92 | 15,155 | 329 | 18.13 | 15,337 | 124 | 22.66 | d | d | na |
| Vegetable, fruit, or nuts | 10,666 | 112 | 13.67 | 9,548 | 133 | 28.12 | 5,074* | 113 | 27.63 | d | d | na |
| Nursery or greenhouse | 6,053 | 78 | 35.85 | 2,003* | 41 | 32.78 | 5,321* | 79 | 38.60 | d | d | na |
| Beef, hogs, or sheep | 35,508 | 131 | 13.80 | 40,250 | 276 | 12.23 | 150,726 | 244 | 6.56 | 65,560 | 1,353 | 7.60 |
| Poultry | d | d | na | d | d | na | d | d | na | d | d | na |
| Dairy | 28,350 | 330 | 6.70 | 59,536 | 312 | 5.39 | 21,360 | 250 | 9.04 | 5,578 | 844 | 22.01 |
| Other livestock | 8,427 | 123 | 18.97 | 14,739 | 239 | 50.25 | 8,756* | 110 | 22.94 | 3,754* | 742 | 30.93 |
| Operator characteristics: | | | | | | | | | | | | |
| Occupation— | | | | | | | | | | | | |
| Farming | 68,247 | 243 | 5.09 | 130,876 | 375 | 5.20 | 205,905 | 416 | 3.51 | 118,080 | 1,261 | 4.77 |
| Hired farm manager | d | d | na | d | d | na | d | d | na | d | d | na |
| Other occupation | 50,908 | 101 | 9.25 | 64,373 | 137 | 11.14 | 143,311 | 114 | 6.29 | 30,893 | 290 | 12.14 |
| Age— | | | | | | | | | | | | |
| Less than 35 years old | 15,795 | 196 | 18.50 | 32,019 | 260 | 10.54 | 47,918 | 368 | 10.22 | 22,791 | 761 | 11.43 |
| 35-44 years old | 25,503 | 193 | 10.71 | 45,268 | 356 | 9.08 | 75,699 | 334 | 7.55 | 33,218 | 1,223 | 7.83 |
| 45-54 years old | 28,257 | 163 | 9.04 | 50,234 | 305 | 13.32 | 78,647 | 308 | 6.87 | 25,692 | 1,188 | 8.17 |
| 55-64 years old | 27,578 | 193 | 7.88 | 40,231 | 312 | 7.36 | 76,934 | 282 | 7.05 | 32,539 | 1,221 | 8.29 |
| 65 years or older | 22,857 | 176 | 9.42 | 28,118 | 208 | 11.80 | 71,606 | 197 | 7.58 | 35,311 | 865 | 18.81 |
| Education— | | | | | | | | | | | | |
| Less than high school | 31,683 | 148 | 8.70 | 43,392 | 239 | 8.82 | 72,439 | 165 | 9.06 | 28,769 | 998 | 17.84 |
| High school | 52,391 | 195 | 7.63 | 92,885 | 306 | 7.38 | 170,126 | 318 | 5.37 | 59,672 | 1,029 | 7.08 |
| Some college | 13,025 | 203 | 13.31 | 36,543 | 343 | 12.46 | 60,396 | 333 | 7.29 | 33,548 | 1,144 | 7.87 |
| College | 22,890 | 195 | 10.51 | 23,050 | 299 | 15.06 | 47,842 | 353 | 8.49 | 27,561 | 1,099 | 10.59 |

See footnotes at end of table.

Continued—

Appendix table 2—Mean acres operated, by production specialty, selected operator characteristics, and region, 1990—Continued

| Item | Appalachian | | | Southeast | | | Delta | | |
|---------------------------|----------------|--------------|--------------------------|----------------|--------------|--------------------------|----------------|--------------|--------------------------|
| | Expanded count | Mean acres | RSE of mean ¹ | Expanded count | Mean acres | RSE of mean ¹ | Expanded count | Mean acres | RSE of mean ¹ |
| | <i>Farms</i> | <i>Acres</i> | <i>Percent</i> | <i>Farms</i> | <i>Acres</i> | <i>Percent</i> | <i>Farms</i> | <i>Acres</i> | <i>Percent</i> |
| Production specialty: | | | | | | | | | |
| Cash grain | 17,583 | 357 | 12.94 | 11,591 | 325 | 15.56 | 13,420 | 601 | 8.57 |
| Tobacco | 63,492 | 134 | 9.08 | 3,654 | 365 | 14.84 | 0 | 0 | na |
| Cotton | d | d | na | 3,315* | 998 | 37.02 | 4,311 | 1,109 | 13.60 |
| Other field crops | 14,677 | 136 | 16.75 | 7,451 | 355 | 22.00 | d | d | na |
| Vegetable, fruit, or nuts | 4,781 | 124 | 29.48 | 11,189 | 304 | 41.92 | d | d | na |
| Nursery or greenhouse | 4,026* | 23 | 37.34 | 9,077* | 197 | 83.08 | d | d | na |
| Beef, hogs, or sheep | 120,524 | 167 | 7.27 | 66,606 | 247 | 18.24 | 52,332 | 210 | 6.54 |
| Poultry | 5,557* | 128 | 31.26 | 4,917 | 151 | 26.18 | 3,499* | 157 | 20.43 |
| Dairy | 9,814 | 326 | 10.36 | 2,528* | 517 | 31.71 | d | d | na |
| Other livestock | 10,879 | 153 | 31.36 | 5,271* | 101 | 16.45 | d | d | na |
| Operator characteristics: | | | | | | | | | |
| Occupation— | | | | | | | | | |
| Farming | 118,746 | 251 | 5.76 | 63,650 | 373 | 11.87 | 38,379 | 482 | 6.11 |
| Hired farm manager | d | d | na | d | d | na | d | d | na |
| Other occupation | 132,448 | 104 | 7.11 | 60,890 | 113 | 9.36 | 42,374 | 170 | 9.08 |
| Age— | | | | | | | | | |
| Less than 35 years | 24,171 | 162 | 15.05 | 10,274 | 245 | 21.78 | 5,558 | 489 | 16.84 |
| 35-44 years | 48,614 | 169 | 9.25 | 22,814 | 244 | 13.82 | 16,758 | 388 | 12.88 |
| 45-54 years | 46,088 | 238 | 9.24 | 28,331 | 305 | 32.50 | 18,102 | 404 | 10.81 |
| 55-64 years | 72,659 | 165 | 9.59 | 26,847 | 323 | 18.92 | 21,243 | 267 | 9.22 |
| 65 years or older | 60,851 | 144 | 8.95 | 37,333 | 265 | 22.91 | 19,811 | 219 | 10.95 |
| Education— | | | | | | | | | |
| Less than high school | 101,532 | 115 | 6.14 | 35,347 | 155 | 17.76 | 20,588 | 194 | 10.76 |
| High school | 93,118 | 206 | 7.82 | 46,416 | 201 | 10.53 | 34,325 | 284 | 8.12 |
| Some college | 30,270 | 220 | 12.08 | 21,122 | 292 | 14.33 | 13,108 | 442 | 10.87 |
| College | 27,464 | 230 | 9.91 | 22,710 | 630 | 24.05 | 13,450 | 521 | 12.26 |

See footnotes at end of table.

Continued—

Appendix table 2—Mean acres operated, by production specialty, selected operator characteristics, and region, 1990—Continued

| Item | Southern Plains | | | Mountain | | | Pacific | | |
|---------------------------|-----------------|--------------|--------------------------|----------------|--------------|--------------------------|----------------|--------------|--------------------------|
| | Expanded count | Mean acres | RSE of mean ¹ | Expanded count | Mean acres | RSE of mean ¹ | Expanded count | Mean acres | RSE of mean ¹ |
| | <i>Farms</i> | <i>Acres</i> | <i>Percent</i> | <i>Farms</i> | <i>Acres</i> | <i>Percent</i> | <i>Farms</i> | <i>Acres</i> | <i>Percent</i> |
| Production specialty: | | | | | | | | | |
| Cash grain | 10,542 | 801 | 11.45 | 13,711 | 1,446 | 10.40 | 5,614 | 1,891 | 36.11 |
| Tobacco | 0 | 0 | na | 0 | 0 | na | 0 | 0 | na |
| Cotton | 9,608 | 1,012 | 11.38 | 935 | 868 | 16.32 | d | d | na |
| Other field crops | 13,748 | 250 | 24.22 | 22,488 | 852 | 60.49 | 13,178 | 336 | 21.86 |
| Vegetable, fruit, or nuts | d | d | na | 3,320 | 203 | 30.70 | 44,739 | 99 | 26.06 |
| Nursery or greenhouse | d | d | na | d | d | na | 5,596 | 36 | 36.01 |
| Beef, hogs, or sheep | 170,516 | 558 | 9.92 | 54,855 | 5,196 | 10.28 | 47,653 | 1,997 | 20.50 |
| Poultry | d | d | na | d | d | na | d | d | na |
| Dairy | 2,777 | 509 | 17.65 | 2,855 | 568 | 52.72 | 4,298 | 286 | 13.48 |
| Other livestock | 13,250* | 405 | 58.85 | 5,279* | 541 | 47.46 | 19,637* | 199 | 61.46 |
| Operator characteristics: | | | | | | | | | |
| Occupation— | | | | | | | | | |
| Farming | 108,413 | 875 | 8.58 | 60,959 | 4,527 | 9.74 | 61,398 | 1,717 | 17.72 |
| Hired farm manager | d | d | na | 961 | 29,527 | 26.94 | 3,399 | 936 | 31.28 |
| Other occupation | 119,387 | 189 | 13.01 | 43,037 | 788 | 30.61 | 77,863 | 151 | 34.15 |
| Age— | | | | | | | | | |
| Less than 35 years | 18,131 | 484 | 34.07 | 12,520 | 2,878 | 33.07 | 16,300* | 302 | 36.93 |
| 35-44 years | 39,494 | 626 | 24.36 | 22,480 | 2,928 | 22.84 | 33,515 | 730 | 29.31 |
| 45-54 years | 44,449 | 737 | 15.54 | 27,968 | 3,363 | 19.17 | 33,010 | 922 | 29.33 |
| 55-64 years | 59,783 | 536 | 13.41 | 20,762 | 3,514 | 12.36 | 32,874 | 709 | 24.27 |
| 65 years or older | 66,903 | 388 | 11.23 | 21,309 | 3,259 | 16.36 | 26,960 | 1,382 | 38.56 |
| Education— | | | | | | | | | |
| Less than high school | 52,741 | 320 | 16.18 | 18,659* | 2,843 | 22.49 | 15,596 | 704 | 42.96 |
| High school | 77,558 | 465 | 11.49 | 41,443 | 2,168 | 12.02 | 40,711 | 1,201 | 30.69 |
| Some college | 48,909 | 578 | 15.72 | 25,284 | 2,637 | 14.72 | 49,097 | 683 | 28.10 |
| College | 49,551 | 868 | 18.07 | 19,571 | 6,578 | 16.93 | 37,256 | 724 | 29.77 |

*=The relative standard error for the estimated number of farms reporting exceeds 25 percent.

d=Data insufficient for disclosure.

na=Not applicable.

¹The relative standard error (RSE) provides the means of evaluating the survey results. A smaller RSE indicates greater reliability of the estimate.

Appendix table 3—Mean sales, by organization, tenancy, acreage, sales, solvency, and region, 1990

| Item | Northeast | | | Lake States | | | Corn Belt | | | Northern Plains | | |
|---------------------------------|----------------|----------------|--------------------------|----------------|----------------|--------------------------|----------------|----------------|--------------------------|-----------------|----------------|--------------------------|
| | Expanded count | Mean sales | RSE of mean ¹ | Expanded count | Mean sales | RSE of mean ¹ | Expanded count | Mean sales | RSE of mean ¹ | Expanded count | Mean sales | RSE of mean ¹ |
| | <i>Farms</i> | <i>Dollars</i> | <i>Percent</i> | <i>Farms</i> | <i>Dollars</i> | <i>Percent</i> | <i>Farms</i> | <i>Dollars</i> | <i>Percent</i> | <i>Farms</i> | <i>Dollars</i> | <i>Percent</i> |
| All farms | 119,990 | 64,900 | 9.20 | 195,870 | 73,375 | 5.49 | 350,803 | 60,713 | 4.41 | 149,551 | 105,757 | 8.43 |
| Organization: | | | | | | | | | | | | |
| Corporate | 2,662* | 462,002 | 38.82 | 5,837 | 264,496 | 26.46 | 8,051 | 249,954 | 20.23 | 4,465 | 787,392 | 33.92 |
| Partnership | 11,000 | 128,091 | 17.80 | 14,026 | 175,227 | 13.72 | 18,882 | 141,080 | 15.20 | 6,165 | 262,729 | 18.97 |
| Individual | 106,305 | 44,840 | 7.70 | 175,976 | 58,814 | 5.64 | 323,858 | 51,324 | 4.78 | 138,906 | 76,489 | 5.14 |
| Tenancy: | | | | | | | | | | | | |
| Full tenant | 8,053 | 139,540 | 36.80 | 13,990 | 88,792 | 29.17 | 38,266 | 77,312 | 8.80 | 23,310 | 81,996 | 17.86 |
| Part tenant | 44,318 | 109,540 | 11.04 | 82,048 | 112,119 | 5.90 | 133,483 | 103,680 | 5.48 | 76,621 | 139,938 | 9.58 |
| Full owner | 67,619 | 26,753 | 14.27 | 99,831 | 39,372 | 9.30 | 179,054 | 25,135 | 8.38 | 49,619 | 64,137 | 23.64 |
| Acreage class: | | | | | | | | | | | | |
| 2,000 or more acres | d | d | na | d | d | na | 2,503 | 452,443 | 17.22 | 20,884 | 278,129 | 17.53 |
| 1,000-1,999 acres | 2,051* | 391,336 | 23.97 | 8,814 | 207,303 | 14.99 | 15,955 | 232,191 | 8.02 | 25,214 | 170,525 | 18.42 |
| 500-999 acres | 5,236 | 309,996 | 28.34 | 24,167 | 165,115 | 11.67 | 48,263 | 146,711 | 4.83 | 34,209 | 82,844 | 6.49 |
| 180-499 acres | 35,140 | 78,887 | 8.86 | 61,427 | 86,163 | 6.00 | 98,989 | 60,623 | 5.88 | 36,741 | 54,601 | 13.68 |
| 100-179 acres | 21,784 | 29,316 | 15.84 | 42,993 | 31,922 | 12.06 | 56,801 | 29,616 | 25.70 | 12,281 | 29,053 | 28.86 |
| 50-99 acres | 20,568 | 39,214 | 24.67 | 23,948 | 19,237 | 24.79 | 48,658 | 11,281 | 9.39 | 6,881* | 12,791 | 28.89 |
| 1-49 acres | 35,022 | 18,275 | 28.89 | 33,575 | 22,840 | 22.62 | 79,634 | 14,420 | 19.18 | 13,341 | 31,710 | 30.64 |
| Sales class: | | | | | | | | | | | | |
| \$500,000 or more | 2,686 | 1,011,737 | 18.85 | 4,424 | 632,987 | 16.83 | 5,559 | 687,491 | 7.65 | 3,884 | 1,404,352 | 21.24 |
| \$250,000-\$499,999 | 4,740 | 320,836 | 2.99 | 9,196 | 299,045 | 3.48 | 17,816 | 278,036 | 2.18 | 10,283 | 292,774 | 2.85 |
| \$100,000-\$249,999 | 14,803 | 141,438 | 3.09 | 37,694 | 139,727 | 2.42 | 56,183 | 130,062 | 2.32 | 31,569 | 133,132 | 1.94 |
| \$40,000-\$99,999 | 17,120 | 57,529 | 5.35 | 39,488 | 65,478 | 2.47 | 56,825 | 56,090 | 2.91 | 42,178 | 56,698 | 3.41 |
| \$20,000-\$39,999 | 8,426 | 24,429 | 9.70 | 24,202 | 24,264 | 4.44 | 39,706 | 24,679 | 3.98 | 19,721 | 24,271 | 3.27 |
| \$10,000-\$19,999 | 10,954 | 11,747 | 5.69 | 20,918 | 11,288 | 5.98 | 45,975 | 13,541 | 2.53 | 14,434 | 12,323 | 5.34 |
| \$9,999 or less | 61,261 | 2,222 | 8.38 | 59,948 | 2,432 | 10.91 | 128,739 | 3,311 | 5.58 | 27,483 | 3,655 | 9.43 |
| Net farm income solvency class: | | | | | | | | | | | | |
| Favorable | 59,637 | 84,569 | 10.36 | 107,248 | 80,956 | 6.25 | 212,600 | 66,875 | 5.73 | 86,895 | 111,776 | 10.83 |
| Marginal income | 45,216 | 26,498 | 16.41 | 56,086 | 36,976 | 15.32 | 96,193 | 31,296 | 9.47 | 30,488 | 52,898 | 16.09 |
| Marginal solvency | 7,344 | 191,244 | 30.64 | 18,901 | 148,207 | 14.19 | 22,175 | 136,291 | 8.22 | 19,283 | 178,966 | 21.56 |
| Vulnerable | 7,793 | 18,131 | 31.26 | 13,635 | 59,739 | 21.27 | 19,834 | 52,842 | 16.63 | 12,886 | 80,678 | 17.67 |

See footnotes at end of table.

Continued—

Appendix table 3—Mean sales, by organization, tenancy, acreage, sales, solvency, and region, 1990—Continued

| Item | Appalachian | | | Southeast | | | Delta | | |
|---------------------------------|----------------|----------------|--------------------------|----------------|----------------|--------------------------|----------------|----------------|--------------------------|
| | Expanded count | Mean sales | RSE of mean ¹ | Expanded count | Mean sales | RSE of mean ¹ | Expanded count | Mean sales | RSE of mean ¹ |
| | <i>Farms</i> | <i>Dollars</i> | <i>Percent</i> | <i>Farms</i> | <i>Dollars</i> | <i>Percent</i> | <i>Farms</i> | <i>Dollars</i> | <i>Percent</i> |
| All farms | 252,383 | 27,611 | 6.95 | 125,600 | 57,107 | 10.87 | 81,471 | 53,027 | 8.35 |
| Organization: | | | | | | | | | |
| Corporate | 1,932* | 422,952 | 42.96 | 3,398 | 702,991 | 22.52 | 2,688* | 273,785 | 31.93 |
| Partnership | 12,522 | 81,747 | 16.16 | 6,181 | 145,386 | 21.57 | 3,216 | 295,195 | 18.09 |
| Individual | 237,831 | 21,554 | 6.70 | 116,020 | 33,485 | 12.17 | 75,568 | 34,871 | 9.21 |
| Tenancy: | | | | | | | | | |
| Full tenant | 15,466 | 30,566 | 19.18 | 5,540 | 134,709 | 30.02 | 7,841 | 166,561 | 15.66 |
| Part tenant | 92,198 | 51,360 | 8.64 | 37,013 | 94,720 | 15.46 | 29,007 | 72,523 | 11.36 |
| Full owner | 144,718 | 12,165 | 11.95 | 83,047 | 35,167 | 15.95 | 44,623 | 20,404 | 18.15 |
| Acreage class: | | | | | | | | | |
| 2,000 or more acres | 1,034 | 402,827 | 14.66 | 3,249* | 589,612 | 30.65 | 1,799 | 762,830 | 12.14 |
| 1,000-1,999 acres | 5,524 | 188,582 | 14.82 | 3,630 | 283,446 | 24.39 | 3,953 | 301,103 | 11.52 |
| 500-999 acres | 12,069 | 114,078 | 11.69 | 6,662 | 128,879 | 20.92 | 7,685 | 99,961 | 11.04 |
| 180-499 acres | 46,066 | 42,207 | 9.78 | 19,591 | 65,245 | 15.84 | 18,872 | 29,237 | 9.94 |
| 100-179 acres | 52,156 | 24,189 | 24.48 | 19,345 | 11,206 | 20.50 | 16,827 | 12,148 | 12.86 |
| 50-99 acres | 49,002 | 9,726 | 17.67 | 27,346 | 19,194 | 39.52 | 13,617 | 8,951 | 45.21 |
| 1-49 acres | 86,531 | 5,211 | 12.63 | 45,775 | 29,478 | 22.88 | 18,718 | 5,943 | 37.15 |
| Sales class: | | | | | | | | | |
| \$500,000 or more | 2,031 | 797,983 | 15.34 | 3,054 | 1,207,489 | 16.34 | 3,149 | 588,233 | 22.00 |
| \$250,000-\$499,999 | 4,087 | 298,425 | 3.52 | 5,099* | 304,064 | 2.95 | 3,913 | 216,768 | 18.39 |
| \$100,000-\$249,999 | 10,978 | 138,793 | 5.43 | 5,746 | 149,235 | 4.38 | 5,356 | 138,102 | 4.10 |
| \$40,000-\$99,999 | 21,187 | 53,153 | 6.06 | 10,439 | 47,842 | 10.56 | 7,473 | 56,042 | 7.18 |
| \$20,000-\$39,999 | 23,937 | 24,343 | 5.13 | 9,458 | 20,785 | 7.89 | 8,551 | 24,824 | 5.07 |
| \$10,000-\$19,999 | 36,036 | 12,384 | 3.26 | 14,455 | 11,703 | 4.95 | 9,699 | 11,599 | 5.72 |
| \$9,999 or less | 154,127 | 2,917 | 5.06 | 77,349 | 2,734 | 7.10 | 43,329 | 3,145 | 6.48 |
| Net farm income solvency class: | | | | | | | | | |
| Favorable | 164,888 | 29,564 | 7.13 | 66,171 | 64,015 | 15.65 | 44,161 | 57,680 | 11.45 |
| Marginal income | 66,318 | 14,504 | 16.72 | 45,367 | 33,236 | 16.94 | 24,843 | 22,367 | 11.94 |
| Marginal solvency | 9,156 | 95,979 | 30.47 | 4,874 | 195,179 | 23.54 | 6,454 | 127,547 | 23.32 |
| Vulnerable | 12,021 | 21,063 | 43.77 | 9,188 | 51,982 | 30.76 | 6,013 | 65,545 | 26.59 |

See footnotes at end of table.

