

SUMMARY OF
ILLINOIS
FARM BUSINESS
RECORDS

2011

Commercial Farms
Production Costs
Income
Investments



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Issued in furtherance of Cooperative Extension Work Acts of May 8 and June 30, 1914, in cooperation with the U.S. Department of Agriculture. Robert Hoeft, Director, University of Illinois Extension, University of Illinois at Urbana-Champaign.

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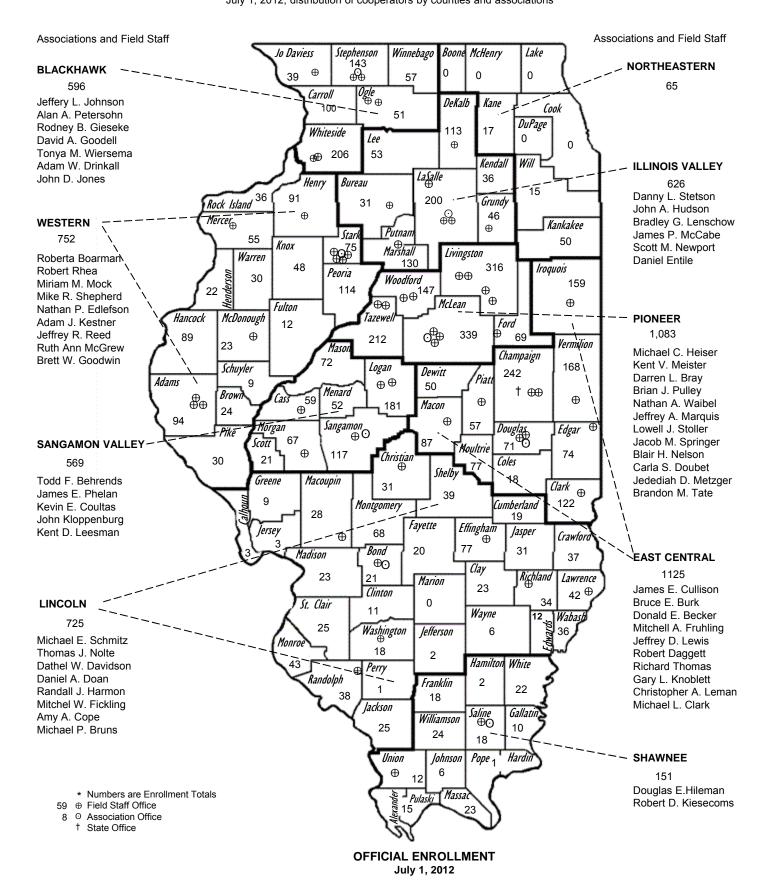


#### ILLINOIS FARM BUSINESS FARM MANAGEMENT ASSOCIATION

cooperating with nine local farm management associations and the

Department of Agricultural and Consumer Economics, College of Agricultural, Consumer and Environmental Sciences, University of Illinois at Urbana-Champaign

STATE TOTAL --- 5,692 cooperating farmers and 59 member field staff\* July 1, 2012, distribution of cooperators by counties and associations



#### **SOURCE OF DATA**

This report is based on data obtained from farm business records on 5,692 Illinois farms. It is the 87th annual summary of such records obtained from farmers cooperating with the University of Illinois Extension, the Department of Agricultural and Consumer Economics, and the Illinois Farm Business Farm Management (FBFM) Association.

At present, about one out of every five Illinois commercial farms with over 500 acres or total farm sales over \$100,000 is enrolled in this service, which grew steadily until 1982. Except for 1988 and 2000, enrollment has declined slightly each year since 1982. One factor contributing to this decline has been the continued decline in the number of farms in the state. In 2011, 9 associations in 102 counties were being served by 59 full-time field staff specialists and two half-time field staff specialists. Participation in this farm business analysis program is voluntary; cooperating farmers pay a fee for the educational services. The program's development since 1940 is shown below.

Year	Associa- tions	Counties involved	Field staff employed	Farmers involved
1940	3	23	3	680
1950	8	59	15	2,760
1960	10	100	33	5,494
1970	10	102	42	6,553
1980	10	102	67	8,205
1990	10	102	70	7,192
2000	9	102	66	6,647
2010	9	102	61	5,775

Estimates for 2011 indicate that over 90 percent of the 5,692 farms covered in this report have total sales over \$100,000. In the 2007 Census of Agriculture, farms selling \$100,000 or more accounted for 94 percent of all sales from Illinois farms.

The segment of Illinois agriculture that includes farms with more than \$100,000 in total sales is often referred to as "commercial farming." In 2007, there were 23,290 farms in Illinois with sales of \$100,000 or more. The figures that follow, taken from the 2007 Census of Agriculture, show that these farms represented about 57 percent of the 40,826 farms with more than \$10,000 in sales. These farms produced more almost 94 percent of the agricultural products sold from Illinois farms.

Total farm sales (\$)	% of all farms, \$10,000+ sales	% of census farms enrolled	No. of farms enrolled	
10,000–99,999	43.0	1.9	329	
100,000-249,999	22.1	8.4	758	
250,000-499,900	17.4	16.6	1,179	
500,000+	17.5	32.3	2,316	

Most of the 2011 recordkeeping farms covered in this report are within the larger groups. There were 14,261 farms identified by the census with more than \$250,000 total sales

in 2007. About a fourth of these farms (24.5 percent) were enrolled in the Illinois FBFM Association. Of the 9,029 farms in the group having from \$100,000 to \$249,999 in total sales, only 8.4 percent participated in the farm record program. Only about 2 percent of the farms enrolled in FBFM had less than \$100,000 in sales. The average acreage size of all farms larger than 180 acres enrolled in FBFM in 2011 was 1,141 acres, compared with an average of 833 acres for all Illinois farms sorted similarly.

This report presents only the operator's share of income and expenses for the farm business. The group averages are identified by size of business, type of farm, and quality of soil found on the farm. Where segments of Illinois agriculture are identified by these criteria, the data from recordkeeping farms may be used with reasonable confidence, even though the recordkeeping farms as a group do not represent a cross section of all commercial farms in the state.

#### **USES FOR THIS REPORT**

The management of a modern commercial farm involves decision making in the application of technology, choosing a proper combination of crop and livestock enterprises, and effective business administration of the farming operations. A basic analysis of a farm business involves a careful study of past performance to detect problems and strengths in the farming operation. Also involved is the process of planning and developing future operations to realize the full potential of the land, labor, and capital resources available and to improve the economic efficiency of the farm business.

The farm business summaries contained in this report are used by individual farmers to analyze their business operations and to develop plans for future farming operations. This report summarizes the information so that specialists involved in agricultural extension, research, teaching, and agribusiness activities may use the data to help them perform their duties effectively. The definition of terms and accounting measures on the following pages will be of assistance in using the data.

The first part of the report (Tables 1 to 8) summarizes selected recent changes in farm income on Illinois farms. It also identifies economic forces and factors that contribute to these changing trends. Some of the data used in the text are drawn from previous issues of this report.

The second section (Tables 9 to 18) presents data on livestock enterprises. This information is the total of operator and landlord data. Beginning in 1995, the cost of production information presented in Tables 12, 14, and 16 excludes those enterprises with an operator–landlord livestock lease, because landlord cost data are not available. The comprehensive and detailed information contained in this section is a valuable resource for anyone interested in livestock production. Because part of the feed grains and roughages produced on Illinois farms is marketed through

livestock, the margins of income from livestock enterprises are important in interpreting the economic results of some farming operations.

The third section (Tables 19 to 23a) discusses costs, returns, financial summaries, land use, and crop yields for different sizes and types of farms in northern, central, and southern Illinois. This section contains only the operator data. It reports on the 33 percent of grain farms that received the highest return to management per dollar of cost and the 33 percent that received the lowest return. It also reports on hog farms with over and under 6,000 hundredweight of pork produced.

#### TERMS AND ACCOUNTING METHODS

#### Soil productivity rating

This rating is an average index representing the inherent productivity of all tillable land on the farm. Individual soil types on each farm are assigned an index ranging downward from 100. All ratings were revised in 1971 to reflect a basic level of management as outlined in University of Illinois Extension Circular 1156, *Soil Productivity in Illinois*. New land values were assigned in 1980. The adjustment of land values brings them to current market levels.

#### Hay equivalents, tons

To get the equivalents, we took the total of 1.0 multiplied by the pounds of hay, 0.45 multiplied by the pounds of hay silage, 0.33 multiplied by the pounds of corn silage, and 24 multiplied by the pasture days per feed unit (which are also multiplied by the total feed units per cow). This total was then divided by 2,000.

#### Sampling technique

Data from all records certified usable for analysis by field staff were aggregated by size (acres or number of cows), type of farm, value of feed fed, and soil productivity rating.

#### Type of farm

Grain farms are farms where the value of the feed fed was less than 40 percent of the crop returns and where the value of feed fed to dairy or poultry was not more than one-sixth of the crop returns. Since 1973, farms with livestock have been essentially excluded from the sample of grain farms in northern and central Illinois in Table 19; since 1978, from the grain farm sample in Table 20; and since 1982, from the grain farm sample in Table 6.

**Hog or beef farms** are farms where the value of feed fed was more than 40 percent of crop returns and where either the hog or beef-cattle enterprise received more than one-half the value of feed fed.

**Dairy farms** are farms where the value of feed fed was more than 40 percent of crop returns and where the dairy enterprise received more than one-third the value of feed fed.

#### **Cost items**

The *value of feed fed* includes on-the-farm grains with the following average prices per bushel: corn, \$6.15; oats, \$3.45; and wheat, \$6.80. Commercial feeds were priced at actual cost, hay and silage at farm values, and pasture at 40 cents per animal unit per pasture day. A "pasture day" represents an intake of about 20 to 25 pounds of dry matter, defined as 16 pounds of total digestible nutrients (TDN) from the pasture used.

*Cash operating expenses* include the annual cash outlays for the following nondepreciable items:

- Fertilizer
- Pesticides
- Seeds (including homegrown seeds)
- Machinery repairs
- Machine hire and lease
- Fuel and oil
- Farm share of electricity, telephone, and light vehicle expenses
- Building repairs and rents
- Drying and storage
- Hired labor
- Livestock expenses
- Taxes
- Insurance
- Miscellaneous expenses

Purchased feed, grain, and livestock are not included because they have been deducted from gross receipts in computing the value of farm production. The interest paid is not included because an interest charge is made on the operator's total farm investment. But the total interest paid by the operator on all debt—operating debt plus longer-term debt—is listed separately in Tables 19 to 23a under "Selected returns and costs per operator tillable acre."

**Power and equipment** includes depreciation, repairs, machine hire and lease, fuel and oil, and the farm share of expenses for electricity, telephone, and light vehicles.

**Labor** includes hired labor plus family and operator's labor, charged in 2011 at \$3,300 per month.

A change in the method of calculating the *depreciation* deduction for machinery and buildings was adapted in 2003 and continued to be used in 2011. Until 2003, the depreciation deduction was based on Internal Revenue Service guidelines; the depreciation expense used for analysis purposes was the same as that used for completing the tax return. As changes in tax law allowed larger and larger write-offs in the year machinery and buildings were purchased, the depreciation method used for analysis was changed to more closely reflect the actual decline in value of machinery and buildings. The new method does not use the additional bonus depreciation or expense election write-off in the year of purchase; it uses instead a slightly longer life and a lower rate than the IRS-allowed methods for tax depreciation. The change in methods does not increase or decrease the total amount of depreciation that can be claimed on an item; it is simply an issue of timing as to when the depreciation is deducted.

*Interest on nonland capital* covers the interest charged at 4.5 percent on the sum of one-half the average of the

January 1 and December 31 inventory values of grain, plus the average of the January 1 and December 31 inventories of remaining capital investment in livestock, machinery and light vehicles, buildings, and soil fertility, plus one-half the cash operating expense, exclusive of interest paid. In Tables 6 and 9, this charge is combined with the land charge or net rent and labeled "interest charge on capital." The average cash interest paid per farm by all farm operators was \$23,571.

**Land charge** or **net rent** is the bare land priced at current land values multiplied by 2.45 percent to reflect net rents received by the landlord.

**Total nonfeed costs** include cash operating expenses, adjustments for accrued expenses and farm produced inputs, depreciation, and charges for unpaid labor and interest including land charge. Purchased feeds and livestock are omitted.

The *basic value of land* (the current *basis*) is adjusted each year according to the index of land prices in Illinois as reported by the United States Department of Agriculture (USDA). The land value index for 2011, using a base earning value of 1979 = 100, was 254.

The *capital account adjustment* includes the gain or loss on capital items sold, less amortization deduction.

#### **Return items**

Crop returns are the sum of grain, seed, and feed sales; the value of homegrown seed used; the value of all feed fed (except milk); government farm program payments received and accrued, including marketing loan gains, countercyclical payments, and loan deficiency payments (LDPs); crop insurance payments received and accrued; and the change in value for feed and grain inventories, less the value of feed and grain purchased.

The *total value of farm production* is the cash and accrued value of sales of products and services, less the cost of purchased feed, grain, and livestock, plus the change in inventory values for grain and livestock, plus the value of farm products used.

**Net farm income** is the value of farm production, less total operating expenses and depreciation, plus gain or loss on machinery or buildings sold. Net farm income includes the return to the farm and family for unpaid labor, the interest on all invested capital, and the returns to management.

Labor and management income per operator is total net farm income, less the value of family labor and the interest—including net rent—charged on all capital invested. This figure, as the residual return to all unpaid operators' labor and management efforts, is divided by the months of unpaid operator labor and multiplied by 12 to reflect income for one operator on multiple-operator farms.

Capital and management earnings are net farm income, less a charge for all unpaid labor. Management return is the residual surplus after a charge for unpaid labor and the interest or land charge on capital are deducted from net farm income.

#### **FARM BUSINESS TRENDS IN 2011**

Illinois agriculture is based largely on crop production, especially corn and soybeans. In 2011, Illinois ranked second in the nation in soybean and corn production. The total value of corn produced on Illinois farms was 16 percent of total U.S. production, while the total value of soybeans produced on Illinois farms was 14 percent of total U.S. production.

#### **Crop production**

Year-to year variations in net income are related to the growing season, crop yields, grain prices, and acres in high-cash-value crops. Wetter conditions in 2011 led to a slower start to planting, with only 34 percent of the crop planted by May 8. This was below the historical 5-year average of 62 percent and well below the 2010 average of 93 percent. Ninety-four percent of the the corn and 59 percent of the soybeans were reported as planted by May 29. Higher temperatures led to faster crop development, which allowed corn harvest to run ahead of the average pace. Soybean harvest was slower in 2011 than in 2010, but it was still above the 5-year average.

Crop yields. In spite of the wet spring and later start to planting, corn yields were the same for 2011 as in 2010. Too much rainfall lowered yields in certain parts of the state, including southern Illinois. The average corn yield for Illinois farms reported by the Illinois Crop Reporting Service was 157 bushels per acre, exactly the same as the previous year's yield. The average for 2007 through 2011 is 168 bushels per acre. Farmers participating in the Illinois FBFM program averaged 167 bushels of corn per acre in 2011, 3 bushels above the year before.

Soybean yields for all Illinois farms were reported at 47 bushels per acre in 2011. This was below the highest on record of 51.5 in 2010, but equal to the 5-year average of 47 bushels per acre. FBFM recordkeeping farms averaged 54 bushels of soybeans per acre in 2011, 2 bushels above their 5-year average. Crop yields on the 5,692 recordkeeping farms covered in this report averaged 6 to 15 percent above the average for all Illinois farms.

Grain prices. Sales for corn and soybeans have been divided between old and new crop sales. The prices received for old-crop soybeans sold during the year averaged \$1.87 to \$2.01 per bushel above 2010 prices (Table 1). Old-crop corn prices received in 2011 averaged \$1.70 to \$1.73 above those received in 2010. New-crop prices received were higher for soybeans and corn compared to the year before. The price received for new-crop corn averaged \$1.49 to \$1.62 higher than the year before, and new-crop soybeans averaged \$1.36 to \$1.79 higher. Wheat sold for \$1.10 to \$2.01 more per bushel during the year. Except for southern Illinois old-crop corn that was sold at the inventory price, prices received for both old-crop corn and old-crop soybeans sold in 2011 were below their inventory prices, resulting in a negative marketing margin and lower crop

returns. The year-end, new-crop inventory price for corn was 25 cents higher than the year before; for soybeans it was \$2.25 lower. Both corn and soybean prices have been high enough that neither crop was eligible for loan deficiency payments. The national average marketing year price for corn and soybeans will be high enough that producers will not receive a countercyclical payment.

*Crop Production.* Corn production totaled 1.95 billion bushels in 2011, the same as the previous year. The final yield was 157 bushels per acre, which was also the previous year's yield. The yield for the 2011 soybean crop was 47 bushels per acre, 4.5 bushels below the 2010 yield of 51.5 bushels per acre. Production totaled 416 million bushels, 11 percent below the previous year.

The 2011 yield for sorghum for grain was 91 bushels per acre, 5 bushels below the yield in 2010. Sorghum production, at 1.82 million bushels, was down 43 percent from the previous year. The yield for the 2011 winter wheat crop was 61 bushels per acre, 5 bushels per acre more than the previous year. Total production was 46.7 million bushels, 182 percent above the 2010 production of 16.5 million bushels. The oats yield, at 68 bushels per acre, was 3 bushels above 2010. Production of all hay in 2011 was 1.58 million tons, 18 percent below 2010. Alfalfa hay production was down 26 percent, to 952 thousand tons. All other hay production stayed the same at 624,000 tons. The alfalfa yield decreased from 3.8 to 3.4 tons per acre, while all other hay yields stayed at 2.4 tons per acre.

#### Livestock production

Two major determinants in farm income are the price farmers receive for livestock and livestock products and the value of feed fed in producing livestock. Gross returns to hog, feeder pig finishing, dairy, beef cow, and feeder cattle enterprises were higher in 2011 compared to 2010. With higher gross returns, returns above feed cost were higher for all livestock enterprises. In 2011, the average prices received by farm recordkeepers in the Illinois FBFM Association were 21 percent higher for hogs and fed cattle and 25 percent higher for milk than they were in 2010 (Table 1). The prices paid for all weights of feeder cattle purchases averaged 24 percent above the 2010 price for feeder cattle, and feeder pigs weighing below 20 pounds averaged 19 percent above the 2010 price. Higher returns and slightly higher feed costs resulted in returns above feed and purchased animals for feeder cattle enterprises to increase from \$35.94 per hundredweight produced to \$36.77 (Table 10). This is the above the 5-year average and is the highest in 5 years. Mainly due to the higher price received, returns for farrow-to-finish hog producers increased returns above feed costs to \$20.18 per hundredweight produced in 2011. This was above the 5-year average and the highest in 5 years. Higher milk prices caused dairy returns above feed cost per cow to increase from \$1,506 in 2010 to \$2,205 in 2011. This is above the 5-year average and the second highest in the last 5 years. Returns for beef cow herds with calves sold increased to \$189, which is above the 5-year average.

#### Labor and management income

The average operator's share of labor and management income for the 5-year period from 2007 through 2011 on all northern Illinois grain farms (located north of a line from Kankakee to Moline) was \$151,505 (Table 2). Operators on about 1,500 grain farms in central Illinois had 5-year average earnings of \$144,696. Central Illinois occupies the area between the Kankakee–Moline line in the north and the Mattoon–Alton line in the south. Better growing conditions in the last couple of years have led to larger earnings from crops.

The grain farms in northern Illinois averaged 995 tillable acres per farm, compared with an average of 1,102 tillable acres on grain farms in central Illinois. The figure for labor and management income varies considerably with the location and type of farm. For the period from 2007 through 2011 grain farms, operators in southern Illinois averaged \$126,713 for labor and management. This average increased by \$18,740 compared with the average for the 5-year period from 2006 through 2010.

When the average earnings on Illinois grain farms for the 5-year period from 2007 through 2011 are compared with the earnings from 2006 through 2010, earnings increased in all areas of the state. The average for the 5-year period from 2007 through 2011 increased 30 percent in northern Illinois, 20 percent in central Illinois, and 17 percent in southern Illinois as compared to the 5-year period 2006 through 2010. The 2011 return to operator's labor and management for all areas of the state except southern Illinois was significantly higher than the 2010 earnings and above the 2006–2010 5-year average. The year dropped from the 5-year average, 2006, averaged about \$133,000 lower earnings than in 2011.

Table 1. Average Prices Received and Paid by Farm Recordkeepers for Grain, Livestock, and Milk

	201	1	20	10
	Northern & central	South- ern	Northern & central	South- ern
Grain prices per bushel Sold				
Corn, old crop Corn, new crop Soybeans, old crop Soybeans, new crop Wheat	\$ 5.33 5.66 11.81 12.06 6.60	\$ 5.50 5.82 12.08 11.80 6.78	\$ 3.60 4.17 9.94 10.27 4.59	10.07 10.44
Livestock prices per cwt Hogs, all weights Fed cattle, all weights Feeder cattle, all weights,				3.24 2.41
prices paid	6	7.73	6	6.86 1.38 9.44
Milk per cwt	20	0.35	1	6.30

When average earnings on Illinois livestock farms for the 5-year period from 2007 through 2011 are compared with the earnings from 2006 through 2010, earnings increased for all livestock enterprises. The average for the 5-year period from 2007 through 2011 increased 34 percent for hog farms, 153 percent for beef farms, and 50 percent for dairy farms as compared to the 5-year period 2006 through 2010.

In 2011, the labor and management income for all areas of Illinois averaged \$223,449 per farm. This figure is \$63,331 above the 2010 state average. Returns averaged \$68,412 above the average for the 5-year period 2007 through 2011. Higher crop prices were the main reason for the higher incomes. The new crop grain prices resulted in minimum farm program payments in 2011, just like in 2010.