Continued—

Appendix table 3—Mean sales, by organization, tenancy, acreage, sales, solvency, and region, 1990—Continued

| Item | Southern Plains | | | Mountain | | | Pacific | | |
|---------------------------------|-----------------|----------------|--------------------------|----------------|----------------|--------------------------|----------------|----------------|--------------------------|
| | Expanded count | Mean sales | RSE of mean ¹ | Expanded count | Mean sales | RSE of mean ¹ | Expanded count | Mean sales | RSE of mean ¹ |
| | <i>Farms</i> | <i>Dollars</i> | <i>Percent</i> | <i>Farms</i> | <i>Dollars</i> | <i>Percent</i> | <i>Farms</i> | <i>Dollars</i> | <i>Percent</i> |
| All farms | 228,760 | 36,185 | 9.31 | 105,039 | 87,278 | 8.73 | 142,660 | 108,901 | 13.56 |
| Organization: | | | | | | | | | |
| Corporate | 2,736* | 293,064 | 33.03 | 5,519 | 424,486 | 15.27 | 7,550 | 723,126 | 23.34 |
| Partnership | 10,548 | 91,243 | 26.25 | 12,168* | 142,172 | 34.06 | 16,205* | 185,911 | 37.56 |
| Individual | 215,448 | 30,232 | 10.58 | 87,333 | 58,291 | 10.76 | 118,905 | 59,405 | 16.01 |
| Tenancy: | | | | | | | | | |
| Full tenant | 17,490 | 70,120 | 17.88 | 9,085 | 152,908 | 16.38 | 13,062 | 261,210 | 25.07 |
| Part tenant | 81,221 | 66,234 | 11.88 | 36,408 | 107,861 | 13.08 | 33,406 | 178,948 | 23.20 |
| Full owner | 130,049 | 12,854 | 15.13 | 59,546 | 64,679 | 15.33 | 96,192 | 63,893 | 20.42 |
| Acreage class: | | | | | | | | | |
| 2,000 or more acres | 11,025 | 262,948 | 14.90 | 20,792 | 174,679 | 5.40 | 6,353 | 469,806 | 22.99 |
| 1,000-1,999 acres | 13,199 | 129,513 | 12.88 | 13,655* | 84,797 | 28.61 | 4,431 | 362,165 | 28.56 |
| 500-999 acres | 20,953 | 68,739 | 11.81 | 6,968 | 211,051 | 21.17 | 5,573 | 311,833 | 20.97 |
| 180-499 acres | 50,956 | 31,643 | 17.80 | 13,060 | 79,994 | 16.05 | 11,611 | 324,739 | 25.41 |
| 100-179 acres | 29,251 | 8,197 | 11.83 | 5,555 | 120,959 | 53.39 | 7,224 | 228,404 | 38.22 |
| 50-99 acres | 31,358 | 5,032 | 15.23 | 8,725 | 22,172 | 26.80 | 16,743 | 83,727 | 30.85 |
| 1-49 acres | 72,017 | 3,042 | 26.77 | 36,284 | 27,476 | 34.53 | 90,726 | 26,301 | 21.92 |
| Sales class: | | | | | | | | | |
| \$500,000 or more | 3,185 | 848,077 | 11.77 | 3,403 | 1,204,823 | 11.09 | 7,546 | 1,440,601 | 12.29 |
| \$250,000-\$499,999 | 5,748 | 306,969 | 3.20 | 5,875 | 310,107 | 4.77 | 6,311 | 296,897 | 4.32 |
| \$100,000-\$249,999 | 10,577 | 136,963 | 3.85 | 13,196 | 147,539 | 3.12 | 11,742 | 133,471 | 5.76 |
| \$40,000-\$99,999 | 20,210 | 55,389 | 5.07 | 13,948 | 55,969 | 2.41 | 12,168 | 54,473 | 5.01 |
| \$20,000-\$39,999 | 18,671 | 25,047 | 5.94 | 9,352 | 25,967 | 5.08 | 11,144 | 22,290 | 8.68 |
| \$10,000-\$19,999 | 32,146 | 12,353 | 2.83 | 10,837 | 12,860 | 6.56 | 12,661* | 10,802 | 16.25 |
| \$9,999 or less | 138,222 | 2,743 | 6.64 | 48,428 | 2,805 | 12.31 | 81,088 | 2,173 | 6.93 |
| Net farm income solvency class: | | | | | | | | | |
| Favorable | 107,072 | 46,487 | 12.66 | 51,983 | 111,392 | 13.45 | 66,477 | 150,761 | 16.58 |
| Marginal income | 94,781 | 12,783 | 12.36 | 34,035 | 42,301 | 13.45 | 57,740 | 33,023 | 16.53 |
| Marginal solvency | 9,141 | 171,924 | 24.70 | 9,082 | 135,228 | 19.07 | 4,489 | 561,378 | 28.49 |
| Vulnerable | 17,766 | 29,107 | 19.31 | 9,939 | 71,355 | 27.77 | 13,953 | 77,869 | 42.67 |

*=The relative standard error for the estimated number of farms reporting exceeds 25 percent.

d=Data insufficient for disclosure.

na=Not applicable.

¹The relative standard error (RSE) provides the means of evaluating the survey results. A smaller RSE indicates greater reliability of the estimate.

Appendix table 4—Mean sales, by production specialty, selected operator characteristics, and region, 1990

| Item | Northeast | | | Lake States | | | Corn Belt | | | Northern Plains | | |
|---------------------------|--------------|----------------|-------------------|--------------|----------------|-------------------|--------------|----------------|-------------------|-----------------|----------------|-------------------|
| | Expanded | Mean | RSE of | Expanded | Mean | RSE of | Expanded | Mean | RSE of | Expanded | Mean | RSE of |
| | count | sales | mean ¹ | count | sales | mean ¹ | count | sales | mean ¹ | count | sales | mean ¹ |
| | <i>Farms</i> | <i>Dollars</i> | <i>Percent</i> | <i>Farms</i> | <i>Dollars</i> | <i>Percent</i> | <i>Farms</i> | <i>Dollars</i> | <i>Percent</i> | <i>Farms</i> | <i>Dollars</i> | <i>Percent</i> |
| Production specialty: | | | | | | | | | | | | |
| Cash grain | 12,980 | 34,048 | 18.57 | 50,294 | 59,276 | 9.53 | 134,228 | 70,028 | 5.05 | 67,549 | 74,043 | 5.53 |
| Tobacco | d | d | na | d | d | na | d | d | na | 0 | 0 | na |
| Cotton | d | d | na | d | d | na | d | d | na | 0 | 0 | na |
| Other field crops | 13,579 | 21,727 | 33.78 | 15,155 | 33,317 | 22.98 | 15,337 | 11,610 | 29.57 | d | d | na |
| Vegetable, fruit, or nuts | 10,666 | 52,233 | 25.02 | 9,548 | 69,600 | 51.57 | 5,074* | 38,655 | 41.73 | d | d | na |
| Nursery or greenhouse | 6,053 | 169,629 | 39.24 | 2,003* | 227,928 | 35.72 | 5,321* | 204,900 | 51.92 | d | d | na |
| Beef, hogs, or sheep | 35,508 | 11,940 | 29.51 | 40,250 | 58,831 | 16.43 | 150,726 | 51,110 | 6.89 | 65,560 | 144,433 | 13.59 |
| Poultry | d | d | na | d | d | na | 2,066 | 24,255 | 64.68 | d | d | na |
| Dairy | 28,350 | 152,238 | 6.35 | 59,536 | 113,962 | 5.95 | 21,360 | 108,617 | 9.47 | 5,578 | 118,097 | 12.94 |
| Other livestock | 8,427 | 12,829 | 48.30 | 14,739 | 25,102 | 32.44 | 8,756* | 28,399 | 38.68 | 3,754* | 65,395 | 38.17 |
| Operator characteristics: | | | | | | | | | | | | |
| Occupation— | | | | | | | | | | | | |
| Farming | 68,247 | 94,235 | 6.18 | 130,876 | 102,356 | 5.29 | 205,905 | 91,782 | 4.30 | 118,080 | 119,197 | 7.84 |
| Hired farm manager | d | d | na | d | d | na | d | d | na | d | d | na |
| Other occupation | 50,908 | 8,037 | 20.03 | 64,373 | 12,931 | 15.11 | 143,311 | 13,944 | 8.29 | 30,893 | 16,127 | 10.50 |
| Age— | | | | | | | | | | | | |
| Less than 35 years old | 15,795 | 59,224 | 16.36 | 32,019 | 86,496 | 13.65 | 47,918 | 69,823 | 9.09 | 22,791 | 82,851 | 11.59 |
| 35-44 years old | 25,503 | 88,492 | 21.93 | 45,268 | 79,638 | 8.41 | 75,699 | 83,847 | 10.07 | 33,218 | 141,263 | 17.49 |
| 45-54 years old | 28,257 | 72,865 | 19.97 | 50,234 | 78,520 | 13.24 | 78,647 | 68,263 | 8.81 | 25,692 | 123,758 | 10.43 |
| 55-64 years old | 27,578 | 57,400 | 14.42 | 40,231 | 76,324 | 10.49 | 76,934 | 52,507 | 8.15 | 32,539 | 123,424 | 22.76 |
| 65 years old or older | 22,857 | 41,700 | 17.75 | 28,118 | 34,941 | 19.37 | 71,606 | 30,686 | 11.08 | 35,311 | 57,761 | 18.29 |
| Education— | | | | | | | | | | | | |
| Less than high school | 31,683 | 55,995 | 13.06 | 43,392 | 51,947 | 10.73 | 72,439 | 25,780 | 10.79 | 28,769 | 70,268 | 13.03 |
| High school | 52,391 | 57,256 | 9.48 | 92,885 | 82,682 | 7.80 | 170,126 | 64,474 | 5.93 | 59,672 | 89,890 | 7.50 |
| Some college | 13,025 | 79,090 | 18.05 | 36,543 | 83,074 | 13.78 | 60,396 | 74,738 | 11.78 | 33,548 | 139,193 | 17.30 |
| College | 22,890 | 86,647 | 29.76 | 23,050 | 60,834 | 16.16 | 47,842 | 82,528 | 9.98 | 27,561 | 136,455 | 26.22 |

See footnotes at end of table.

Continued—

Appendix table 4—Mean sales, by production specialty, selected operator characteristics, and region, 1990—Continued

| Item | Appalachian | | | Southeast | | | Delta | | |
|---------------------------|----------------|----------------|--------------------------|----------------|----------------|--------------------------|----------------|----------------|--------------------------|
| | Expanded count | Mean sales | RSE of mean ¹ | Expanded count | Mean sales | RSE of mean ¹ | Expanded count | Mean sales | RSE of mean ¹ |
| | <i>Farms</i> | <i>Dollars</i> | <i>Percent</i> | <i>Farms</i> | <i>Dollars</i> | <i>Percent</i> | <i>Farms</i> | <i>Dollars</i> | <i>Percent</i> |
| Production specialty: | | | | | | | | | |
| Cash grain | 17,583 | 53,813 | 15.13 | 11,591 | 24,757 | 25.50 | 13,420 | 99,844 | 10.54 |
| Tobacco | 63,492 | 25,982 | 9.90 | 3,654 | 113,918 | 17.02 | 0 | 0 | na |
| Cotton | d | d | na | 3,315* | 183,849 | 44.87 | 4,311 | 317,085 | 15.34 |
| Other field crops | 14,677 | 16,256 | 31.04 | 7,451 | 46,993 | 20.43 | d | d | na |
| Vegetable, fruit, or nuts | 4,781 | 50,487 | 38.77 | 11,189 | 127,011 | 29.30 | d | d | na |
| Nursery or greenhouse | 4,026* | 87,682 | 70.59 | 9,077* | 119,505 | 37.24 | d | d | na |
| Beef, hogs, or sheep | 120,524 | 14,561 | 12.90 | 66,606 | 17,128 | 14.35 | 52,332 | 16,129 | 17.37 |
| Poultry | 5,557* | 39,854 | 72.98 | 4,917 | 80,505 | 21.42 | 3,499* | 17,956 | 30.23 |
| Dairy | 9,814 | 124,496 | 10.27 | 2,528* | 547,437 | 37.11 | d | d | na |
| Other livestock | 10,879 | 22,410 | 38.06 | 5,271* | 15,762 | 42.92 | d | d | na |
| Operator characteristics: | | | | | | | | | |
| Occupation— | | | | | | | | | |
| Farming | 118,746 | 50,624 | 7.97 | 63,650 | 89,817 | 11.55 | 38,379 | 94,698 | 9.19 |
| Hired farm manager | d | d | na | d | d | na | 718 | 423,288 | 51.94 |
| Other occupation | 132,448 | 6,808 | 9.34 | 60,890 | 11,635 | 23.02 | 42,374 | 9,008 | 10.91 |
| Age— | | | | | | | | | |
| Less than 35 years old | 24,171 | 33,943 | 19.24 | 10,274 | 52,020 | 21.00 | 5,558 | 71,006 | 18.70 |
| 35-44 years old | 48,614 | 33,181 | 12.87 | 22,814 | 59,066 | 18.38 | 16,758 | 83,572 | 17.84 |
| 45-54 years old | 46,088 | 34,725 | 12.30 | 28,331 | 93,792 | 19.62 | 18,102 | 75,404 | 16.67 |
| 55-64 years old | 72,659 | 23,928 | 10.88 | 26,847 | 56,305 | 20.42 | 21,243 | 33,391 | 14.34 |
| 65 years old or older | 60,851 | 19,655 | 24.86 | 37,333 | 30,048 | 35.84 | 19,811 | 22,757 | 24.79 |
| Education— | | | | | | | | | |
| Less than high school | 101,532 | 15,184 | 11.66 | 35,347 | 22,372 | 18.04 | 20,588 | 22,109 | 22.52 |
| High school | 93,118 | 29,678 | 10.87 | 46,416 | 35,562 | 14.94 | 34,325 | 41,787 | 13.52 |
| Some college | 30,270 | 39,300 | 13.99 | 21,122 | 89,234 | 23.62 | 13,108 | 75,182 | 12.68 |
| College | 27,464 | 53,663 | 19.89 | 22,710 | 119,038 | 20.56 | 13,450 | 107,450 | 18.78 |

See footnotes at end of table.

Continued—

Appendix table 4—Mean sales, by production specialty, selected operator characteristics, and region, 1990—Continued

| Item | Southern Plains | | | Mountain | | | Pacific | | |
|---------------------------|-----------------|----------------|--------------------------|----------------|----------------|--------------------------|----------------|----------------|--------------------------|
| | Expanded count | Mean sales | RSE of mean ¹ | Expanded count | Mean sales | RSE of mean ¹ | Expanded count | Mean sales | RSE of mean ¹ |
| | <i>Farms</i> | <i>Dollars</i> | <i>Percent</i> | <i>Farms</i> | <i>Dollars</i> | <i>Percent</i> | <i>Farms</i> | <i>Dollars</i> | <i>Percent</i> |
| Production specialty: | | | | | | | | | |
| Cash grain | 10,542 | 73,387 | 15.13 | 13,711 | 87,921 | 11.07 | 5,614 | 131,043 | 14.55 |
| Tobacco | 0 | 0 | na | 0 | 0 | na | 0 | 0 | na |
| Cotton | 9,608 | 117,176 | 11.40 | 935 | 465,102 | 15.39 | d | d | na |
| Other field crops | 13,748 | 29,991 | 32.70 | 22,488 | 59,700 | 18.28 | 13,178 | 104,036 | 24.45 |
| Vegetable, fruit, or nuts | d | d | na | 3,320 | 84,321 | 30.92 | 44,739 | 115,135 | 28.05 |
| Nursery or greenhouse | d | d | na | d | d | na | 5,596 | 323,082 | 39.55 |
| Beef, hogs, or sheep | 170,516 | 26,642 | 13.26 | 54,855 | 63,689 | 11.15 | 47,653 | 45,537 | 38.79 |
| Poultry | d | d | na | d | d | na | d | d | na |
| Dairy | 2,777 | 369,995 | 20.54 | 2,855 | 498,593 | 29.82 | 4,298 | 815,691 | 12.43 |
| Other livestock | 13,250* | 10,740 | 44.13 | 5,279* | 46,776 | 73.32 | 19,637* | 7,649 | 29.67 |
| Operator characteristics: | | | | | | | | | |
| Occupation— | | | | | | | | | |
| Farming | 108,413 | 63,629 | 9.93 | 60,959 | 119,747 | 9.40 | 61,398 | 196,998 | 12.38 |
| Hired farm manager | 959 | 360,153 | 39.01 | 961 | 1,075,160 | 36.09 | 3,399 | 743,223 | 30.19 |
| Other occupation | 119,387 | 8,661 | 12.33 | 43,037 | 19,384 | 27.75 | 77,863 | 11,742 | 25.06 |
| Age— | | | | | | | | | |
| Less than 35 years old | 18,131 | 46,517 | 28.21 | 12,520 | 82,985 | 26.14 | 16,300* | 119,831 | 32.04 |
| 35-44 years old | 39,494 | 55,988 | 26.37 | 22,480 | 114,131 | 18.22 | 33,515 | 128,890 | 23.54 |
| 45-54 years old | 44,449 | 43,107 | 15.15 | 27,968 | 76,538 | 20.75 | 33,010 | 88,062 | 19.99 |
| 55-64 years old | 59,783 | 34,297 | 11.89 | 20,762 | 110,417 | 13.71 | 32,874 | 94,837 | 24.79 |
| 65 years old or older | 66,903 | 18,784 | 12.77 | 21,309 | 53,023 | 15.78 | 26,960 | 120,107 | 31.10 |
| Education— | | | | | | | | | |
| Less than high school | 52,741 | 21,634 | 17.36 | 18,659* | 37,881 | 24.97 | 15,596 | 87,774 | 36.84 |
| High school | 77,558 | 28,958 | 10.63 | 41,443 | 71,029 | 12.06 | 40,711 | 116,656 | 16.05 |
| Some college | 48,909 | 46,609 | 16.68 | 25,284 | 76,862 | 13.65 | 49,097 | 80,103 | 30.20 |
| College | 49,551 | 52,696 | 21.60 | 19,571 | 182,600 | 15.00 | 37,256 | 147,222 | 26.03 |

*=The relative standard error for the estimated number of farms reporting exceeds 25 percent.

d=Data insufficient for disclosure.

na=Not applicable.

¹The relative standard error (RSE) provides the means of evaluating the survey results. A smaller RSE indicates greater reliability of the estimate.

Appendix table 5—Mean acres operated, by tenancy, acreage, sales, solvency, and farm organization, 1990

| Item | Corporate | | | Partnership | | | Individual | | |
|---------------------------------|----------------|--------------|--------------------------|----------------|--------------|--------------------------|----------------|--------------|--------------------------|
| | Expanded count | Mean acres | RSE of mean ¹ | Expanded count | Mean acres | RSE of mean ¹ | Expanded count | Mean acres | RSE of mean ¹ |
| | <i>Farms</i> | <i>Acres</i> | <i>Percent</i> | <i>Farms</i> | <i>Acres</i> | <i>Percent</i> | <i>Farms</i> | <i>Acres</i> | <i>Percent</i> |
| All farms | 44,839 | 3,515 | 12.10 | 110,912 | 1,539 | 10.80 | 1,596,150 | 440 | 3.61 |
| Tenancy: | | | | | | | | | |
| Full tenant | 6,213 | 1,813 | 18.44 | 12,206 | 1,452 | 23.20 | 133,659 | 595 | 8.29 |
| Part tenant | 18,706 | 4,420 | 13.86 | 57,420 | 1,655 | 15.31 | 569,509 | 714 | 3.85 |
| Full owner | 19,920 | 3,195 | 24.50 | 41,286 | 1,403 | 19.57 | 892,982 | 242 | 8.26 |
| Acreage class: | | | | | | | | | |
| 2,000 or more acres | 8,029 | 17,130 | 12.23 | 11,112 | 11,456 | 10.87 | 49,577 | 6,701 | 6.26 |
| 1,000-1,999 acres | 7,370 | 1,502 | 4.18 | 15,576* | 1,406 | 1.49 | 73,482 | 1,354 | 1.08 |
| 500-999 acres | 7,405 | 717 | 3.12 | 15,858 | 691 | 2.09 | 148,524 | 690 | 0.72 |
| 180-499 acres | 8,871 | 334 | 5.59 | 22,717 | 328 | 3.25 | 360,793 | 298 | 0.88 |
| 100-179 acres | 2,612* | 148 | 3.41 | 14,284 | 138 | 2.47 | 247,293 | 134 | 0.66 |
| 50-99 acres | 2,490* | 71 | 5.57 | 10,085 | 71 | 6.16 | 234,272 | 73 | 0.83 |
| 1-49 acres | 8,061 | 17 | 10.76 | 21,281* | 19 | 16.77 | 482,209 | 21 | 2.78 |
| Sales class: | | | | | | | | | |
| \$500,000 or more | 11,082 | 8,131 | 18.64 | 9,409 | 5,038 | 18.56 | 18,334 | 2,057 | 10.10 |
| \$250,000-\$499,999 | 7,189 | 3,503 | 17.84 | 14,450 | 2,560 | 23.21 | 51,424 | 1,830 | 13.86 |
| \$100,000-\$249,999 | 8,540 | 3,381 | 16.31 | 19,720 | 1,917 | 14.46 | 169,570 | 1,107 | 4.76 |
| \$40,000-\$99,999 | 6,039 | 1,424 | 23.03 | 11,874 | 1,676 | 23.81 | 223,121 | 792 | 6.52 |
| \$20,000-\$39,999 | 3,625* | 670 | 30.64 | 10,149 | 1,240 | 42.35 | 159,382 | 406 | 6.14 |
| \$10,000-\$19,999 | d | d | na | 12,363* | 161 | 29.69 | 191,969 | 292 | 11.11 |
| \$9,999 or less | d | d | na | 32,947 | 425 | 41.14 | 782,350 | 109 | 12.71 |
| Net farm income solvency class: | | | | | | | | | |
| Favorable | 25,119 | 4,039 | 16.45 | 67,019 | 1,606 | 11.44 | 874,902 | 445 | 3.88 |
| Marginal income | 13,659 | 2,779 | 22.31 | 29,330 | 1,386 | 26.09 | 507,988 | 376 | 8.96 |
| Marginal solvency | 3,574 | 1,917 | 34.14 | 6,952 | 2,390 | 27.88 | 100,344 | 651 | 6.74 |
| Vulnerable | 2,486 | 4,557 | 41.06 | 7,610* | 761 | 47.87 | 112,916 | 498 | 16.94 |

*=The relative standard error for the estimated number of farms reporting exceeds 25 percent.

d=Data insufficient for disclosure.

na=Not applicable.