Corn yields were slightly above the yields recorded the year before. The average corn yield on the 2,674 farms in 2011 was 167 bushels per acre, 3 bushels higher than the 2010 yield. The average soybean yield in 2011 was 54 bushels per acre, 1 bushel lower than the 55 reported in 2010. Corn and soybean yields were generally highest in central and northern parts of the state. Too much rainfall lowered yields in certain parts of the state, including southern Illinois. The average corn yield was the second lowest in

Table 2. Operator's 5-Year Average Share of Labor and Management Income by Size and Type of Farm, 2007 Through 2011

	Tillable acres per farma					
	Under 500	500 to 799	800+	All		
		Northe	ern Illinois	_		
Tillable acres	347	639	1,580	995		
Labor and manage	ment earn	ings by type	of farm			
Grain	\$49,166	\$105,009	\$239,137	\$151,505		
		Centra	al Illinois			
Tillable acres	356	656	1,484	1,102		
Labor and manage						
Grain <sup>b</sup>	\$60,193	\$102,223	\$211,805			
Grain <sup>c</sup> All	47,569 53,468	92,765	158,747 190,388	118,131 144,696		
		South	ern Illinois			
Tillable acres	344	658	1,652	1,312		
Labor and manage	ment earn	ings by type	of farm			
Grain	\$33,140	\$67,524	\$158,674	\$126,713		
	Illinois livestock					
Labor and manage	ment earn	ings by type	of farm			
Hog Beef	<sub>.</sub> d d	d d	\$75,756	\$62,287 32,754		
Dairy	d	d	d	41,821		

aTillable acres.

the last five years, and the average soybean yield was the second highest on record.

Year-end inventory price for the 2011 corn crop of \$5.75 per bushel was 25 cents per bushel higher than a year earlier. Soybeans were inventoried at \$10.75 per bushel, \$2.25 lower than December 31, 2010. The average sales price received for the 2010 corn and soybean crop sold in 2011 was below the inventory price, resulting in a negative marketing margin. Crop returns averaged \$899 per tillable acre, \$144 per acre higher than the 2010 crop returns. The average crop returns per acre were at an all-time high.

The income or salary of the farm operator, whether tenant or part-owner, is the return for the labor and management provided by the operator. The level of income received is a measure of overall farming efficiency and includes compensation for the risk involved. The income includes the operator's gross sales and the net change in inventory. This income is reduced by operating expenses, depreciation, a charge for unpaid family labor, 4.5 percent interest on nonland investment, and a land-use charge equivalent to the average net rent received by landowners for crop-share leases from 2007 to 2010.

Whenever the income figures in Table 2 fall below the amounts required for living expenses and income and Social Security taxes, operators must use the charges deducted for interest on equity capital to pay these expenses. If we assume that \$75,000 is needed to pay living expenses and income and Social Security taxes, figures for the lowest 5-year average labor and management income indicate that the average farm operator's family uses up to \$42,000 of the return for equity capital, depending on location and type of farm. Some average labor and management incomes were high enough that the operator did not need to use any of the return for equity capital to meet living expenses. Using part of the return to equity to pay family living expenses indicates that farm operators are not receiving a competitive return for either their labor and management or their equity in the business. Offfarm income could be used to pay for some living expenses.

#### **Financial characteristics**

The Farm Financial Standards Council has identified several key measures to analyze the financial strength of a farm business. These measures are in the areas of liquidity, solvency, profitability, and financial efficiency. The averages for these key measures for 2,510 Illinois farms can be found in Table 3. These measures are also calculated by farm type. Due to the effects that weather and other outside factors may have on a farm business for any one year, it is better to monitor these measures over time and to identify trends than it is to rely too heavily on these measures for any one year when making business decisions. More detail and in-depth analysis of these financial characteristics can be found in *Financial Characteristics of Illinois Farms*, published by the Department of Agricultural and Consumer Economics at the University of Illinois.

<sup>&</sup>lt;sup>b</sup>Highly productive soils with soil productivity ratings from 86 to 100.

<sup>&</sup>lt;sup>c</sup>Heavy-till and transition soils with soil productivity ratings from 56 to 85.

dData not available.

Liquidity is an assessment of a farm's ability to meet current cash-flow needs. The amount of working capital and the current ratio (current assets divided by current liabilities) are two measures of liquidity. The average amount of working capital as of December 31 for the 2,510 farms was \$340,554, up over \$70,000 from \$270,477 a year earlier. Grain farms had the greatest working capital, averaging \$347,640, while dairy farms had the least, averaging \$86,305. Most of the assets of a dairy farm—the dairy herd, buildings, and land—are noncurrent assets. The average current ratio for all the farms was 2.76, up from 2.54 a year ago. Grain farms and hog farms recorded the highest (most healthy) current ratio, and beef farms the lowest. The 2011 current ratio was the highest for any year during the last 15 years.

**Solvency** is a measure of the farm's overall financial strength and risk-taking ability. The average net worth of the 2,510 farms at the end of 2011 was \$2,287,223, up from \$1,946,075 the year before. Average farm and nonfarm incomes in 2011 were above family living requirements, thus enabling net worth increases. Increasing land values have also boosted net worths for those operators who own land. Grain farms had the highest net worth, followed by hog farms, with dairy farms recording the lowest. The debtto-farm equity and debt-to-farm asset indicators show how debt capital is combined with equity capital. This is useful in looking at the risk exposure of the business. The average debt-to-farm asset percentage for all farms was 19.8. The debt-to-farm asset percentage ranged from 19.7 for grain farms to 24.6 for beef farms. The average debt-to-farm asset level of 19.8 was at its lowest level for at least 15 years.

A measure of a farm's *profitability* is useful in examining its ability to meet family living demands and retire term debt. It is also useful in measuring the farm's ability to

utilize assets and equity to generate income. The average return on farm assets for the 2,510 farms was 9.5 percent, up from 8.1 percent a year earlier. Hog farms recorded the highest returns, averaging 10.0 percent, while beef farms recorded the lowest, averaging 2.7 percent. Return on farm equity in 2011 ranged from 11.6 percent for grain farms to 2.2 percent for beef farms. The average was 11.5 percent, up from 9.6 percent in 2010.

The interest, operating, and depreciation expense ratios relate these various expense categories as a percentage of the value of farm production. The farm operating income ratio measures the return to labor, capital, and management as a percentage of the value of farm production. These measures can be used to evaluate the financial efficiency of the farm business. The interest-expense ratio averaged 2.1 percent for the 2,510 farms, ranging from 2.0 percent for grain farms to 5.2 percent for beef farms. The 2.1 percent was down from 2.7 percent in 2010. The 2011 figure is the lowest since at least 1995. The farm operating income ratio ranged from a high of 35.3 percent for grain farms to 25.2 percent for beef farms. The average for all farms in 2011 was 35.0 percent, up from 32.4 percent in 2010. The 2007 through 2011 5-year average farm operating income ratio is 31.1 percent. The 2011 farm operating income ratio is above the 5-year average.

#### Family living expenditures

Total cash living expenditures for a sample of 1,273 Illinois sole-proprietor, farm-operator families in 2011 averaged \$71,929 (Table 4). This figure is 6.4 higher than the 2010 average. Capital purchases for family living expenses of \$7,729 include the family's share of the auto, plus items that exceed \$250 and will last more than 1 year. Capital

Table 3. Financial Characteristics of Illinois Farms for 2011 by Type of Farm

	All farms	Grain farms	Hog farms	Dairy farms	Beef farms
	All lallis	Ciain lainis	riog iairiis	Daily laillis	Deeriaiiis
Number of farms	2,510	2,400	33	53	24
Liquidity					
Working capital	\$340,554	\$347,640	\$306,510	\$86,305	\$119,745
Current ratio	2.76	2.78	2.78	2.14	1.94
Solvency					
Net worth (market)	\$2,287,223	\$2,312,272	\$2,278,982	\$1,396,514	\$1,760,727
Debt-farm equity (%)	24.6	24.5	28.1	30.7	32.6
Debt-farm asset (%)	19.8	19.7	21.9	23.6	24.6
Profitability					
Farm operating income	\$233,146	\$236,336	\$259,531	\$122,105	\$123,070
Return on farm assets (%)	9.5	9.6	10.0	6.2	2.7
Return on farm equity (%)	11.5	11.6	10.2	6.4	2.2
Financial efficiency					
Interest expense ratio (%)	2.1	2.0	3.4	4.4	5.2
Operating expense ratio (%)	55.1	54.9	58.2	58.8	61.1
Depreciation expense ratio (%)	6.6	6.6	4.7	7.6	7.7
Farm operating income ratio (%)	35.0	35.3	32.4	28.6	25.2
Asset turnover ratio	0.33	0.33	0.33	0.26	0.23

purchases for family living were 9.7 percent of the total cash outlay for all family living expenditures in 2011.

The average farmer in this sample paid \$22,749 in interest in 2011 on operating, machinery, and long-term real estate debts. This interest expense was 4.8 percent of total operating expense (including interest paid) and 3.4 percent of total farm receipts. The average amount of interest paid in 2011 was \$361 more than the amount paid in 2010. Here are the most significant financial facts about 2011:

- Net farm income plus net nonfarm income was \$178,805 more than the sum of family living capital purchases, total living expenses, and payments for income and Social Security taxes. This compares to the 5-year average of total income averaging \$120,037 more than family living expense and taxes for the period 2007 through 2011. The 2011 figure is the largest positive margin ever.
- Net nonfarm income averaged \$35,454 and was the second highest amount since this study began. This was \$522 less than the 2010 figure of \$35,976.
- Capital purchases were \$104,621, compared to \$84,055 in 2010, or 24 percent more. They were \$21,331 higher

- than the average for 2007 through 2011 and at their second highest level ever.
- The amount of money borrowed exceeded principal payments for the 23nd year in a row. Money borrowed exceeded principal payments by \$28,101. For the 2007 through 2011 time period, money borrowed has exceeded principal payments by an average of \$30,420.
- Of the total living expenses—excluding family capital purchases—charitable contributions accounted for 4 percent, life insurance 5 percent, medical expenses 13 percent, and family living expendables the remaining 78 percent.
- Income and Social Security taxes paid decreased by \$338, and the total amount of taxes paid, \$19,726, was \$2,287 above the 5-year average for the period 2007 through 2011.
- Medical expenses averaged \$9,332. This is the first time the average has exceeded \$9,000. Expenses were 4.4 percent higher than the year before.

The 2011 records from 3- to 5-member families were sorted into high one-third and low one-third groups according to total living expenses (Table 4). The total cash living

Table 4. Average Sources and Uses of Funds Over a 4-Year Period and by Noncapital Living Expenses for Selected Illinois Farms

	All records, average per farm			ırm	Family of 3 to 5, 2011a		
	2011	2010	2009	2008	High-third	Low-third	
Number of farms	1,273	1,200	1,164	1,176	182	182	
Age of operator	55	55	54	54	51	49	
Number in family	2.9	2.9	3.0	3.0	3.9	3.8	
Net farm income	\$242,735	\$176,886	\$ 76,697	\$194,207	\$324,971	\$225,667	
Source of dollars							
Net nonfarm income	\$ 35,454	\$ 35,976	\$ 34,567	\$ 30,913	\$ 47,155	\$ 26,274	
Money borrowed	398,860	361,671	340,794	368,663	567,796	331,285	
Farm receipts	669,116	<u>563,312</u>	<u>568,554</u>	<u>581,949</u>	<u>865,192</u>	<u>613,715</u>	
Total sources\$1	1,103,430	\$960,959	\$943,915	\$981,525	\$1,480,143	\$971,274	
Use of dollars							
Interest paid	\$ 22,749	\$ 22,388	\$ 22,664	\$ 25,387	\$ 28,972	\$ 20,819	
Cash operating expenses	451,756	388,256	389,334	409,072	585,329	437,281	
Capital farm purchases	104,621	84,055	85,120	82,684	128,022	91,206	
Payments on principal	370,759	327,000	319,492	332,573	509,826	289,547	
Income & Social Security taxes	19,726	20,064	20,671	15,770	22,135	15,447	
Net new savings and investments	54,161	44,987	34,200	43,352	79,138	64,767	
Contributions	3,066	2,935	2,788	2,667	4,253	1,799	
Medical expenses	9,322	8,928	8,579	8,328	13,100	5,966	
Life insurance	3,702	3,442	3,431	3,202	5,363	2,527	
Expendables	<u>55,839</u>	52,300	_50,369	50,975	92,838	<u>36,331</u>	
Total living expenses	\$(71,929)	\$(67,605)	\$(65,167)	\$(65,172)	\$ (115,554)	\$(46,623)	
Living—capital purchases	7,729	6,604	<u>7,267</u>	<u>7,514</u>	11,167	<u>5,584</u>	
Total uses\$	1,103,430	\$960,959	\$943,915	\$981,525	\$1,480,143	\$971,274	

<sup>&</sup>lt;sup>a</sup>Records were sorted into thirds according to total noncapital living expenses.

expenses for the high-third group averaged \$115,554, compared with \$46,623 for the low-third group. The high-third group had gross farm receipts of \$865,192, compared to \$613,715 for the low-third group. The results indicate that the high-third group had more nonfarm taxable income and a higher net farm income. When net farm income is added to net nonfarm income, and total family living expenses (including capital purchases for family living) and payments for income and Social Security tax are subtracted, the high-third group had \$38,983 more remaining than the low-third group. The high-third group had a balance remaining of \$223,270 compared to \$184,287 for the low-third group.

Living expenses included cash expenditures for food, operating expenses, clothing, personal items, recreation, entertainment, education, transportation, life insurance, contributions, and medical expenses.

The sample of 1,273 represents slightly smaller farms than the average size of all recordkeeping farms in the state. Management was considered slightly above average. In view of these factors, average total living expenses for all recordkeeping families (excluding capital purchases) are estimated to be between \$61,100 and \$57,500, or 15 to 20 percent below the average total living expenses of these 1,273 Illinois farms. When the \$35,454 net nonfarm income for 2011 is used for living expenses, the remaining \$44,204 must be generated from the farm business to pay the \$79,658 used for total living expenses, including family living capital purchases. The figure of \$44,204 amounts to 6.6 percent of total farm receipts.

#### **Income changes on Illinois farms**

The average operator's net farm income for all farms in 2011 was \$273,508; it was \$206,557 in 2010 (Table 5). The 2011 net farm income was the highest for any year out of at least the last 10 years. Operator net farm incomes decrease steadily as a higher percent of gross farm returns is used to pay interest. Frequently, when more than 20 percent of the gross farm return is used to pay interest, the operator's net farm income is usually negative. Interest paid as a part of

gross farm returns for all operators averaged 2.8 percent in 2011, 3.3 percent in 2010, 3.8 percent in 2009, 3.7 percent in 2008, and 4.5 percent in 2007. The 2.8 percent figure for 2011 was one of the lowest for any year during the last 20 years.

Comparative costs and returns between years and among major types of farming operations are reported in Tables 6 and 8. The sample consisted of grain, hog, beef, and dairy farms having between 340 and 799 acres, or an average of 562 tillable acres. Labor available on farms of this size averaged 11 months on grain farms, 24 months on hog farms, 17 months on beef farms, and 39 months on dairy farms. These tables contain only operator data; landlord data are not included.

Size of farm, type of farm, and managerial inputs have been held reasonably constant by the sampling procedure used in selecting farms in each category. Variations among figures for 2011 are due to changes in farm prices and to costs, weather, and internal farming adjustments. The data in Tables 6 and 8 are particularly helpful for comparing types of farming and for evaluating changes in farm costs and returns for a particular size and kind of farm. The data do not reflect overall farming adjustments due to the enlargement of farms or to major changes in the use of resources.

The figure for net farm income comprises returns to the farm family for all unpaid labor, interest on all invested capital, and the managerial inputs used in farming. Changes in the value of farm inventories and the value of consumed farm products are included as income. Net farm income is calculated by accounting methods comparable to the accrual method used in calculating taxable farm income for the federal income tax. An important difference in the accrual method of income tax accounting should be noted: the inclusion of interest paid as a farm expense. The operator's share of net farm income has the interest expense deducted from it.

The figures for net farm income are the amounts available from the farm business for living costs, income and Social Security taxes, debts, new investments, and savings. New capital investments for the farm business have been

Table 5. Percent of Illinois Farms and Operator Net Farm Income by Interest Paid as a Percent of Gross Farm Returns, 2007 Through 2011

		Interest paid as a percent of gross farm returns						
	Under 1	1–4.9	5–9.9	10–14.9	15–19.9	20+	All	
Percent of farms								
2007	20	44	26	7	2	1	100	
2008	26	48	20	4	1	1	100	
2009	27	44	21	6	2	2	100	
2010	30	47	18	4	1	1	100	
2011	33	51	13	3	a	a	100	
Net farm income								
2007	218,989	238,415	196,869	117,821	66,360	7,915	209,165	
2008	206,858	238,747	178,563	108,000	108,000	(8,605)	209,282	
2009	112,117	100,968	43,720	4,597	(9,926)	(56,892)	82,153	
2010	228,631	223,151	168,639	94,621	54,423	6,334	206,557	
2011	267,886	300,237	219,052	148,385	17,090	23,841	273,508	

aLess than 1 percent.

included with total cash expenditures. Although the cash balance reflects the cash position of the farm businedss, the figure is influenced by purchases and sales of feed and livestock and by changes in liabilities and borrowed funds.

*Grain farms.* The operator's net farm income for Illinois grain farms having 340 to 799 acres and no livestock averaged \$156,950 in 2011 (Table 6). This income was \$37,453 above that of 2010, and \$43,381 above the 5-year average income for 2007 through 2011. The 2011 net farm income was the highest in the last 30 years. The value of farm production averaged \$430,675, which was \$71,574 above 2010 and \$80,316 above the 2007-11 average. The 2011 value of farm production was the highest since this study began. The value of farm production included a \$46,358 increase in inventory values compared to 2010, when the inventory value increased by \$47,209. Net cash operating income (adjusted gross) was \$383,878, \$65,175 higher than the 5-year average. Total cash operating expenses were \$52,215 higher than the year before, while depreciation of \$25,881 was 16 percent higher than the year before and 35 percent higher than the 2007–11 average. Total cash operating expenses were one of the highest on record.

Incomes were considerably higher on these farms in 2011 compared to 2010. Higher prices were the main factor for the higher incomes. The average soybean yield on these farms in 2011 was 54 bushels per acre, compared to 55 the year before. The average corn yield was 169 bushels per acre, compared to 165 the previous year. Corn was inventoried 25 cents higher at the end of 2011 compared to the beginning; soybeans were inventoried \$2.25 lower. The higher quantities in ending inventory caused the value of inventories to increase \$46,358 at the end of the year compared to the beginning. Crop returns averaged \$899 per tillable acre in 2011 compared to \$755 in 2010. Crop expenses per acre increased 16 percent. This was the third year for the new government farm program. A new part of this program was the Average Crop Revenue Election (ACRE) Program. Producers would receive a payment the following year after the year of production if the state trigger and farm triggers are met. This program is voluntary, and producers who signed up for it had 20 percent less direct payment rates. Producers receive a guaranteed direct payment based on their program yield, base acres, and a set payment rate per bushel. Countercyclical payments are made if market prices fall below a certain "trigger level." Countercyclical payments are not expected for corn, soybeans, or wheat for the 2011 crop. As in the old program, producers can also receive loan deficiency payments (LDPs) or take marketing loan gains when market prices are below the loan rate. All of these receipts are included in net farm income and crop returns. Total tillable land planted to corn and soybeans in 2011 was 95.7 percent, down from 96.1 percent in 2010. Corn acres increased slightly from 54.5 percent of tillable acres in 2010 to 55.3 percent in 2011, while soybean acres decreased from 41.6 to 40.4 percent.

The average prices received in 2011 for new-crop corn and soybeans of \$5.75 and \$11.99, respectively, were higher for corn and soybeans than in the previous year. The average prices received for old-crop corn and soybeans, \$5.43 and \$11.96, respectively, were lower than the inventory price at the beginning of the year for soybeans and corn, but higher than the year before. Capital purchases of \$63,772 in 2011 were \$19,453 more than in 2010 and \$17,825 above the 2007–11 average. Capital purchases were the highest of any year during the last 10 years.

While accrual net farm incomes averaged \$156,950, net cash incomes averaged \$61,798. Management returns were \$91,292 in 2011, compared to \$58,541 in 2010 and the 2007–11 average of \$56,262. Management returns for grain farms were lower than all other farm types in 2011. The value of farm production per man of \$482,632 was the highest for any type of farm. The amount of interest paid of \$11,698 was the lowest for any type of farm in Tables 6 and 8. Operators for these farms owned 26 percent of the land they farmed, crop-shared 34 percent, and cash-rented 39 percent. Of the total labor of 11.1 months, only 1.4 months were hired labor. The total months of labor used on these farms was the lowest for any type of farm.

A study of the cost to grow corn and soybeans on central Illinois farms is summarized in Table 7. These farms had a soil productivity index ranging from 86 to 100. The farms used 98 percent of their tillable land to grow corn and soybeans, with 56.2 percent of the acres in corn and 41.7 percent in soybeans. The table compares 2011 costs per acre with 2010 costs. In 2011, the total cost per acre averaged \$788 for corn and \$591 for soybeans. From 2010 to 2011, the total cost per acre increased 10 percent for corn and soybeans.

Nonland costs of \$3.24 per bushel for corn and \$6.55 for soybeans in 2011 are the most relevant costs for continuing production in the short run, especially where land is free of debt. Total cost to produce a bushel increased for corn and soybeans from 2010 to 2011. Costs per bushel for corn increased due primarily to crop costs, overhead costs, and land costs. Total costs per bushel increased 26 cents for corn and \$1.57 for soybeans. If the 2011 yield for corn had been 190 bushels, the same as the average for the period from 2008 through 2011, the total cost per bushel would have been \$4.15. These costs do not include a charge for management.

The cost of fertility for soybeans was allocated on the basis of phosphorus, potassium, and lime removals, with the residual allocated to corn. The total unpaid labor charge was based on the labor available. The nonland interest rate was 4.5 percent of one-half the average of the beginning- and end-of-year inventory values for the crops on hand, plus one-half the cash operating expenses (excluding interest paid), plus the depreciated value of machinery and buildings. The adjusted net rent was the average net rent received by crop-share landlords as reported on recordkeeping farms for the period 2007 through 2010.

**Hog farms.** The operator's net farm income in 2011 for Illinois hog farms having 340 to 799 acres averaged \$250,427 (Table 6). Net incomes were \$59,410 higher than net incomes in 2010 and \$150,120 higher than the average for the 5-year period from 2007 through 2011. The cash balance on these farms of \$73,745 was \$2,263 more than in 2010 and \$30,361 above the average for the 5-year period from 2007 through 2011. Inventories on these farms increased \$112,197 in 2011, following a \$75,969 increase in 2010. The value of farm production of \$724,802 was \$99,715 more than in 2010 and \$216,655 higher than the average for the 5-year period from 2007 through 2011. Production per farmer was \$458,906. Incomes on hog farms increased in 2011 due to higher prices received for pork and higher crop returns. Depreciation of \$34,541 was \$2,789 higher than in 2010.

Management returns were \$169,440 in 2011 compared to \$134,434 in 2010. Management returns were \$35,006 more than in 2010 and \$134,299 above the average for

2007 through 2011. Management returns for this type of farm were the highest for any other type of farm in Illinois. Capital purchases were \$79,298, which was \$28,515 higher than in 2010 and \$33,697 higher than the average for 2007 through 2011. Farm production per one dollar of nonfeed costs of \$1.27 was the highest for any type of farm in Illinois. Purchased feed and livestock for this group totaled \$518,716,\$95,268 less than 2010. The average interest paid on these farms was \$25,313. That was the second highest of the farms in this size range. Farm operators in this group owned 28 percent of the land they farmed, crop-shared 27 percent, and cash-rented 45 percent. Total labor was 23.9 months, 11.9 months of which was hired. Corn was planted on 59 percent of the acres and soybeans on 34 percent. The average corn yield was 173 bushels per acre and the average soybean yield 60 bushels per acre.

**Beef farms.** The operator's net farm income for Illinois beef farms having 340 to 799 acres averaged \$213,208 in 2011 (Table 6). This figure was \$92,074 higher than the

Table 6. Averages for Selected Total Farm Items on 340- to 799-Acre Illinois Grain, Hog, and Beef Farms

_	Grain farms		Hog farms			Beef farms			
			2007-11			2007-11			2007-11
_	2011	2010	average	2011	2010	average	2011	2010	average
Number of farms	827	804	761	14	23	23	5	9	9
Total acres	602	596	604	616	588	597	580	585	653
Soil-productivity rating	82	82	82	78	81	78	75	73	71
Percent land owned	26	26	25	28	24	23	47	35	43
Percent land crop shared	34	36	37	27	28	25	7	19	14
Percent land cash rented	39	37	37	45	49	52	46	46	43
Cash operating income \$3	394,283	\$318,958	\$326,127	\$1,149,845	\$1,182,606	\$969,562	\$1,207,390	\$859,251	\$688,594
Less purch. feed, lvstk	10,404	6,758	5,457	<u>518,715</u>	613,984	<u>476,400</u>	<u>736,641</u>	463,260	<u>336,177</u>
Net cash op. income \$3	383,879	\$312,200	\$318,703	\$631,130	\$568,622	\$493,162	\$470,749	\$395,991	\$352,417
Accounts rec. change	438	(308)	(77)	(525)	(1,504)	(1,585)	207	(3,791)	(209)
Inventory change	46,358	47,209	<u>31,733</u>	<u>112,197</u>	75,969	<u>34,570</u>	<u>137,418</u>	46,882	12,948
Value of farm prod \$4	130,675	\$359,101	\$350,359	\$742,802	\$643,087	\$526,147	\$608,374	\$439,082	\$365,075
Total cash op. expenses \$2	258,308	\$225,545	\$224,501	\$478,087	\$446,357	\$404,177	\$382,408	\$309,065	\$270,043
Prepaid-unpaid change	(10,464)	(8,253)	(6,822)	(20,253)	(26,039)	(7,834)	(28,460)	(18,853)	(11,090)
Annual depreciation	25,881	22,312	19,111	34,541	31,752	29,497	41,218	27,736	25,977
Net farm income \$1	156,950	\$119,497	\$113,569	\$250,427	\$191,017	\$100,307	\$213,208	\$121,134	\$80,145
Net farm inc. per op'er \$	153,465	\$116,620	\$111,525	\$250,426	\$176,743	\$94,571	\$196,173	\$112,676	\$75,368
Unpaid labor charge	31,869	31,143	29,431	39,671	38,053	36,378	44,880	44,778	39,685
Returns to cap. & mgmt 1	125,080	88,355	84,137	210,756	152,964	63,929	168,327	76,357	40,459
Interest charge on capital	33,788	29,814	<u>27,875</u>	41,316	18,530	28,788	<u>58,518</u>	37,737	44,309
Management returns \$	91,292	\$ 58,541	\$56,262	\$169,440	\$134,434	\$35,141	\$109,809	\$ 38,620	\$ (3,850)
Total cash income <sup>a</sup> \$3	383,878	\$312,200	\$318,703	\$631,130	\$568,622	\$493,163	\$470,749	\$395,991	\$352,417
Total cash expenditures <sup>a</sup> 3	322,080	<u>269,865</u>	270,448	<u>557,385</u>	<u>497,140</u>	449,779	<u>457,858</u>	<u>336,775</u>	<u>316,819</u>
Cash balance\$	61,798	\$ 42,335	\$ 48,255	\$ 73,745	\$ 71,482	\$ 43,384	\$ 12,891	\$ 59,216	\$ 35,598
Capital purchases	63,772	44,319	45,947	79,298	50,783	45,601	75,450	27,710	46,776

<sup>&</sup>lt;sup>a</sup>Includes sales or purchases of capital items.

2010 figure and \$133,063 higher than the average from 2007 through 2011. Higher market cattle prices and increases in crop returns contributed to the higher earnings. Net farm income for these farms was the second highest of any type of farm in the sort. Feed cost per hundredweight produced increased 21 percent, while the average price received for market cattle increased 21 percent in 2011 compared to 2010. The price paid for feeder cattle went up about 24 percent from the year before. The value of farm production for this group of farms averaged \$608,374, or \$169,292 more than in 2010. Cash operating income averaged \$1,207,390, purchased feed and livestock totaled \$736,641, and net cash operating income averaged \$470,749.

Management returns of \$109,809 in 2011 for these farms were the second highest for any type of farm in the acreage range study. Management returns averaged a *negative* \$3,850 for the period 2007 through 2011. Capital purchases were \$75,450 in 2011, compared to \$27,710 in 2010 and \$45,212 in 2009. The 2007 through 2011 average was \$46,776. Depreciation of \$41,218 was \$13,482 above 2010. Cash operating expenses, excluding purchases of feed

Table 7. Average Cost per Tillable Acre to Grow Corn and Soybeans on Central Illinois Grain Farms with No Livestock

	Corn		Soybeans		
-	2011	2010	2011	2010	
Number of farms	659	628	659	628	
Acres grown per farm	717	684	532	542	
Yield per acre, bu	174	168	56	60	
Variable nonland costs					
Soil fertility	\$159	\$122	\$ 55	\$ 42	
Pesticides	50	44	31	27	
Seed	96	95	62	61	
Drying and storage	27	35	5	7	
Machinery repairs, fuel,					
and hire	49	47	45	43	
Total, variable costs	\$381	\$343	\$198	\$180	
Other nonland costs					
Labor	\$ 37	\$ 40	\$ 37	\$ 38	
Buildings	11	10	9	8	
Machinery depreciation.	39	38	35	34	
Nonland interest	51	50	46	45	
Overhead	45	35	42	33	
Total, other costs	\$183	\$173	\$169	\$158	
Total, nonland costs	\$564	\$516	\$367	\$338	
Land costs					
Taxes	\$ 34	\$ 31	\$ 34	\$ 31	
Adjusted net rent	<u>190</u>	<u>170</u>	<u>190</u>	<u>170</u>	
Total, land costs	\$224	\$201	\$224	\$201	
Total, all costs	\$788	\$717	\$591	\$539	
Nonland cost per bu	\$3.24	\$3.07	\$6.55	\$5.63	
Total, all costs per bu	\$4.53	\$4.27	\$10.55	\$8.98	
Average yield, past 4 yrs	190	193	56	55	
Total, all costs per bu	\$4.15	\$3.72	\$10.55	\$9.80	

and livestock, totaled \$382,408. The net cash balance for these farms was \$12,891.

Costs and returns to produce beef from 2008 through 2011, based on a detailed breakdown of individual costs from a selected sample of beef farms, are shown in Table 14. Total returns exceeded total costs in 2011 and 2010, but in 2009 and 2008 total costs exceeded total returns. An analysis of feeder cattle enterprises is discussed in detail under the livestock section.

Farm operators in this group owned 47 percent of the land they farmed. They crop-shared 7 percent and cash rented 46 percent. Operators in this group averaged the second lowest amount of interest paid, \$25,050. They planted 66 percent of their tillable land to corn or corn silage. They also had 10 percent of their tillable land in hay and pasture. These farms used 16.5 months of total labor, with 2.9 of that hired labor. The average corn yield on these farms was 175 bushels per acre and the average soybean yield was 59 bushels per acre. In 2010, corn and soybeans yields on these farms averaged 156 and 52 bushels per acre, respectively.

Farms where beef cattle are raised or fed continue to compete for resources in Illinois where nonmarketable resources—such as roughage, labor, and buildings—or very high levels of management are available. In recent years, this type of farm has survived primarily where large amounts of debt-free capital have been combined with very high levels of management. Higher crop returns have helped them endure the volatile, cyclical nature of the cattle enterprise

*Dairy farms*. The operator's net farm income for Illinois dairy farms having 340 to 799 acres averaged \$200,886 in 2011 (Table 8). This figure was \$52,621 above the 2010 figure and \$81,965 above the 5-year average from 2007 through 2011. The 2011 net farm income for these farms was the highest ever for Illinois dairy farms. The second highest income was recorded in 2007. The farms averaged \$29,491 hundredweight of milk produced.

Higher milk prices and higher crop returns were the main factors for the increase in earnings. The value of farm production was \$736,142, the second highest for any type of farm in Illinois in 2011. This was \$82,442 higher than 2010 and \$138,571 higher than the 2007-2011 average. It was the highest ever for these farms. The value of inventory increased by \$52,098, while cash operating income increased by \$119,911. Cash operating expenses totaled \$492,248, 6 percent more than in 2010. (A detailed breakdown of the cost of producing milk is given in Table 16.) Management returns were \$100,215. Management returns were \$51,357 higher than the 2010 figure and \$72,239 higher than the 5-year average from 2007 through 2011. Management returns were the second lowest for any type of farm in this acreage range. Capital purchases increased to \$111,398 in 2011, compared to \$98,263 in 2010 and \$48,664 in 2009. The 2007 through 2011 average was \$86,568. This is the highest amount of capital purchases ever for these type of farms. Annual depreciation on these farms averaged \$52,896. These farms used 38.5 months of total labor, 20.2 months of which was hired labor. The total labor used was the highest for any type of farm in the state. The average interest expense paid by these operators, \$31,347, was the highest of any farm type.

Farm operators in this group owned 35 percent of the land they farmed and cash-rented 58 percent. About 11 percent of the land they farmed was in hay ground, the highest for any type of farm; 49 percent was in corn and corn silage. Over 96 percent of the value of crop produced was fed to livestock. The average corn yield was 159 bushels per acre for these farms, which is 1 bushel per acre less than in 2010. The average price received for milk in 2011 was 25 percent higher than the average price received in 2010.

#### LIVESTOCK ENTERPRISES

The returns per \$100 of feed fed from various livestock enterprises and the price of corn during each of the past 15

Table 8. Averages for Selected Total Farm Items on 340- to 799-Acre Illinois Dairy Farms

	2011	2010	2007-11 average
Number of farms	26	21	22
Total acres	567	598	566
Soil productivity rating	67	68	69
Percent land owned	35	34	34
Percent land crop shared	7	9	8
Percent land cash rented	58	56	57
Cash operating income	\$860,785	\$740,874	\$700,653
Less purch. feed, lvstk	<u>184,491</u>	<u>141,895</u>	146,132
Net cash operating income	\$676,294	\$598,979	\$554,521
Accounts receivable change	7,750	(2,857)	1,246
Inventory change	52,098	57,578	41,804
Value of farm production	\$736,142	\$653,700	\$597,571
Total cash op. expenses	\$492,248	\$466,576	\$436,787
Prepaid-unpaid change	(9,888)	(10,930)	(3,207)
Annual depreciation	52,896	<u>49,789</u>	45,070
Net farm income	\$200,886	\$148,265	\$118,921
Net farm income per operator	\$152,194	\$126,420	\$96,336
Unpaid labor charge	60,415	52,464	51,890
Returns to capital and mgmt	140,470	95,801	67,031
Interest charge on capital	40,255	46,943	<u>39,055</u>
Management returns	\$100,215	\$ 48,858	\$27,976
Total cash income <sup>a</sup>	\$676,294	\$598,979	\$554,521
Total cash expenditures <sup>a</sup>	603,647	<u>564,839</u>	<u>523,354</u>
Cash balance	\$ 72,647	\$ 34,140	\$ 31,167
Capital purchases	111,398	98,263	86,568

<sup>&</sup>lt;sup>a</sup>Includes sales or purchases of capital items.

years are given in Table 9. This table also shows 15-year and 5-year averages. The difference between the average return figure and a feed cost of \$100 represents the margin available for cash expenses other than feed, labor, depreciation on equipment, interest on investment, and profit.

The margin needed to cover nonfeed costs varies with the kind of livestock and depends on the proportion of total production costs represented by feed. The 15-year averages from 1997 through 2011 represent the approximate level of return at which farmers have been willing to maintain livestock production. The average may not represent a breakeven return on all farms because some farmers may discount market prices for some of the resources used in producing livestock. If farmers already have facilities for livestock, they need only to cover direct operating costs to continue production. However, when livestock production is a new or a long-term enterprise, farmers hope to cover all fixed and variable costs. Otherwise, they should not undertake the enterprise.

#### **Patterns and fluctuations**

As individual farmers try to increase profits, they tend to curtail livestock production when the return per \$100 of feed fed is below the 15-year average. This tendency on the part of producers causes supplies of livestock products to fluctuate.

In farrow-to-finish hog production, returns tend to follow a noticeably cyclical pattern (Table 9). They tend to exceed the 5-year average for 1 or 2 years and then drop below this average for 1 or 2 years. Returns per \$100 of feed fed of \$146 in 2011 were above the 5-year average of \$136. The 2011 return was below the 1997 through 2011 average. The 2011 return of \$146 was the second highest during the last 5 years, while the 2004 and 2005 returns of \$216 were the highest for any year during the last 15 years.

The returns from feeder cattle vary greatly from year to year. The long-run averages shown in Table 9 indicate that the cattle-feeding business has not been paying average market rates for all resources used by the enterprise, although the 2003 through 2005 time period resulted in some of the better returns on record. Table 9 shows the return of \$137 per \$100 of feed fed for the most recent 5-year period (2007 through 2011) to be below the previous 5-year period and only slightly below the 15-year average of \$142. The 2011 return of \$153 per \$100 of feed fed was \$16 above the most recent 5-year average. Above-average skills are needed in buying, selling, and feeding to meet the competition from other uses for time and money on farms with feeder cattle. Identifying cyclical income movements over a 15-year period in the beef-cattle industry is difficult because this industry is more complex and adjusts more slowly than other livestock enterprises.

The average return above feed and purchased animal costs for dairy enterprises of \$2,205 per cow in 2011 was \$468 above the 5-year average of \$1,737 (Table 10). These

returns indicate that the average dairy enterprise has not covered the total estimated cost of production of \$1,924 per cow from 2006 through 2010. The 2011 return per \$100 of feed fed of \$181 was above the past 5-year average of \$175.

For the beef-herd enterprise, the average returns above the cost of feed and purchased animals for the period from 2007 through 2011 showed great volatility. Producers combining the returns of 2008, 2009, and 2010 would have been hard-pressed to cover feed costs. Historically, the beef-herd enterprises generate enough returns to cover cash costs but not total nonfeed costs (Table 10). The implication is that the beef enterprise competes most favorably on farms where the resources of labor, capital, and management are plentiful and have few alternate uses. This enterprise is most commonly found on farms with nontillable pasture that has limited alternative uses. In the beef-cow enterprise, returns above the cost of feed per cow were \$66 during the past 5 years. The 2011 return of \$189 covered feed costs, but not total nonfeed costs, estimated at \$197 per cow.

Raising livestock has become more competitive and specialized. Average profit margins are narrow. Fewer farmers are willing to stay in business, because returns in some enterprises barely cover direct operating costs. As an alternative, more producers are specializing in a certain phase of livestock production and entering contractual arrangements to guarantee a certain return. While these contracts may limit upside potential, they can also reduce risk during times of low prices. Expansion plans that require large investments for new facilities should be based on an estimated return high enough to cover all costs. Fluctuations in livestock returns can involve a risk in low-return years.

#### **Hog enterprises**

The information on farrow-to-finish enterprises in Table 11 is based on a sample of 31 enterprises farrowing 10 litters or more a year. Farms were omitted from the sample if the number of hogs purchased exceeded 10 percent of pigs weaned, which eliminated farms with combined farrowing and feeder-pig operations. (Information on feeder-pig finishing enterprises is given in Table 13.) The average size of farrow-to-finish enterprises on all recordkeeping farms in 2011 was 358 litters. Average pigs weaned per litter of 9.40, was above the 2010 figure of 8.96. The 2,444 pounds of pork produced per litter was 169 pounds higher than 2010. The 2011 records summarized here for the "all farms" group show that the return of \$20.18 above feed costs per 100 pounds of pork produced was 47 cents above the 2010 return of \$19.71. The 2011 return was the highest since 2005.

The 5-year average return above feed costs per 100 pounds produced was \$12.85 (Table 10). Even the 5-year average can vary significantly because of wide fluctuations in returns from year to year. Detailed records show that an average farmer with existing facilities needed a return above feed costs of \$18.90 per 100 pounds to pay for all nonfeed costs in the 2006 through 2010 time period. The return above all costs during this 5-year period of *negative* \$6.05 (\$12.85 minus \$18.90) has led to very little expansion and increase in pork production. Pork production has turned from a profitable industry to an unprofitable one, mainly due to higher feed costs. Despite the negative returns, pork production has continued to increase. Fortunately, strong export demand has supported pork prices. Depending on

Table 9. Returns per \$100 of Feed Fed to Different Classes of Livestock

	Farrow- to-finish hogs (\$)	Feeder pig finish- ing (\$)	Feeder pig produc- tion (\$)	Feeder cattle bought (\$)	Dairy cow herds (\$)	Beef cow herds (\$)	Native sheep raised (\$)	Yearly price of corn (\$)
1997	161	122	238	122	169	116	141	2.71
1998	104	97	279	105	220	107	128	2.31
1999	178	150	374	160	233	149	131	1.97
2000	212	166	327	147	197	141	140	1.89
2001	203	150	331	128	233	138	97	1.94
2002	151	121	433	128	198	130	154	2.19
2003	168	132	314	200	202	148	165	2.30
2004	216	158	287	165	222	178	161	2.49
2005	216	143	347	167	245	170	111	2.02
2006	183	121	349	124	192	137	117	2.41
2007	138	136	249	142	218	111	134	3.42
2008	115	131	149	102	172	86	106	4.70
2009	123	104	a	126	138	109	75	3.76
2010	156	127	a	163	168	135	139	3.86
2011	146	153	a	153	181	145	173	6.15
Averages								
1997–2011	165	134	a	142	199	133	131	2.94
1997-2001	172	137	310	132	210	130	127	2.16
2002-2006	187	135	346	157	212	153	142	2.28
2007–2011	136	130	a	137	175	117	125	4.38

<sup>&</sup>lt;sup>a</sup>Data not available.

Table 10. Variations in Returns to Livestock Enterprise Units, 2007 through 2011

	Hogs (per cwt)	Feeder-pig finish- ing (per cwt)	Feeder cattle (per cwt)	Dairy cattle (per cow)	Beef herd: calves sold (per cow) <sup>a</sup>
Return above cost of feed and purchased animals	,	3 (1 /	\(\frac{1}{2}\)	, ,	7
2007	\$11.04	\$ 6.67	\$21.37	\$2,360	\$ 45
2008	5.84	1.77	1.60	1,775	(51)
2009	7.50	3.46	13.43	838	32
2010	19.71	15.36	35.94	1,506	115
2011	20.18	<u>18.88</u>	<u>36.77</u>	2,205	<u>189</u>
Five-year average	\$12.85	\$ 9.23	\$21.82	\$1,737	\$ 66
Nonfeed costs, 2006 through 2010 <sup>b</sup>					
Direct cash	\$10.23	\$ 6.82	\$14.44	\$1,297	\$134
Other costs	8.67	4.49	<u>13.26</u>	627	_63
Total	\$18.90	\$11.31	\$27.70	\$1,924	\$197

aThe feed cost for beef herds includes up to \$60 of hay equivalent from salvage roughage.

adjustments in pork production levels and to what level feed costs might drop, the pork industry may return to profitability in 2012. Pork production was down 2.4 percent in 2010 and up 0.5 percent in 2011, and it is expected to increase about 2.4 percent in 2012.

The farrow-to-finish enterprise records for 2011 reported in Table 11 were also sorted by the number of litters produced. The group farrowing 350 or more litters averaged 811 litters. Compared with the average feed cost for all farrow-to-finish enterprises, feed cost per 100 pounds of pork produced was \$2.03 lower for the 350-or-more litter group.

The large producers paid slightly less per ton for commercial feed but had better feed conversion. The average price received for hogs sold by large producers, or the net at the farm, was 28 cents more than the average net received by all producers.

A substantial profit margin is required to compensate for the risk and detailed management involved in hog production compared with other resource uses. Large-scale hog production in modern confinement facilities requires high capital investment. The future recovery of this investment is uncertain. The salvage value of confinement hog facilities is low. In addition, acquiring the managerial skills for the large-scale production of hogs in confinement may discourage any rapid expansion of large hog-producing units. Pork production in 2011 increased 0.5 percent due to higher prices received that offset the higher feed costs. Pork production in 2012 is expected to increase compared to 2011. Hog prices have moved up due to decreasing pork production over the last couple of years. Higher feed and fixed costs have increased the cost of production, resulting in lower profit margins.

The data on hog enterprises in Table 12 show a detailed breakdown of costs and returns from a group of specialized commercial hog farms for 2008, 2009, 2010, and 2011. The value of the feed fed to hogs was more than 75 percent of the crop returns produced on these farms. This intensity

of livestock feeding indicates a commitment of major resources to the hog enterprise. The producers in this group probably exercise a higher level of management.

The cost data reported in Table 12 have been divided into two categories: cash costs and other costs. This classification of production costs is important when short-term management decisions are being made concerning the volume of production, particularly during periods of low prices.

As reported in Table 12, cash costs of production in 2011 was \$52.74 per 100 pounds of pork produced. Feed is included as a cash cost, although for some producers a major share of the grain is raised on the farm. The readily available alternative cash market for grain makes raised feed the same as cash.

The other category of costs includes depreciation, labor, and an interest charge on all capital. Part of the labor and interest charge is a cash cost on most farms. The proportion of labor that is hired depends largely on the size of the farm.

Feed costs increased 26 percent as one compared 2011 to 2010. Total nonfeed costs decreased 90 cents per 100 pounds of pork produced with maintenance and power expenses representing most of the decrease. Feed costs increased as grain prices increased. Total cost of production increased from 2010 to 2011 by \$7.83 (15 percent) per 100 pounds of pork produced.