¹The relative standard error (RSE) provides the means of evaluating the survey results. A smaller RSE indicates greater reliability of the estimate.

Appendix table 6—Mean acres operated, by production specialty, selected operator characteristics, and farm organization, 1990

| Item | Corporate | | | Partnership | | | Individual | | |
|---------------------------|----------------|--------------|--------------------------|----------------|--------------|--------------------------|----------------|--------------|--------------------------|
| | Expanded count | Mean acres | RSE of mean ¹ | Expanded count | Mean acres | RSE of mean ¹ | Expanded count | Mean acres | RSE of mean ¹ |
| | <i>Farms</i> | <i>Acres</i> | <i>Percent</i> | <i>Farms</i> | <i>Acres</i> | <i>Percent</i> | <i>Farms</i> | <i>Acres</i> | <i>Percent</i> |
| Production specialty: | | | | | | | | | |
| Cash grain | 9,018 | 1,435 | 8.27 | 18,068 | 1,250 | 11.81 | 310,413 | 509 | 3.87 |
| Tobacco | d | d | na | d | d | na | 72,350 | 132 | 8.50 |
| Cotton | d | d | na | 2,058 | 1,857 | 11.24 | 18,686 | 760 | 12.08 |
| Other field crops | 2,560 | 1,187 | 21.33 | 4,932 | 553 | 23.25 | 115,603 | 333 | 30.39 |
| Vegetable, fruit, or nuts | 5,600 | 801 | 33.64 | 8,686 | 248 | 25.65 | 78,476 | 77 | 13.93 |
| Nursery or greenhouse | 3,200 | 95 | 38.92 | d | d | na | 30,027 | 86 | 58.06 |
| Beef, hogs, or sheep | 15,268 | 8,242 | 17.46 | 45,753 | 2,771 | 15.50 | 743,359 | 553 | 4.68 |
| Poultry | d | d | na | d | d | na | 27,720 | 383 | 76.38 |
| Dairy | 3,850 | 760 | 11.06 | 16,135 | 559 | 7.77 | 118,749 | 299 | 5.04 |
| Other livestock | d | d | na | d | d | na | 80,768 | 191 | 18.06 |
| Operator characteristics: | | | | | | | | | |
| Occupation— | | | | | | | | | |
| Farming | 30,754 | 3,868 | 14.59 | 72,877 | 2,004 | 10.98 | 870,994 | 670 | 3.77 |
| Hired farm manager | 5,465 | 6,168 | 25.10 | d | d | na | 4,774 | 845 | 27.32 |
| Other occupation | 8,620 | 570 | 25.56 | 36,627 | 438 | 27.88 | 720,205 | 159 | 9.07 |
| Age— | | | | | | | | | |
| Less than 35 years old | 6,684 | 1,545 | 41.88 | 20,973 | 1,506 | 32.49 | 177,780 | 356 | 7.33 |
| 35-44 years old | 9,560 | 3,155 | 19.44 | 27,977 | 1,408 | 21.34 | 325,814 | 468 | 9.65 |
| 45-54 years old | 11,882 | 3,355 | 23.04 | 27,313 | 1,515 | 20.58 | 341,532 | 520 | 7.55 |
| 55-64 years old | 9,918 | 4,003 | 18.18 | 18,073 | 1,547 | 17.25 | 383,406 | 433 | 5.24 |
| 65 years old or older | 6,795 | 5,524 | 35.49 | 16,575 | 1,832 | 20.38 | 367,619 | 387 | 8.26 |
| Education— | | | | | | | | | |
| Less than high school | 4,123 | 3,307 | 31.64 | 18,898* | 1,225 | 20.10 | 397,726 | 304 | 9.28 |
| High school | 16,728 | 3,310 | 26.97 | 41,028 | 973 | 11.14 | 650,841 | 417 | 4.16 |
| Some college | 9,404 | 2,308 | 17.60 | 26,821 | 1,680 | 28.22 | 295,032 | 522 | 6.56 |
| College | 14,584 | 4,586 | 16.50 | 24,166 | 2,588 | 21.19 | 252,464 | 616 | 11.25 |

*=The relative standard error for the estimated number of farms reporting exceeds 25 percent.

d=Data insufficient for disclosure.

na=Not applicable.

¹The relative standard error (RSE) provides the means of evaluating the survey results. A smaller relative standard error indicates greater reliability of the estimate.

Appendix table 7—Mean sales, by tenancy, acreage, sales, solvency, and farm organization, 1990

| Item | Corporate | | | Partnership | | | Individual | | |
|---------------------------------|----------------|----------------|--------------------------|----------------|----------------|--------------------------|----------------|----------------|--------------------------|
| | Expanded count | Mean sales | RSE of mean ¹ | Expanded count | Mean sales | RSE of mean ¹ | Expanded count | Mean sales | RSE of mean ¹ |
| | <i>Farms</i> | <i>Dollars</i> | <i>Percent</i> | <i>Farms</i> | <i>Dollars</i> | <i>Percent</i> | <i>Farms</i> | <i>Dollars</i> | <i>Percent</i> |
| All farms | 44,839 | 464,963 | 10.31 | 110,912 | 150,811 | 8.51 | 1,596,150 | 45,533 | 2.70 |
| Tenancy: | | | | | | | | | |
| Full tenant | 6,213 | 668,540 | 16.75 | 12,206 | 225,851 | 18.52 | 133,659 | 66,424 | 7.29 |
| Part tenant | 18,706 | 490,667 | 15.00 | 57,420 | 169,819 | 13.70 | 569,509 | 78,806 | 3.17 |
| Full owner | 19,920 | 377,333 | 18.76 | 41,286 | 102,190 | 13.26 | 892,982 | 21,185 | 5.04 |
| Acreage class: | | | | | | | | | |
| 2,000 or more acres | 8,029 | 929,816 | 15.71 | 11,112 | 377,691 | 8.41 | 49,577 | 186,595 | 7.27 |
| 1,000-1,999 acres | 7,370 | 412,906 | 27.92 | 15,576* | 255,142 | 28.69 | 73,482 | 154,463 | 5.75 |
| 500-999 acres | 7,405 | 520,594 | 16.88 | 15,858 | 226,004 | 8.81 | 148,524 | 105,989 | 3.34 |
| 180-499 acres | 8,871 | 263,413 | 35.79 | 22,717 | 123,688 | 12.83 | 360,793 | 58,477 | 4.10 |
| 100-179 acres | 2,612* | 434,984 | 52.34 | 14,284 | 40,581 | 23.38 | 247,293 | 26,602 | 11.35 |
| 50-99 acres | 2,490* | 351,010 | 45.47 | 10,085 | 40,619 | 40.13 | 234,272 | 14,927 | 9.99 |
| 1-49 acres | 8,061 | 265,149 | 24.23 | 21,281* | 55,115 | 33.54 | 482,209 | 10,701 | 10.70 |
| Sales class: | | | | | | | | | |
| \$500,000 or more | 11,082 | 1,528,040 | 10.86 | 9,409 | 856,016 | 6.10 | 18,334 | 773,486 | 7.70 |
| \$250,000-\$499,999 | 7,189 | 309,560 | 3.05 | 14,450 | 301,961 | 2.07 | 51,424 | 286,296 | 1.95 |
| \$100,000-\$249,999 | 8,540 | 139,109 | 4.67 | 19,720 | 153,342 | 3.42 | 169,570 | 134,106 | 1.13 |
| \$40,000-\$99,999 | 6,039 | 61,693 | 6.40 | 11,874 | 62,963 | 3.38 | 223,121 | 56,634 | 1.49 |
| \$20,000-\$39,999 | 3,625* | 20,136 | 17.42 | 10,149 | 26,358 | 8.50 | 159,382 | 24,226 | 1.81 |
| \$10,000-\$19,999 | d | d | na | 12,363* | 12,136 | 14.36 | 191,969 | 12,340 | 1.49 |
| \$9,999 or less | d | d | na | 32,947 | 3,655 | 13.42 | 782,350 | 2,770 | 2.38 |
| Net farm income solvency class: | | | | | | | | | |
| Favorable | 25,119 | 525,467 | 12.91 | 67,019 | 175,529 | 9.75 | 874,902 | 51,190 | 3.44 |
| Marginal income | 13,659 | 168,466 | 16.29 | 29,330 | 66,304 | 16.48 | 507,988 | 22,062 | 5.38 |
| Marginal solvency | 3,574 | 1,191,028 | 25.91 | 6,952 | 311,226 | 12.36 | 100,344 | 121,616 | 6.14 |
| Vulnerable | 2,486 | 438,777 | 24.28 | 7,610* | 112,277 | 42.64 | 112,916 | 39,677 | 10.90 |

*=The relative standard error for the estimated number of farms reporting exceeds 25 percent.

d=Data insufficient for disclosure.

na=Not applicable.

¹The relative standard error (RSE) provides the means of evaluating the survey results. A smaller RSE indicates greater reliability of the estimate.

Appendix table 8—Mean sales, by production specialty, selected operator characteristics, and farm organization, 1990

| Item | Corporate | | | Partnership | | | Individual | | |
|---------------------------|----------------|----------------|--------------------------|----------------|----------------|--------------------------|----------------|----------------|--------------------------|
| | Expanded count | Mean sales | RSE of mean ¹ | Expanded count | Mean sales | RSE of mean ¹ | Expanded count | Mean sales | RSE of mean ¹ |
| | <i>Farms</i> | <i>Dollars</i> | <i>Percent</i> | <i>Farms</i> | <i>Dollars</i> | <i>Percent</i> | <i>Farms</i> | <i>Dollars</i> | <i>Percent</i> |
| Production specialty: | | | | | | | | | |
| Cash grain | 9,018 | 185,424 | 9.24 | 18,068 | 176,796 | 12.35 | 310,413 | 58,773 | 3.35 |
| Tobacco | d | d | na | d | d | na | 72,350 | 26,594 | 9.61 |
| Cotton | d | d | na | 2,058 | 578,189 | 14.42 | 18,686 | 120,920 | 15.30 |
| Other field crops | 2,560 | 304,213 | 26.34 | 4,932 | 130,789 | 24.87 | 115,603 | 31,647 | 11.26 |
| Vegetable, fruit, or nuts | 5,600 | 619,441 | 22.98 | 8,686 | 169,625 | 26.04 | 78,476 | 48,853 | 22.03 |
| Nursery or greenhouse | 3,200 | 891,157 | 24.29 | d | d | na | 30,027 | 82,161 | 24.27 |
| Beef, hogs, or sheep | 15,268 | 475,364 | 22.78 | 45,753 | 83,078 | 16.37 | 743,359 | 30,634 | 4.48 |
| Poultry | d | d | na | d | d | na | 27,720 | 35,422 | 20.63 |
| Dairy | 3,850 | 679,555 | 17.62 | 16,135 | 322,534 | 8.90 | 118,749 | 126,994 | 4.96 |
| Other livestock | d | d | na | d | d | na | 80,768 | 18,021 | 19.43 |
| Operator characteristics: | | | | | | | | | |
| Occupation— | | | | | | | | | |
| Farming | 30,754 | 472,784 | 11.55 | 72,877 | 205,264 | 8.71 | 870,994 | 74,546 | 2.60 |
| Hired farm manager | 5,465 | 1,028,564 | 22.33 | d | d | na | 4,774 | 228,045 | 44.13 |
| Other occupation | 8,620 | 79,777 | 29.82 | 36,627 | 31,285 | 22.70 | 720,205 | 9,245 | 4.93 |
| Age— | | | | | | | | | |
| Less than 35 years old | 6,684 | 232,650 | 29.55 | 20,973 | 113,709 | 18.61 | 177,780 | 59,531 | 6.31 |
| 35-44 years old | 9,560 | 584,901 | 20.02 | 27,977 | 194,942 | 10.76 | 325,814 | 59,188 | 6.18 |
| 45-54 years old | 11,882 | 411,748 | 16.32 | 27,313 | 120,758 | 22.42 | 341,532 | 54,440 | 4.55 |
| 55-64 years old | 9,918 | 463,391 | 24.90 | 18,073 | 178,765 | 13.31 | 383,406 | 42,315 | 5.07 |
| 65 years old or older | 6,795 | 620,100 | 22.83 | 16,575 | 142,309 | 17.82 | 367,619 | 21,741 | 7.63 |
| Education— | | | | | | | | | |
| Less than high school | 4,123 | 293,974 | 22.89 | 18,898* | 94,387 | 28.42 | 397,726 | 27,471 | 6.08 |
| High school | 16,728 | 330,361 | 15.59 | 41,028 | 166,027 | 9.23 | 650,841 | 46,714 | 3.26 |
| Some college | 9,404 | 560,938 | 24.37 | 26,821 | 136,525 | 23.43 | 295,032 | 55,944 | 6.07 |
| College | 14,584 | 605,803 | 16.30 | 24,166 | 184,955 | 12.91 | 252,464 | 58,222 | 8.08 |

*=The relative standard error for the estimated number of farms reporting exceeds 25 percent.

d=Data insufficient for disclosure.

na=Not applicable.

¹The relative standard error (RSE) provides the means of evaluating the survey results. A smaller relative standard error indicates greater reliability of the estimate.

Appendix table 9—Selected characteristics of farms, by region, 1990

| Item | All regions | | | | Northeast | | | | Lake States | | | |
|----------------------------------|----------------------|-----------------|----------------|---------------------------|----------------------|-----------------|----------------|---------------------------|----------------------|-----------------|----------------|---------------------------|
| | Total | Average per | | | Total | Average per | | | Total | Average per | | |
| | | Farms reporting | reporting farm | RSE of total ¹ | | Farms reporting | reporting farm | RSE of total ¹ | | Farms reporting | reporting farm | RSE of total ¹ |
| | 1,000 acres | Number | Acres | Percent | 1,000 acres | Number | Acres | Percent | 1,000 acres | Number | Acres | Percent |
| Acres operated | 1,030,490 | 1,751,795 | 588 | 3.19 | 21,982 | 119,990 | 183 | 5.71 | 58,200 | 195,609 | 298 | 5.43 |
| Acres owned | 471,896 | 1,620,324 | 291 | 3.19 | 15,950 | 112,972 | 141 | 6.58 | 38,333 | 182,476 | 210 | 6.89 |
| Acres rented in | 342,011 | 797,474 | 429 | 2.77 | 6,563 | 52,371 | 125 | 9.48 | 21,693 | 95,909 | 226 | 6.94 |
| Acres rented out | 37,093 | 179,222 | 207 | 10.28 | 487 | 8,931 | 54 | 26.25 | 1,729 | 22,311 | 77 | 17.38 |
| Cropland removed from production | 56,080 | 480,937 | 117 | 3.73 | 612 | 15,198 | 40 | 24.55 | 3,504 | 89,391 | 39 | 10.92 |
| Govt. programs | 19,416 | 369,783 | 53 | 5.44 | 362 | 10,417 | 35 | 23.35 | 1,713 | 69,642 | 25 | 7.54 |
| | 1,000 dollars | Dollars | | | 1,000 dollars | Dollars | | | 1,000 dollars | Dollars | | |
| Gross cash income | 121,410,826 | 1,648,892 | 73,632 | 2.36 | 8,271,646 | 110,353 | 74,956 | 8.09 | 15,885,522 | 185,705 | 85,542 | 4.99 |
| Livestock sales | 58,528,658 | 1,127,918 | 51,891 | 3.44 | 4,913,306 | 71,579 | 68,642 | 6.62 | 9,300,054 | 124,004 | 74,998 | 5.94 |
| Crop sales | 49,498,924 | 846,342 | 58,486 | 3.64 | 2,789,661 | 57,155 | 48,809 | 20.65 | 4,828,289 | 102,196 | 47,245 | 8.75 |
| Govt. payments | 5,532,896 | 559,789 | 9,884 | 2.55 | 118,180 | 18,606 | 6,352 | 19.13 | 701,497 | 101,723 | 6,896 | 7.75 |
| Other farm-related income | 7,850,349 | 758,512 | 10,350 | 6.02 | 450,498 | 51,569 | 8,736 | 14.75 | 1,055,682 | 128,158 | 8,237 | 19.86 |
| Cash expenses | 100,370,806 | 1,750,127 | 57,351 | 2.32 | 7,087,076 | 119,990 | 59,064 | 7.49 | 12,436,014 | 195,870 | 63,491 | 5.45 |
| Net cash farm income | 21,040,021 | 1,751,617 | 12,012 | 5.05 | 1,184,570 | 119,990 | 9,872 | 22.24 | 3,449,508 | 195,870 | 17,611 | 9.24 |
| Net farm income | 23,579,840 | 1,752,125 | 13,458 | 5.47 | 1,378,250 | 119,990 | 11,486 | 33.57 | 3,080,057 | 195,870 | 15,725 | 10.06 |
| Farm assets | 719,422,739 | 1,750,281 | 411,033 | 4.42 | 63,859,851 | 119,558 | 534,133 | 11.48 | 69,309,981 | 195,740 | 354,093 | 4.87 |
| Liabilities | 94,708,220 | 1,702,300 | 55,635 | 2.36 | 6,744,766 | 117,445 | 57,429 | 8.42 | 14,050,343 | 192,577 | 72,960 | 5.94 |
| Equity | 624,714,519 | 1,751,890 | 356,595 | 5.00 | 57,115,085 | 119,990 | 476,000 | 12.69 | 55,259,638 | 195,740 | 282,312 | 5.22 |
| Capital investments | 13,714,758 | 1,058,074 | 12,962 | 3.14 | 1,158,333 | 76,683 | 15,105 | 10.38 | 1,908,905 | 138,575 | 13,775 | 5.78 |
| | 1,000 hours per week | Hours | | | 1,000 hours per week | Hours | | | 1,000 hours per week | Hours | | |
| Labor hours worked | 74,819 | 1,729,721 | 43 | 1.67 | 6,871 | 118,603 | 58 | 6.48 | 11,685 | 193,123 | 61 | 4.68 |
| Operator | 54,661 | 1,708,785 | 32 | 1.53 | 4,564 | 116,207 | 39 | 5.62 | 8,192 | 192,508 | 43 | 4.51 |
| Unpaid | 20,158 | 814,899 | 25 | 2.82 | 2,308 | 74,957 | 31 | 9.92 | 3,493 | 112,182 | 31 | 6.96 |

See footnote at end of table.