From 2008 through 2011, the return above all costs averaged a *negative* \$4.29 per 100 pounds of pork produced. Management practices, such as the choice of building systems, method of transporting hogs to market, type of market used, and on-versus off-farm systems for feed processing affect the individual cost items reported in Table 12. But the return above all costs should accurately reflect the relative efficiency of the of hog enterprises.

#### Feeder cattle and feeder pig finishing enterprises

Data for 2011 on the feeder cattle and feeder pig finishing enterprises are presented in Tables 13 and 14. These

bEstimates of annual nonfeed costs are based on enterprise cost studies of operative units.

Table 11. Hog Enterprises, 2011 Averages per Farm

<u> </u>		<u> </u>
	All farms	Farrow-to-finish enterprises <sup>a</sup>
Number of farms	31	10
Pork produced, lbs	874,574	2,017,756
Pork prod. per litter, lbs	2,444	2,487
Total returns	\$562,194	\$1,286,895
Value of feed fed	\$385,733	\$849,028
Returns per \$100 feed fed	\$146	\$152
Number litters farrowed	358	811
Pigs farrowed per litter	10.91	11.25
Pigs weaned per litter	9.40	9.65
Litters per female year	1.91	2.00
Pigs weaned per female year	18.12	19.67
Number pigs weaned	3,365	7,826
Death loss, % lbs produced Wt per market	2.4	2.7
hog sold, lbs	267	268
	per c	wt produced
Price received—market	\$65.33	\$65.61
Total returns	64.28	63.78
Feed costs	44.11	<u>42.08</u>
Return above feed	\$20.18	\$21.70
Farm grains/complete feed, lbs	229	221
Commercial feed, lbs	_86	_83
Total concentrates, lbs	314	304
Cost per cwt supplement	\$22.12	\$21.40
Cost per cwt concentrates	\$14.02	\$13.83

<sup>&</sup>lt;sup>a</sup>350 or more litters per farm.

enterprise summaries include weights and values on partly finished animals purchased in previous years and on animals purchased during the current year.

The average amount of pork produced per farm from feeder pig enterprises was 1,471,207 pounds in 2011 (Table 13). At 240 pounds of gain per head, this figure amounted to 6,130 head fed per farm in 2011. These feeder pig enterprises represent those that buy weaner pigs and finish them.

The return above the cost of feed and purchased animals from 2007 through 2011 averaged \$9.23 per 100 pounds of gain. This return was \$2.08 below the \$11.31 of all nonfeed costs for the period 2006 through 2010 (Table 10). The 2011 return of \$18.88 was \$3.52 above the 2010 return and \$9.65 above the 2007 through 2011 return. Higher price received was the main reason for the higher returns.

Given that a 475-pound unit of gain equals one head of feeder cattle, the average of 181,991 pounds of beef produced per farm in 2011 (Table 13) equals 383 head of feeder cattle per farm. That figure is higher than the year before. The return per \$100 of feed for feeder cattle enterprises was \$153 in 2011, in comparison with a 5-year average of \$137 and a 15-year average of \$142 (Table 9). The 2011 returns were the second highest in the last 5 years.

The price paid for feeders was \$25.74 per 100 pounds higher in 2011 than it was in 2010; the price received for cattle sold in 2011 was \$19.62 higher per 100 pounds than the price received in 2010. The average weight of purchased animals was 648 pounds; the average weight of animals sold was 1,281 pounds. Feed cost was \$69.08 per

Table 12. Average Costs and Returns for Farrow-to-Finish Hog Enterprises, 2008 through 2011

	0044	2010	2000	0000	2008–11
	2011	2010	2009	2008	average
Number of farms	9	9	13	14	11
Tillable acres	734	720	602	761	704
Number of litters	736	818	575	614	686
Total returns	\$65.35	\$53.69	\$38.83	\$44.36	\$50.56
			per cwt pork pr	oduced	
Cash costs					
Feed	\$41.68	\$32.95	\$31.92	\$37.07	\$35.91
Operating expenses:					
Maintenance and power <sup>a</sup>	\$ 5.45	\$ 6.39	\$ 4.62	\$ 5.27	\$ 5.43
Livestock expenses	4.22	3.92	3.10	3.92	3.79
Insurance, taxes, and overhead	_1.39	<u>1.36</u>	_1.68	_1.73	1.54
Total operating expenses	\$11.06	\$11.67	\$ 9.40	\$10.92	\$10.76
Total cash costs	\$52.74	\$44.62	\$41.32	\$47.99	\$46.67
Other costs					
Depreciation <sup>b</sup>	\$1.76	\$1.89	\$1.22	\$1.26	\$1.53
Labor		4.59	5.47	4.57	4.77
Interest charge on all capital	<u>1.75</u>	<u>1.75</u>	<u>1.67</u>	2.37	1.89
Total other costs	\$7.94	\$8.23	\$8.36	\$8.20	\$8.18
Total nonfeed costs	\$19.00	\$19.90	\$ 17.76	\$ 19.12	\$18.95
Total all costs	\$60.68	\$52.85	\$ 49.68	\$ 56.19	\$54.85
Return above all costs	\$ 4.67	\$ 0.84	\$(10.85)	\$(11.83)	\$(4.29)

alncludes utilities, machinery, equipment and building repairs, machine hire, and fuel.

blncludes machinery, equipment, and building depreciation

100 pounds produced in 2011; it was \$57.24 in 2010. Feed costs increased in 2011 and were considerably above the last 10-year average. Higher market cattle prices did offset an increase in feed costs of \$11.84 per 100 pounds produced, resulting in higher returns above feed in 2011.

Each 100 pounds of beef produced required 614 pounds of concentrates and 88 pounds of hay. The amount of corn silage used in 2011 averaged 237 pounds; other silage averaged 35 pounds, for a total of 272 pounds. Silage use by the feeder cattle enterprise has been variable in the past 5 years; the 10-year average for the period 1992 through 2001 was 515 pounds per 100 pounds of beef produced, compared to 346 pounds for the period 2002 through 2011. The use of 268 pounds of silage per 100 pounds of beef produced in 2010 was the smallest amount fed since 1963. The high initial investment required for many silage feeding operations may denote more reliance on higher concentrate and dry roughage facilities.

This data does not show the wide variation in profits among cattle-feeding programs. The data on Illinois feeder cattle enterprises in Tables 9, 10, and 13 reflect the composite results of all qualities and ages of cattle fed. The data are heavily weighted, with good to choice calves and yearlings as the predominant cattle feeding system. Most farmers feed more than one drove of cattle each year to better utilize their fixed investments in mechanized feedlots.

The return above the cost of feed and purchased animals averaged \$21.82 per 100 pounds of beef produced from 2007 through 2011 (Table 10). During this period, returns ranged from \$1.60 in 2008 to \$36.77 in 2011. The returns above feed costs are below the estimated cost of \$27.70 per 100 pounds produced required to pay for all nonfeed costs for the average cattle feeder for the past 5 years. The returns above feed costs are up because of the higher returns in 2011.

The data in Table 14 show a detailed breakdown for the period from 2008 through 2011 on costs and returns to produce beef on beef-feeding farms. The farms included had no other livestock. All costs were accounted for, either in crops or in the beef-feeding enterprise. The figure for feed costs is based on the assumption that all the grain and roughage fed was produced on the farm and was marketable.

The data show that these farms were finishing an average of 841 feeders each year from 2008 through 2011. The 4-year average total cash cost including feed and interest charged on cattle, was \$80.73 per 100 pounds of beef produced. The average total returns of \$81.17 for the same period was more than total cash costs by 44 cents per 100 pounds produced, or about \$2.99 per feeder.

Some feeders may be able to discount some of these cash costs for roughage fed and for interest on cattle if they had no market for the roughage or were able to use their own money to invest in cattle without paying interest. Total other costs of \$8.43 per 100 pounds of beef produced, or \$57 per feeder (\$8.43 multiplied by 6.79 hundredweight of

gain per feeder), include depreciation, labor, and interest. Adding the other costs to cash costs results in total costs of \$89.16 per hundredweight over the 4-year period. This was \$7.99 per hundredweight more than the average total returns of \$81.17.

A number of cattle feeders in Illinois apparently will feed cattle as long as their return covers feed and cash costs even if it falls short of paying market rates for some nonmarketable roughage and fixed and overhead costs; however, this number is declining.

Farmers' values, goals, and attitudes have been important in maintaining production, but the dictates of the market, technological changes, and shifts in the basic factors of supply and demand continue to cause changes. The return reflected in these averages for the feeder-cattle enterprise suggests that to be profitable, farmers must produce the kind of beef consumers want at the lowest possible cost. Even though farms may have nonmarketable feeds, unemployed labor, or fixed capital investments in facilities, these data indicate returns are not consistently high enough to justify building new facilities.

#### **Dairy enterprises**

The minimum size for a herd included in this analysis was 10 milk cows. The average herd size on recordkeeping farms increased steadily at an average of 1.8 cows per year, from 42 in 1970 to 63 in 1982. Herd size remained steady, between 63 and 70 cows, up to 1994. From 1994 until 2004,

Table 13. Feeder Cattle and Feeder Pig Finishing Enterprises, 2011 Averages per Farm

	Feeder cattle	Feeder-pig finishinga
Number of farms	84	37
Total lbs produced Total returns	181,991 \$192,637 \$125,715 \$153 2.7 648 \$132.60 \$112.03 1,281	1,471,207 \$798,914 \$521,514 \$153 2.1 13 \$306.73 \$ 65.94 272
	per cv	vt produced
Total returns Feed costs Return above feed	per cw \$105.85 69.08 \$ 36.77	vt produced \$54.30 35.45 \$18.86
Feed costs	\$105.85 69.08	\$54.30 35.45

<sup>&</sup>lt;sup>a</sup>Purchase weight of 20 lbs and less

bData not available

herd size had been between 75 and 85 cows. Since 2004, herd size has been around 100 cows. The 2011 average herd size is 112.8 cows. There continue to be fewer and fewer dairy herds in Illinois. A few dairy producers have decided to expand their herds and make a long-term commitment to the dairy industry.

The return per \$100 of feed fed to dairy cattle in 2011 was \$181. The average for the period from 2007 through 2011 was \$175 (Table 9). In 2011, milk prices per hundredweight increased from \$16.30 to \$20.35. From 2010 to 2011, beef prices for market animals sold increased \$12.36 per hundred pounds, while feed costs increased \$1.53 per milk equivalent. Milk production per cow in 2011 of 21,226 pounds was up 435 pounds from 2010 and the highest on record.

Dairy farmers have reduced the amounts of pasture and dry hay and increased the amounts of grain and silage fed over the past two decades. Pasture days per animal unit dropped from 145 in 1960, to 50 in 1970, to 12 in 2011. This shift indicates that significant pasture days are a thing of the past on nearly all dairy farms in this sample. However, some producers are beginning to experiment

again with intensive rotational grazing as a means of lowering costs.

The herds in Table 15 were divided into groups based on size: the two "high efficiency" groups had 40 to 79 cows and 80 to 149 cows. Efficiency is measured by the return above cost of feed per cow. The larger herds averaged 104 cows, and the smaller herds averaged 59 cows. The return above feed costs per cow was higher for the larger herds, at \$1,913, compared to a return of \$1,091 for the smaller herds. The larger herds averaged 20,424 pounds of milk produced per cow, compared to 10,674 pounds for the smaller herds. Feed cost per milk equivalent was lower for the larger herds, at \$12.19, compared to \$14.73 for the smaller herds.

The average return above feed costs per cow for all dairy herds was \$2,205 in 2011 (Table 15). This figure compares with the recent 5-year average of \$1,737 per cow (Table 10). For the years 2006 through 2010, the 5-year average return above feed costs required to pay market prices for all nonfeed costs is estimated to be about \$1,924 per cow. Although the number of dairy herds has decreased, their size and efficiency have increased, and they have continued to increase the milk supply. Normal depreciation and

Table 14. Average Costs and Returns for Beef-Feeding Enterprises, 2008 through 2011

					2008–11
	2011	2010	2009	2008	average
Number of farms	9	6	6	9	8
Average per farm					
Tillable acres	438	423	423	464	437
Hundredweight beef produced	4,233	4,406	3,479	3,855	3,993
Number head at 475-lb gain equivalents	891	928	732	812	841
Average weight purchased, lbs	497	529	548	697	568
Average weight sold, lbs	1,212	1,216	1,264	1,296	1,247
Price received per 100 lbs sold	\$108.46	\$ 88.40	\$80.14	\$ 92.67	\$ 92.42
Price paid per 100 lbs purchased	\$108.60	\$102.37	\$88.80	\$104.85	\$101.16
		per cv	vt beef produce	ed	
Cash costs		•	•		
Feed	\$75.62	\$55.24	\$58.35	\$62.34	\$63.89
Operating expenses					
Maintenance and power <sup>b</sup>	\$ 8.17	\$ 8.11	\$ 4.38	\$ 6.21	\$ 6.72
Livestock expense	5.97	3.96	3.26	5.60	4.70
Insurance, taxes, and overhead		1.19	1.76	2.52	1.66
Interest on cattle <sup>c</sup>	4.62	4.69	4.64	<u>5.13</u>	4.77
Total operating expenses	\$19.92	\$17.95	\$14.04	\$19.46	\$17.84
Total cash costs	\$95.54	\$73.19	\$72.39	\$81.80	\$80.73
Other costs					
Depreciation <sup>d</sup>	\$ 2.33	\$ 2.10	\$ 2.66	\$ 2.50	\$ 2.40
Labor	5.25	5.15	4.17	3.54	4.53
Interest on other capital	<u>1.81</u>	0.97	1.48	_1.77	1.51
Total other costs	\$ 9.39	\$ 8.22	\$8.31	\$ 7.81	\$ 8.43
Total all costs	\$104.93	\$81.41	\$ 80.70	\$ 89.61	\$ 89.16
Total returns <sup>e</sup>	\$ <u>105.11</u>	\$ <u>84.09</u>	\$ <u>64.87</u>	\$ <u>70.62</u>	\$ <u>81.17</u>
Return above all costs	\$ 0.19	\$ 2.68	\$(15.83)	\$(18.99)	\$(7.99)

aAll grain fed was priced at the average market price for the year. Market values were used for roughage fed, while protein and minerals were charged at cost. All the feed fed is assumed to have been marketable.

blncludes utilities, machinery, equipment and building repairs, machine hire, and fuel.

cInterest is a charge on the average value of beginning- and end-of-year inventories on hand. The rate was 5.5% for 2008, 5.0% for 2009 and 2010, and 4.5% for 2011.

dIncludes machinery, equipment, and building depreciation.

eSales less cost of purchased animals, plus or minus inventory value change. No credit has been calculated for reduced fertility cost when manure is applied to crops.

wear-and-tear will soon require the reinvestment of greater amounts of capital in some of these businesses.

The data in Table 16 on dairy enterprises show a detailed breakdown of milk production costs and returns for dairy farms by the number of cows in the herd from 2009 through 2011. The farms included had no other livestock. All costs were accounted for either in crops or in the dairy enterprise. The total costs for the dairy enterprise were reduced by the amount of income derived from an inventory increase in the pounds of beef produced or sold, which was valued at the average price received for all weights of dairy animals sold from 2007 through 2011. The residual costs, amounting to about 92 percent of the total enterprise costs, were then considered the net cost of producing milk.

The differences between the herds with 40 to 79 cows and those with 80 or more for the period from 2009 through 2011 is a combination of slightly higher returns and lower feed costs for the larger herds. For the 3-year period, the milk price for the larger herds is 41 cents per 100 pounds higher than that for the smaller herds, while feed costs per 100 pounds of milk sold for the larger herds were \$2.74

Table 15. Dairy Cattle Enterprises, 2011 Averages per Farm

		High	efficiency
		40–79	80–149
	All farms	cows	cows
Number of farms	63	19	25
Number of cows	112.8	58.7	104.2
Milk cows dry, %		15.3	10.9
Animal units in herd	217	109	192
Total returns	\$557,412	\$242,877	\$478,758
Value of feed fed	\$308,678	\$178,862	\$279,314
Return per \$100 of feed fed	\$181	\$136	\$171
Return above feed per cow.	\$2,205	\$1,091	\$1,913
Total milk produced, cwt	23,938	10,674	20,424
Lbs of milk per cow	21,226	18,193	19,593
Lbs of butterfat per cow	788	694	730
Total beef produced, lbs	78,054	36,085	82,598
Pounds of beef per cow	692	615	792
Death loss, % lbs produced.	13.0	20.2	12.0
Price received for:			
cwt milk	\$20.35	\$19.87	\$20.56
cwt beef	\$96.17	\$96.01	\$99.76
Per cwt milk equivalenta			
Feed cost	\$11.37	\$14.73	\$12.19
Grain/complete feed, lbs	23	35	24
Protein and minerals, lbs	<u>19</u>	<u>16</u>	_21
Total concentrates, lbs	42	51	45
Hay and dry roughage, lbs	18	33	21
Corn silage, lbs	90	91	84
Other silage, lbs	42	70	43
Pasture days per animal unit	12	9	20
Hay equivalent per cow, tons	8.1	9.6	7.7
Concentrates per cow, lbs	10,021	10,486	9,879

<sup>&</sup>lt;sup>a</sup>Milk equivalent equals value of beef produced divided by average price received per cwt milk plus cwt of milk produced.

lower than for the smaller herds. Total nonfeed costs were 25 cents lower for the larger herds.

In 2011, feed costs per 100 pounds of milk produced increased for small herds (\$3.50) and for large herds (\$2.01). The cost of feed averaged about 54 percent of total production costs in Illinois dairy enterprises. Compared with 2010, total nonfeed costs increased 11 percent for the small herds, whereas the large herds increased by 8 percent. The total cost of producing 100 pounds of milk in 2011 was \$25.84 for the small herds and \$20.38 for the large herds. The average price received for milk in 2011 increased for both groups of dairy enterprises. With higher milk prices, returns still did not cover total production costs for the smaller group in 2011, while returns for the larger group barely did. Returns were a negative \$5.11 per 100 pounds of milk produced for the small herds and 38 cents for the large herds. The returns above all costs per 100 pounds of milk produced had averaged \$3.41 more for the large group than the small group from 2009 through 2011. Dairy assistance payments from the Farm Service Agency and patronage returns related to the dairy enterprise were not included in returns. This would add about 17 cents per 100 pounds of milk produced to returns.

#### **Beef-cow herds**

The minimum size for a beef-cow herd included in Table 17 was 10 cows. Farms combining cow herds and purchased feeder cattle were not included. In addition to all farms, Table 17 gives an analysis of cow herds in which calves were sold at weaning time, comparing them with cow herds in which calves were finished to slaughter weights. From 1956 through 1969, the average size of the herd on all farms ranged from 25 to 30 cows. From 1970 to 1973, the average grew to about 40 cows per herd and remained stable through 1989. Since 2001, the herd size has been about 50 to 60 cows. The herd size was 58 cows in 2011, 3 higher than in 2010. Most Illinois farmers who maintain a beef-cow herd do so as a supplemental enterprise to market nonsalable feeds and labor.

The return per \$100 of feed fed to beef-cow herds where the calves are sold averaged \$145 in 2011. The returns for the 5-year period from 2007 through 2011 averaged \$117, which is below the 15-year average of \$133 for the period from 1997 through 2011 (Table 9). Beef prices received in 2011 averaged \$117.65 per hundredweight, an increase of \$20.63 from prices in 2010. Feed costs per 100 pounds of beef produced increased by \$17.99 to \$83.85 in 2011.

Since 2007, the return above feed costs per cow for the average farmer to feed out calves rather than sell them at weaning has been about \$169 per cow. Additional returns are needed for the added costs of labor, buildings, and capital required to feed out the calves. In 2011, the return above feed costs per cow for feeding calves to market weight was \$370 more than selling them at weaning.

Table 16. Average Milk Production Costs and Returns by Size of Herd, 2009 through 2011

	4	0-79 cows in he	rd	80 o	r more cows in h	erd
	2011	2010	2009	2011	2010	2009
Number of farms	9	7	14	21	18	26
Tillable acres	181	170	196	431	351	445
Number of cows	61.6	57.1	58.8	230.9	187.2	192.3
Milk per cow, lbs	18,431	18,474	18,734	23,736	22,982	22,503
				pounds of milk pr	oduced	
Price received	\$20.73	\$16.46	\$13.16	\$20.76	\$16.44	\$13.39
Cash costs						
Feed	\$15.10	\$11.60	\$10.42	\$10.57	\$ 8.56	\$ 8.94
Operating expenses						
Maintenance and power <sup>a</sup>	2.34	2.29	2.31	2.53	2.03	1.99
Livestock expense	3.17	2.56	2.14	2.79	2.84	2.94
Insurance, taxes, and overhead	<u>0.13</u>	0.20	<u>0.31</u>	0.24	0.20	_0.26
Total operating expenses	\$ 5.64	\$ 5.05	\$ 4.76	\$ 5.56	\$ 5.07	\$ 5.19
Total cash costs	\$20.74	\$16.65	\$15.18	\$16.13	\$13.63	\$14.13
Other costs						
Depreciation <sup>b</sup>	\$ 1.06	\$ 0.85	\$ 0.80	\$ 0.80	\$ 0.65	\$ 0.76
Labor	3.14	2.85	2.55	2.56	2.47	2.50
Interest charge on all capital	0.90	_0.89	0.90	0.89	0.90	_0.89
Total other costs	\$ 5.10	\$ 4.59	\$ 4.25	\$ 4.25	\$ 4.02	\$ 4.15
Total nonfeed costs	\$10.74	\$ 9.64	\$ 9.01	\$ 9.81	\$ 9.09	\$ 9.34
Total all costs	\$ <u>25.84</u>	\$ <u>21.24</u>	\$ <u>19.43</u>	\$ <u>20.38</u>	\$ <u>17.65</u>	\$ <u>18.28</u>
Return above all costs	(\$5.11)	\$(4.78)	\$(6.27)	\$(0.38)	\$(1.21)	\$(4.89)

<sup>&</sup>lt;sup>a</sup>Includes utilities, machinery, equipment and building repairs, machine hire, and fuel.