Continued—

Appendix table 9—Selected characteristics of farms, by region, 1990—Continued

| Item | Corn Belt | | | | Northern Plains | | | | Appalachian | | | |
|----------------------------------|----------------------|-----------------|----------------------------|---------|----------------------|-----------------|----------------------------|---------|----------------------|-----------------|----------------------------|---------|
| | Total | Farms reporting | Average per reporting farm | | Total | Farms reporting | Average per reporting farm | | Total | Farms reporting | Average per reporting farm | |
| | | | RSE of total ¹ | | | | RSE of total ¹ | | | | RSE of total ¹ | |
| | 1,000 acres | Number | Acres | Percent | 1,000 acres | Number | Acres | Percent | 1,000 acres | Number | Acres | Percent |
| Acres operated | 102,923 | 350,803 | 293 | 3.54 | 158,758 | 149,551 | 1,062 | 5.32 | 43,813 | 252,383 | 174 | 4.95 |
| Acres owned | 54,130 | 315,982 | 171 | 5.04 | 88,510 | 128,162 | 691 | 8.38 | 28,623 | 240,578 | 119 | 5.52 |
| Acres rented in | 53,105 | 171,748 | 309 | 4.40 | 77,222 | 99,932 | 773 | 4.28 | 16,340 | 107,665 | 152 | 6.98 |
| Acres rented out | 4,283 | 42,962 | 100 | 13.97 | 8,726 | 31,218 | 280 | 12.60 | 850 | 22,217 | 38 | 20.01 |
| Cropland removed from production | 6,346 | 149,694 | 42 | 7.39 | 19,073 | 99,062 | 193 | 5.20 | 1,555 | 31,531 | 49 | 12.58 |
| Govt. programs | 3,247 | 123,552 | 26 | 6.84 | 4,671 | 79,808 | 59 | 4.73 | 915 | 22,983 | 40 | 14.28 |
| | 1,000 dollars | Dollars | | | 1,000 dollars | Dollars | | | 1,000 dollars | Dollars | | |
| Gross cash income | 22,972,331 | 339,175 | 67,730 | 3.96 | 17,196,494 | 148,859 | 115,522 | 7.65 | 7,602,733 | 237,621 | 31,995 | 6.13 |
| Livestock sales | 9,876,456 | 225,911 | 43,718 | 5.18 | 9,663,821 | 97,852 | 98,770 | 12.78 | 3,375,422 | 156,348 | 21,589 | 9.26 |
| Crop sales | 10,805,865 | 216,587 | 49,892 | 5.99 | 5,080,099 | 106,979 | 47,487 | 5.49 | 3,435,314 | 127,713 | 26,899 | 8.80 |
| Govt. payments | 1,162,298 | 166,750 | 6,970 | 5.33 | 1,461,451 | 109,391 | 13,360 | 3.98 | 165,452 | 40,799 | 4,055 | 9.52 |
| Other farm-related income | 1,127,711 | 173,007 | 6,518 | 14.53 | 991,123 | 106,479 | 9,308 | 12.58 | 626,545 | 94,844 | 6,606 | 16.86 |
| Cash expenses | 17,995,803 | 350,211 | 51,386 | 3.88 | 13,615,655 | 149,447 | 91,107 | 7.67 | 6,503,008 | 252,383 | 25,766 | 6.29 |
| Net cash farm income | 4,976,528 | 350,803 | 14,186 | 7.66 | 3,580,838 | 149,551 | 23,944 | 11.68 | 1,099,724 | 252,030 | 4,363 | 17.94 |
| Net farm income | 5,326,010 | 350,803 | 15,182 | 9.52 | 3,620,627 | 149,551 | 24,210 | 12.28 | 2,021,288 | 252,383 | 8,009 | 14.00 |
| Farm assets | 116,559,693 | 350,790 | 332,278 | 3.39 | 64,387,228 | 149,507 | 430,663 | 3.92 | 71,015,952 | 251,992 | 281,818 | 7.99 |
| Liabilities | 18,683,050 | 341,823 | 54,657 | 4.89 | 12,975,493 | 146,382 | 88,641 | 5.14 | 6,158,069 | 245,527 | 25,081 | 7.54 |
| Equity | 97,876,643 | 350,803 | 279,008 | 3.53 | 51,411,736 | 149,507 | 343,874 | 4.39 | 64,857,883 | 252,383 | 256,982 | 8.61 |
| Capital investments | 3,020,316 | 231,662 | 13,040 | 7.46 | 1,515,456 | 106,148 | 14,277 | 6.02 | 1,326,033 | 145,136 | 9,136 | 10.55 |
| | 1,000 hours per week | Hours | | | 1,000 hours per week | Hours | | | 1,000 hours per week | Hours | | |
| Labor hours worked | 15,840 | 347,198 | 46 | 3.79 | 8,463 | 147,209 | 57 | 3.78 | 8,454 | 249,220 | 34 | 4.81 |
| Operator | 11,833 | 345,798 | 34 | 3.50 | 6,170 | 146,008 | 42 | 3.43 | 6,281 | 245,780 | 26 | 4.40 |
| Unpaid | 4,007 | 171,468 | 23 | 6.29 | 2,293 | 71,987 | 32 | 7.52 | 2,173 | 110,066 | 20 | 8.06 |

See footnote at end of table.

Continued—

Appendix table 9—Selected characteristics of farms, by region, 1990—Continued

| Item | Southeast | | | | Delta | | | | Southern Plains | | | |
|----------------------------------|----------------------|-----------------|----------------------------|---------|----------------------|-----------------|----------------------------|---------|----------------------|-----------------|----------------------------|---------|
| | Total | Farms reporting | Average per reporting farm | | Total | Farms reporting | Average per reporting farm | | Total | Farms reporting | Average per reporting farm | |
| | | | RSE of total ¹ | | | | RSE of total ¹ | | | | RSE of total ¹ | |
| | 1,000 acres | Number | Acres | Percent | 1,000 acres | Number | Acres | Percent | 1,000 acres | Number | Acres | Percent |
| Acres operated | 35,307 | 125,600 | 281 | 11.19 | 26,556 | 81,471 | 326 | 4.80 | 124,272 | 228,760 | 543 | 6.35 |
| Acres owned | 25,896 | 121,138 | 214 | 14.05 | 14,165 | 76,501 | 185 | 6.86 | 69,631 | 215,218 | 324 | 8.24 |
| Acres rented in | 10,717 | 42,553 | 252 | 14.47 | 13,383 | 36,848 | 363 | 6.30 | 57,319 | 98,711 | 581 | 8.45 |
| Acres rented out | 1,210 | 9,048 | 134 | 32.72 | 1,069 | 5,240 | 204 | 22.00 | 3,460 | 17,697 | 196 | 14.59 |
| Cropland removed from production | 2,080 | 18,760 | 111 | 17.56 | 1,641 | 15,654 | 105 | 10.74 | 5,799 | 27,560 | 210 | 10.15 |
| Govt. programs | 1,254 | 13,014 | 96 | 22.16 | 929 | 10,509 | 88 | 8.80 | 3,091 | 19,740 | 157 | 10.05 |
| | 1,000 dollars | | Dollars | | 1,000 dollars | | Dollars | | 1,000 dollars | | Dollars | |
| Gross cash income | 7,672,680 | 110,728 | 69,293 | 9.99 | 4,992,582 | 75,677 | 65,972 | 7.05 | 9,068,130 | 212,263 | 42,721 | 7.31 |
| Livestock sales | 2,973,123 | 74,669 | 39,818 | 13.31 | 1,295,191 | 54,709 | 23,674 | 12.74 | 5,493,364 | 182,163 | 30,156 | 10.33 |
| Crop sales | 4,001,175 | 43,250 | 92,512 | 15.28 | 2,885,491 | 23,161 | 124,581 | 9.57 | 2,322,994 | 56,015 | 41,471 | 8.54 |
| Govt. payments | 250,890 | 24,057 | 10,429 | 21.92 | 360,076 | 20,550 | 17,522 | 6.93 | 567,277 | 38,707 | 14,656 | 8.32 |
| Other farm-related income | 447,491 | 28,846 | 15,513 | 16.31 | 451,825 | 23,993 | 18,832 | 17.24 | 684,496 | 65,054 | 10,522 | 13.56 |
| Cash expenses | 6,508,931 | 124,856 | 52,132 | 9.17 | 4,019,571 | 80,913 | 49,677 | 6.57 | 8,643,859 | 228,760 | 37,786 | 7.40 |
| Net cash farm income | 1,163,749 | 125,535 | 9,270 | 27.89 | 973,011 | 81,471 | 11,943 | 15.53 | 424,271 | 228,669 | 1,855 | 52.06 |
| Net farm income | 1,338,615 | 125,600 | 10,658 | 27.59 | 922,185 | 81,471 | 11,319 | 17.23 | 935,972 | 228,760 | 4,092 | 24.97 |
| Farm assets | 56,371,564 | 125,600 | 448,819 | 14.25 | 22,357,326 | 81,471 | 274,420 | 5.68 | 78,515,658 | 228,698 | 343,316 | 7.36 |
| Liabilities | 4,828,810 | 121,292 | 39,812 | 9.36 | 3,335,617 | 74,909 | 44,529 | 8.80 | 8,238,204 | 222,526 | 37,021 | 7.74 |
| Equity | 51,542,754 | 125,600 | 410,373 | 15.28 | 19,021,709 | 81,471 | 233,478 | 5.93 | 70,277,453 | 228,698 | 307,294 | 8.08 |
| Capital investments | 707,039 | 53,302 | 13,265 | 11.04 | 660,594 | 46,394 | 14,239 | 12.72 | 1,184,458 | 120,657 | 9,817 | 9.84 |
| | 1,000 hours per week | | Hours | | 1,000 hours per week | | Hours | | 1,000 hours per week | | Hours | |
| Labor hours worked | 3,769 | 122,008 | 31 | 6.66 | 2,831 | 80,896 | 35 | 5.68 | 7,517 | 227,593 | 33 | 5.14 |
| Operator | 3,081 | 121,086 | 25 | 6.74 | 2,168 | 78,634 | 28 | 5.33 | 5,701 | 221,758 | 26 | 4.76 |
| Unpaid | 688 | 31,545 | 22 | 11.17 | 663 | 28,732 | 23 | 10.45 | 1,816 | 97,228 | 19 | 9.57 |

See footnote at end of table.

Continued—

Appendix table 9—Selected characteristics of farms, by region, 1990—Continued

| Item | Mountain | | | | Pacific | | | |
|----------------------------------|-----------------------------|-----------------|----------------------------|---------------------------|-----------------------------|-----------------|----------------------------|---------------------------|
| | Total | Farms reporting | Average per reporting farm | RSE of total ¹ | Total | Farms reporting | Average per reporting farm | RSE of total ¹ |
| | <i>1,000 acres</i> | <i>Number</i> | <i>Acres</i> | <i>Percent</i> | <i>1,000 acres</i> | <i>Number</i> | <i>Acres</i> | <i>Percent</i> |
| Acres operated | 338,297 | 104,969 | 3,223 | 7.21 | 120,384 | 142,660 | 844 | 14.57 |
| Acres owned | 102,490 | 96,755 | 1,059 | 8.14 | 34,168 | 130,542 | 262 | 17.89 |
| Acres rented in | 60,760 | 45,338 | 1,340 | 8.90 | 24,911 | 46,400 | 537 | 14.80 |
| Acres rented out | 12,768 | 9,584 | 1,332 | 27.09 | 2,511 | 10,015 | 251 | 25.31 |
| Cropland removed from production | 11,355 | 22,638 | 502 | 10.76 | 4,116 | 11,451 | 359 | 23.69 |
| Govt. programs | 2,420 | 13,430 | 180 | 35.90 | 814 | 6,688 | 122 | 24.88 |
| | <i>1,000 dollars</i> | | <i>Dollars</i> | | <i>1,000 dollars</i> | | <i>Dollars</i> | |
| Gross cash income | 9,997,846 | 98,241 | 101,768 | 6.58 | 17,750,863 | 130,271 | 136,262 | 9.36 |
| Livestock sales | 5,414,900 | 66,978 | 80,846 | 10.25 | 6,223,020 | 73,714 | 84,421 | 15.68 |
| Crop sales | 3,494,792 | 47,798 | 73,116 | 7.93 | 9,855,243 | 65,487 | 150,492 | 12.75 |
| Govt. payments | 456,677 | 26,786 | 17,049 | 7.22 | 289,098 | 12,421 | 23,275 | 15.20 |
| Other farm-related income | 631,477 | 43,644 | 14,469 | 10.46 | 1,383,502 | 42,918 | 32,236 | 22.53 |
| Cash expenses | 8,328,917 | 105,039 | 79,294 | 5.86 | 15,231,971 | 142,660 | 106,771 | 8.92 |
| Net cash farm income | 1,668,929 | 105,039 | 15,889 | 16.76 | 2,518,892 | 142,660 | 17,657 | 23.23 |
| Net farm income | 2,327,802 | 105,039 | 22,161 | 20.21 | 2,629,036 | 142,660 | 18,429 | 22.94 |
| Farm assets | 53,112,214 | 105,039 | 505,645 | 6.64 | 123,933,271 | 141,886 | 873,471 | 22.54 |
| Liabilities | 8,236,670 | 101,670 | 81,014 | 5.69 | 11,457,197 | 138,149 | 82,934 | 10.86 |
| Equity | 44,875,544 | 105,039 | 427,229 | 7.52 | 112,476,074 | 142,660 | 788,421 | 24.48 |
| Capital investments | 990,267 | 69,948 | 14,157 | 7.78 | 1,243,355 | 69,608 | 17,862 | 17.52 |
| | <i>1,000 hours per week</i> | | <i>Hours</i> | | <i>1,000 hours per week</i> | | <i>Hours</i> | |
| Labor hours worked | 4,675 | 104,467 | 45 | 5.14 | 4,714 | 139,405 | 34 | 8.05 |
| Operator | 3,351 | 103,813 | 32 | 5.03 | 3,320 | 137,193 | 24 | 6.49 |
| Unpaid | 1,324 | 47,099 | 28 | 7.78 | 1,394 | 69,634 | 20 | 13.62 |

¹The relative standard error (RSE) provides the means of evaluating the survey results. A smaller RSE indicates greater reliability of the estimate.

Appendix table 10—Selected characteristics of farms, by organization, 1990

| Item | Individual | | | | Partnership | | | | Corporate | | | |
|----------------------------------|----------------------|-----------------|----------------------------|---------|----------------------|-----------------|----------------------------|---------|----------------------|-----------------|----------------------------|---------|
| | Total | Farms reporting | Average per reporting farm | | Total | Farms reporting | Average per reporting farm | | Total | Farms reporting | Average per reporting farm | |
| | | | RSE of total ¹ | | | | RSE of total ¹ | | | | RSE of total ¹ | |
| | 1,000 acres | Number | Acres | Percent | 1,000 acres | Number | Acres | Percent | 1,000 acres | Number | Acres | Percent |
| Acres operated | 701,950 | 1,595,890 | 440 | 3.41 | 170,682 | 110,912 | 1,539 | 9.59 | 157,588 | 44,769 | 3,520 | 11.20 |
| Acres owned | 332,327 | 1,480,963 | 224 | 3.04 | 60,340 | 99,738 | 605 | 11.05 | 79,038 | 39,425 | 2,005 | 12.06 |
| Acres rented in | 259,553 | 702,896 | 369 | 3.04 | 46,846 | 69,614 | 673 | 9.08 | 35,597 | 24,849 | 1,433 | 10.56 |
| Acres rented out | 27,733 | 165,050 | 168 | 11.97 | 5,040 | 8,694 | 580 | 31.54 | 4,313 | 5,451 | 791 | 23.91 |
| Cropland removed from production | 44,458 | 430,654 | 103 | 4.01 | 6,243 | 31,441 | 199 | 10.40 | 5,358 | 18,744 | 286 | 17.83 |
| Govt. programs | 14,661 | 329,513 | 44 | 3.80 | 2,458 | 24,919 | 99 | 9.91 | 2,293 | 15,252 | 150 | 37.95 |
| | 1,000 dollars | | Dollars | | 1,000 dollars | | Dollars | | 1,000 dollars | | Dollars | |
| Gross cash income | 79,677,971 | 1,498,182 | 53,183 | 2.34 | 18,231,718 | 106,838 | 170,648 | 5.25 | 23,014,934 | 43,649 | 527,278 | 8.91 |
| Livestock sales | 38,493,667 | 1,025,885 | 37,524 | 3.12 | 9,228,814 | 76,161 | 121,174 | 7.29 | 10,731,000 | 25,780 | 416,259 | 14.21 |
| Crop sales | 31,601,715 | 762,733 | 41,432 | 3.88 | 7,335,671 | 54,983 | 133,417 | 7.82 | 10,715,858 | 28,535 | 356,607 | 11.58 |
| Govt. payments | 4,290,989 | 501,296 | 8,560 | 2.90 | 766,436 | 38,371 | 19,975 | 6.88 | 471,990 | 20,023 | 23,572 | 10.42 |
| Other farm-related income | 5,291,600 | 676,725 | 7,819 | 5.14 | 900,797 | 58,127 | 15,497 | 14.97 | 1,616,085 | 23,567 | 69,424 | 22.09 |
| Cash expenses | 67,191,889 | 1,594,152 | 42,149 | 2.39 | 14,103,414 | 110,912 | 127,158 | 5.45 | 18,661,807 | 44,839 | 416,199 | 8.44 |
| Net cash farm income | 12,486,081 | 1,595,994 | 7,823 | 5.82 | 4,128,304 | 110,560 | 37,340 | 9.14 | 4,353,127 | 44,839 | 97,084 | 15.75 |
| Net farm income | 14,696,315 | 1,596,150 | 9,207 | 5.57 | 3,980,234 | 110,912 | 35,886 | 10.00 | 4,820,457 | 44,839 | 107,507 | 19.02 |
| Farm assets | 550,206,707 | 1,594,367 | 345,094 | 5.31 | 87,947,748 | 110,912 | 792,949 | 8.99 | 79,984,634 | 44,777 | 1,786,292 | 12.05 |
| Liabilities | 74,056,625 | 1,550,522 | 47,762 | 2.57 | 11,273,493 | 108,000 | 104,385 | 8.13 | 9,314,044 | 43,649 | 213,385 | 8.48 |
| Equity | 476,150,082 | 1,595,976 | 298,344 | 6.02 | 76,674,255 | 110,912 | 691,306 | 10.03 | 70,670,590 | 44,777 | 1,578,282 | 13.31 |
| Capital investments | 10,916,255 | 946,748 | 11,530 | 3.76 | 1,584,760 | 77,920 | 20,338 | 6.25 | 1,203,211 | 33,221 | 36,219 | 8.49 |
| | 1,000 hours per week | | Hours | | 1,000 hours per week | | Hours | | 1,000 hours per week | | Hours | |
| Labor hours worked | 63,681 | 1,578,723 | 40 | 1.84 | 8,156 | 108,445 | 75 | 5.61 | 2,965 | 42,379 | 70 | 7.86 |
| Operator | 48,622 | 1,559,644 | 31 | 1.67 | 4,153 | 106,716 | 39 | 5.50 | 1,877 | 42,277 | 44 | 6.40 |
| Unpaid | 15,059 | 704,681 | 21 | 3.28 | 4,003 | 89,820 | 45 | 6.40 | 1,089 | 20,272 | 54 | 14.15 |

¹The relative standard error (RSE) provides the means of evaluating the survey results. A smaller RSE indicates greater reliability of the estimate.

Appendix table 11—Selected characteristics of farms, by tenure, 1990

| Item | Full tenant | | | | Part tenant | | | | Full owner | | | |
|----------------------------------|----------------------|-----------------|----------------|---------------------------|----------------------|-----------------|----------------|---------------------------|----------------------|-----------------|----------------|---------------------------|
| | Total | Average per | | | Total | Average per | | | Total | Average per | | |
| | | Farms reporting | reporting farm | RSE of total ¹ | | Farms reporting | reporting farm | RSE of total ¹ | | Farms reporting | reporting farm | RSE of total ¹ |
| | 1,000 acres | Number | Acres | Percent | 1,000 acres | Number | Acres | Percent | 1,000 acres | Number | Acres | Percent |
| Acres operated | 108,563 | 151,905 | 715 | 7.24 | 584,585 | 645,722 | 905 | 3.66 | 337,342 | 954,168 | 354 | 7.50 |
| Acres owned | 88 | 20,303 | 4 | 23.71 | 242,588 | 645,722 | 376 | 4.46 | 229,220 | 954,298 | 240 | 4.81 |
| Acres rented in | 96,770 | 151,751 | 638 | 7.01 | 245,241 | 645,722 | 380 | 2.85 | 0 | 0 | 0 | na |
| Acres rented out | 3,107 | 4,668* | 666 | 44.96 | 11,849 | 46,203 | 256 | 12.28 | 22,137 | 128,350 | 172 | 14.67 |
| Cropland removed from production | 7,318 | 64,393 | 114 | 9.79 | 34,087 | 248,959 | 137 | 4.63 | 14,675 | 167,585 | 88 | 8.52 |
| Govt. programs | 3,386 | 58,383 | 58 | 9.36 | 11,832 | 214,545 | 55 | 3.59 | 4,198 | 96,854 | 43 | 21.94 |
| | 1,000 dollars | Dollars | | | 1,000 dollars | Dollars | | | 1,000 dollars | Dollars | | |
| Gross cash income | 17,508,890 | 149,572 | 117,060 | 7.26 | 69,785,316 | 634,798 | 109,933 | 2.93 | 34,116,620 | 864,522 | 39,463 | 5.06 |
| Livestock sales | 5,533,572 | 91,605 | 60,407 | 9.46 | 34,074,046 | 472,728 | 72,080 | 4.19 | 18,921,039 | 563,585 | 33,573 | 7.34 |
| Crop sales | 10,081,456 | 99,325 | 101,500 | 10.14 | 28,165,896 | 381,438 | 73,841 | 4.47 | 11,251,572 | 365,579 | 30,777 | 7.40 |
| Govt. payments | 821,201 | 74,476 | 11,026 | 7.65 | 3,578,746 | 291,930 | 12,259 | 3.10 | 1,132,948 | 193,382 | 5,859 | 6.03 |
| Other farm-related income | 1,072,660 | 75,506 | 14,206 | 19.50 | 3,966,628 | 357,985 | 11,080 | 7.58 | 2,811,061 | 325,022 | 8,649 | 10.86 |
| Cash expenses | 14,068,026 | 152,104 | 92,489 | 7.13 | 56,727,295 | 645,722 | 87,851 | 2.96 | 29,575,484 | 952,300 | 31,057 | 4.67 |
| Net cash farm income | 3,440,864 | 152,059 | 22,629 | 13.02 | 13,058,021 | 645,722 | 20,222 | 5.43 | 4,541,136 | 953,836 | 4,761 | 14.44 |
| Net farm income | 3,935,425 | 152,104 | 25,873 | 17.67 | 13,373,971 | 645,722 | 20,712 | 6.01 | 6,270,445 | 954,298 | 6,571 | 12.13 |
| Farm assets | 25,400,084 | 150,273 | 169,026 | 8.63 | 312,373,531 | 645,722 | 483,758 | 2.16 | 381,649,124 | 954,285 | 399,932 | 8.14 |
| Liabilities | 6,260,864 | 133,239 | 46,990 | 7.23 | 54,719,378 | 642,672 | 85,144 | 3.02 | 33,727,978 | 926,389 | 36,408 | 4.38 |
| Equity | 19,139,220 | 151,869 | 126,025 | 10.70 | 257,654,152 | 645,722 | 399,017 | 2.32 | 347,921,146 | 954,298 | 364,583 | 8.79 |
| Capital investments | 1,543,712 | 100,713 | 15,328 | 7.58 | 7,929,460 | 476,968 | 16,625 | 3.81 | 4,241,587 | 480,393 | 8,829 | 6.90 |
| | 1,000 hours per week | Hours | | | 1,000 hours per week | Hours | | | 1,000 hours per week | Hours | | |
| Labor hours worked | 8,095 | 151,386 | 53 | 5.23 | 37,344 | 643,456 | 58 | 2.25 | 29,381 | 934,880 | 31 | 2.93 |
| Operator | 6,125 | 150,912 | 41 | 4.94 | 26,750 | 639,603 | 42 | 2.06 | 21,786 | 918,271 | 24 | 2.73 |
| Unpaid | 1,970 | 72,753 | 27 | 8.86 | 10,594 | 350,021 | 30 | 3.67 | 7,594 | 392,124 | 19 | 4.83 |

*=The relative standard error for the estimated number of farms reporting exceeds 25 percent.

na=Not applicable

¹The relative standard error (RSE) provides the means of evaluating the survey results. A smaller RSE indicates greater reliability of the estimate.

Appendix table 12—Selected characteristics of farms, by acreage class, 1990

| Item | 100 or fewer acres | | | | 101-250 acres | | | | 251-500 acres | | | |
|----------------------------------|----------------------|-----------------|----------------|---------------------------|----------------------|-----------------|----------------|---------------------------|----------------------|-----------------|----------------|---------------------------|
| | Total | Average per | | | Total | Average per | | | Total | Average per | | |
| | | Farms reporting | reporting farm | RSE of total ¹ | | Farms reporting | reporting farm | RSE of total ¹ | | Farms reporting | reporting farm | RSE of total ¹ |
| | 1,000 acres | Number | Acres | Percent | 1,000 acres | Number | Acres | Percent | 1,000 acres | Number | Acres | Percent |
| Acres operated | 29,875 | 770,521 | 39 | 3.38 | 66,473 | 402,392 | 165 | 3.21 | 87,920 | 246,391 | 357 | 3.27 |
| Acres owned | 33,223 | 729,183 | 46 | 8.90 | 54,339 | 370,062 | 147 | 3.81 | 56,613 | 222,891 | 254 | 3.97 |
| Acres rented in | 5,428 | 186,005 | 29 | 8.32 | 18,174 | 183,737 | 99 | 5.59 | 34,726 | 160,813 | 216 | 4.76 |
| Acres rented out | 8,233 | 73,360 | 112 | 33.79 | 6,135 | 49,299 | 124 | 13.86 | 3,342 | 22,089 | 151 | 15.89 |
| Cropland removed from production | 1,245 | 60,881 | 20 | 12.65 | 4,028 | 112,430 | 36 | 9.27 | 5,941 | 110,911 | 54 | 9.31 |
| Govt. programs | 303 | 29,199 | 10 | 17.15 | 1,390 | 79,601 | 17 | 10.80 | 2,494 | 92,256 | 27 | 11.82 |
| | 1,000 dollars | Dollars | | | 1,000 dollars | Dollars | | | 1,000 dollars | Dollars | | |
| Gross cash income | 15,834,432 | 682,135 | 23,213 | 6.61 | 16,310,542 | 390,840 | 41,732 | 6.74 | 20,777,938 | 244,352 | 85,033 | 5.44 |
| Livestock sales | 6,666,745 | 426,126 | 15,645 | 8.92 | 8,924,885 | 285,423 | 31,269 | 7.06 | 13,004,789 | 177,607 | 73,222 | 7.90 |
| Crop sales | 7,518,878 | 287,781 | 26,127 | 10.46 | 5,534,028 | 181,095 | 30,559 | 15.36 | 6,059,878 | 146,230 | 41,441 | 5.91 |
| Govt. payments | 125,663 | 64,953 | 1,935 | 13.41 | 481,992 | 138,958 | 3,469 | 8.13 | 783,331 | 128,298 | 6,106 | 6.04 |
| Other farm-related income | 1,523,146 | 194,318 | 7,838 | 15.28 | 1,369,637 | 190,626 | 7,185 | 14.42 | 929,940 | 144,035 | 6,456 | 11.58 |
| Cash expenses | 15,175,783 | 769,764 | 19,715 | 6.03 | 13,693,950 | 401,564 | 34,102 | 6.78 | 16,478,627 | 246,307 | 66,903 | 5.30 |
| Net cash farm income | 658,649 | 770,342 | 855 | 79.41 | 2,616,591 | 402,392 | 6,503 | 13.15 | 4,299,311 | 246,391 | 17,449 | 9.09 |
| Net farm income | 2,839,133 | 770,851 | 3,683 | 21.22 | 3,425,939 | 402,392 | 8,514 | 14.49 | 4,186,358 | 246,391 | 16,991 | 10.16 |
| Farm assets | 179,414,850 | 769,543 | 233,145 | 15.53 | 119,202,312 | 401,960 | 296,553 | 4.01 | 115,054,896 | 246,329 | 467,078 | 6.68 |
| Liabilities | 17,100,349 | 735,594 | 23,247 | 6.88 | 13,506,032 | 395,068 | 34,187 | 5.42 | 15,656,872 | 241,870 | 64,733 | 5.16 |
| Equity | 162,314,501 | 770,721 | 210,601 | 16.90 | 105,696,279 | 402,392 | 262,670 | 4.26 | 99,398,023 | 246,329 | 403,517 | 7.54 |
| Capital investments | 2,292,167 | 356,893 | 6,423 | 11.23 | 2,468,655 | 249,792 | 9,883 | 9.17 | 2,443,323 | 181,834 | 13,437 | 6.20 |
| | 1,000 hours per week | Hours | | | 1,000 hours per week | Hours | | | 1,000 hours per week | Hours | | |
| Labor hours worked | 19,668 | 757,576 | 26 | 3.96 | 16,941 | 397,186 | 43 | 3.85 | 14,451 | 244,615 | 59 | 3.61 |
| Operator | 14,697 | 744,870 | 20 | 3.55 | 12,793 | 392,562 | 33 | 3.59 | 10,635 | 241,816 | 44 | 3.46 |
| Unpaid | 4,971 | 326,377 | 15 | 6.67 | 4,148 | 183,731 | 23 | 6.38 | 3,815 | 126,800 | 30 | 5.58 |

See footnote at end of table.

Continued—

Appendix table 12—Selected characteristics of farms, by acreage class, 1990—Continued

| Item | 501-1000 acres | | | | 1,001-2,000 acres | | | | More than 2,000 acres | | | |
|----------------------------------|----------------------|-----------------|----------------------------|---------|----------------------|-----------------|----------------------------|---------|-----------------------|-----------------|----------------------------|---------|
| | Total | Farms reporting | Average per reporting farm | | Total | Farms reporting | Average per reporting farm | | Total | Farms reporting | Average per reporting farm | |
| | | | RSE of total ¹ | | | | RSE of total ¹ | | | | RSE of total ¹ | |
| | 1,000 acres | Number | Acres | Percent | 1,000 acres | Number | Acres | Percent | 1,000 acres | Number | Acres | Percent |
| Acres operated | 120,873 | 171,733 | 704 | 3.60 | 128,035 | 91,985 | 1,392 | 6.56 | 597,314 | 68,774 | 8,685 | 5.31 |
| Acres owned | 63,549 | 153,457 | 414 | 4.77 | 63,101 | 83,171 | 759 | 9.89 | 201,072 | 61,560 | 3,266 | 6.43 |
| Acres rented in | 62,237 | 138,460 | 449 | 4.54 | 64,876 | 74,952 | 866 | 4.92 | 156,570 | 53,507 | 2,926 | 5.45 |
| Acres rented out | 5,509 | 16,652 | 331 | 19.60 | 3,269 | 9,326 | 351 | 20.40 | 10,605 | 8,496 | 1,248 | 19.39 |
| Cropland removed from production | 8,737 | 100,565 | 87 | 6.60 | 11,264 | 56,080 | 201 | 6.20 | 24,866 | 40,071 | 621 | 7.29 |
| Govt. programs | 4,088 | 87,972 | 46 | 5.38 | 4,269 | 49,129 | 87 | 6.82 | 6,871 | 31,625 | 217 | 13.73 |
| | 1,000 dollars | | Dollars | | 1,000 dollars | | Dollars | | 1,000 dollars | | Dollars | |
| Gross cash income | 25,357,050 | 171,004 | 148,284 | 4.61 | 19,630,946 | 91,860 | 213,705 | 5.93 | 23,499,920 | 68,702 | 342,057 | 6.94 |
| Livestock sales | 11,099,589 | 120,533 | 92,087 | 5.71 | 7,867,799 | 65,514 | 120,093 | 11.48 | 10,964,851 | 52,713 | 208,009 | 10.33 |
| Crop sales | 11,569,387 | 125,081 | 92,495 | 6.91 | 9,444,474 | 64,930 | 145,456 | 6.48 | 9,372,280 | 41,224 | 227,348 | 9.99 |
| Govt. payments | 1,351,886 | 115,414 | 11,713 | 5.36 | 1,301,876 | 64,396 | 20,217 | 4.93 | 1,488,146 | 47,771 | 31,152 | 6.01 |
| Other farm-related income | 1,336,187 | 116,089 | 11,510 | 13.11 | 1,016,796 | 62,896 | 16,166 | 9.25 | 1,674,643 | 50,548 | 33,130 | 17.12 |
| Cash expenses | 20,376,140 | 171,733 | 118,650 | 4.64 | 16,200,149 | 91,985 | 176,118 | 6.67 | 18,446,156 | 68,774 | 268,215 | 6.47 |
| Net cash farm income | 4,980,910 | 171,733 | 29,004 | 8.14 | 3,430,797 | 91,985 | 37,298 | 8.94 | 5,053,763 | 68,774 | 73,484 | 11.88 |
| Net farm income | 4,832,023 | 171,733 | 28,137 | 12.04 | 3,488,922 | 91,985 | 37,929 | 12.22 | 4,807,465 | 68,774 | 69,903 | 12.79 |
| Farm assets | 115,402,734 | 171,690 | 672,159 | 6.48 | 74,055,697 | 91,985 | 805,088 | 5.03 | 116,292,250 | 68,774 | 1,690,941 | 8.67 |
| Liabilities | 18,648,665 | 169,532 | 110,001 | 5.34 | 14,273,045 | 91,649 | 155,735 | 7.42 | 15,523,256 | 68,586 | 226,334 | 5.35 |
| Equity | 96,754,069 | 171,690 | 563,541 | 7.45 | 59,782,652 | 91,985 | 649,920 | 5.22 | 100,768,994 | 68,774 | 1,465,226 | 9.74 |
| Capital investments | 2,635,100 | 136,246 | 19,341 | 5.25 | 1,948,840 | 75,832 | 25,700 | 6.40 | 1,926,673 | 57,477 | 33,521 | 6.81 |
| | 1,000 hours per week | | Hours | | 1,000 hours per week | | Hours | | 1,000 hours per week | | Hours | |
| Labor hours worked | 11,615 | 170,765 | 68 | 4.11 | 6,613 | 91,429 | 72 | 4.81 | 5,531 | 68,152 | 81 | 4.75 |
| Operator | 8,366 | 170,266 | 49 | 3.74 | 4,599 | 91,210 | 50 | 4.55 | 3,571 | 68,061 | 52 | 4.31 |
| Unpaid | 3,249 | 90,535 | 36 | 6.84 | 2,014 | 47,847 | 42 | 7.58 | 1,960 | 39,610 | 49 | 8.15 |

¹The relative standard error (RSE) provides the means of evaluating the survey results. A smaller RSE indicates greater reliability of the estimate.

Appendix table 13—Selected characteristics of farms, by sales class, 1990

| Item | \$9,999 or less | | | | \$10,000-\$19,999 | | | | \$20,000-\$39,999 | | | |
|----------------------------------|----------------------|----------------------------|----------------|---------------------------|----------------------|----------------------------|----------------|---------------------------|----------------------|----------------------------|----------------|---------------------------|
| | Total | Average per reporting farm | | | Total | Average per reporting farm | | | Total | Average per reporting farm | | |
| | | Farms reporting | reporting farm | RSE of total ¹ | | Farms reporting | reporting farm | RSE of total ¹ | | Farms reporting | reporting farm | RSE of total ¹ |
| | 1,000 acres | Number | Acres | Percent | 1,000 acres | Number | Acres | Percent | 1,000 acres | Number | Acres | Percent |
| Acres operated | 100,705 | 819,975 | 123 | 12.86 | 58,699 | 208,116 | 282 | 11.05 | 79,778 | 173,168 | 461 | 8.90 |
| Acres owned | 71,473 | 782,330 | 91 | 8.35 | 38,090 | 197,032 | 193 | 7.05 | 45,315 | 155,756 | 291 | 7.51 |
| Acres rented in | 19,252 | 217,479 | 89 | 12.36 | 12,517 | 88,096 | 142 | 10.59 | 24,817 | 88,686 | 280 | 9.52 |
| Acres rented out | 10,949 | 82,517 | 133 | 27.06 | 3,688 | 24,171 | 153 | 17.55 | 4,692 | 22,926 | 205 | 17.41 |
| Cropland removed from production | 3,764 | 81,933 | 46 | 12.02 | 3,329 | 47,337 | 70 | 14.75 | 5,109 | 60,590 | 84 | 10.47 |
| Govt. programs | 683 | 30,479 | 22 | 19.50 | 849 | 32,192 | 26 | 30.35 | 1,050 | 44,236 | 24 | 10.24 |
| | 1,000 dollars | Dollars | | | 1,000 dollars | Dollars | | | 1,000 dollars | Dollars | | |
| Gross cash income | 2,781,709 | 722,252 | 3,851 | 3.61 | 3,167,719 | 204,385 | 15,499 | 8.54 | 4,825,199 | 172,057 | 28,044 | 4.46 |
| Livestock sales | 1,479,238 | 492,988 | 3,001 | 4.31 | 1,459,251 | 145,093 | 10,057 | 6.42 | 2,215,302 | 114,584 | 19,333 | 6.14 |
| Crop sales | 617,763 | 243,713 | 2,535 | 5.74 | 927,171 | 107,264 | 8,644 | 9.48 | 1,696,922 | 103,525 | 16,391 | 6.04 |
| Govt. payments | 206,024 | 91,781 | 2,245 | 10.86 | 208,007 | 56,212 | 3,700 | 11.63 | 351,815 | 72,815 | 4,832 | 9.15 |
| Other farm-related income | 478,683 | 189,105 | 2,531 | 10.08 | 573,290 | 86,263 | 6,646 | 37.98 | 561,159 | 89,545 | 6,267 | 13.78 |
| Cash expenses | 6,158,086 | 817,976 | 7,528 | 5.15 | 3,450,455 | 208,116 | 16,580 | 9.00 | 4,505,722 | 173,168 | 26,019 | 5.86 |
| Net cash farm income | -3,376,377 | 819,466 | -4,120 | na | -282,736 | 208,116 | -1,359 | na | 319,477 | 173,168 | 1,845 | 53.69 |
| Net farm income | -347,470 | 819,975 | -424 | na | 203,044 | 208,116 | 976 | 109.6 | 721,379 | 173,168 | 4,166 | 23.53 |
| Farm assets | 179,905,071 | 818,836 | 219,708 | 14.96 | 61,392,752 | 208,076 | 295,049 | 8.21 | 59,079,230 | 173,168 | 341,167 | 5.62 |
| Liabilities | 12,745,717 | 783,786 | 16,262 | 7.09 | 5,035,065 | 203,540 | 24,737 | 10.66 | 6,088,848 | 171,322 | 35,540 | 9.51 |
| Equity | 167,159,354 | 819,975 | 203,859 | 15.88 | 56,357,687 | 208,116 | 270,800 | 8.67 | 52,990,382 | 173,168 | 306,005 | 5.79 |
| Capital investments | 1,962,848 | 374,700 | 5,238 | 9.76 | 871,506 | 117,608 | 7,410 | 18.65 | 1,156,045 | 109,343 | 10,573 | 20.22 |
| | 1,000 hours per week | Hours | | | 1,000 hours per week | Hours | | | 1,000 hours per week | Hours | | |
| Labor hours worked | 17,609 | 804,730 | 22 | 3.83 | 7,484 | 206,898 | 36 | 5.89 | 7,907 | 172,342 | 46 | 5.13 |
| Operator | 13,551 | 789,728 | 17 | 3.49 | 5,525 | 204,224 | 27 | 5.12 | 6,004 | 170,785 | 35 | 5.06 |
| Unpaid | 4,058 | 324,733 | 12 | 6.75 | 1,959 | 100,877 | 19 | 10.24 | 1,903 | 80,280 | 24 | 7.89 |

See footnotes at end of table.

Continued—

Appendix table 13—Selected characteristics of farms, by sales class, 1990—Continued

| Item | \$40,000-\$99,999 | | | | \$100,000-\$249,999 | | | |
|----------------------------------|----------------------|-----------------|----------------------------|---------------------------|----------------------|-----------------|----------------------------|---------------------------|
| | Total | Farms reporting | Average per reporting farm | RSE of total ¹ | Total | Farms reporting | Average per reporting farm | RSE of total ¹ |
| | 1,000 acres | Number | Acres | Percent | 1,000 acres | Number | Acres | Percent |
| Acres operated | 205,237 | 240,774 | 852 | 6.46 | 254,384 | 197,775 | 1,286 | 4.49 |
| Acres owned | 87,921 | 212,002 | 415 | 8.55 | 96,120 | 172,993 | 556 | 4.97 |
| Acres rented in | 75,539 | 158,698 | 476 | 6.94 | 98,081 | 155,933 | 629 | 4.42 |
| Acres rented out | 7,889 | 24,143 | 327 | 21.48 | 4,781 | 13,832 | 346 | 24.07 |
| Cropland removed from production | 11,961 | 111,598 | 107 | 6.28 | 18,069 | 116,078 | 156 | 7.90 |
| Govt. programs | 3,848 | 98,730 | 39 | 7.37 | 6,603 | 106,514 | 62 | 13.50 |
| | 1,000 dollars | | Dollars | | 1,000 dollars | | Dollars | |
| Gross cash income | 15,565,320 | 240,449 | 64,734 | 3.32 | 28,998,454 | 197,823 | 146,588 | 3.08 |
| Livestock sales | 7,479,624 | 165,521 | 45,188 | 4.88 | 13,803,964 | 140,489 | 98,256 | 4.25 |
| Crop sales | 5,589,140 | 158,323 | 35,302 | 4.11 | 12,045,528 | 147,896 | 81,446 | 4.41 |
| Govt. payments | 1,020,690 | 135,442 | 7,536 | 4.86 | 1,799,891 | 132,280 | 13,607 | 4.53 |
| Other farm-related income | 1,475,865 | 164,638 | 8,964 | 9.68 | 1,349,071 | 145,092 | 9,298 | 7.98 |
| Cash expenses | 12,200,314 | 241,034 | 50,617 | 3.49 | 22,198,472 | 197,844 | 112,202 | 3.23 |
| Net cash farm income | 3,365,006 | 241,034 | 13,961 | 7.19 | 6,799,982 | 197,844 | 34,370 | 5.03 |
| Net farm income | 2,887,112 | 241,034 | 11,978 | 10.19 | 6,755,111 | 197,844 | 34,144 | 7.94 |
| Farm assets | 109,343,000 | 240,367 | 454,900 | 5.71 | 129,280,975 | 197,844 | 653,448 | 4.23 |
| Liabilities | 14,789,161 | 235,890 | 62,695 | 4.70 | 22,422,342 | 196,146 | 114,315 | 4.14 |
| Equity | 94,553,839 | 240,799 | 392,668 | 6.42 | 106,858,633 | 197,844 | 540,115 | 4.77 |
| Capital investments | 2,052,584 | 184,673 | 11,115 | 5.92 | 3,232,448 | 172,182 | 18,773 | 4.30 |
| | 1,000 hours per week | | Hours | | 1,000 hours per week | | Hours | |
| Labor hours worked | 15,704 | 240,103 | 65 | 4.00 | 15,957 | 196,363 | 81 | 3.59 |
| Operator | 11,583 | 239,363 | 48 | 3.72 | 11,481 | 196,069 | 59 | 3.31 |
| Unpaid | 4,121 | 132,893 | 31 | 6.26 | 4,476 | 115,389 | 39 | 5.74 |

See footnotes at end of table.

Continued—

Appendix table 13—Selected characteristics of farms, by sales class, 1990—Continued

| Item | \$250,000-\$499,999 | | | | \$500,000 or more | | | |
|----------------------------------|-----------------------------|-----------------|----------------------------|---------------------------|-----------------------------|-----------------|----------------------------|---------------------------|
| | Total | Farms reporting | Average per reporting farm | RSE of total ¹ | Total | Farms reporting | Average per reporting farm | RSE of total ¹ |
| | <i>1,000 acres</i> | <i>Number</i> | <i>Acres</i> | <i>Percent</i> | <i>1,000 acres</i> | <i>Number</i> | <i>Acres</i> | <i>Percent</i> |
| Acres operated | 156,360 | 73,067 | 2,140 | 10.19 | 175,328 | 38,921 | 4,505 | 10.54 |
| Acres owned | 55,073 | 66,368 | 830 | 7.48 | 77,904 | 33,844 | 2,302 | 12.00 |
| Acres rented in | 60,134 | 59,257 | 1,015 | 7.32 | 51,671 | 29,324 | 1,762 | 8.38 |
| Acres rented out | 2,184 | 6,555 | 333 | 20.41 | 2,910 | 5,077 | 573 | 20.86 |
| Cropland removed from production | 8,401 | 43,687 | 192 | 12.13 | 5,448 | 19,716 | 276 | 10.63 |
| Govt. programs | 3,534 | 40,514 | 87 | 6.74 | 2,848 | 17,116 | 166 | 11.81 |
| | <i>1,000 dollars</i> | | <i>Dollars</i> | | <i>1,000 dollars</i> | | <i>Dollars</i> | |
| Gross cash income | 23,357,876 | 73,067 | 319,677 | 4.33 | 42,714,549 | 38,860 | 1,099,201 | 5.95 |
| Livestock sales | 10,352,101 | 47,389 | 218,449 | 5.81 | 21,739,176 | 21,853 | 994,784 | 8.41 |
| Crop sales | 10,671,027 | 58,143 | 183,531 | 6.12 | 17,951,372 | 27,479 | 653,286 | 8.90 |
| Govt. payments | 1,116,129 | 49,717 | 22,450 | 5.53 | 830,339 | 21,541 | 38,546 | 9.85 |
| Other farm-related income | 1,218,619 | 56,700 | 21,492 | 11.83 | 2,193,662 | 27,169 | 80,741 | 15.47 |
| Cash expenses | 17,460,238 | 73,067 | 238,962 | 4.32 | 34,397,519 | 38,921 | 883,769 | 5.90 |
| Net cash farm income | 5,897,639 | 73,067 | 80,715 | 6.47 | 8,317,030 | 38,921 | 213,688 | 9.73 |
| Net farm income | 5,295,498 | 73,067 | 72,474 | 7.08 | 8,065,167 | 38,921 | 207,217 | 11.73 |
| Farm assets | 73,867,819 | 73,067 | 1,010,959 | 4.58 | 106,553,891 | 38,921 | 2,737,670 | 9.84 |
| Liabilities | 14,946,134 | 72,717 | 205,539 | 4.92 | 18,680,952 | 38,900 | 480,229 | 7.08 |
| Equity | 58,921,685 | 73,067 | 806,405 | 5.09 | 87,872,940 | 38,921 | 2,257,703 | 11.47 |
| Capital investments | 2,051,141 | 65,495 | 31,318 | 5.16 | 2,388,187 | 34,073 | 70,089 | 7.18 |
| | <i>1,000 hours per week</i> | | <i>Hours</i> | | <i>1,000 hours per week</i> | | <i>Hours</i> | |
| Labor hours worked | 6,559 | 71,464 | 92 | 4.92 | 3,600 | 37,822 | 95 | 6.80 |
| Operator | 4,308 | 70,819 | 61 | 4.43 | 2,209 | 37,796 | 58 | 5.54 |
| Unpaid | 2,250 | 41,221 | 55 | 7.75 | 1,391 | 19,506 | 71 | 11.51 |

na=Not applicable.