Table 17. Beef-Cow Enterprises, 2011 Averages per Farm

All farms         sold         fed out           Number of farms         142         59         31           Number of cows in herd         58         59         61           Animal units in herd         a         a         108           Total lbs produced         39,704         24,973         68,360           Beef per cow, lbs         689         420         1,122
Number of cows in herd       58       59       61         Animal units in herd      a      a       108         Total lbs produced       39,704       24,973       68,360
Animal units in herdaa 108 Total lbs produced
Total lbs produced
•
Reef ner cow lhs 689 420 1 122
1,122 Tool por 0011, 103
Total returns
Value of feed fed\$33,291 \$25,073 \$50,929
Return per \$100 feed fed \$157 \$145 \$167
Return above feed per cow \$330 \$189 \$559
Death loss, lbs
% lbs produced
Weight per animal sold, lbs 721 564 1,015
Price per cwt sold – market \$117.65 \$125.85 \$111.38
per cwt produced
Feed costs
Grain/complete feed, lbs
Protein and minerals, lbs <u>78</u> <u>123</u> <u>62</u>
Total concentrates, lbs
Hay and dry roughage, lbs 755 1,057 618
Corn silage, lbs
Other silage, lbs
Pasture days
Pasture days per animal unitaa 114
Hay equivalent per cow, tons 5.5 4.8 6.4

alnsufficient data.

#### **Sheep enterprises**

Sheep production is a minor enterprise on Illinois record-keeping farms. The minimum size of enterprise in Table 18 is 3 animal units. One animal unit of sheep is defined as 750 pounds, liveweight. The return per \$100 of feed fed in 2011 was \$173 for native flocks. The average return for the 5-year period from 2007 through 2011 is \$125 per \$100 feed fed. The pounds of wool and mutton produced per farm have remained fairly constant for the past 10 years. The price received for sheep increased from \$134.33 per hundredweight in 2010 to \$180.25 in 2011, while feed costs per hundredweight produced increased by \$16.72 to \$87.54, or 24 percent. Most Illinois farmers who keep sheep do so as a supplemental enterprise in order to market nonsalable feeds and labor.

<sup>&</sup>lt;sup>b</sup>Includes machinery, equipment, and building depreciation.

Table 18. Sheep Enterprises, 2011 Averages per Farm (Native Flocks)

Number of farms	8
Number of ewes in flock	44
Wool and mutton produced, lbs	8,052
Total returns	\$12,220
Value of feed fed	\$7,049
Return per \$100 of feed fed	\$173
Percent lamb crop	
Death loss, lbs	732
Percent lbs produced	9.1
Weight per market animal sold, lbs	125
per cwt produced	
Price received—market	\$180.25
Feed costs	\$ 87.54
Concentrates, lbs	332
Hay, lbs	556
Pasture days	9
Hay equivalent, lbs	720

# Appendix A

Costs, returns, financial summaries, investments, land use, and crop yields for different sizes and types of Illinois farms are reported in Tables 19 through 23a.

Table 19. 2011 Operator Average Returns, Costs, and Financial Summary by Size and by Management Returns for Northern and Central Illinois Grain Farms with Soil Ratings from 86 to 100

oral acres)  urns s s rm land acres acres bp shared sh rented labor	201	667-00¢	800-1,199	> 1,199 343	Your Tarm	All Tarms	800-1,199 Low 33%	High 33%
ns d res e land d shared rented	201	700	267	343		1 038	LOW 33%	%55 uBiH
d res e land d shared rented	380	1	2	)		2),-	00	00
d res e land d shared rented	000	678	1,027	2,090		1,177	1,012	1,028
	357	653	995	2,031		1,139	974	1,006
	296	504	752	1,628		889	177	718
ared nted	91	92	91	91		91	91	91
ared nted	28	19	14	=======================================		17	17	7
nted	33	47	48	45		43	41	26
	39	34	38	47		40	42	33
labor	0.7	<del>.</del> .	3.3	6.6		4.7	4.8	2.3
	7.9	11.4	14.0	22.9		15.2	15.3	12.5
	281,325	479,774	719,999	1,571,986		864,052	674,627	742,280
Livestock returns above feed	146	13	234	184		152	200	298
Custom work	1,610	3,266	4,951	22,983		9,894	5,915	4,247
	4,487	6,700	006'6	25,319		13,247	8,539	12,389
farm production	287,568	489,753	735,085	1,620,472		887,345	689,281	759,213
Dollar costs								
Crop expenses (	69,648	116,236	179,951	391,434		214,541	195,533	159,530
ipment	39,362	63,002	90,174	194,377		108,826	102,519	76,989
Building and fence	11,503	16,844	23,613	52,043		29,182	23,713	22,733
	21,950	29,163	34,749	64,487		40,876	39,431	30,021
Insurance and miscellaneous	19,467	32,158	50,162	126,054		65,329	57,778	43,353
Livestock services and supplies	223	251	277	435		313	242	209
Interest on nonland capital	12,955	23,268	34,998	75,440		41,528	36,271	32,696
Real estate taxes	3,707	4,836	5,119	8,955		6,051	5,813	4,224
	28,180	50,023	85,751	259,650		124,253	93,390	71,443
Other land charges	30,335	49,675	66,897	104,634		68,521	72,584	62,169
	237,331	385,456	571,692	1,277,510		699,451	627,273	503,369
Capital account adjustment	1,782	1,683	3,577	6,591		3,811	4,174	3,002
	58,610	117,526	186,156	399,465		216,935	87,765	275,686
Farm production per \$1.00								
of nonfeed costs	1.21	1.27	1.29	1.27		1.27	1.10	1.51
er man	339,937	584,945	824,329	1,144,471		783,968	695,899	943,691
ıcome	260,024	440,835	658,343	1,468,420		801,330	661,066	634,929
	27,714	48,949	76,900	173,108		93,054	27,519	125,109
Accts. receivable (net change)	26	139	617	-4,116		-1,152	1,535	24
Less purchased feed	94	135	628	455		328	698	817
tock	22	41	182	322		166	0	33
	287,720	489,748	735,051	1,636,635		892,706	689,250	759,214
_	171,143	282,968	435,538	1,057,865		556,618	477,847	384,384
increased)	-8,358	-10,564	-19,272	-48,739		-24,992	-17,887	-22,345
(þ	655	351	2,510	6,260		2,918	1,959	5,185
Total operating expenses 10	163,440	272,754	418,776	1,015,386		534,545	461,919	367,225
_	124,280	216,994	316,276	621,248		358,162	227,331	391,989
	16,948	32,819	51,852	108,212		59,555	56,595	43,753
justment	1,782	1,683	3,577	6,591		3,811	4,174	3,002
	109,114	185,858	268,000	519,628		302,418	174,910	351,238
_	108,472	180,086	256,011	422,430		265,829	167,477	331,822
Labor & mgt. income per operator		144,557	144,557 211,389 358,752 220,369	358,752		220,369	117,723	292,190

Table 19a. 2011 Operator Average Operating Costs, Land Use, Yields, and Prices Received by Size and by Management Returns for Northern and Central Illinois Grain Farms with Soil Ratings from 86 to 100

Kande in size (total acres)	257-1-X	500-799	800-1 199	v 1 199	Your farm	All farms	800-1 199	199
Management returns					; ; ;	3	Low 33%	High 33%
Number of farms	201	227	267	343		1,038	88	88
Selected returns and costs								
per operator tiliable acre	0	71	1	1		200	1	7
Crop returns	952.02 0.40	951.70	957.62	905.47		901.25	8/5.5/	1033.57
Livestock returns above reed	9.00	0.03	0.0	0 0		- 10	0.20	4.00
Custorn work, other receipts	20.03	19.77	19.70	79.67		70.74	10.70	4057.45
Value of Tarm production	97.3.13	971.33	977.00	995.25		907.10	0.45.09	105/15
	112.70	109.45	115.72	117.37		115.74	00.021	105.85
Seed and other crop expense	78.5	70 53	42.04 24.58	- CX		4 S	42.40 84.63	4 97 74 94
Crop total	235.69	230 58	230 34	240.44		238.67	253.77	222 13
Light vehicle and utilities	14.61	10.62	8 13 13 13 13 13 13 13 13 13 13 13 13 13	98.9		7 7 9	9.65	7 34
Machinery repaire supplies	31.05	20.02	28.43	21.05		24.02	31.49	25.48
Machinery repairs, supplies	20.33	13.86	11.49	17.29		15.82	13.49	10.82
Firel and oil	23.05	25.00	24.73	27.70		20.05	26.38	23.02
Machinery depreciation	43.16	45.87	47.35	46.03		46.11	51.35	40.47
Power and equipment total	133.21	124.98	119.93	119.38		121.07	133.05	107.20
Drying and storage	20.39	18,90	19.03	17.34		18.09	17.10	20.74
Building repair and rent	10.50	6.79	5.89	6.53		6.68	68.9	5.75
Building depreciation	8.04	7.72	6.48	8.09		7.70	6.79	5.17
Building total	38.93	33.42	31.41	31.96		32.47	30.78	31.65
Labor, unpaid	67.34	48.64	35.22	20.61		30.17	35.72	33.12
Labor, paid	6.94	9.21	11.00	18.99		15.31	15.46	8.68
Labor total	74.28	57.85	46.22	39.61		45.47	51.18	41.80
Insurance and miscellaneous	65.88	63.79	66.72	77.42		72.71	74.99	60.37
Livestock services and supplies	0.76	0.50	0.37	0.27		0.35	0.31	0.29
Interest on nonland capital	43.84	46.16	46.55	46.33		46.20	47.08	45.53
Other costs total	110.48	110.45	113.63	124.02		119.26	122.38	106.18
Land charge	210.56	207.37	209.83	229.23		221.19	222.96	191.93
l otal nonreed costs	803.14	64.65	760.37	784.61		7/8.13	814.11	700.90
Capital account adjustment	6.03	3.34	4.70	57.05		4.24	5.42	4.18
Management returns	176.04	210.24	222.07	214.69		213.27	85.89	360.43
Percent crop returns ted	0.01	0.01	0.02	0.02		0.01	1.00	40.0
Capital purchases	43,864	13,276	124,666	772,627		132,349	126,205	118,2/8
Interest pald	0,000	C00,1	10,107	188,86		100,12	10,01	12,910
	7 33	9	0.73	7		9 04	603	2 9 3
Colli alla colli silage	30.4 7.07	000.7	0.70	0 0. 4		0.00 0.00 0.00	30.2	200.2
Wheat		+ \(\frac{1}{2}\)		- 6		200 2. C	7.00	+ 
Other small grains	- 0	. C	t C			0.0	r C	r C
CRD acres	5.0	. O	0.0	2: C		5. C	5.0 3.3	0.0
All hav and pasture	0.2	0.3	0.1	0.1		0.0	0.1	0.1
Crop vields, bushels per acre	!			;		,		
Corn	178	178	177	175		176	168	4
Sovbeans	28	22	28	28		28	22	09
Wheat	80	78	62	92		77	82	88
Prices received								
Corn (old crop)	5.47	5.37	5.36	5.34		5.35	5.26	5.50
Corn (new crop)	5.75	5.86	5.75	2.60		5.66	5.54	90.9
Soybeans (old crop)	11.92	11.93	11.86	11.65		11.75	11.78	12.07
Sovbeans (new crop)	12.18	12.05	12.07	1208		α0 01	1103	10.05

Table 20. 2011 Operator Average Returns, Costs, and Financial Summary by Size and by Management Returns for Northern and Central Illinois Grain Farms with Soil Ratings from 56 to 85

Range in size (total acres)	180-499	100	000	007	f	7 II V	7	2
	200	867-00C	800-1,199	661,1	Your rarm	All tarms	800-1,199	_
Management returns Number of farms	195	157	164	258		774	Low 33% 54	Hign 33% 54
Total acres in farm	400	699	1,055	2,018		1,133	1,080	1,061
Acres of tillable land	352	642	991	1,936		1,074	928	1,029
Operator tillable acres	305	535	784	1,608		888	769	811
Soil rating on tillable land	77	8/	∞ !	8/		78	6/	8 <sub>2</sub> !
Percent land owned	39	25 33	<del>-</del> 7	91		23	4.	7,
Percent land crop snared	77	33	4 <sub>4</sub>	8		34		41
Percent land cash rented	ري م	4 <sup>4</sup>	24.5	84 k		4 ς Σ t	4 <sup>c</sup>	42
Months of filled labor	0.0		. v.	, <u>c</u> vi c		0.0	0. 4 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	, ć
i otal montris labor Dollar refums	9. 9.	/:-	<u>4</u> 4.	S. 17		0. <del>4</del>	0.01	13.2
Crop returns	277 372	475 582	697 092	1 471 238		804 466	602 064	803 431
l ivestock returns above feed	113	300	-158	445		204	34.1	-155
Custom work	1 365	3 281	4 300	14 612		6 791	4 243	3 849
Other farm receipts	3,592	5,813	9.434	18,716		10,321	8,157	10.951
Value of farm production	282.441	484.977	710.668	1.505.010		821.783	614.122	818.077
Dollar costs								
Crop expenses	69,571	125,858	187,538	390,911		213,097	192,042	190,807
Power and equipment	43,679	67,187	96,767	190,890		108,767	98,783	91,307
Building and fence	10,521	16,472	24,254	47,439		26,944	20,936	24,417
Labor	25,553	32,537	37,664	59,467		40,840	40,722	33,673
Insurance and miscellaneous	19,383	33,628	52,497	118,013		62,165	51,563	51,165
Livestock services and supplies	222	185	318	999		383	192	238
Interest on nonland capital	12,559	22,552	33,904	72,184		38,984	31,769	36,191
Real estate taxes	3,808	4,349	4,410	9,388		5,905	3,894	4,588
Cash rent	23,539	49,200	29,506	208,493		102,254	81,362	78,123
Other land charges	29,507	45,260	57,953	100,231		62,304	59,036	55,385
Total nonfeed costs	238,339	397,228	574,812	1,197,682		661,643	580,301	565,894
Capital account adjustment	2,226	2,650	4,237	6,127		4,038	3,142	6,479
Management returns	52,966	102,307	159,926	360,988		188,312	26,085	278,174
Farm production per \$1.00								!
of nonfeed costs	1.19	1.22	1.24	1.26		1.24	1.06	1.45
Farm production per man	319,438	533,861	757,323	1,097,146		714,949	622,073	907,781
Cash operating income	240 055	440.025	638 557	1 336 /131		733 007	785 757	680 337
Livertony change	31,975	76 37	70,030	178,451		01,007	1000,400	137,668
Accts receivable (net change)	04,15	40,374 354	2,00	000,07		577	5,04	1 304
l ess purchased feed	33	989	331	2 691		1 1 1 5	118	740
Less purchased livestock	157	1.051	406	489		505	514	493
Gross farm returns	282,439	485,015	710,662	1,509,890		823,415	614,103	818,077
Cash operating expenses	167,608	295,487	447,574	975,879		522,292	447,465	442,570
Prepaid expenses (- if increased)	-6,111	-11,997	-22,192	-46,525		-24,183	-13,848	-25,432
Accts. payable (+ if increased)	515	-472	1,247	949		513	2,928	1,597
Total operating expenses	162,012	283,018	426,629	930,000		498,622	436,545	418,735
Income before depreciation	120,427	201,997	284,034	579,890		324,793	177,558	399,342
Less depreciation	16,894	31,773	49,359	104,887		56,122	48,819	49,308
Capital account adjustment	2,226	2,650	4,237	6,127		4,038	3,142	6,479
Net tarm income	105,758	172,874	238,912	481,130		272,709	131,881	356,513
Net rarm income per operator	305,508	168,499	750,697	413,914		246,766	119,918	340,153
Labor & mgt. Income per operator 80,208	80,208	133,382 187,368 348,762 203,218	187,368	348,762		203,218	87,826	297.676

Table 20a. 2011 Operator Average Operating Costs, Land Use, Yields, and Prices Received by Size and by Management Returns for Northern and Central Illinois Grain Farms with Soil Ratings from 56 to 85

Range in size (total acres)	100-439	200-26	800-1,199	V 1,199	Your farm	All farms	800-1,199	
Management returns Number of farms	195	157	164	258		774	Low 33% 54	High 33% 54
Selected returns and costs					***************************************		de de constante de	
per operator tillable acre								
Crop returns	910.87	888.14	888.76	914.95		906.41	782.88	990.53
Livestock returns above feed	0.37	0.56	-0.20	0.28		0.23	-0.44	-0.19
Custom work, other receipts	16.28	16.98	17.51	20.73		19.28	16.12	18.25
Value of farm production	927.52	89.506	20.906	935.95		925.92	798.56	1008.59
Soil fertility	110.70	112.17	116.29	118.79		116.81	125.69	113.55
Pesticides	39.24	39.63	42.82	43.31		42.42	37.60	44.72
Seed and other crop expense	78.52	83.23	79.99	81.01		80.88	86.43	76.97
Crop total	228.47	235.04	239.10	243.10		240.10	249.72	235.24
Light vehicle and utilities	16.84	10.76	9.45	7.13		8.85	8.98	90.6
Machinery repairs, supplies	34.33	32.14	28.50	23.11		26.19	33.28	22.39
Machinery hire, lease	24.52	15.35	15.40	15.86		16.46	13.09	16.85
Fuel and oil	24.84	22.68	25.13	26.09		25.39	26.78	22.49
Machinery depreciation	42.90	44.55	44.89	46.52		45.66	46.32	41.78
Power and equipment total	143.44	125.47	123.37	118.71		122.55	128.45	112.57
Drying and storage	14.84	15.65	15.63	13.77		14.44	13.19	16.79
Building repair and rent	11.81	8.43	8.77	2.90		7.26	9.16	6.12
Building depreciation	7.90	89.9	6.53	9.84		8.66	4.87	7.19
Building total	34.55	30.76	30.92	29.50		30.36	27.22	30.10
Labor, unpaid	78.95	52.81	38.16	22.73		34.16	42.05	33.05
Labor, paid	4.97	7.96	98.6	14.25		11.86	10.90	8.46
Labor total	83.91	92.09	48.02	36.98		46.02	52.95	41.52
Insurance and miscellaneous	63.65	62.80	66.93	73.39		70.04	67.05	63.08
Livestock services and supplies	0.73	0.35	0.41	0.41		0.43	0.25	0.29
Interest on nonland capital	41.24	42.12	43.23	44.89		43.92	41.31	44.62
Other costs total	105.62	105.26	110.56	118.70		114.40	108.61	107.99
Land charge	186.70	184.52	180.88	197.83		192.07	18/.63	170.26
l otal nonreed costs	782.69	741.81	732.86	744.83		745.49	754.58	697.68
Capital account adjustment	7.31	4.95	5.40	3.81		4.55	4.09	66.7
Management returns	152.14	168.82	178.61	194.94		184.98	48.06	318.90
Percent crop returns ted	0.01	0.03	0.03	0.03		0.03	90:0	0.03
Capital purchases	36,433	73,383	109,027	195,122		121,029	103,607	122,381
Interest paid	8,013	13,689	18,3/9	49,878		45,316	712,61	17,430
Percent tillable land in	]	,	C C	Š		C	i	C
Corn and corn silage	57.4	56.4	56.8	59.1		58.2	55.4	59.9
Soybeans	39.1	4.1.4	40.5	36.0		37.8	41.7	37.8
Wheat	φ. o	0.0	o. o	7.0		8.0	7. 0	4.0
Otner small grains	0.0	0.0	0.0	0.0		0.0	0.0	0.0
CRP acres	8.0	0.5	4.0	9.0		9.0	0.3	0.5
All hay and pasture	0.4	0.3	0.3	0.3		0.3	9.0	0.1
Crop yields, busnels per acre	ļ			ļ				į
Corn	167	164	163	167		166	149	176
Soybeans	26	ζ 4 :	<b>2</b> , 3	<b>%</b> i		5 i	49	86 8
Wheat	89	4/	89	<i></i>		- L/	94	60
Prices received	ļ	ı	i	ı		i	i i	i i
Corn (old crop)	5.47	5.38	5.34	5.26		5.31	5.35	5.35
Corn (new crop)	5.78	5.73	5.56	5.58		5.61	5.20	5.89
Soybeans (old crop)	11.81	11.96	11.88	11.79		11.83	11.96	11.66

Table 21. 2011 Operator Average Returns, Costs, and Financial Summary by Size and by Management Returns for Southern Illinois Grain Farms with Soil Ratings from 36 to 85

180-499   500-799   800-1,199   > 1,199   Your farm     43	Farms with Soil Ratings from 36 to 85	from 36 to 85					-		
1,	Range in size (total acres)	180-499	500-799	800-1,199	> 1,199	Your farm	All farms	800-1	
the state of the control of the cont	Managemen returns Number of farms	43	54	92	146		319	LOW 33% 25	тідп 33% 25
res	Total acres in farm	373	710	1,131	2,220		1,456	1,284	1,052
579         681         1,799         1,159         644           32         42         42         46         26         66           32         42         42         36         38         38           36         43         46         40         36         40         40           36         43         46         42         36         38         38         38           36         43         46         46         47         40         40         40           330         460         48         46         46         46         40         40         38 <t< td=""><td>Acres of tillable land</td><td>324</td><td>655</td><td>982</td><td>2,131</td><td></td><td>1,363</td><td>696</td><td>963</td></t<>	Acres of tillable land	324	655	982	2,131		1,363	696	963
32         44         42         58         56         60           32         42         42         42         36 </td <td>Operator tillable acres</td> <td>296</td> <td>629</td> <td>831</td> <td>1,799</td> <td></td> <td>1,159</td> <td>844</td> <td>816</td>	Operator tillable acres	296	629	831	1,799		1,159	844	816
32         42         40         38<	Soil rating on tillable land	09	57	28	26		58	09	57
36         36<	Percent land owned	51	32	42.5	<u>~</u> 4		56	26	82
36         43         16.5         44         40           36         43         16.5         32.3         32.4         40           140         16.5         32.3         32.3         32.4         40           431         34.02         461         32.3         35.60         1810           4311         34.02         461         32.3         461         56.36           4311         34.02         21.30         21.30         28.50         28.00           40.622         51.39         51.39         51.30         2.00         2.00           40.624         103.78         24.71         15.70         10.146         2.128           40.625         103.78         24.71         10.146         2.128         2.128         2.128           40.626         40.66         40.66         40.66         40.67         40.444         44.66         44.66         44.66	Percent land crop shared	22.0	32	24.2	4 <del>4</del> 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		88 6	80 K	14 c
14.0   16.2   23.1   22.4   16.2     300,651   581,618   1,302,501   3,560   2,1286     4,811   3,499   51,387   12,286   2,1286     4,812   5,139   51,387   12,286   2,1286     4,814   1,302,501   1,326,336   1,360,7125     4,814   1,302,501   1,326,336   1,360,336     4,885   1,380,276   3,346   1,360,336     4,885   1,738   24,775   1,470,146   1,105,744     4,885   1,738   24,775   1,430,44   1,366,797     4,814   4,144   4,144     4,826   3,488   1,360,27   1,387,452   1,367,435     4,806   3,488   1,360,27   1,387,452   1,367,44     4,806   3,488   1,380,274   1,387,452   1,387,452     4,806   3,488   1,386,234   1,386,346     4,066   3,494   1,496,340   1,456   1,466     4,004   4,004   1,466   1,466   1,466     4,004   1,466   1,466   1,466   1,466     4,007   1,466   1,466   1,466   1,466     4,007   1,466   1,466   1,466   1,466     4,007   1,466   1,466   1,466   1,466     4,007   1,466   1,466   1,466   1,466     4,007   1,466   1,466   1,466   1,466     4,007   1,466   1,466   1,466   1,466     4,007   1,466   1,466   1,466   1,466     4,007   1,466   1,466   1,466   1,466     4,007   1,466   1,466   1,466   1,466     4,007   1,466   1,466   1,466   1,466     4,007   1,466   1,466   1,466   1,466     4,007   1,466   1,466   1,466   1,466     4,007   1,466   1,466   1,466   1,466     4,007   1,466   1,466   1,466   1,466   1,466     4,007   1,466   1,466   1,466   1,466   1,466     4,007   1,466   1,466   1,466   1,466   1,466     4,007   1,466   1,466   1,466   1,466   1,466     4,007   1,466   1,466   1,466   1,466   1,466     4,007   1,466   1,466   1,466   1,466   1,466     4,007   1,466   1,466   1,466   1,466   1,466     4,007   1,466   1,466   1,466   1,466   1,466     4,007   1,466   1,466   1,466   1,466   1,466     4,007   1,466   1,466   1,466   1,466   1,466     4,007   1,466   1,466   1,466   1,466   1,466     4,007   1,466   1,466   1,466   1,466   1,466     4,007   1,466   1,466   1,466   1,466   1,466     4,007   1,466   1,466   1,466   1,466   1,466     4,007   1,466   1,466   1,4	Percent land cash rented	97,	36	υς Σ	04 40		05 0	35	اي د د
397 651         581 618         1,302,501         828,171         500,387           431         4602         4612         4612         4612         1,302,501         1,302,60         1,800,387           4411         3499         51,887         25,399         2,800         1,800           4412         51,39         21,307         868,396         507,125           408,621         51,39         24,775         868,396         507,125           40,862         103,780         247,715         224,315         100,146           8,885         17,387         38,045         24,315         100,146           40,886         40,486         97,044         61,702         24,414           40,886         17,387         38,045         53,886         44,414           40,886         17,08         17,43         47,020         33,344           21,274         31,887         47,020         33,344         44,046           26,822         39,488         120,914         75,049         47,020         33,344           26,822         39,488         120,914         75,049         47,020         33,344           26,822         39,488         120,914	Total months labor		3.0	4 ל טית	30.7		4.00	4.0 0.4	
397,651         581,618         1,302,501         326,01         1,810         500,387           330         4,602         4,611         3,600         1,810         2,800         1,810           4,411         3,499         51,887         21,307         12,266         2,809         2,800           4,411         5,498         1,380,276         1,286         2,809         2,800         2,807           7,695         103,760         247,715         167,072         105,714         105,714           8,885         17,387         38,045         68,86         44,414         105,714           8,885         17,387         38,045         68,86         44,414         105,714           8,885         17,387         38,045         68,86         64,414         10,574           4,080         40,466         97,043         66,89         64,414         10,68           21,274         3,870         1,143         47,020         3,341         10,68         2,46           4,170         1,143         1,143         47,020         3,341         10,68         2,46           2,440         1,143         1,143         1,143         1,144         1,144 <td< td=""><td>Dollar returns</td><td>2</td><td><u> </u></td><td>2</td><td>5.30</td><td></td><td>F: 33</td><td>7.0</td><td><u> </u></td></td<>	Dollar returns	2	<u> </u>	2	5.30		F: 33	7.0	<u> </u>
330         4,602         4,611         3,600         1,810           4,411         3,496         51,897         21,307         1,2266         2,128           4,411         5,496         51,39         21,307         1,22,89         2,128           4,411         5,496         51,39         21,307         1,22,89         2,128           4,086         17,37         38,045         24,315         170,146         170,146           8,885         17,357         37,042         3,343         2,482         44,444           4,089         4,456         97,043         61,178         3,6896         2,482           2,872         4,045         97,044         61,178         4,414         4,414           4,683         3,570         7,385         6,514         4,414         4,414           2,683         3,570         7,433         4,4106         3,344           2,683         3,570         4,414         4,244         4,414           4,684         1,185,67         7,634         4,4106         8,706           3,046         2,249         4,546         3,446         3,441         4,244           4,246         97,034         1	Crop returns	194.079	397,651	581.618	1.302.501		828.171	500,387	642.870
4,411         3,499         51,887         2,800         2,800           4,812         594,888         1,380,276         869,396         50,128         2,800           4,885         1,390,276         381,516         244,315         170,146         170,146           76,925         103,780         247,775         167,072         105,744         105,744           40,805         1,386         1,380,45         3,645         3,644         44,44           28,220         40,456         97,904         66,836         105,744         44,444           28,220         40,456         97,904         1,143         1,089         2,482         1,444           28,220         40,456         97,904         1,143         1,089         2,482         1,444           28,220         3,570         7,366         97,004         47,020         3,331         3,342           28,281         3,570         1,185,161         70,020         3,342         65,76         46,706           30,682         3,478         1,19,461         70,020         3,341         42,47         46,066           43,474         4,066         4,046         97,044         2,247         46,066         <	Livestock returns above feed	2,209	330	4,602	4,611		3,560	1,810	7,128
6 229         5 139         21 307         12 266         2128           400,621         594,688         1,330,276         893,396         507,125           76,925         103,780         247,715         170,146         170,146           76,925         103,780         247,715         157,714         105,714           8,885         17,387         38,043         2,482         13,827           4,080         4,387         97,043         65,836         44,444           4,080         4,387         97,043         66,836         44,444           4,68         1,709         1,149         1,089         2,482           2,848         1,708         1,19467         66,170         3,304           2,848         1,20,910         70,433         44,066           2,948         1,20,910         70,433         44,066           8,010         3,448         120,910         70,433         44,066           8,010         3,504         235,074         54,41         4,247           48,256         97,084         235,074         54,41         4,246           8,02         52,22         88,200         27,482         4,286	Custom work	628	4,411	3,499	51,857		25,399	2,800	4,362
408,621         594,856         1,380,276         869,396         507,125           122,344         170,553         381,516         244,315         170,146           76,925         103,780         247,715         157,072         170,146           8,885         17,357         38,045         244,315         170,146           8,885         17,357         97,045         66,836         44,414           40,809         43,875         97,045         66,783         44,414           46         1,706         17,054         47,020         33,313           21,274         33,681         74,054         47,020         33,313           3,018         3,570         119,467         80,387         44,056           43,011         61,708         119,467         80,387         66,706           3,018         3,570         11,467         30,433         44,056           43,266         37,044         235,074         139,005         2,716           41,266         37,044         235,074         139,005         2,716           402,440         56,074         139,005         2,216         4,247           402,440         56,074         2,23,88	Other farm receipts	1,743	6,229	5,139	21,307		12,266	2,128	7,921
122,344         170,553         381,516         244,315         170,146           76,925         103,780         247,715         15,072         105,714           8,885         17,357         38,045         23,845         13,827           40,809         43,875         97,043         66,178         36,886           40,809         43,875         97,043         66,178         36,886           28,220         40,486         97,904         66,178         36,886           468         1,709         1,433         1,089         2,462           468         1,709         1,143         1,089         2,462           4,014         4,054         47,054         47,020         3,313           3,018         3,561         7,385         5,010         3,304           2,049         4,054         5,010         3,343         3,313           2,049         4,044         4,054         50,010         3,344           4,064         4,064         6,574         5,010         3,341           4,244         4,064         23,074         45,066         2,471           4,246         4,064         23,074         1,39,006         4,246	Value of farm production	198,659	408,621	594,858	1,380,276		869,396	507,125	662,281
122,344         170,553         381,516         244,315         170,146           76,925         17,376         247,715         157,072         105,714           8,885         17,387         38,045         23,845         44,414           40,809         43,875         37,044         61,178         36,886           40,809         43,875         37,044         61,178         36,886           40,809         43,875         74,054         61,178         36,886           21,274         33,681         74,054         61,178         36,886           21,274         33,681         74,054         61,089         2,462           21,274         33,681         73,366         60,706         33,313           3,018         3,570         7,386         60,706         33,313           3,018         4,394         119,467         70,433         66,706           48,266         97,084         235,074         13,467         44,056           40,240         580,072         1,367         5,276         456,852           80,660         25,222         58,200         33,416         22,47           40,840         580,074         4,766         4,7	Dollar costs								
76 925         103 780         247,715         157,072         105,714           8,885         17,357         38,045         65,886         44,414           40,809         43,875         38,045         65,886         44,414           40,809         43,875         38,045         65,886         44,414           40,809         43,875         7,904         65,178         36,896           40,809         40,466         97,904         66,178         36,896           21,274         3,660         7,365         47,020         33,313           3,018         3,678         120,910         70,433         44,056           48,266         97,084         14,945         80,387         66,706           48,266         97,084         235,074         1,186,161         42,41           48,266         97,084         235,074         1,186,161         42,41           48,266         97,084         235,074         1,186,161         42,41           48,266         97,084         235,074         1,186,162         22,462           40,666         25,222         58,200         34,229         456,662           86,057         10,129         25,381	Crop expenses	62,012	122,344	170,553	381,516		244,315	170,146	164,594
8 885         17,357         38,045         38,45         13,827           40,809         43,875         97,043         65,836         44,414           28,220         40,456         97,043         65,836         44,414           46,809         40,456         97,043         66,836         5,462           21,274         35,081         74,054         47,020         3,304           3,014         35,081         74,064         47,020         3,304           26,832         39,458         120,910         80,387         66,706           26,832         39,458         120,910         80,387         66,706           2,844         4,948         4,948         550,837         66,706           48,256         97,084         235,074         138,005         2,716           402,440         580,027         1,387,152         888,940         552,538           8,656         539,973         696,797         542,297         456,622           8,056         53,973         10,129         52,226         888,940         56,58           8,046         50,052         58,200         33,416         29,18         40,66           8,046         50,05	Power and equipment	44,144	76,925	103,780	247,715		157,072	105,714	95,141
40,809         43,875         97,043         65,836         44,414           28,220         40,456         97,904         61,178         36,896           46,868         40,456         97,904         61,178         36,896           4,688         10,456         97,904         61,178         36,896           21,274         33,681         74,054         47,020         33,313           3,018         3,570         7,365         47,020         33,313           26,832         39,458         120,910         70,433         44,056           43,011         61,708         119,467         80,387         66,706           43,011         61,708         116,474         13,871         66,706           43,011         61,708         116,474         40,66         40,66           48,256         97,084         23,074         139,005         2,41           48,256         97,084         23,074         139,005         2,716           396,620         589,973         696,797         542,297         458,622           402,40         580,027         1,387,162         868,940         552,538           866,50         58,408         10,129         <	Building and fence	5,882	8,885	17,357	38,045		23,845	13,827	20,574
28,220         40,456         97,904         61,178         36,896           21,274         3,68         1,709         1,143         1,089         2,462           21,274         3,68         1,736         47,020         3,313           3,018         3,570         7,365         6,010         3,304           2,6832         39,458         120,910         80,33         40,656           43,011         61,708         119,816         756,184         520,83           43,011         61,708         1185,161         756,184         520,83           48,256         97,084         235,074         133,005         2,716           48,256         97,084         235,074         133,005         2,716           48,256         97,084         235,074         133,005         2,716           402,440         580,027         1,387,152         868,940         552,538           8,605         25,252         58,200         3,416         -29,716           8,605         25,252         58,200         3,416         -29,716           8,605         33,416         4,761         4,761         4,766           8,605         34,408         1,366,234 <td>Labor</td> <td>30,126</td> <td>40,809</td> <td>43,875</td> <td>97,043</td> <td></td> <td>65,836</td> <td>44,414</td> <td>42,966</td>	Labor	30,126	40,809	43,875	97,043		65,836	44,414	42,966
468         1,709         1,143         1,089         2,462           3,018         3,561         74,054         4,020         3,313           3,018         3,561         7,029         3,010         3,304           26,832         3,570         7,084         40,056         66,706           26,832         3,570         7,084         66,706         3,304           26,832         3,574         1,19467         76,433         44,056           2,949         4,948         2,364         25,618         56,06           48,266         97,084         235,074         1,16         1,16           1,10         1,15         1,16         1,16         1,16           402,40         580,027         1,387,152         868,940         552,538           80,05         25,252         58,200         3,416         29,716           80,5         2,347         4,86         23,416         29,716           80,5         2,387         8,050         3,446         29,716           80,5         2,387         8,050         3,446         29,716           80,5         2,387         4,948         1,396,231         27,105         27,105<	Insurance and miscellaneous	14,494	28,220	40,456	97,904		61,178	36,896	41,526
21,274         33,681         74,054         47,020         33,313           20,828         33,48         120,301         70,435         40,066           26,832         39,48         120,301         70,433         40,066           43,011         61,708         119,467         80,387         66,706           37,786         516,147         118,161         766,184         520,838           2,949         97,084         235,074         139,005         2,716           48,266         97,084         235,074         139,005         2,716           402,440         580,027         1,387,152         868,940         552,538           80,6         20,240         33,416         -29,716         456,622           80,6         20,252         38,200         33,416         -29,716         456,622           80,6         20,24         1,396,231         868,940         552,538         47,66         47,66         46,66           415         4,614         4,791         33,416         -2,908         40,66         47,66         40,66         40,66         40,66         40,66         40,66         40,66         40,66         40,61         40,21         40,21	Livestock services and supplies	287	468	1,709	1,143		1,089	2,462	954
3,018         3,570         7,365         5,010         3,304           26,832         39,458         120,910         70,433         44,056           43,014         61,708         119,467         76,184         520,838           43,014         61,708         119,467         76,184         520,838           2,949         4,948         6,574         5,411         4,247           48,266         97,084         235,074         138,005         2,716           40,240         539,973         696,797         542,297         458,622           402,440         580,027         1,387,152         868,940         552,538           8,605         25,252         8,290         33,416         -29,716           8,605         3,377         10,129         52,381         27,105         4,766         4,766           8,605         3,377         4,046         4,766         4,766         4,766         4,766           8,605         3,374         4,012         4,791         3,496         -29,716         486           8,605         3,374         4,048         4,736         3,346         -2,29,716         486           8,106         3,374,925	Interest on nonland capital	11,137	21,274	33,681	74,054		47,020	33,313	33,219
26,832         39,458         120,910         70,433         44,056           43,011         61,708         120,910         70,433         44,056           37,786         516,147         1,185,161         56,184         50,058           2,949         4,948         235,074         1,16         1,16         4,247         4,247           48,256         97,084         235,074         1,16         1,16         1,16         2,716           48,266         97,084         236,07         696,797         868,940         562,538           8,605         25,252         58,200         33,416         -29,716         486           8,605         25,252         58,200         33,416         -29,716         486           8,605         25,252         58,200         33,416         -29,716         486           8,605         25,252         58,200         4,766         486         56,746         486           1,396,231         4,614         4,791         4,761         4,766         486         56,746         486           1,059         374,925         930,325         26,468         1,36,271         28,474         28,474           1,059         <	Real estate taxes	2,062	3,018	3,570	7,365		5,010	3,304	4,306
43,011         61,708         119,467         80,387         66,706           37,786         51,447         1,185,704         1,39,105         5,574         42,48         5,670           2,949         4,948         2,346         2,574         76,115         1,15         0,97           48,256         97,084         235,074         1,387,152         868,940         552,538           396,620         539,973         696,797         542,297         458,622           402,440         580,027         1,387,152         868,940         552,538           8,605         25,222         58,200         33,416         -29,716           8,23         3,871         8,650         33,416         -29,716           8,23         3,347         10,129         52,381         27,105         5,658           3,347         4,614         4,791         3,498         10,251         4,766           408,106         594,408         1,396,231         876,519         507,399           27,1059         374,925         930,325         -6,468         -1,614         4,244         4,244           260,975         364,287         498,679         85,162         50,500         375,66<	Cash rent	8,549	26,832	39,458	120,910		70,433	44,056	35,593
371,786         516,147         1,185,161         756,184         520,838           2,949         4,948         6,574         6,574         5,441         4,247           48,256         97,084         235,074         1,16         0,97           1,10         1,15         1,16         1,15         0,97           402,440         580,027         1,387,152         868,940         552,538           8,605         2,525         5,820         33,416         -29,716           8,605         2,525         5,820         33,416         -29,716           8,605         2,525         5,820         33,416         -29,716           8,605         2,525         5,820         4,766         4,86           8,050         3,347         10,129         52,381         27,105         5,658           8,041         4,791         4,791         4,796         4,766         4,86           8,041         4,791         4,791         4,791         -2,773         941           10,129         2,548         -6,666         -6,666         -6,666         -6,666         -2,773         941           10,82         4,948         6,574         89,762	Other land charges	27,649	43,011	61,708	119,467		80,387	902'99	58,983
2.949         4,948         6,574         5,441         4,247           48,256         97,084         235,074         139,005         2,716           1.10         1.15         1.16         1.16         0.97           396,620         539,973         696,797         542,297         458,622           402,440         580,027         1,387,152         868,940         552,538           8,605         25,252         58,200         33,416         -29,716         486           8,23         3,347         10,129         52,381         27,105         4,766         4,86           408,106         594,08         1,396,231         876,519         50,739         10,251           408,106         594,08         1,396,231         876,519         50,739         10,251           271,059         374,925         930,325         578,745         377,532         116,717         2,773         941           260,975         366         -26,468         -26,975         56,666         -26,468         -2,773         941           147,131         226,975         4,948         6,574         54,41         4,247           2949         4,948         6,574         54	Total nonfeed costs	206,642	371,786	516,147	1,185,161		756,184	520,838	497,857
48,266         97,084         235,074         139,005         2,716           1.10         1.15         1.16         1.15         0.97           396,620         539,973         696,797         542,297         458,622           402,440         580,027         1,387,152         868,940         552,538           8,605         25,252         58,200         33,416         -29,716           8,23         3,871         8,050         4,766         486           8,416         4,614         4,791         3,498         10,251           408,106         594,408         1,396,231         578,745         507,399           271,059         374,925         930,325         578,745         507,399           271,059         -6,666         -26,468         -15,471         -2,808           147,131         226,975         367,981         897,552         566           260,975         367,981         897,552         566,500           147,731         226,427         498,162         54,174           2,949         4,948         6,574         5,441           4,948         6,574         4,247         5,441           109,400         174	Capital account adjustment	5,595	2,949	4,948	6,574		5,441	4,247	3,304
1.10         1.15         1.16         1.15         0.97           396,620         539,973         696,797         542,297         458,622           402,440         580,027         1,387,152         868,940         552,538           8,605         25,252         58,200         4,766         486           8,234         10,129         52,381         27,105         4,766         486           415         4,614         4,791         3,498         10,251         486           408,106         594,408         1,396,231         27,105         5,658         507,399           271,059         374,925         930,325         578,45         377,532         507,399           271,059         374,925         930,325         56,474         5,471         -2,808           260,975         367,981         897,552         560,500         375,666         53,507           147,131         226,427         498,679         85,162         56,474         5,441         4,247           2,949         4,948         6,574         5,441         4,247         5,941         4,247           109,400         174,751         284,724         197,775         79,941         <	Management returns	876	48,256	97,084	235,074		139,005	2,716	181,444
1.10         1.15         1.15         0.97           396,620         539,973         696,797         542,297         458,622           402,440         580,027         1,387,152         868,940         552,538           8,605         25,252         58,200         4,766         4,86           8,234         10,129         52,381         27,105         5,658           4,614         4,791         8,050         4,766         4,86           4,614         4,791         8,766         5,658           408,106         594,08         1,396,231         876,519         10,251           408,106         594,08         1,396,231         876,519         507,399           271,059         374,925         930,325         578,745         377,532           -10,882         -6,666         -26,468         -15,471         -2,808           -6,666         -26,468         -25,773         941           -20,975         367,981         897,552         560,500           34,380         6,574         4,948         6,574           4,948         6,574         6,574         5,441           109,400         174,751         222,311         197,	Farm production per \$1.00						,		
402,440         580,027         1,387,152         868,940         552,538           8,605         25,252         58,200         4,766         4,86           8,23         3,871         8,050         4,766         4,86           8,23         3,871         8,050         4,766         4,86           8,23         3,871         8,050         4,766         4,86           8,23         3,871         8,050         4,766         4,86           4,614         4,791         8,766         27,105         5,658           4,15         4,614         4,791         8,765         5,658           27,05         374,925         930,326         578,745         507,399           27,05         374,925         930,326         -15,471         -2,808           -10,882         -6,666         -26,468         -15,471         -2,808           -10,882         -6,666         -26,468         -15,471         -2,808           -10,882         -6,305         -26,500         375,666           -147,131         226,427         4,98,679         316,019         375,666           -149,9         4,948         6,574         85,162         53,674	of nonfeed costs	0.96	1.10	1.15	1.16		1.15	0.97	1.33
402,440         580,027         1,387,152         868,940         552,538           8,605         25,252         86,200         3,416         -29,716           823         3,871         8,050         4,766         4,86           8,23         3,347         4,614         4,791         3,498         10,251           408,106         594,408         1,396,231         876,519         507,399           271,059         374,925         930,325         -75,745         377,532           -10,882         -6,666         -26,468         -25,473         394           -277         -6,666         -26,468         -27,73         941           -277         -6,305         -27,73         341           34,380         52,357         141,024         85,162           34,380         52,357         141,024         85,162           2,949         4,948         6,574         5441         4,247           109,400         174,751         284,724         197,775         79,941           77,560         132,753         222,311         150,530         40,212	Farm production per man	235,992	396,620	539,973	696,797		542,297	458,622	606,914
402,440         580,027         1,387,152         868,940         552,538           8,605         25,252         58,200         4,766         4,86           8,05         3,347         4,766         4,86         4,86           4,129         52,381         27,105         5,658         10,251           408,106         594,408         1,396,231         876,519         507,399           271,059         374,925         930,325         578,745         377,532           20,975         367,981         897,552         568,509         377,532           260,975         367,981         897,552         566,500         375,666           260,975         367,981         897,552         566,500         375,666           260,975         367,981         897,552         566,500         375,666           260,975         367,981         6,574         4,247         4,247           2,949         4,948         6,574         5,441         4,247           109,400         174,751         284,724         197,775         79,941           77,560         132,753         222,311         150,530         40,212	Financial summary		:	!					
8,605         25,252         58,200         33,416         -29,716           823         3,871         8,050         4,766         4,86           823         3,871         8,050         4,766         4,86           415         4,614         4,791         3,498         10,251           408,106         594,408         1,396,231         876,519         507,399           271,059         374,925         930,325         -15,471         -2,808           -10,882         -2,77         -6,305         -15,471         -2,808           -277         -6,305         -2,773         941         -2,808           147,131         226,427         498,679         316,019         131,733           34,380         52,357         4,948         6,574         5,441         4,247           2,949         4,948         6,574         5,441         4,247           115,700         174,751         284,724         536,297         79,941           109,400         174,751         222,311         150,530         40,212	Cash operating income	205,904	402,440	580,027	1,387,152		868,940	552,538	590,429
823         3,871         8,050         4,766         486           3,347         10,129         52,381         27,105         5,658           408,106         594,408         1,396,231         876,519         507,399           408,106         594,408         1,396,231         876,519         507,399           271,059         374,925         930,325         578,745         377,532           -10,882         -26,666         -26,468         -15,471         -2,808           260,975         367,981         897,552         560,500         375,666           147,131         226,427         498,679         316,019         131,733           34,380         52,357         498,679         85,162         53,507           2,949         4,948         6,574         5,441         4,247           109,400         174,751         284,724         79,941           17,560         132,753         222,311         150,530         40,212	Inventory change	-5,146	8,605	25,252	58,200		33,416	-29,716	75,249
3,347         10,129         52,381         27,105         5,658           408,106         594,408         1,396,231         876,519         507,399           408,106         594,408         1,396,231         876,519         507,399           20,082         -26,666         -96,66         -26,468         -15,471         -2,808           260,975         367,981         897,552         560,500         375,666           147,131         226,427         498,679         316,019         131,733           34,380         52,357         141,024         85,162         53,507           2,949         4,948         6,574         5,441         4,247           109,400         174,751         284,724         197,775         79,941           77,560         132,753         222,311         150,530         40,212	Accts. receivable (net change)	120	823	3,871	8,050		4,766	486	2,670
408.106         594.408         4,591         3,498         10,251           408.106         594.408         1,396,231         876,519         507,399           271,059         374,925         930,325         578,745         377,532           -10,882         -26,666         -26,468         -15,471         -2,808           260,975         367,981         897,552         560,500         375,666           147,131         226,427         498,679         316,019         131,733           34,380         52,357         141,024         85,162         53,507           2,949         4,948         6,574         5,441         4,247           109,400         174,751         284,724         197,775         79,941           77,560         132,753         222,311         150,530         40,212	Less purchased feed	1,126	3,347	10,129	52,381		27,105	2,658	2,097
408,106         594,408         1,396,231         876,519         507,399           271,059         374,925         930,325         578,745         377,532           -10,882         -6,666         -26,468         -15,471         -2,808           -277         -6,305         -2,773         941           260,975         367,981         897,552         560,500         375,666           147,131         226,427         498,679         316,019         131,733           2,949         4,948         6,574         6,574         5,441         4,247           115,700         174,751         284,724         197,775         79,941           109,400         174,751         284,724         197,775         79,941           77,560         132,753         222,311         150,530         40,212	Less purchased livestock	1,012	415	4,614	4,791		3,498	10,251	1,606
271,059         374,925         930,325         578,745         377,532           -10,882         -6,666         -26,468         -15,471         -2,808           260,975         367,981         897,552         560,500         375,666           147,131         226,427         498,679         31,733         4247           2,949         4,948         6,574         5,441         4,247           109,400         174,751         284,724         197,775         79,941           77,560         132,753         222,311         150,530         40,212	Gross farm returns	198,771	408,106	594,408	1,396,231		876,519	507,399	661,645
-10,882         -6,666         -26,468         -15,471         -2,808           799         -277         -6,305         -2,773         941           260,975         367,981         897,552         560,500         375,666           34,380         52,357         141,024         85,162         53,507           2,949         4,948         6,574         5,441         4,247           109,400         174,751         284,724         197,775         79,941           77,560         132,753         222,311         150,530         40,212	Cash operating expenses	131,644	271,059	374,925	930,325		578,745	377,532	372,422
Z60,975         367,981         -5,305         -2,773         941           260,975         367,981         897,552         560,500         375,666           147,131         226,427         498,679         316,019         131,733           34,380         52,357         141,024         85,162         53,507           2,949         4,948         6,574         5,441         4,247           109,400         174,751         228,724         197,775         79,941           77,560         132,753         222,311         150,530         40,212	Prepaid expenses (- if increased)	54.	-10,882	-6,666	-26,468		-15,471	-2,808	-19,496
260,975         367,981         897,552         560,500         375,666           147,131         226,427         498,679         316,019         131,733           34,380         52,357         141,024         85,162         53,507           2,949         4,948         6,574         5,441         4,247           109,400         174,751         284,724         197,775         79,941           77,560         132,753         222,311         150,530         40,212	Accts. payable (+ if increased)	325	299	-277	-6,305		-2,773	941	-2,245
147,131         226,427         498,679         316,019         131,733           34,380         52,357         141,024         85,162         53,507           2,949         4,948         6,574         5,441         4,247           109,400         174,751         284,724         197,775         79,941           77,560         132,753         222,311         150,530         40,212	Total operating expenses	132,510	260,975	367,981	897,552		260,500	375,666	350,682
34,380         52,357         141,024         85,162         53,507           2,949         4,948         6,574         5,441         4,247           115,700         179,018         364,229         236,297         82,474           109,400         174,751         284,724         197,775         79,941           77,560         132,753         222,311         150,530         40,212	Income before depreciation	66,261	147,131	226,427	498,679		316,019	131,733	310,963
2,949         4,948         6,574         5,441         4,247           115,700         179,018         364,229         236,297         82,474           109,400         174,751         284,724         197,775         79,941           77,560         132,753         222,311         150,530         40,212	Less depreciation	17,247	34,380	52,357	141,024		85,162	23,507	47,373
115,700         179,018         364,229         236,297         82,474           109,400         174,751         284,724         197,775         79,941           77,560         132,753         222,311         150,530         40,212	Capital account adjustment	5,595	2,949	4,948	6,574		5,441	4,247	3,304
77,560 132,753 222,311 150,530 40,212	Net farm income	54,609	115,700	179,018	364,229		236,297	82,474	266,894
77,560 132,753 222,311 150,530 40,212	Net farm income per operator	54,227	109,400	174,751	284,724		197,775	79,941	263,559
	Labor & mgt. income per operator	29,867		132,753	222,311		150,530	40,212	216,882