¹The relative standard error (RSE) provides the means of evaluating the survey results. A smaller RSE indicates greater reliability of the estimate.

Appendix table 14—Selected characteristics of farms, by production specialty, 1990—Continued

| Item | Cash grain | | | | Tobacco | | | | Cotton | | | |
|----------------------------------|----------------------|-----------------|----------------------------|---------------------------|----------------------|-----------------|----------------------------|---------------------------|----------------------|-----------------|----------------------------|---------------------------|
| | Total | Farms reporting | Average per reporting farm | RSE of total ¹ | Total | Farms reporting | Average per reporting farm | RSE of total ¹ | Total | Farms reporting | Average per reporting farm | RSE of total ¹ |
| | | | | | | | | | | | | |
| | 1,000 acres | Number | Acres | Percent | 1,000 acres | Number | Acres | Percent | 1,000 acres | Number | Acres | Percent |
| Acres operated | 193,718 | 337,251 | 574 | 3.46 | 10,862 | 75,473 | 144 | 8.81 | 19,706 | 21,508 | 916 | 11.35 |
| Acres owned | 91,140 | 293,794 | 310 | 3.82 | 6,881 | 69,542 | 99 | 10.24 | 6,123 | 16,062 | 381 | 16.44 |
| Acres rented in | 109,989 | 208,308 | 528 | 3.52 | 4,432 | 37,011 | 120 | 12.89 | 13,842 | 16,305 | 849 | 10.98 |
| Acres rented out | 9,713 | 45,100 | 215 | 11.12 | d | d | d | na | 256 | 2,281* | 112 | 24.91 |
| Cropland removed from production | 31,521 | 238,191 | 132 | 4.94 | 537 | 12,446 | 43 | 16.08 | 2,830 | 17,741 | 160 | 12.07 |
| Govt. programs | 9,432 | 188,584 | 50 | 4.69 | 328 | 9,671 | 34 | 17.81 | 1,955 | 14,958 | 131 | 10.51 |
| | 1,000 dollars | | Dollars | | 1,000 dollars | | Dollars | | 1,000 dollars | | Dollars | |
| Gross cash income | 26,044,626 | 328,876 | 79,193 | 3.00 | 2,683,761 | 75,473 | 35,559 | 16.39 | 4,350,353 | 21,508 | 202,269 | 11.49 |
| Livestock sales | 2,800,564 | 110,281 | 25,395 | 5.98 | 199,094 | 28,713 | 6,934 | 15.24 | 96,807 | 4,196 | 23,070 | 21.83 |
| Crop sales | 18,535,214 | 290,460 | 63,813 | 3.23 | 2,370,045 | 72,103 | 32,870 | 18.20 | 3,601,275 | 19,088 | 188,664 | 12.02 |
| Govt. payments | 3,046,850 | 254,556 | 11,969 | 3.40 | 45,336 | 12,798 | 3,542 | 18.40 | 408,083 | 18,659 | 21,870 | 14.15 |
| Other farm-related income | 1,661,999 | 213,149 | 7,797 | 6.19 | 69,285 | 21,006 | 3,298 | 20.46 | 244,188 | 12,089 | 20,199 | 12.12 |
| Cash expenses | 19,761,581 | 336,071 | 58,802 | 2.99 | 1,860,278 | 75,473 | 24,648 | 15.76 | 3,378,037 | 21,508 | 157,061 | 10.89 |
| Net cash farm income | 6,283,045 | 337,511 | 18,616 | 5.11 | 823,483 | 75,473 | 10,911 | 19.08 | 972,315 | 21,508 | 45,208 | 18.28 |
| Net farm income | 6,055,355 | 337,511 | 17,941 | 5.61 | 1,270,691 | 75,473 | 16,836 | 31.94 | 911,854 | 21,508 | 42,396 | 19.30 |
| Farm assets | 135,230,364 | 337,368 | 400,839 | 3.13 | 13,837,190 | 75,434 | 183,434 | 9.67 | 9,833,130 | 21,446 | 458,505 | 11.02 |
| Liabilities | 24,587,975 | 325,016 | 75,651 | 4.03 | 1,887,467 | 73,281 | 25,756 | 17.86 | 2,242,713 | 21,221 | 105,685 | 9.62 |
| Equity | 110,642,389 | 337,381 | 327,945 | 3.35 | 11,949,722 | 75,473 | 158,330 | 9.80 | 7,590,417 | 21,446 | 353,931 | 12.91 |
| Capital investments | 3,325,775 | 214,075 | 15,536 | 5.43 | 321,181 | 41,755 | 7,692 | 22.00 | 464,702 | 14,078 | 33,009 | 18.18 |
| | 1,000 hours per week | | Hours | | 1,000 hours per week | | Hours | | 1,000 hours per week | | Hours | |
| Labor hours worked | 14,491 | 330,876 | 44 | 2.96 | 2,898 | 74,895 | 39 | 9.47 | 1,071 | 20,863 | 51 | 9.14 |
| Operator | 11,262 | 328,757 | 34 | 2.72 | 2,166 | 74,863 | 29 | 9.13 | 894 | 20,177 | 44 | 10.19 |
| Unpaid | 3,229 | 142,709 | 23 | 5.58 | 732 | 34,709 | 21 | 13.93 | 177 | 6,804 | 26 | 11.64 |

See footnotes at end of table.

Continued—

Appendix table 14—Selected characteristics of farms, by production specialty, 1990—Continued

| Item | Other field crops | | | | Vegetable, fruit, or nuts | | | | Nursery or greenhouse | | | |
|----------------------------------|----------------------|-----------------|----------------------------|---------|---------------------------|-----------------|----------------------------|---------|-----------------------|-----------------|----------------------------|---------|
| | Total | Farms reporting | Average per reporting farm | | Total | Farms reporting | Average per reporting farm | | Total | Farms reporting | Average per reporting farm | |
| | | | RSE of total ¹ | | | | RSE of total ¹ | | | | RSE of total ¹ | |
| | 1,000 acres | Number | Acres | Percent | 1,000 acres | Number | Acres | Percent | 1,000 acres | Number | Acres | Percent |
| Acres operated | 44,264 | 123,095 | 360 | 26.15 | 12,653 | 92,762 | 136 | 13.10 | 3,243 | 36,793 | 88 | 48.06 |
| Acres owned | 24,916 | 118,675 | 210 | 14.09 | 9,641 | 88,834 | 109 | 17.86 | 3,076 | 33,992 | 90 | 50.60 |
| Acres rented in | 11,712 | 37,417 | 313 | 9.38 | 4,212 | 21,147 | 199 | 17.83 | 287 | 9,112* | 32 | 23.00 |
| Acres rented out | 5,408 | 16,786 | 322 | 51.46 | 1,181 | 10,658 | 111 | 31.86 | 111 | 2,014* | 55 | 48.17 |
| Cropland removed from production | 2,665 | 25,459 | 105 | 15.17 | 568 | 9,925 | 57 | 17.68 | d | d | d | na |
| Govt. programs | 912 | 13,409 | 68 | 19.78 | 304 | 4,072 | 75 | 22.65 | d | d | d | na |
| | 1,000 dollars | | Dollars | | 1,000 dollars | | Dollars | | 1,000 dollars | | Dollars | |
| Gross cash income | 6,209,361 | 113,801 | 54,563 | 8.74 | 10,524,436 | 83,808 | 125,577 | 12.63 | 6,519,412 | 33,588 | 194,101 | 15.05 |
| Livestock sales | 316,970 | 27,752 | 11,421 | 16.16 | 115,634 | 6,885 | 16,794 | 41.15 | d | d | d | na |
| Crop sales | 4,807,029 | 99,791 | 48,171 | 9.58 | 9,275,398 | 82,513 | 112,411 | 12.77 | 6,329,962 | 32,541 | 194,523 | 15.38 |
| Govt. payments | 264,134 | 30,274 | 8,725 | 11.03 | 167,186 | 10,856 | 15,401 | 26.23 | d | d | d | na |
| Other farm-related income | 821,229 | 50,118 | 16,386 | 16.28 | 966,217 | 28,217 | 34,243 | 30.38 | 172,548 | 6,235* | 27,673 | 49.74 |
| Cash expenses | 5,429,271 | 122,537 | 44,307 | 8.50 | 8,936,939 | 92,762 | 96,343 | 12.41 | 4,837,502 | 36,793 | 131,478 | 15.72 |
| Net cash farm income | 780,090 | 123,095 | 6,337 | 23.74 | 1,587,496 | 92,671 | 17,131 | 28.73 | 1,681,910 | 36,729 | 45,793 | 19.33 |
| Net farm income | 910,110 | 123,095 | 7,394 | 21.23 | 2,124,197 | 92,762 | 22,899 | 27.81 | 1,971,725 | 36,793 | 53,589 | 22.17 |
| Farm assets | 40,816,348 | 123,095 | 331,585 | 7.35 | 84,682,443 | 92,762 | 912,902 | 29.78 | 16,971,542 | 36,442 | 465,711 | 14.23 |
| Liabilities | 7,061,873 | 121,303 | 58,217 | 9.30 | 5,672,328 | 88,312 | 64,230 | 16.30 | 1,819,564 | 36,320 | 50,099 | 16.63 |
| Equity | 33,754,475 | 123,095 | 274,215 | 7.93 | 79,010,115 | 92,762 | 851,753 | 31.40 | 15,151,978 | 36,793 | 411,813 | 15.39 |
| Capital investments | 739,718 | 59,654 | 12,400 | 10.58 | 708,267 | 43,874 | 16,143 | 13.37 | 296,780 | 22,165 | 13,390 | 16.29 |
| | 1,000 hours per week | | Hours | | 1,000 hours per week | | Hours | | 1,000 hours per week | | Hours | |
| Labor hours worked | 3,633 | 117,400 | 31 | 6.74 | 3,188 | 89,258 | 36 | 8.65 | 1,548 | 35,301 | 44 | 13.35 |
| Operator | 2,879 | 115,726 | 25 | 6.62 | 2,242 | 87,576 | 26 | 7.46 | 1,103 | 35,132 | 31 | 12.92 |
| Unpaid | 754 | 45,440 | 17 | 11.38 | 946 | 42,152 | 22 | 13.39 | 445 | 16,139 | 28 | 20.79 |

See footnotes at end of table.

Continued—

Appendix table 14—Selected characteristics of farms, by production specialty, 1990—Continued

| Item | Beef, hogs, or sheep | | | | Poultry | | | |
|----------------------------------|-----------------------------|-----------------|----------------------------|---------------------------|-----------------------------|-----------------|----------------------------|---------------------------|
| | Total | Farms reporting | Average per reporting farm | RSE of total ¹ | Total | Farms reporting | Average per reporting farm | RSE of total ¹ |
| | <i>1,000 acres</i> | <i>Number</i> | <i>Acres</i> | <i>Percent</i> | <i>1,000 acres</i> | <i>Number</i> | <i>Acres</i> | <i>Percent</i> |
| Acres operated | 664,160 | 804,459 | 826 | 4.34 | 11,289 | 30,301 | 373 | 71.43 |
| Acres owned | 279,774 | 756,221 | 370 | 4.87 | 2,692 | 29,447 | 91 | 13.82 |
| Acres rented in | 174,670 | 344,995 | 506 | 4.83 | 813 | 7,223 | 113 | 23.61 |
| Acres rented out | 17,743 | 76,340 | 232 | 12.98 | 231 | 3,377* | 68 | 37.16 |
| Cropland removed from production | 16,219 | 130,031 | 125 | 8.25 | d | d | d | na |
| Govt. programs | 5,597 | 100,170 | 56 | 16.43 | d | d | d | na |
| | <i>1,000 dollars</i> | | <i>Dollars</i> | | <i>1,000 dollars</i> | | <i>Dollars</i> | |
| Gross cash income | 36,089,531 | 743,462 | 48,543 | 5.00 | 3,061,394 | 29,880 | 102,456 | 14.48 |
| Livestock sales | 29,223,516 | 722,781 | 40,432 | 5.79 | 2,073,789 | 18,890 | 109,782 | 19.69 |
| Crop sales | 3,587,997 | 184,243 | 19,474 | 5.09 | 56,322 | 5,555 | 10,139 | 25.31 |
| Govt. payments | 1,272,726 | 164,470 | 7,738 | 4.81 | d | d | d | na |
| Other farm-related income | 2,005,292 | 270,937 | 7,401 | 10.68 | 925,757 | 20,859 | 44,381 | 14.03 |
| Cash expenses | 32,381,315 | 804,529 | 40,249 | 4.50 | 2,374,584 | 30,301 | 78,365 | 14.45 |
| Net cash farm income | 3,708,216 | 804,529 | 4,609 | 16.78 | 686,810 | 30,301 | 22,666 | 23.33 |
| Net farm income | 5,364,058 | 804,529 | 6,667 | 12.41 | 565,475 | 30,301 | 18,662 | 26.52 |
| Farm assets | 299,340,327 | 803,711 | 372,447 | 4.40 | 10,642,299 | 30,301 | 351,214 | 11.20 |
| Liabilities | 29,787,989 | 779,439 | 38,217 | 3.96 | 2,481,128 | 29,570 | 83,908 | 14.15 |
| Equity | 269,552,339 | 804,485 | 335,062 | 4.79 | 8,161,171 | 30,301 | 269,333 | 12.83 |
| Capital investments | 4,638,831 | 477,445 | 9,716 | 5.63 | 283,121 | 20,986 | 13,491 | 20.61 |
| | <i>1,000 hours per week</i> | | <i>Hours</i> | | <i>1,000 hours per week</i> | | <i>Hours</i> | |
| Labor hours worked | 29,040 | 803,769 | 36 | 2.50 | 1,509 | 30,290 | 50 | 12.20 |
| Operator | 21,566 | 791,432 | 27 | 2.41 | 930 | 28,618 | 33 | 11.86 |
| Unpaid | 7,474 | 366,071 | 20 | 4.21 | 579 | 16,449 | 35 | 16.88 |

See footnotes at end of table.

Continued—

Appendix table 14—Selected characteristics of farms, by production specialty, 1990—Continued

| Item | Dairy | | | | Other livestock | | | |
|----------------------------------|-----------------------------|-----------------|----------------------------|---------------------------|-----------------------------|-----------------|----------------------------|---------------------------|
| | Total | Farms reporting | Average per reporting farm | RSE of total ¹ | Total | Farms reporting | Average per reporting farm | RSE of total ¹ |
| | <i>1,000 acres</i> | <i>Number</i> | <i>Acres</i> | <i>Percent</i> | <i>1,000 acres</i> | <i>Number</i> | <i>Acres</i> | <i>Percent</i> |
| Acres operated | 47,445 | 138,735 | 342 | 4.88 | 23,150 | 91,417 | 253 | 19.13 |
| Acres owned | 30,049 | 126,376 | 238 | 4.87 | 17,604 | 87,381 | 201 | 21.93 |
| Acres rented in | 17,098 | 91,778 | 186 | 7.24 | 4,957 | 24,177 | 205 | 19.81 |
| Acres rented out | 591 | 6,268 | 94 | 28.83 | 1,600 | 11,510 | 139 | 26.39 |
| Cropland removed from production | 1,161 | 39,248 | 30 | 13.82 | 501 | 5,541 | 90 | 25.88 |
| Govt. programs | 743 | 34,595 | 21 | 9.14 | 109 | 3,296 | 33 | 25.28 |
| | <i>1,000 dollars</i> | | <i>Dollars</i> | | <i>1,000 dollars</i> | | <i>Dollars</i> | |
| Gross cash income | 23,453,973 | 137,170 | 170,985 | 4.50 | 2,473,980 | 81,327 | 30,420 | 15.06 |
| Livestock sales | 21,951,335 | 134,710 | 162,953 | 4.63 | 1,740,902 | 71,846 | 24,231 | 16.18 |
| Crop sales | 736,403 | 44,398 | 16,586 | 9.76 | 199,280 | 15,650 | 12,734 | 24.86 |
| Govt. payments | 263,023 | 55,501 | 4,739 | 6.87 | 53,175 | 9,737 | 5,461 | 18.58 |
| Other farm-related income | 503,213 | 99,294 | 5,068 | 16.96 | 480,622 | 36,608 | 13,129 | 38.78 |
| Cash expenses | 18,268,599 | 138,735 | 131,680 | 4.58 | 3,142,699 | 91,417 | 34,377 | 15.39 |
| Net cash farm income | 5,185,374 | 138,735 | 37,376 | 6.77 | -668,719 | 91,065 | -7,343 | na |
| Net farm income | 4,341,358 | 138,735 | 31,293 | 8.63 | 65,016 | 91,417 | 711 | 768.8 |
| Farm assets | 76,236,013 | 138,303 | 551,224 | 4.14 | 31,833,083 | 91,417 | 348,217 | 14.97 |
| Liabilities | 15,330,177 | 138,158 | 110,961 | 5.13 | 3,837,005 | 89,679 | 42,786 | 17.38 |
| Equity | 60,905,836 | 138,735 | 439,009 | 4.46 | 27,996,078 | 91,417 | 306,244 | 16.12 |
| Capital investments | 2,359,912 | 119,353 | 19,772 | 5.33 | 576,471 | 44,689 | 12,900 | 35.01 |
| | <i>1,000 hours per week</i> | | <i>Hours</i> | | <i>1,000 hours per week</i> | | <i>Hours</i> | |
| Labor hours worked | 13,980 | 137,654 | 102 | 4.95 | 3,461 | 89,414 | 39 | 11.98 |
| Operator | 9,148 | 137,537 | 67 | 4.69 | 2,471 | 88,964 | 28 | 10.26 |
| Unpaid | 4,833 | 96,994 | 50 | 6.78 | 990 | 47,433 | 21 | 18.98 |

*=The relative standard error for the estimated number of farms reporting exceeds 25 percent.

d=Data insufficient for disclosure.

na=Not applicable.

¹The relative standard error (RSE) provides the means of evaluating the survey results. A smaller RSE indicates greater reliability of the estimate.