Table 21a. 2011 Operator Average Operating Costs, Land Use, Yields, and Prices Received by Size and by Management Returns for Southern Illinois Grain Farms with Soil Ratings from 36 to 85

IIIIIOS GIAIII FAIIIIS WILII SOII KALIIIS		110111 36 10 63						
Range in size (total acres)	180-499	200-799	800-1,199	> 1,199	Your farm	All farms	800-1,199	
Management returns Number of farms	43	54	92	146		319	LOW 35% 25	Mign 35% 25
Selected returns and costs	000000000000000000000000000000000000000	000000000000000000000000000000000000000		000000000000000000000000000000000000000				000000000000000000000000000000000000000
per operator tillable acre								
Crop returns	654.70	686.29	699.62	724.04		714.29	592.90	787.87
Livestock returns above feed	7.45	0.57	5.54	2.56		3.07	2.14	8.74
Custom work, otner receipts	8.00	18.30	10.39	40.67		32.49	5.84	15.05
Value of farm production	6/0.14	705.22	715.55	107.28		749.84	600.89	811.66
Soll Tertility	108.24	109.17	107.58	107.49		707.0L	104.29	103.55
Pesticides  Sood and other prop expense	63.33	35.00 66.17	34.20	30.27 66.33		57.34	51.90 65.35	57. 14 61.03
Seed and office crop expense	00.02	244 45	205.37	242.08		94070	20.55	01.03
Crop total	46.73	44.60	203.10	6.07		70.7	90.0	7.102
Light Verlicle and utilities	15.73	11.00	0.5. 0.00	0.67		79.7	8.90 40	58.7 50.50
Machinery repairs, supplies	40.7 L	04.70 0.40	32.20	31.70		32.4	29.10	33.02 6.67
Macilliely III e, lease	20.75 30.45	12.11 26.53	0.30	10.32		10.24	0.27	0.07
Machinery depreciation	30.43 49.26	47.77	48.72	59.32		20.74 56.26	51.43	43.15
Power and equipment total	148.91	132.76	124.84	137.70		135.47	125.26	116.60
Drying and storage	6.54	4 65	6.57	6.64		6.45	4 49	80.8
Building repair and rent	8.24	5.03	7 69	. r.		5.58	7.06	8.53
Building depreciation	5.06	5.66	6 62	6.6		8.44	4 83	8 59
Building total	19.84	15.33	20.88	21.15		20.57	16.38	25.21
Labor, unpaid	89.59	51.98	41.10	23.88		31.46	41.33	41.17
Labor, paid	12.03	18.45	11.67	30.07		25.32	11.30	11.49
Labor total	101.62	70.43	52.78	53.94		56.78	52.63	52.66
Insurance and miscellaneous	48.89	48.70	48.66	54.42		52.77	43.72	50.89
Livestock services and supplies	1.98	0.81	2.06	0.64		0.94	2.92	1.17
Interest on nonland capital	37.57	36.72	40.51	41.17		40.55	39.47	40.71
Other costs total	88.44	86.23	91.23	96.22		94.26	86.11	92.77
Land charge	129.06	125.75	125.99	137.72		134.40	135.16	121.19
Total nonfeed costs	697.07	641.64	620.87	658.82		652.20	617.14	610.15
Capital account adjustment	18.87	2.09	5.95	3.65		4.69	5.03	4.05
Management returns	-8.06	99.89	100.63	112.12		102.34	-11.22	205.56
Percent crop returns fed	3.29	0.92	1.76	1.25		1.59	2.79	1.16
Capital purchases	44,868	/96,//	129,18/	298,982		186,796	136,810	117,708
Interest paid Dercent tillable land in	0,890	12,141	18,249	42,402		26,738	22,871	17,809
Corn and corn silace	7.07	30.4	42.3	V CV		1 21	36.0	997
Sovbeans	43.3	44.9	41.5	43.2		43.0	40.9	0.74
Wheat	9.6	10.0	8.8	8.6		8.8	12.7	6.3
Other small grains	0.0	0.0	0.0	0.0		0.0	0.0	0.0
CRP acres	9.0	9.0	0.5	9.0		9.0	0.5	0.2
All hay and pasture	3.1	1.2	1.7	6.0		<u></u>	9:1	2.0
Crop yields, bushels per acre			9	,				,
Corn	133	138	<u>ک</u> د	041		139	77.	04- 04-
Soybeans	47	40 11	£ [	4.9		43	χς ι α	9 1
VVneat	<i>/</i> G	çç	/ç	40		Lo	cc	69
Prices received	u u	n 1	ū	17		נים	i.	1
Corn (dia crop)	0.00	0.7.7	00.0	7.67		2.02	90.0 69.4	0.73
Sorbeans (old gran)	0.73 70.01	3.00	0.09	12.07		12.10	20.05 20.05 20.05	12.70
Sovbeans (new crop)	12.01	11.54	11.97	12.00		11.96	12.07	12.01
Note: Variations in totals due to rounding to the nearest do	the nearest dollar							
1								

Table 22. 2011 Operator Average Returns, Costs, and Financial Summary by Size and by Cwt of Pork Produced for Illinois Hog Farms

Range is total cores)         66799         779         Vour farm         All farms         Cull offers           Cwild pork produced         6779         24         46         770         796         5000 on 7           Acres of librible band         440         1,291         893         41         47         74         47           Acres of librible band         440         1,291         89         77         74         47         74         44         77         44         44         74         44<							
22 24 46 467 1.341 893 469 469 469 469 469 469 469 469 469 469	Range in size (total acres)	662-09	> 799	Your farm	All farms	Cwt of pork produced	roduced
487         1,341         933           440         1,341         933           440         1,164         796           77         796         796           77         796         778           77         796         778           77         796         778           77         796         778           89         633         57         21,7           21.9         449.21         21,7         21,7           21.9         47.2         25,6         26,1           176         48.25         24,2         26,1           177         48.25         22,1         26,1           178         449.21         26,8         26,8           177         48.25         22,1         26,1           176         48.25         24,2         26,1           177         38.56         24,2         11,1         35,6           177         38.56         24,2         11,1         43,2         26,8           188         28.2         24,2         11,1         10,1         18,4         11,1         10,1         11,1         10,1         11,1	Cwt of pork produced					< 6,000 cwt	> 6,000 cwt
487 1,341 883 884 884 884 1,1891 884 1,1891 888	Number of farms	22	24		46	7	10
## 440 1,1291 884 786 77 786 786 786 786 786 786 786 786	Total acres in farm	487	1,341		933	411	626
1,164   796   796   78	Acres of tillable land	440	1,291		884	352	923
Fig. 17 79 78 78 78 78 78 78 78 78 78 78 78 78 78	Operator tillable acres	395	1,164		962	297	840
33 15 15 24 24 24 49 663 24.212 24.77 24.82 24.72 24.82 24.82 24.82 25.869 265.869 265.869 27.82 24.82 24.82 25.82 25.82 24.82 25.82	Soil rating on tillable land	12	62		78	74	83
ed 36.36.77	Percent land owned	33	. <u> </u>		24	40	12
ed 196, 63 8,9 3.35 21,9 47,2 22,77 176,828 10,767 449,214 3.724 3.5,609 117,128 11,040,735 77,724 3.5,609 11,171,128 11,040,747 1,492,147 1,009,830 11,171,128 11,102,41 1,17,045 1,10,241 11,103,829 24,212 24,122 11,103,829 24,124 1,10,241 11,103,829 2,314,963 1,10,47,18 11,103,829 2,324,963 1,10,47,18 11,103,829 2,324,963 1,10,43,848 11,103,829 3,26,316 3,48,861 11,103,829 3,26,316 1,10,43,848 11,103,829 3,26,316 1,10,43,848 11,103,839 3,26,316 1,10,43,848 11,103,839 3,26,316 1,10,43,848 11,103,839 3,26,316 1,10,43,848 11,103,839 3,26,316 1,10,43,848 11,103,839 3,26,316 1,10,43,848 11,103,839 1,10,43,189 1,10,43,848 11,103,839 1,10,43,189 1,10,43,848 11,103,839 1,10,43,189 1,10,	Percent land crop shared	17	22		. 6 6	16	1 6
8.9 3.3 5 21.7 715.828	Percent land cash rented	49	93		5.5	44	69
21.3 21.3 21.3 21.3 21.3 21.3 21.3 21.3	Months of hired labor	o o	33.5		21.7	2.5	0 60
ed 190,757 1,040,735 715,828	Total months labor	0.70	47.2		ን ተ 1	1.0	20.02
ed 190,767 449,214 325,609  176 449,214 325,609  177 449,214 325,609  18,996 266,869 181,277  93,822 242,212  93,857 138,768 177,128  90,841  70,091 177,128  90,841  70,091 177,128  90,841  70,091 177,138  90,841  70,091 177,138  90,841  70,091 177,138  90,841  70,091 177,138  90,841  70,091 177,138  90,841  70,091 177,138  90,841  10,843,848  11,09,644 2,746  12,843,993  11,643,593  11,643,593  11,67,681  11,678  11,643,593  11,67,681  11,678  11,643,593  11,67,681  11,678  11,643,593  11,678  11		6:17	¥. / <del>‡</del>			0.01	7:4
ed 1907, 35 1775 1, 37, 724 2, 71, 128 18, 996 242, 212 2, 72, 73 88, 996 242, 212 171, 128 88, 996 242, 212 171, 128 93, 587 147, 045 90, 841 177, 738 61, 394 177, 738 61, 394 178, 777 1738 61, 394 178, 777 1738 61, 394 178, 778 1738 61, 394 178, 788 61 188, 788 718 164, 388 198, 788 61 198, 788 61		200	040		7.7	100	
19, 767   449, 214   3.25, 609   2.601   3.25, 609   3.7724   3.7724   3.7724   3.7724   3.7244   3.25, 609   3.582   2.42, 212   3.582   2.42, 212   3.685   3.685   3.685   3.685   3.885   3.8876	Crop returns	201,202	1,040,733		070,017	7.79,627	200,020
n         568,101         4,825         2,601           n         568,104         1,532,497         2,502           n         568,104         1,532,497         2,502           n         568,104         1,532,497         1,069,830           n         568,104         1,532,497         1,128           n         38,562         242,212         2,600,841           n         1,200,642         1,11,128         90,841           n         1,200,672         1,200,672         1,11,118           n         1,200,672         1,200,672         1,200,476           n         1,22         1,13         1,20           n         1,13         1,14         1,14           n         1,14         1,14         1,14           n         1,14         1,14         1,14           n         1,14         1,14         1,14           n         1,14         1,14	Livestock returns above feed	190,767	449,214		325,609	63,473	452,297
n         566,101         37,724         25,792           n         566,101         1,532,497         1,069,830           n         566,101         1,532,497         1,069,830           n         566,101         1,532,497         1,069,830           se, 996         265,869         110,241         110,241           nus         25,456         93,815         110,241         110,241           nus         25,461         77,38         44,957         61,364           pplies         30,104         77,38         46,957         61,364           5,461         9,726         101,118         7,686         101,118           42,746         14,625         101,118         7,686         101,118           36,877         7,1597         54,986         101,118         101,118         101,118           4,274         1,94,625         1,94,578         104,378         104,378         104,378           4         1,10         2,2415         1,20,657         2,2445         1,94,578         104,380           1,10         2,243,963         2,243,963         1,075,583         2,243,963         1,075,583         2,243,963         1,075,583         3,463,772 <td>Custom work</td> <td>176</td> <td>4,825</td> <td></td> <td>2,601</td> <td>1,649</td> <td>3,931</td>	Custom work	176	4,825		2,601	1,649	3,931
n         565,101         1,532,497         1,069,830           88,996         265,869         181,277           93,582         242,212         171,128           93,587         138,768         90,841           10,091         147,045         110,241           70,091         147,045         110,241           17,738         93,815         61,122           30,104         77,738         54,957           45,461         9,276         61,364           45,777         1,597         54,986           462,777         1,290,672         54,986           462,777         1,290,672         54,988           1,05,664         27,2415         101,118           1,20         1,18         1,16           360,575         628,718         500,476           880,086         2,343,963         1,643,848           82,192         181,162         1,643,848           82,192         181,162         1,643,848           82,192         628,718         500,476           128,650         1,643,848         1,643,848           1,107         1,643,848         1,643,848           1,107         1,64,558	Other farm receipts	12,775	37,724		25,792	4,966	18,606
88,996 265,869 181,277 38,557 138,768 90,841 70,091 147,045 90,841 70,091 147,045 90,841 110,241 70,091 147,045 90,841 110,241 9,726 93,815 61,364 42,746 154,625 101,118 36,870 71,590,672 64,988 42,746 154,625 101,118 36,870 71,590,672 894,722 1,19 16,82 72,445 104,578 1,290,086 2,343,963 16,476 1,290,086 2,343,963 1,643,848 82,192 181,162 133,829 1,075,643 1,097,918 10,755,683 362,564 1,097,918 766,570 1,1075 -18,953 766,570 1,1075 -18,953 776,670 1,1075 -18,953 776,670 1,1075 -18,953 776,670 1,1075 -18,953 776,670 1,1075 -18,953 776,670 1,1075 -18,953 776,670 1,1075 -18,953 776,670 1,1075 -18,953 776,670 1,1075 -18,953 776,670 1,1075 -18,953 776,670 1,1075 -18,906 382,747 1,1076 149,251 164,258 1,1076 149,251 164,258 1,1076 177,844 181,061 1,1076 1149,251 164,258	Value of farm production	565,101	1,532,497		1,069,830	305,765	1,295,216
88,996 265,869 181,277  93,582 242,12  38,557 138,768 90,841  70,091 147,045 90,841  70,091 147,045 90,841  70,091 147,045 90,841  70,091 147,045 90,841  70,091 147,045 90,841  70,091 147,045 90,841  70,091 147,045 90,841  70,091 147,045 90,841  70,091 147,045 90,841  70,091 147,045 90,841  70,091 147,045 90,841  70,091 18,906 2,343,963 16,462  880,086 2,343,963 16,462  880,086 2,343,963 16,462  880,086 2,343,963 16,462  880,086 2,343,963 16,463,848  882,192 181,162 133,829  11,28,859 326,316 16,48,848  882,192 181,162 133,829  11,28,859 326,316 16,48,31  880,086 2,343,963 14,6227  11,075 -18,953 16,490  888,006 314 10,72,530 227  188,906 382,747 16,49,258  11,10,10,118  11,10,118  11,10,118  11,10,118  11,10,118  11,10,118  11,10,118  11,10,118  11,10,118  11,10,118  11,10,118  11,10,118  11,10,118  11,10,118  11,10,118  11,10,241  11	Dollar costs						
93,582 242,212 171,128 170,241	Crop expenses	966'88	265,869		181,277	57,240	188,403
as,557 138,768 90,841 110,241 70,051 147,045 110,241 110,241 70,091 147,045 110,241 110,241 110,241 20,014 77,738 54,957 54,957 54,962 23,15	Power and equipment	93,582	242,212		171,128	53,304	203,203
bus 25,456 93,815 110,241 110,241	Building and fence	38,557	138,768		90,841	13,904	96,768
uus         25,456         93,815         61,122           pplies         30,104         77,738         54,957           30,104         77,738         54,957           61,364         77,738         61,364           5,461         9,726         7,866           46,777         71,597         54,988           462,777         71,597         54,888           88         2,315         104,578           1,29,672         104,678         104,578           1,22         1,19         1,643,848           88,0086         2,343,963         1,643,848           88,192         2,343,963         1,643,848           88,192         326,316         1,553           880,086         2,343,963         1,643,848           880,086         2,343,963         1,643,848           128,859         326,316         1,643,848           880,086         2,343,963         1,643,848           11,075         1,643,593         1,675,683           11,075         1,643,593         348,913           11         1,643,593         348,913           11         1,643,584         1,643,584           11,643,284	Labor	70 031	147 045		110,241	51,039	134 281
pplies 30,104 77,738 54,957 54	Insurance and miscellaneous	25,456	93.815		61 122	17 801	71 720
90,000	livestock services and supplies	30,108	77 738		54 957	0.617	76.703
Co., 21 /2         Co., 47 /2         Co., 42	Interest on popland capital	30,134	80 276		61,364	16,017	72,758
45,746         154,625         101,118         462,777         101,118         462,777         101,118         462,777         101,118         462,777         101,118         462,777         101,118         462,772         462,625         101,118         462,772         463,672         564,988         1618         468,772         468,772         468,772         468,772         468,772         468,772         468,772         468,772         468,772         464,578         468,578         463,672         463,672         463,672         463,672         463,672         463,672         463,672         463,672         463,772         464,372         464,372         464,372         464,372         464,372         464,372         464,372         464,372         46	Real estate taxes	7.00	9,2,0		1,00	3 127	6,77
462,777         1,290,672         191,110           462,777         1,290,672         1,010           462,777         1,290,672         894,722           462,777         1,290,672         894,722           1,120         1,618         1,618           1,122         1,13         1,618           360,575         628,718         1,643,848           880,086         2,343,963         1,643,848           82,192         181,162         1,33,829           128,859         326,316         231,880           565,027         1,543,593         1,075,583           565,027         1,543,593         1,075,583           362,564         1,097,918         746,227           1,075         -18,953         1,075,583           349,369         1,075,530         746,227           1,1075         -18,953         348,913           1,1         -6,434         1,075,530         746,207           1,1         -2,121         -6,434         -1,075,530         60,490           1,1         858         2,315         2,315         2,315           1,1         1,1         1,1         1,1           1,1 <th< td=""><td>Cook root</td><td>10,40</td><td>3,720</td><td></td><td>,,000</td><td>0, 127</td><td>0,00</td></th<>	Cook root	10,40	3,720		,,000	0, 127	0,00
tr         462,777         1,291,537         24,578         16,188         272,415         894,722         894,722         16,188         16,188         16,188         16,188         16,188         16,188         16,188         16,188         16,188         16,188         16,188         16,188         16,188         16,188         16,188         16,188         18,1	Other lend oberess	42,740	24,623	Ī	101,110	42,034	107,745
t         402,177         1,230,674         834,122           t         109,664         272,415         194,578           1         2         2         2         2         2         2         2         2         2         2         2         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         4         3         4         3         4         3         4         4         3         4         4         3         4         4	Uniei iaila cilaiges	30,070	1,000		04,900	01,140	40,00
III         BOB         2,315         1,018           1.12         1.19         1,20           360,575         628,718         1,643,848           880,086         2,343,963         1,643,848           82,192         181,162         -1,553           312         -3,263         -1,553           268,705         651,953         468,661           128,859         326,316         231,880           366,027         1,643,593         1,075,833           566,027         1,543,593         1,075,833           366,027         1,643,849         1,075,434           4,371         -15,434         -15,433           4,371         -15,434         -15,670           349,369         1,072,530         348,913           11,618         1,618         1,618           11,618         1,618         1,618           11,618         1,618         1,618           11,618         1,61,061         1,61,061           11,618         1,61,061         1,61,061           11,618         1,61,061         1,61,063           11,618         1,61,063         1,61,063           11,61,075         1,61,063	l otal nonreed costs	462,111	1,290,672		894,722	211,248	1,028,817
109,664         272,415         194,578           1.22         1.19         1.20           360,575         628,718         500,476           880,086         2,343,963         1,643,848           82,192         181,162         133,829           312         -3,263         -1,553           268,705         651,953         468,661           128,859         326,316         231,880           128,650         1,097,918         746,227           11,075         -18,953         -15,186           11,075         -18,953         -15,186           11,075         -18,953         -15,186           11,075         -18,953         -15,186           11,075         -18,953         -15,186           11,08         471,063         60,490           11,618         16,990         348,913           11,618         164,258         164,258           11,618         164,258         157,081	Capital account adjustment	858	2,315		1,618	101	468
1.22 1.19 1.20 1.20 1.20 500,476 500,476 500,476 880,086 2,343,963 1.643,848 82,192 181,162 13.263 1.653 268,705 651,953 23.263 1.653 268,705 651,953 1.643,593 1.28,859 2.21,80 1.097,918 1.64,3593 1.64,349 1.097,918 1.64,258 1.097,918 1.618 1.618 1.88,906 1.21,107 1.618 1.618 1.618 1.83,480 1.183,480 1.164,258 1.164,264,264,264,264,264,264,264,264,264,2	Management returns	109,664	272,415		194,578	34,198	286,607
1.122 1.130 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.2	Farm production per \$1.00						
880,086 2,343,963 1,643,848 13,829 312 3,263 2,343,963 1,643,848 133,829 13.829 13.829 13.829 13.829 14.953 265,027 128,859 2,315 2,	of nonfeed costs	1.22	1.19		1.20	1.10	1.26
R80,086 2,343,963 1,643,848 133,829 131,229 181,162 133,829 132,829 131,22,859 1468,661 128,859 256,316 231,880 231,880 25,544 1,097,918 746,227 14,075 14,953 15,843 14,075 14,953 15,843 15,843,369 14,075,530 14 858 2,315 16,18 183,480 178,844 183,480 178,844 181,061 181,061 161 161 161,258 161 161,051 161 161,051 16	Farm production per man	360,575	628,718		500,476	251,655	602,494
g80,086         2,343,963         1,643,848         1,643,848           g2,192         181,162         133,829         -1,553           312         -3,263         -1,553         -1,553           128,859         365,027         468,661         231,880           565,027         1,543,593         1,075,583         1,075,583           sed)         -2,121         -6,434         -4,371           sed)         -2,121         -6,434         -4,371           sed)         -2,124         -6,434         -4,371           sed)         -2,124         -6,434         -4,371           sed)         -2,124         -6,434         -4,371           sed)         -2,124         -6,434         -4,371           sed)         215,658         477,063         60,490           it         858         2,315         60,490           183,480         178,844         181,061           ritor         149,251         164,258         157,081	Financial summary						
nge) 82,192 181,162 133,829 133,829 312 -3,263 -1,553 -1,553 200,8705 661,953 468,661 221,885 265,027 1,097,918 746,227 362,564 1,097,918 746,227 363)	Cash operating income	980'088	2,343,963		1,643,848	335,144	1,742,589
nge) 312 -3,263 -1,553		82,192	181,162		133,829	22,373	163,677
268,705         651,953         468,661           128,859         326,316         231,880           565,027         1,543,593         1,075,833           362,564         1,097,918         746,227           reased)         -2,121         -6,434         -4,371           sed)         -2,121         -6,434         -4,371           sed)         1,075,530         726,670           1,075,638         471,063         348,913           1,08         2,315         60,490           1,89         382,747         290,040           183,480         178,844         181,061           1 to rounding to the nearest dollar.         164,258         167,081	Accts. receivable (net change)	312	-3,263		-1,553	-170	1,421
128,859         326,316         231,880           566,027         1,543,593         1,075,683           362,564         1,097,918         746,227           1,075         -18,953         -15,186           -2,121         -6,434         -4,371           sed)         -2,121         -6,434         -4,371           sed)         1,075,530         726,670           sed)         2,316         90,631         60,490           nt         858         2,315         60,490           nt         188,906         382,747         290,040           183,480         178,844         181,061           149,251         164,258         157,081	Less purchased feed	268,705	651,953		468,661	49,597	526,003
565,027         1,543,593         1,075,583           362,564         1,097,918         746,227           sed)         -11,075         -18,953         -15,186           -10,075         -18,953         -15,186           sed)         -2,121         -6,434         -4,371           sed)         1,075         349,369         726,670           st         27,610         90,631         60,490           nt         858         2,315         60,490           st         188,906         382,747         290,040           stor         149,251         164,258         157,081	Less purchased livestock	128,859	326,316		231,880	2,024	86,468
sesed)         1,097,918         746,227           eased)         -11,075         -18,953         -15,186           sed)         -2,121         -6,434         -4,371           is         349,369         1,072,530         726,670           of         27,610         90,631         60,490           of         23,15         23,15         60,490           of         188,906         382,747         290,040           rator         149,251         164,258         157,081	Gross farm returns	565,027	1,543,593		1,075,583	305,726	1,295,216
sed) -11,075 -18,953 -15,186 -15,186 sed) -2,121 -6,434 -4,371 -6,434 -4,371 -5,436 sed) -2,121 -6,434 -4,371 -5,6436 sed) -2,121 -6,434 -4,371 -2,15,658 471,063 348,913 27,610 90,631 60,490 14 858 2,315 1,618 -1,618 183,480 178,844 181,061 storounding to the nearest dollar.	Cash operating expenses	362,564	1,097,918		746,227	180,855	839,772
sed)	Prepaid expenses (- if increased)	-11,075	-18,953		-15,186	-3,565	-21,364
\$49,369         1,072,530         726,670           215,658         471,063         348,913           27,610         90,631         60,490           18         2,315         1,618           183,480         178,844         181,061           1counding to the nearest dollar.         164,258         157,081	Accts. payable (+ if increased)	-2,121	-6,434		-4,371	-307	926
215,658 471,063 348,913 27,610 90,631 60,490 1,618 60,490	Total operating expenses	349,369	1,072,530		726,670	176,983	819,384
tr 858 2,315 60,490 7,610 80,631 60,490 7,900 1,618 88 2,345 7,618 90,640 1,618 82,747 7,618 1,618 1,619 1,6	Income before depreciation	215,658	471,063		348,913	128,743	475,832
tt         858         2,315         1,618           188,906         382,747         290,040           183,480         178,844         181,061           ator         149,251         164,258         157,081	Less depreciation	27,610	90,631		60,490	22,000	67,684
188,306         382,747         290,040           183,480         178,844         181,061           ator         149,251         164,258         157,081           to rounding to the nearest dollar.         164,268         164,268	Capital account adjustment	828	2,315		1,618	101	468
183,480 178,844 181,061 atom 149,251 164,258 157,081 to rounding to the nearest dollar.	Net farm income	188,906	382,747		290,040	106,844	408,616
<u>operator</u> 149 <u>,251</u> 164,258 157,081 due to rounding to the nearest dollar.	Net farm income per operator	183,480	178,844		181,061	97,231	258,569
		149,251	164,258		157,081	74,410	215,989
		to the nearest dollar.					