Appendix table 15—Selected characteristics of farms, by operator occupation, 1990

| Item | Farming | | | | Hired farm manager | | | | Other occupation | | | |
|----------------------------------|----------------------|-----------------|----------------------------|---------|----------------------|-----------------|----------------------------|---------|----------------------|-----------------|----------------------------|---------|
| | Total | Farms reporting | Average per reporting farm | | Total | Farms reporting | Average per reporting farm | | Total | Farms reporting | Average per reporting farm | |
| | | | RSE of total ¹ | | | | RSE of total ¹ | | | | RSE of total ¹ | |
| | 1,000 acres | Number | Acres | Percent | 1,000 acres | Number | Acres | Percent | 1,000 acres | Number | Acres | Percent |
| Acres operated | 848,523 | 974,760 | 870 | 3.60 | 46,581 | 11,812 | 3,944 | 17.78 | 135,387 | 765,223 | 177 | 8.24 |
| Acres owned | 364,974 | 881,846 | 414 | 3.75 | 26,601 | 10,344 | 2,572 | 23.26 | 80,321 | 728,133 | 110 | 4.10 |
| Acres rented in | 293,193 | 549,156 | 534 | 2.97 | 11,612 | 4,323 | 2,686 | 20.79 | 37,207 | 243,996 | 152 | 8.64 |
| Acres rented out | 27,791 | 106,146 | 262 | 13.08 | d | d | d | na | 8,228 | 71,281 | 115 | 13.44 |
| Cropland removed from production | 46,494 | 364,913 | 127 | 4.14 | 534 | 2,614 | 204 | 19.48 | 9,053 | 113,410 | 80 | 9.52 |
| Govt. programs | 17,038 | 306,383 | 56 | 5.94 | 236 | 1,942 | 121 | 21.91 | 2,142 | 61,458 | 35 | 14.44 |
| | 1,000 dollars | Dollars | | | 1,000 dollars | Dollars | | | 1,000 dollars | Dollars | | |
| Gross cash income | 103,728,906 | 949,525 | 109,243 | 2.44 | 8,035,344 | 11,649 | 689,814 | 16.50 | 9,646,576 | 687,719 | 14,027 | 5.10 |
| Livestock sales | 50,813,372 | 671,847 | 75,632 | 3.54 | 3,549,797 | 5,895 | 602,206 | 25.07 | 4,165,489 | 450,176 | 9,253 | 6.78 |
| Crop sales | 41,268,211 | 562,634 | 73,348 | 3.64 | 4,198,492 | 6,638 | 632,467 | 22.87 | 4,032,221 | 277,070 | 14,553 | 8.74 |
| Govt. payments | 4,875,349 | 426,255 | 11,438 | 2.77 | 66,211 | 2,592 | 25,544 | 17.43 | 591,336 | 130,942 | 4,516 | 7.43 |
| Other farm-related income | 6,771,975 | 553,868 | 12,227 | 6.80 | 220,844 | 5,012 | 44,066 | 32.91 | 857,529 | 199,632 | 4,296 | 9.72 |
| Cash expenses | 82,112,447 | 974,521 | 84,259 | 2.45 | 6,898,702 | 11,812 | 584,040 | 16.22 | 11,359,656 | 763,794 | 14,873 | 4.40 |
| Net cash farm income | 21,616,459 | 974,674 | 22,178 | 4.38 | 1,136,642 | 11,812 | 96,227 | 30.32 | -1,713,081 | 765,131 | -2,239 | na |
| Net farm income | 21,100,898 | 974,830 | 21,646 | 4.85 | 1,823,052 | 11,812 | 154,339 | 36.04 | 655,890 | 765,483 | 857 | 75.31 |
| Farm assets | 484,602,256 | 974,293 | 497,389 | 2.71 | 41,204,755 | 11,812 | 3,488,371 | 22.71 | 193,615,728 | 764,176 | 253,365 | 12.92 |
| Liabilities | 71,753,155 | 956,401 | 75,024 | 2.59 | 2,937,707 | 11,364 | 258,516 | 20.85 | 20,017,359 | 734,536 | 27,252 | 5.17 |
| Equity | 412,849,102 | 974,724 | 423,555 | 3.02 | 38,267,048 | 11,812 | 3,239,667 | 24.32 | 173,598,369 | 765,353 | 226,821 | 14.18 |
| Capital investments | 10,737,071 | 665,906 | 16,124 | 3.45 | 261,396 | 7,767 | 33,656 | 16.00 | 2,716,291 | 384,401 | 7,066 | 8.11 |
| | 1,000 hours per week | Hours | | | 1,000 hours per week | Hours | | | 1,000 hours per week | Hours | | |
| Labor hours worked | 57,192 | 967,844 | 59 | 1.85 | 513 | 11,291 | 45 | 10.89 | 17,114 | 750,587 | 23 | 3.85 |
| Operator | 41,870 | 962,349 | 44 | 1.72 | 427 | 11,239 | 38 | 10.90 | 12,364 | 735,197 | 17 | 3.46 |
| Unpaid | 15,322 | 475,859 | 32 | 3.14 | 86 | 2,981 | 29 | 20.83 | 4,750 | 336,058 | 14 | 6.29 |

d=Data insufficient for disclosure.

na=Not applicable.

¹The relative standard error (RSE) provides the means of evaluating the survey results. A smaller RSE indicates greater reliability of the estimate.

Appendix table 16—Selected characteristics of farms, by operator age, 1990

| Item | Less than 35 years old | | | | 35-44 years old | | | | 45-54 years old | | | |
|----------------------------------|------------------------|-----------------|----------------------------|---------|----------------------|-----------------|----------------------------|---------|----------------------|-----------------|----------------------------|---------|
| | Total | Farms reporting | Average per reporting farm | | Total | Farms reporting | Average per reporting farm | | Total | Farms reporting | Average per reporting farm | |
| | | | RSE of total ¹ | | | | RSE of total ¹ | | | | RSE of total ¹ | |
| | 1,000 acres | Number | Acres | Percent | 1,000 acres | Number | Acres | Percent | 1,000 acres | Number | Acres | Percent |
| Acres operated | 105,253 | 205,406 | 512 | 10.35 | 222,246 | 363,365 | 612 | 7.84 | 258,839 | 380,776 | 680 | 6.80 |
| Acres owned | 28,894 | 154,180 | 187 | 8.76 | 80,225 | 327,359 | 245 | 7.06 | 111,888 | 359,162 | 312 | 7.75 |
| Acres rented in | 53,111 | 136,336 | 390 | 7.78 | 93,127 | 193,873 | 480 | 5.42 | 82,727 | 189,782 | 436 | 6.24 |
| Acres rented out | 1,323 | 10,999 | 120 | 23.83 | 4,227 | 26,961 | 157 | 22.07 | 6,809 | 31,349 | 217 | 18.84 |
| Cropland removed from production | 4,687 | 60,025 | 78 | 9.86 | 13,973 | 106,138 | 132 | 10.70 | 12,921 | 110,605 | 117 | 6.74 |
| Govt. programs | 1,997 | 50,265 | 40 | 8.36 | 5,698 | 89,006 | 64 | 16.08 | 4,862 | 88,092 | 55 | 6.60 |
| | 1,000 dollars | | Dollars | | 1,000 dollars | | Dollars | | 1,000 dollars | | Dollars | |
| Gross cash income | 16,046,597 | 194,611 | 82,455 | 5.69 | 32,978,198 | 345,270 | 95,514 | 5.18 | 30,091,426 | 354,426 | 84,902 | 4.22 |
| Livestock sales | 7,701,913 | 136,609 | 56,379 | 7.50 | 15,905,828 | 240,858 | 66,038 | 7.34 | 13,552,086 | 237,517 | 57,057 | 5.52 |
| Crop sales | 6,543,066 | 110,808 | 59,049 | 7.90 | 14,006,820 | 182,235 | 76,861 | 8.05 | 12,814,883 | 186,781 | 68,609 | 6.79 |
| Govt. payments | 611,509 | 69,070 | 8,853 | 6.42 | 1,321,338 | 120,160 | 10,996 | 5.56 | 1,401,182 | 129,505 | 10,820 | 5.16 |
| Other farm-related income | 1,190,109 | 101,372 | 11,740 | 19.47 | 1,744,211 | 162,636 | 10,725 | 10.36 | 2,323,275 | 168,667 | 13,774 | 12.28 |
| Cash expenses | 12,930,979 | 205,476 | 62,932 | 5.48 | 27,701,066 | 363,365 | 76,235 | 5.25 | 25,146,049 | 380,184 | 66,142 | 4.36 |
| Net cash farm income | 3,115,619 | 205,123 | 15,189 | 11.83 | 5,277,132 | 363,365 | 14,523 | 9.80 | 4,945,377 | 380,776 | 12,988 | 9.63 |
| Net farm income | 3,002,565 | 205,476 | 14,613 | 12.39 | 6,557,991 | 363,365 | 18,048 | 11.88 | 5,600,459 | 380,776 | 14,708 | 10.42 |
| Farm assets | 55,450,903 | 205,393 | 269,975 | 5.49 | 140,372,163 | 362,159 | 387,598 | 6.03 | 177,472,287 | 380,351 | 466,602 | 6.90 |
| Liabilities | 13,827,357 | 195,665 | 70,669 | 6.16 | 27,665,917 | 354,931 | 77,947 | 4.48 | 25,996,886 | 373,018 | 69,693 | 4.47 |
| Equity | 41,623,546 | 205,432 | 202,615 | 6.08 | 112,706,246 | 363,365 | 310,174 | 7.18 | 151,475,401 | 380,715 | 397,871 | 7.90 |
| Capital investments | 2,120,496 | 143,275 | 14,800 | 6.82 | 3,474,710 | 256,017 | 13,572 | 5.18 | 3,727,943 | 249,652 | 14,933 | 7.02 |
| | 1,000 hours per week | | Hours | | 1,000 hours per week | | Hours | | 1,000 hours per week | | Hours | |
| Labor hours worked | 10,397 | 203,176 | 51 | 5.20 | 17,630 | 361,954 | 49 | 3.80 | 17,152 | 374,669 | 46 | 3.57 |
| Operator | 7,791 | 202,125 | 39 | 4.85 | 12,525 | 360,543 | 35 | 3.53 | 12,182 | 371,183 | 33 | 3.29 |
| Unpaid | 2,606 | 103,586 | 25 | 8.69 | 5,105 | 194,006 | 26 | 5.94 | 4,971 | 196,841 | 25 | 5.47 |

See footnote at end of table.

Continued—

Appendix table 16—Selected characteristics of farms, by operator age, 1990—Continued

| Item | 55-64 years old | | | | 65 years old or older | | | |
|----------------------------------|-----------------------------|-----------------|----------------------------|---------------------------|-----------------------------|-----------------|----------------------------|---------------------------|
| | Total | Farms reporting | Average per reporting farm | RSE of total ¹ | Total | Farms reporting | Average per reporting farm | RSE of total ¹ |
| | <i>1,000 acres</i> | <i>Number</i> | <i>Acres</i> | <i>Percent</i> | <i>1,000 acres</i> | <i>Number</i> | <i>Acres</i> | <i>Percent</i> |
| Acres operated | 233,938 | 411,189 | 569 | 4.69 | 210,214 | 391,059 | 538 | 8.95 |
| Acres owned | 122,883 | 398,778 | 308 | 5.12 | 128,006 | 380,846 | 336 | 7.63 |
| Acres rented in | 74,329 | 171,072 | 434 | 5.87 | 38,717 | 106,411 | 364 | 8.74 |
| Acres rented out | 7,571 | 38,377 | 197 | 19.55 | 17,163 | 71,536 | 240 | 18.28 |
| Cropland removed from production | 13,964 | 108,955 | 128 | 6.73 | 10,536 | 95,215 | 111 | 7.72 |
| Govt. programs | 4,395 | 82,964 | 53 | 6.14 | 2,463 | 59,456 | 41 | 12.70 |
| | <i>1,000 dollars</i> | | <i>Dollars</i> | | <i>1,000 dollars</i> | | <i>Dollars</i> | |
| Gross cash income | 26,389,329 | 387,412 | 68,117 | 5.24 | 15,905,276 | 367,173 | 43,318 | 8.29 |
| Livestock sales | 12,638,800 | 260,282 | 48,558 | 8.38 | 8,730,030 | 252,651 | 34,554 | 11.23 |
| Crop sales | 10,782,437 | 208,284 | 51,768 | 7.25 | 5,351,718 | 158,234 | 33,821 | 13.30 |
| Govt. payments | 1,363,631 | 127,449 | 10,699 | 4.97 | 835,235 | 113,605 | 7,352 | 8.61 |
| Other farm-related income | 1,604,460 | 175,306 | 9,152 | 9.89 | 988,294 | 150,531 | 6,565 | 19.67 |
| Cash expenses | 21,302,334 | 410,975 | 51,834 | 4.84 | 13,290,378 | 390,127 | 34,067 | 7.64 |
| Net cash farm income | 5,086,994 | 411,403 | 12,365 | 10.45 | 2,614,898 | 390,949 | 6,689 | 18.11 |
| Net farm income | 5,370,735 | 411,449 | 13,053 | 10.65 | 3,048,090 | 391,059 | 7,794 | 16.41 |
| Farm assets | 193,045,763 | 411,319 | 469,334 | 6.91 | 153,081,624 | 391,059 | 391,454 | 5.98 |
| Liabilities | 18,527,538 | 402,920 | 45,983 | 4.38 | 8,690,523 | 375,766 | 23,127 | 10.87 |
| Equity | 174,518,225 | 411,319 | 424,289 | 7.52 | 144,391,101 | 391,059 | 369,231 | 6.08 |
| Capital investments | 2,808,368 | 230,282 | 12,195 | 8.78 | 1,583,241 | 178,848 | 8,852 | 6.64 |
| | <i>1,000 hours per week</i> | | <i>Hours</i> | | <i>1,000 hours per week</i> | | <i>Hours</i> | |
| Labor hours worked | 17,134 | 408,997 | 42 | 3.25 | 12,506 | 380,926 | 33 | 3.66 |
| Operator | 12,663 | 405,317 | 31 | 3.08 | 9,501 | 369,617 | 26 | 3.58 |
| Unpaid | 4,471 | 177,685 | 25 | 5.21 | 3,005 | 142,781 | 21 | 6.31 |

¹The relative standard error (RSE) provides the means of evaluating the survey results. A smaller RSE indicates greater reliability of the estimate.

Appendix table 17—Selected characteristics of farms, by operator education, 1990

| Item | Less than high school | | | | High school | | | |
|----------------------------------|-----------------------|-----------------|----------------------------|---------------------------|----------------------|-----------------|----------------------------|---------------------------|
| | Total | Farms reporting | Average per reporting farm | RSE of total ¹ | Total | Farms reporting | Average per reporting farm | RSE of total ¹ |
| | 1,000 acres | Number | Acres | Percent | 1,000 acres | Number | Acres | Percent |
| Acres operated | 157,777 | 420,487 | 375 | 8.91 | 367,062 | 708,731 | 518 | 4.99 |
| Acres owned | 87,507 | 396,700 | 221 | 9.63 | 178,203 | 652,058 | 273 | 5.04 |
| Acres rented in | 40,521 | 168,508 | 240 | 9.05 | 128,708 | 346,895 | 371 | 3.73 |
| Acres rented out | 6,591 | 48,251 | 137 | 13.12 | 13,681 | 65,007 | 210 | 22.18 |
| Cropland removed from production | 7,447 | 83,115 | 90 | 8.90 | 22,940 | 211,203 | 109 | 7.05 |
| Govt. programs | 2,010 | 58,875 | 34 | 7.54 | 8,266 | 163,957 | 50 | 11.13 |
| | 1,000 dollars | | Dollars | | 1,000 dollars | | Dollars | |
| Gross cash income | 15,323,791 | 391,849 | 39,106 | 5.48 | 47,148,223 | 667,900 | 70,592 | 3.15 |
| Livestock sales | 8,428,962 | 279,987 | 30,105 | 6.58 | 23,503,168 | 465,042 | 50,540 | 3.89 |
| Crop sales | 4,959,677 | 177,456 | 27,949 | 10.48 | 18,202,609 | 347,419 | 52,394 | 5.05 |
| Govt. payments | 650,722 | 101,214 | 6,429 | 6.98 | 2,355,892 | 248,340 | 9,487 | 4.11 |
| Other farm-related income | 1,284,429 | 156,795 | 8,192 | 15.60 | 3,086,555 | 319,813 | 9,651 | 9.62 |
| Cash expenses | 12,441,215 | 420,542 | 29,584 | 5.74 | 38,085,415 | 707,021 | 53,867 | 3.12 |
| Net cash farm income | 2,882,576 | 420,747 | 6,851 | 9.46 | 9,062,808 | 708,731 | 12,787 | 6.29 |
| Net farm income | 3,658,702 | 420,747 | 8,696 | 11.31 | 9,329,748 | 708,731 | 13,164 | 6.76 |
| Farm assets | 120,770,458 | 420,185 | 287,422 | 6.92 | 260,220,495 | 708,586 | 367,239 | 3.47 |
| Liabilities | 10,546,394 | 404,929 | 26,045 | 5.98 | 37,411,772 | 688,846 | 54,311 | 3.46 |
| Equity | 110,224,064 | 420,617 | 262,054 | 7.46 | 222,808,723 | 708,626 | 314,424 | 3.84 |
| Capital investments | 2,026,058 | 223,081 | 9,082 | 10.06 | 5,790,661 | 439,578 | 13,173 | 4.17 |
| | 1,000 hours per week | | Hours | | 1,000 hours per week | | Hours | |
| Labor hours worked | 16,951 | 417,676 | 41 | 4.19 | 32,094 | 700,458 | 46 | 2.46 |
| Operator | 12,129 | 413,399 | 29 | 3.68 | 23,766 | 692,687 | 34 | 2.40 |
| Unpaid | 4,822 | 189,086 | 26 | 7.10 | 8,327 | 327,593 | 25 | 3.81 |

See footnote at end of table.

Continued—

Appendix table 17—Selected characteristics of farms, by operator education, 1990—Continued

| Item | Some college | | | | College | | | |
|----------------------------------|----------------------|-----------------|----------------------------|---------------------------|----------------------|-----------------|----------------------------|---------------------------|
| | Total | Farms reporting | Average per reporting farm | RSE of total ¹ | Total | Farms reporting | Average per reporting farm | RSE of total ¹ |
| | 1,000 acres | Number | Acres | Percent | 1,000 acres | Number | Acres | Percent |
| Acres operated | 220,719 | 331,302 | 666 | 5.80 | 284,933 | 291,275 | 978 | 7.74 |
| Acres owned | 88,246 | 301,319 | 293 | 5.51 | 117,940 | 270,246 | 436 | 7.01 |
| Acres rented in | 82,299 | 163,358 | 504 | 5.29 | 90,483 | 118,713 | 762 | 7.25 |
| Acres rented out | 7,254 | 30,502 | 238 | 18.40 | 9,567 | 35,462 | 270 | 17.79 |
| Cropland removed from production | 12,820 | 100,416 | 128 | 6.51 | 12,873 | 86,204 | 149 | 7.57 |
| Govt. programs | 4,567 | 83,303 | 55 | 6.35 | 4,573 | 63,648 | 72 | 9.41 |
| | 1,000 dollars | | Dollars | | 1,000 dollars | | Dollars | |
| Gross cash income | 27,930,044 | 309,900 | 90,126 | 5.79 | 31,008,769 | 279,243 | 111,046 | 6.02 |
| Livestock sales | 13,482,122 | 215,565 | 62,543 | 9.50 | 13,114,406 | 167,324 | 78,377 | 9.46 |
| Crop sales | 11,514,171 | 161,423 | 71,329 | 7.70 | 14,822,467 | 160,044 | 92,615 | 8.29 |
| Govt. payments | 1,248,500 | 112,761 | 11,072 | 4.82 | 1,277,782 | 97,474 | 13,109 | 6.34 |
| Other farm-related income | 1,685,251 | 147,968 | 11,389 | 10.15 | 1,794,114 | 133,937 | 13,395 | 14.90 |
| Cash expenses | 23,326,405 | 331,302 | 70,408 | 5.79 | 26,517,771 | 291,262 | 91,045 | 5.57 |
| Net cash farm income | 4,603,639 | 331,257 | 13,897 | 11.30 | 4,490,998 | 290,882 | 15,439 | 15.38 |
| Net farm income | 5,021,995 | 331,302 | 15,158 | 11.64 | 5,569,395 | 291,345 | 19,116 | 16.00 |
| Farm assets | 144,029,012 | 330,528 | 435,754 | 6.30 | 194,402,774 | 290,981 | 668,095 | 12.03 |
| Liabilities | 22,448,075 | 325,291 | 69,009 | 5.82 | 24,301,979 | 283,234 | 85,802 | 5.05 |
| Equity | 121,580,937 | 331,302 | 366,979 | 7.20 | 170,100,795 | 291,345 | 583,847 | 13.47 |
| Capital investments | 2,989,228 | 210,811 | 14,180 | 7.99 | 2,908,810 | 184,604 | 15,757 | 6.57 |
| | 1,000 hours per week | | Hours | | 1,000 hours per week | | Hours | |
| Labor hours worked | 14,542 | 326,914 | 44 | 4.27 | 11,233 | 284,673 | 39 | 3.74 |
| Operator | 10,487 | 323,727 | 32 | 3.68 | 8,279 | 278,972 | 30 | 3.65 |
| Unpaid | 4,055 | 166,782 | 24 | 7.18 | 2,954 | 131,438 | 22 | 5.79 |

¹The relative standard error (RSE) provides the means of evaluating the survey results. A smaller RSE indicates greater reliability of the estimate.

Appendix table 18—Farm size, by farm operator household dependency category and region, 1990¹

| Household dependency category | All regions | | | Northeast | | | Lake States | | | Corn Belt | | |
|-------------------------------------|----------------------------|--------------|-----------------------------|----------------------------|--------------|-----------------------------|----------------------------|--------------|-----------------------------|----------------------------|--------------|-----------------------------|
| | Expanded count | Mean | RSE of mean ² | Expanded count | Mean | RSE of mean ² | Expanded count | Mean | RSE of mean ² | Expanded count | Mean | RSE of mean ² |
| | <i>Farms</i> | <i>Acres</i> | <i>Percent</i> | <i>Farms</i> | <i>Acres</i> | <i>Percent</i> | <i>Farms</i> | <i>Acres</i> | <i>Percent</i> | <i>Farms</i> | <i>Acres</i> | <i>Percent</i> |
| Positive household income: | | | | | | | | | | | | |
| Loss from farming | 825,312 | 241 | 7.51 | 63,173 | 120 | 8.34 | 75,753 | 157 | 10.69 | 143,700 | 144 | 8.50 |
| 0 to 24 percent from farming | 267,007 | 328 | 7.43 | 12,714 | 152 | 11.80 | 19,816 | 191 | 15.64 | 53,902 | 215 | 10.97 |
| 25 to 49 percent from farming | 129,042 | 567 | 8.20 | 6,585 | 263 | 11.54 | 16,816 | 275 | 12.16 | 33,275 | 343 | 10.32 |
| 50 to 74 percent from farming | 103,996 | 1,016 | 7.92 | 5,420 | 334 | 11.14 | 10,445 | 442 | 8.52 | 30,723 | 380 | 6.71 |
| 75 percent and more from farming | 263,018 | 1,276 | 5.89 | 20,241 | 286 | 7.37 | 49,520 | 426 | 5.61 | 59,464 | 566 | 4.62 |
| Negative household income | 149,644 | 1,208 | 10.68 | 10,883 | 265 | 18.05 | 21,205 | 472 | 10.29 | 28,389 | 473 | 9.76 |
| | <i>Sales (dollars)</i> | | | <i>Sales (dollars)</i> | | | <i>Sales (dollars)</i> | | | <i>Sales (dollars)</i> | | |
| Positive household income: | | | | | | | | | | | | |
| Loss from farming | 825,312 | 11,752 | 4.95 | 63,173 | 9,460 | 18.43 | 75,753 | 15,314 | 13.10 | 143,700 | 14,851 | 9.79 |
| 0 to 24 percent from farming | 267,007 | 24,140 | 5.59 | 12,714 | 38,637 | 16.50 | 19,816 | 23,881 | 16.16 | 53,902 | 32,504 | 12.85 |
| 25 to 49 percent from farming | 129,042 | 60,822 | 4.88 | 6,585 | 82,950 | 14.49 | 16,816 | 64,515 | 12.26 | 33,275 | 64,344 | 10.04 |
| 50 to 74 percent from farming | 103,996 | 116,658 | 5.05 | 5,420 | 147,875 | 10.78 | 10,445 | 131,086 | 10.82 | 30,723 | 97,669 | 8.75 |
| 75 percent and more from farming | 263,018 | 197,419 | 4.15 | 20,241 | 175,227 | 8.33 | 49,520 | 162,249 | 7.07 | 59,464 | 161,660 | 6.45 |
| Negative household income | 149,644 | 91,384 | 6.85 | 10,883 | 70,463 | 20.41 | 21,205 | 93,864 | 11.16 | 28,389 | 83,527 | 10.24 |

See footnotes at end of table.

Continued—

Appendix table 18—Farm size, by farm operator household dependency category and region, 1990¹—Continued

| Household dependency category | Northern Plains | | | Appalachian | | | Southeast | | | Delta | | |
|-------------------------------------|------------------|--------------|-------------------|------------------|--------------|-------------------|------------------|--------------|-------------------|------------------|--------------|-------------------|
| | Expanded | RSE of | | Expanded | RSE of | | Expanded | RSE of | | Expanded | RSE of | |
| | count | Mean | mean ² | count | Mean | mean ² | count | Mean | mean ² | count | Mean | mean ² |
| | <i>Farms</i> | <i>Acres</i> | <i>Percent</i> | <i>Farms</i> | <i>Acres</i> | <i>Percent</i> | <i>Farms</i> | <i>Acres</i> | <i>Percent</i> | <i>Farms</i> | <i>Acres</i> | <i>Percent</i> |
| Positive household income: | | | | | | | | | | | | |
| Loss from farming | 38,703 | 402 | 10.04 | 125,123 | 115 | 6.95 | 63,926 | 129 | 9.72 | 42,387 | 168 | 8.62 |
| 0 to 24 percent from farming | 15,277 | 597 | 11.71 | 59,272 | 119 | 7.38 | 24,553 | 150 | 11.58 | 14,296 | 200 | 11.04 |
| 25 to 49 percent from farming | 16,541 | 771 | 9.70 | 20,923 | 201 | 12.66 | 4,927 | 219 | 17.21 | 4,828 | 361 | 10.76 |
| 50 to 74 percent from farming | 20,439 | 1,508 | 15.77 | 10,662 | 351 | 12.66 | 4,699 | 937 | 30.75 | 3,471 | 620 | 17.37 |
| 75 percent and more from farming | 39,870 | 1,509 | 5.33 | 24,042 | 409 | 9.48 | 11,661 | 587 | 20.77 | 9,341 | 832 | 11.24 |
| Negative household income | 18,057 | 1,585 | 11.38 | 11,148 | 384 | 22.37 | 14,431 | 288 | 22.20 | 6,258 | 536 | 13.24 |
| | <i>Sales</i> | | | <i>Sales</i> | | | <i>Sales</i> | | | <i>Sales</i> | | |
| | <i>(dollars)</i> | | | <i>(dollars)</i> | | | <i>(dollars)</i> | | | <i>(dollars)</i> | | |
| Positive household income: | | | | | | | | | | | | |
| Loss from farming | 38,703 | 28,494 | 17.42 | 125,123 | 6,301 | 9.16 | 63,926 | 10,442 | 23.54 | 42,387 | 10,707 | 12.57 |
| 0 to 24 percent from farming | 15,277 | 38,725 | 12.29 | 59,272 | 13,600 | 10.59 | 24,553 | 13,438 | 13.16 | 14,296 | 17,508 | 16.27 |
| 25 to 49 percent from farming | 16,541 | 63,998 | 8.86 | 20,923 | 28,249 | 14.28 | 4,927 | 52,994 | 14.43 | 4,828 | 40,240 | 15.41 |
| 50 to 74 percent from farming | 20,439 | 94,203 | 12.20 | 10,662 | 62,408 | 12.57 | 4,699 | 248,773 | 23.95 | 3,471 | 126,124 | 23.91 |
| 75 percent and more from farming | 39,870 | 199,066 | 12.68 | 24,042 | 124,916 | 10.51 | 11,661 | 236,238 | 14.64 | 9,341 | 234,884 | 13.71 |
| Negative household income | 18,057 | 108,908 | 14.76 | 11,148 | 71,463 | 23.22 | 14,431 | 62,505 | 21.82 | 6,258 | 68,790 | 17.69 |

See footnotes at end of table.

Continued—

Appendix table 18—Farm size, by farm operator household dependency category and region, 1990¹—Continued

| Household dependency category | Southern Plains | | | Mountain | | | Pacific | | |
|-------------------------------------|-------------------|----------------------------|-----------------------------|-------------------|----------------------------|-----------------------------|-------------------|----------------------------|-----------------------------|
| | Expanded count | Mean | RSE of mean ² | Expanded count | Mean | RSE of mean ² | Expanded count | Mean | RSE of mean ² |
| | <i>Farms</i> | <i>Acres</i> | <i>Percent</i> | <i>Farms</i> | <i>Acres</i> | <i>Percent</i> | <i>Farms</i> | <i>Acres</i> | <i>Percent</i> |
| Positive household income: | | | | | | | | | |
| Loss from farming | 136,463 | 249 | 10.37 | 47,016 | 1,203 | 21.92 | 89,066 | 259 | 33.92 |
| 0 to 24 percent from farming | 44,550 | 368 | 14.65 | 11,502 | 1,958 | 21.93 | 11,124 | 769 | 36.10 |
| 25 to 49 percent from farming | 12,933 | 693 | 14.97 | 6,537 | 2,779 | 22.31 | 5,678 | 1,491 | 43.64 |
| 50 to 74 percent from farming | 6,078 | 1,278 | 15.48 | 5,737 | 4,819 | 14.33 | 6,322* | 1,739 | 36.35 |
| 75 percent and more from farming | 12,175 | 1,978 | 16.47 | 22,101 | 5,276 | 16.71 | 14,604 | 3,406 | 29.38 |
| Negative household income | 15,546 | 1,689 | 23.18 | 11,206 | 6,611 | 23.71 | 12,520* | 1,095 | 36.45 |
| | | <i>Sales (dollars)</i> | | | <i>Sales (dollars)</i> | | | <i>Sales (dollars)</i> | |
| Positive household income: | | | | | | | | | |
| Loss from farming | 136,463 | 10,205 | 16.05 | 47,016 | 12,312 | 10.22 | 89,066 | 9,246 | 16.68 |
| 0 to 24 percent from farming | 44,550 | 17,638 | 13.84 | 11,502 | 29,187 | 13.65 | 11,124 | 56,604 | 25.70 |
| 25 to 49 percent from farming | 12,933 | 53,418 | 15.60 | 6,537 | 91,098 | 19.77 | 5,678 | 120,658 | 21.80 |
| 50 to 74 percent from farming | 6,078 | 102,618 | 13.46 | 5,737 | 154,916 | 8.03 | 6,322* | 197,821 | 12.49 |
| 75 percent and more farming | 12,175 | 243,272 | 11.07 | 22,101 | 195,833 | 21.21 | 14,604 | 517,104 | 15.69 |
| Negative household income | 15,546 | 95,523 | 31.12 | 11,206 | 126,311 | 14.73 | 12,520* | 123,832 | 36.94 |

*=The relative standard error for the estimated number of farms reporting exceeds 25 percent.

¹The farm operator household population described in this table differs slightly from the farm operator population. See text for more information.

²The relative standard error (RSE) provides the means of evaluating the survey results. A smaller relative standard error indicates greater reliability of the estimate.

Appendix table 19—Farm size, by farm operator household dependency category and farm organization, 1990¹

| Household dependency category | Corporate | | | Partnership | | | Individual | | |
|-------------------------------------|-------------------|----------------------------|-----------------------------|-------------------|----------------------------|-----------------------------|-------------------|----------------------------|-----------------------------|
| | Expanded count | Mean | RSE of mean ² | Expanded count | Mean | RSE of mean ² | Expanded count | Mean | RSE of mean ² |
| | <i>Farms</i> | <i>Acres</i> | <i>Percent</i> | <i>Farms</i> | <i>Acres</i> | <i>Percent</i> | <i>Farms</i> | <i>Acres</i> | <i>Percent</i> |
| Positive household income: | | | | | | | | | |
| Loss from farming | 6,948 | 786 | 31.19 | 37,718 | 859 | 31.38 | 780,647 | 207 | 6.93 |
| 0 to 24 percent from farming | 3,904 | 2,268 | 29.82 | 12,052 | 1,126 | 25.08 | 251,051 | 259 | 7.71 |
| 25 to 49 percent from farming | 3,269 | 1,963 | 33.16 | 12,635 | 1,222 | 32.02 | 113,138 | 453 | 5.79 |
| 50 to 74 percent from farming | 3,543 | 3,718 | 26.69 | 9,013 | 1,657 | 14.82 | 91,441 | 848 | 9.33 |
| 75 percent and more from farming | 13,665 | 4,688 | 22.48 | 29,377 | 2,385 | 14.80 | 219,976 | 916 | 4.96 |
| Negative household income | 4,973 | 4,565 | 38.20 | 9,205* | 1,737 | 36.97 | 135,466 | 1,049 | 12.16 |
| | | <i>Sales (dollars)</i> | | | <i>Sales (dollars)</i> | | | <i>Sales (dollars)</i> | |
| Positive household income: | | | | | | | | | |
| Loss from farming | 6,948 | 41,754 | 25.51 | 37,718 | 29,797 | 20.90 | 780,647 | 10,613 | 5.04 |
| 0 to 24 percent from farming | 3,904 | 80,126 | 25.61 | 12,052 | 99,505 | 16.17 | 251,051 | 19,651 | 5.41 |
| 25 to 49 percent from farming | 3,269 | 206,856 | 20.22 | 12,635 | 113,879 | 16.45 | 113,138 | 50,677 | 4.85 |
| 50 to 74 percent from farming | 3,543 | 475,895 | 16.00 | 9,013 | 211,342 | 8.93 | 91,441 | 93,408 | 5.85 |
| 75 percent and more from farming | 13,665 | 694,398 | 15.03 | 29,377 | 302,539 | 15.88 | 219,976 | 152,507 | 3.55 |
| Negative household income | 4,973 | 279,292 | 27.75 | 9,205* | 182,924 | 32.42 | 135,466 | 78,266 | 7.56 |

*=The relative standard error for the estimated number of farms reporting exceeds 25 percent.

¹The farm operator household population described in this table differs slightly from the farm operator population. See text for more information.

²The relative standard error (RSE) provides the means of evaluating the survey results. A smaller relative standard error indicates greater reliability of the estimate.

Appendix table 20—Selected characteristics of farms, by household dependency, 1990¹

| Item | Positive household income | | | | | | | | | | | |
|----------------------------------|---------------------------|-----------------|----------------|---------------------------|------------------------------|-----------------|----------------|---------------------------|-------------------------------|-----------------|----------------|---------------------------|
| | Loss from farming | | | | 0 to 24 percent from farming | | | | 25 to 49 percent from farming | | | |
| | Total | Average per | | | Total | Average per | | | Total | Average per | | |
| | | Farms reporting | reporting farm | RSE of total ² | | Farms reporting | reporting farm | RSE of total ² | | Farms reporting | reporting farm | RSE of total ² |
| | 1,000 acres | Number | Acres | Percent | 1,000 acres | Number | Acres | Percent | 1,000 acres | Number | Acres | Percent |
| Acres operated | 199,140 | 825,312 | 241 | 7.34 | 87,518 | 267,007 | 328 | 7.24 | 73,135 | 129,042 | 567 | 8.19 |
| Acres owned | 106,171 | 791,120 | 134 | 4.65 | 46,918 | 241,350 | 194 | 6.01 | 42,566 | 119,021 | 358 | 8.78 |
| Acres rented in | 47,646 | 266,360 | 179 | 5.51 | 30,067 | 109,192 | 275 | 8.91 | 24,275 | 65,594 | 370 | 8.49 |
| Acres rented out | 8,694 | 73,626 | 118 | 14.70 | 4,762 | 37,381 | 127 | 15.02 | 6,587 | 18,567 | 355 | 42.26 |
| Cropland removed from production | 7,242 | 117,436 | 62 | 8.01 | 6,070 | 69,018 | 88 | 10.42 | 5,907 | 55,205 | 107 | 11.25 |
| Govt. programs | 2,432 | 74,588 | 33 | 8.14 | 1,764 | 43,978 | 40 | 18.53 | 1,638 | 42,709 | 38 | 9.18 |
| | 1,000 dollars | Dollars | | | 1,000 dollars | Dollars | | | 1,000 dollars | Dollars | | |
| Gross cash income | 10,601,581 | 729,975 | 14,523 | 4.57 | 7,071,485 | 266,330 | 26,552 | 5.53 | 8,875,159 | 128,974 | 68,814 | 5.63 |
| Livestock sales | 5,674,180 | 516,541 | 10,985 | 6.02 | 3,109,053 | 169,301 | 18,364 | 6.12 | 4,011,183 | 81,877 | 48,990 | 8.33 |
| Crop sales | 3,476,983 | 291,922 | 11,911 | 6.95 | 2,948,612 | 133,026 | 22,166 | 9.08 | 3,609,093 | 78,848 | 45,773 | 7.61 |
| Govt. payments | 631,233 | 136,375 | 4,629 | 6.59 | 471,408 | 81,094 | 5,813 | 8.56 | 552,800 | 65,561 | 8,432 | 8.41 |
| Other farm-related income | 819,186 | 230,769 | 3,550 | 10.66 | 542,412 | 107,832 | 5,030 | 10.81 | 702,083 | 74,789 | 9,388 | 11.63 |
| Cash expenses | 15,250,704 | 825,312 | 18,479 | 3.89 | 5,319,866 | 265,317 | 20,051 | 5.79 | 6,162,671 | 128,733 | 47,872 | 6.21 |
| Net cash farm income | -4,649,123 | 824,804 | -5,637 | na | 1,751,619 | 267,007 | 6,560 | 5.83 | 2,712,489 | 129,042 | 21,020 | 5.60 |
| Net farm income | -1,772,814 | 825,312 | -2,148 | na | 2,139,958 | 267,007 | 8,015 | 5.76 | 2,654,273 | 129,042 | 20,569 | 7.38 |
| Farm assets | 232,072,918 | 825,312 | 281,194 | 10.85 | 71,259,083 | 265,829 | 268,063 | 5.18 | 59,803,471 | 129,042 | 463,441 | 10.22 |
| Liabilities | 24,641,435 | 803,265 | 30,677 | 4.99 | 5,283,446 | 250,934 | 21,055 | 8.17 | 6,699,847 | 125,080 | 53,564 | 8.55 |
| Equity | 207,431,483 | 825,312 | 251,337 | 11.93 | 65,975,637 | 267,007 | 247,093 | 5.31 | 53,103,623 | 129,042 | 411,522 | 11.28 |
| Capital investments | 3,492,697 | 447,792 | 7,800 | 8.55 | 982,784 | 134,920 | 7,284 | 7.72 | 927,883 | 76,684 | 12,100 | 9.15 |
| | 1,000 hours per week | Hours | | | 1,000 hours per week | Hours | | | 1,000 hours per week | Hours | | |
| Labor hours worked | 22,977 | 813,974 | 28 | 3.19 | 8,117 | 262,438 | 31 | 4.90 | 6,255 | 127,812 | 49 | 5.95 |
| Operator | 17,284 | 802,847 | 22 | 2.89 | 6,097 | 258,114 | 24 | 4.53 | 4,460 | 125,339 | 36 | 5.46 |
| Unpaid | 5,693 | 368,056 | 15 | 5.46 | 2,020 | 107,847 | 19 | 8.49 | 1,796 | 65,267 | 28 | 9.25 |

See footnotes at end of table.

Continued—

Appendix table 20—Selected characteristics of farms, by household dependency, 1990¹—Continued

| Item | Positive household income | | | | | | | | Negative household income | | | |
|----------------------------------|-------------------------------|-----------------|----------------------------|---------------------------|----------------------------------|-----------------|----------------------------|---------------------------|---------------------------|-----------------|----------------------------|---------------------------|
| | 50 to 74 percent from farming | | | | 75 percent and more from farming | | | | | | | |
| | Total | Farms reporting | Average per reporting farm | RSE of total ² | Total | Farms reporting | Average per reporting farm | RSE of total ² | Total | Farms reporting | Average per reporting farm | RSE of total ² |
| | 1,000 acres | Number | Acres | Percent | 1,000 acres | Number | Acres | Percent | 1,000 acres | Number | Acres | Percent |
| Acres operated | 105,639 | 103,996 | 1,016 | 8.70 | 335,585 | 262,688 | 1,278 | 6.09 | 180,780 | 149,644 | 1,208 | 10.01 |
| Acres owned | 54,337 | 94,343 | 576 | 12.43 | 127,558 | 229,827 | 555 | 6.93 | 63,465 | 132,346 | 480 | 8.53 |
| Acres rented in | 37,738 | 70,212 | 537 | 8.16 | 126,516 | 185,482 | 682 | 4.77 | 65,494 | 95,352 | 687 | 7.74 |
| Acres rented out | 3,786 | 14,931 | 254 | 22.27 | 8,246 | 20,267 | 407 | 21.61 | 3,277 | 12,484 | 263 | 23.45 |
| Cropland removed from production | 7,738 | 57,266 | 135 | 8.18 | 20,729 | 127,449 | 163 | 7.70 | 7,611 | 52,017 | 146 | 9.48 |
| Govt. programs | 2,351 | 49,157 | 48 | 7.97 | 7,843 | 113,501 | 69 | 11.58 | 2,969 | 43,792 | 68 | 9.17 |
| | 1,000 dollars | | Dollars | | 1,000 dollars | | Dollars | | 1,000 dollars | | Dollars | |
| Gross cash income | 13,350,756 | 103,996 | 128,378 | 6.01 | 56,947,471 | 262,916 | 216,599 | 3.84 | 14,832,623 | 142,657 | 103,974 | 6.15 |
| Livestock sales | 5,931,347 | 65,407 | 90,684 | 7.79 | 28,054,102 | 184,677 | 151,909 | 5.68 | 7,958,611 | 102,493 | 77,650 | 8.65 |
| Crop sales | 5,776,124 | 73,460 | 78,630 | 9.68 | 23,233,765 | 179,064 | 129,751 | 5.28 | 5,123,545 | 82,999 | 61,730 | 9.43 |
| Govt. payments | 763,355 | 65,712 | 11,617 | 8.32 | 2,228,892 | 146,675 | 15,196 | 4.23 | 806,485 | 61,832 | 13,043 | 6.71 |
| Other farm-related income | 879,931 | 76,385 | 11,520 | 12.23 | 3,430,712 | 182,582 | 18,790 | 10.96 | 943,982 | 80,629 | 11,708 | 12.77 |
| Cash expenses | 9,220,480 | 103,996 | 88,662 | 6.64 | 36,936,436 | 263,018 | 140,433 | 4.02 | 18,830,254 | 149,644 | 125,834 | 5.78 |
| Net cash farm income | 4,130,276 | 103,996 | 39,716 | 5.54 | 20,011,035 | 263,018 | 76,082 | 4.18 | -3,997,631 | 149,644 | -26,714 | na |
| Net farm income | 3,837,405 | 103,996 | 36,900 | 6.41 | 18,328,142 | 263,018 | 69,684 | 4.58 | -3,456,212 | 149,644 | -23,096 | na |
| Farm assets | 54,800,955 | 103,996 | 526,952 | 5.17 | 165,434,515 | 262,351 | 630,585 | 3.68 | 84,006,794 | 149,644 | 561,377 | 6.69 |
| Liabilities | 7,799,426 | 102,002 | 76,463 | 6.17 | 29,794,638 | 259,377 | 114,870 | 3.69 | 16,994,423 | 147,979 | 114,843 | 6.51 |
| Equity | 47,001,530 | 103,996 | 451,955 | 5.57 | 135,639,877 | 262,782 | 516,168 | 4.11 | 67,012,371 | 149,644 | 447,812 | 7.73 |
| Capital investments | 1,305,493 | 75,887 | 17,023 | 6.88 | 4,604,663 | 209,829 | 21,945 | 4.92 | 2,029,666 | 104,089 | 19,499 | 8.12 |
| | 1,000 hours per week | | Hours | | 1,000 hours per week | | Hours | | 1,000 hours per week | | Hours | |
| Labor hours worked | 6,589 | 102,799 | 64 | 5.24 | 20,616 | 260,987 | 79 | 3.26 | 9,584 | 148,821 | 64 | 5.32 |
| Operator | 4,885 | 101,381 | 48 | 5.15 | 14,625 | 260,396 | 56 | 3.12 | 6,826 | 147,922 | 46 | 4.99 |
| Unpaid | 1,704 | 50,835 | 34 | 8.59 | 5,991 | 143,658 | 42 | 4.83 | 2,759 | 76,410 | 36 | 8.04 |

na=Not applicable.

¹The farm operator household population described in this table differs slightly from the farm operator population. See text for more information.

²The relative standard error (RSE) provides the means of evaluating the survey results. A smaller RSE indicates greater reliability of the estimate.

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