Table 22a. 2011 Operator Average Operating Costs, Land Use, Yields, and Prices Received by Size and by Cwt of Pork Produced for Illinois Hog Farms

oxists  oxer feed	Donot in the forth	60 700	002 /	Vour form	All forms	y Aron to the	poor
Feet   915.63   894.01   899.13   7727.6   722.5   7		66	66.		מוווים	< 6.000 cwt	> 6 000 cwt
Freed   48.34   38.54   38.65   36.6	Number of farms	22	24		46	7	10
Feed   915.63   989.01   989.13   792.76	Selected returns and costs						
Part	per operator tillable acre						
tockled         483.4         368.8         408.9         213.51           novel feed         483.4         368.8         408.9         213.51           Increptor         143.79         368.8         408.9         223.51           Increptor         143.79         1316.4         143.79         100.85         222.52           Increptor         25.6         43.6         43.6         65.5         64.1           specific         22.3         22.3         227.70         192.6         64.1           popular         47.74         47.74         47.76         64.1         137.5           popular         50.50         47.42         47.76         47.76         36.14           popular         47.74         47.76         47.76         36.15         37.14           popular         47.74         47.76         47.76         36.14         37.14           popular         47.74         47.76         47.76         47.76         47.76         46.77           popular         47.74         47.76         47.76         47.76         47.76         47.76         47.76         47.76         47.76         47.76         47.76         47.76         47.76 <td>Crop returns</td> <td>915.63</td> <td>894.01</td> <td></td> <td>899.13</td> <td>792.76</td> <td>976.88</td>	Crop returns	915.63	894.01		899.13	792.76	976.88
Particular   1431.78   136.55   136.56   122.25   100.28   100.2	Livestock returns above feed	483.34	385.88		408.99	213.51	538.58
Incline         1431.79         1316.44         133.79         1028.52           texpense         45.6         43.06         43.06         43.66         43.66         43.66         43.66         43.66         43.66         43.66         43.66         43.66         43.66         43.66         43.66         44.1         45.51         46.41         46.41         46.41         46.41         46.41         46.41         46.41         46.41         47.74         47.74         47.74         47.74         47.74         47.74         47.74         47.74         47.74         47.74         47.74         47.76         47.76         47.76         47.76         47.76         47.76         47.77	Custom work, other receipts	32.81	36.55		35.66	22.25	26.84
100.28	Value of farm production	1431.79	1316.44		1343.79	1028.52	1542.29
expense         4516         4306         4355         4555	Soil fertility	102.52	100.28		100.81	92.58	92.29
expense         7781         88.04         8.04         44.1           expense         7781         88.04         8.04         48.22         44.1           supplies         49.24         44.09         47.74         47.76         137.56         137.56           exposite         47.24         47.74         47.74         47.74         47.74         47.74         47.74         47.74         47.76         38.70	Pesticides	45.16	43.06		43.56	35.55	49.63
Strategy   1875   187	Seed and other crop expense	77.81	85.04		83.32	64.41	82.42
Section   Sect	Crop total	225.49	228.39		227.70	192.54	224.34
Part	Light vehicle and utilities	37.93	22.39		26.07	33.53	27.79
tion 65.50 47.74 47.66 13.75 13.75 14.60 15.74 47.66 15.74 13.75 14.60 15.74 47.74 47.66 15.74 14.76 16.81 16.81 17.82 16.82 17.82 16.81 16.81 16.81 16.81 17.82 1	Machinery repairs, supplies	49.24	44.09		45.31	38.70	50.40
ion 50.204 444.2 44.76 55.14 55.14 10.15 1	Machinery hire, lease	47.40	47.74		47.66	13.75	63.71
tent total 5050 4742 4815 5714 5714 5714 5714 5714 5714 5715 5714 5715 5714 5715 5714 5715 5715	Fuel and oil	52.04	46.42		47.76	36.18	51.22
ent total 23.7.1 208.06 174.95 179.30 169.01 179.30 170.02	Machinery depreciation	20.50	47.42		48.15	57.14	48.84
ent 68.88 7.2137 7150 7150 7150 7150 7150 7150 7150 715	Power and equipment total	237.11	208.06		214.95	179.30	241.97
rent 68.99 7.228 7.150 22.47  10.67 35.37 6.08  10.67 35.37 7.50  10.67 35.37 7.68  10.67 35.37 7.68  10.67 35.37 7.68  10.67 35.37 7.68  10.67 35.37 7.68  10.67 35.37 7.68  10.67 35.37 7.68  10.67 35.37 7.68  10.67 35.37 7.68  10.67 35.37 7.68  10.67 35.37 7.68  10.68 22.88  10.69 22.88  10.60 20.73 10.87  10.60 20.73 10.87  10.60 20.73 10.88  10.60 20.73 10.88  10.60 20.73 10.88  10.60 20.73 10.88  10.60 20.73 10.88  10.60 20.88  10.60 20.89	Drying and storage	14.02	21.37		19.63	16.91	22.77
14.05	Building repair and rent	68.98	72.28		71.50	22.27	64.59
10.50   19.5	Building depreciation	14.69	72.55		22.98	7.59	27.87
10.25   35.37   10.85   138.25   138.25   138.25   138.25   138.25   138.25   138.25   138.25   138.25   138.25   138.25   138.47   171.68   139.25   138.25   138.25   138.25   139.	Building total	97.69	119.20		114.10	46.77	115.23
Title	Labor, unpaid	72.03	35.37		50.83	138.55	53.53
17.59   126.31   136.47   17.108   17	Labor, paid	77.02	90.94		87.64	33.13	106.37
registrations 76.38 66.78 69.03 70.04 23.36 93.00 93.0	Labor total	17.59	126.31		138.47	1/1.68	159.90
rind supplies 78.33 76.69 77.08 77.08 72.28 78.39 77.0		04:30	90.39		7.07	09.00	0.00
te acree	Livestock services and supplies	78.33	00.78 76.60		69.03 77.08	32.35	91.34
ts 1172.63 1108.71 1123.84 932.60 1228  Istment 2.17 199 2.03 1034 0.34 0.34 0.34 0.34 0.34 0.34 0.34 0	3	210.33	224 06		22.77	146.79	263.37
ts         172.53         108.71         1123.84         932.60         122.00           ustment         2.17         1.99         2.03         0.34	l and charge	215.56	20.5 GR		205.74	195.50	220.22
statement 2.17 1.99 2.03 0.34 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.0	Total popped costs	1172 53	1108 71		1123.84	932.60	1225.27
s fed 123.03 102.15 221.98 96.27 317 s fed 60.273 209.72 221.98 112.14 64.58 131 60.273 204,888 132.20 112.14 64.58 131 14.14 64.58 131 14.14 64.58 131 14.14 64.58 131 14.15 14.15 14.17 14.11.89 11.17 11.18 11.18 s client prounding to the pararest dollar scale and the parametral and the	Canital account adjustment	2 17	1 99		2.03	0.34	0.56
s fed 123.03 102.15 112.14 64.58 133	Management returns	261.43	209.72		221.98	96.27	317.77
e 59.3 204,888 135,725 58,911 168, 17,923 55,931 37,753 6,602 19, 19, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10	Percent crop returns fed	123.03	102.15		112.14	64.58	131.44
e 59.3 55,931 37,753 6,602 19, 37,753 55,931 37,753 6,602 19, 31,5 5.0 3.2 62.2 52.7 6 5.0 3.2 5.0 3.2 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1	Capital purchases	60,273	204,888		135,725	58,911	168,757
e 59.3 63.2 62.2 52.7 6 5.0 5.0 3.1.5 31.5 5.0 8 8 3.2 6.1 5.0 8 9.8 3.2 6.1 5.0 8 9.8 3.2 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1	Interest paid	17,923	55,931		37,753	6,602	19,529
e 59.3 63.2 62.2 52.7 6 31.3 31.5 31.5 31.5 29.8 3 5.0 3.2 6.1 29.8 3 6.1 30.9 6 6.1 30.0 6 6.1 30.0 6 6.1 30.0 6 6.2 30.0 6 6.3 30.	Percent tillable land in						
31.3     31.5     31.5     29.8     3       5.0     3.2     3.6     6.1     6.1       0.2     0.0     0.1     0.9     0.0       0.5     0.5     0.0     0.0       1.03     10.3     10.3       1.04     1.05     10.3       1.05     10.9     10.0       1.06     53     55     50       1.2.16     12.16     12.16     12.16       1.1.74     11.89     11.84     11.78       1.1.84     11.78     11.78     11.78	Corn and corn silage	59.3	63.2		62.2	52.7	61.7
er acre 169 3.2 3.6 6.1 6.1 6.1 6.1 6.2 6.1 6.1 6.2 6.1 6.1 6.2 6.2 6.1 6.1 6.2 6.1 6.1 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2	Soybeans	31.3	31.5		31.5	29.8	34.6
er acre 0.2 0.0 0.1 0.9  0.5 0.5 0.5 0.0  3.2 0.1 0.9  16.3 10.3  16.4 15.4  5.66 5.32 5.86 5.85 5.85  1.2.18 12.03 11.84 11.78	Wheat	5.0	3.2		3.6	6.1	2.3
er acre 0.5 0.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Other small grains	0.2	0.0		0.1	6:0 6:0	0.0
er acre 3.2 0.1 0.9 10.3  er acre 169 167 168 154 60 53 55 68 62 5.66 5.32 5.86 5.94 5.86 5.66 5.94 5.86 11.74 11.89 11.78	CKP acres	6.0	0.5		0.5	0.0	0.1
169 167 168 154 60 53 55 68 62 5.32 6.32 5.86 7.90 6.4 6.8 6.0 5.32 6.37 7.12.18 12.03 12.07 6.4 6.8 6.2 6.5 6.9 6.3 6.3 6.0 6.3 6.3 6.3 6.3 6.3 6.3 6	All hay and pasture	3.2	0.1		9.0 9.0	10.3	0.0
53 55 50 537 5.86 5.34 5.86 5.85 5.86 5.94 71.74 11.89 11.78	Ordo yields, businers per acre	160	167		8	727	173
5.66 5.32 6.8 6.8 6.2 5.63 5.56 5.94 5.86 5.85 5.94 11.89 11.78 11.78 11.78	Southern	601	101		00 4	<u> </u>	<u>.</u>
5.66 5.32 5.86 5.85 5.86 5.86 5.86 5.86 5.87 5.88 5.85 5.89 (12.03 12.07 11.78 11.78 11.78	Wheat	8 8	8 2		ဂ ထိ	9 6	-
5.66 5.32 5.37 5.63 5.56 5.94 5.86 5.85 12.03 12.07 12.16 11.89 11.78	Prices received	2	5		8	3	8
5.56 5.94 5.86 5.85 5.85 (12.03 12.07 11.89 11.78 11.78 11.78	Corn (old cron)	7 66	5 32		5.37	7.63	5 44
(1.74 11.89 12.07 11.84 11.78 11.78 11.78 11.78 11.78 11.78 11.78 11.78 11.78 11.78 11.78 11.78 11.78 11.78 11.78	Corn (new crop)	. c. c.	5.92		. c. c.	5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00	5.4 7.25
() (1.74 (1.89 (1.78 (1.	Soybeans (old cron)	2	12.03		12.07	12.16	12.47
of the nearest follar	Sovbeans (new grop)	11 74	11 89		1184	11 78	12.63
1	٦ ٥	o the nearest dollar	2		5	2	5

Table 23. 2011 Operator Average Returns, Costs, and Financial Summary for Illinois Dairy and Beef Farms

Number of cows in herd Range in size (total acres) Number of farms	67-01.	6/ <	Y our tarm	All rarms				
Karige III size (total acres) Number of farms					100 100	000	\	) II 6
	26	14		29	180-799	88 A	r our tarm	All rarms 13
Total acres in farm	301	648		514	433	1 074		581
Acres of tillable land	266	280		458	400	987		536
Operator tillable acres	256	295		443	390	920		513
Soil rating on tillable land	89	89		89	75	81		92
Percent land owned	22	38		46	42	33		40
Percent land crop shared	4	2		2	9	15		8
Percent land cash rented	39	20		20	52	53		52
Months of hired labor	3.1	36.0		23.2	1.5	37.2		9.7
Total months labor	17.8	51.6		38.5	13.7	53.2		22.8
Dollar returns					1	1		1
Crop returns	219,835	540,163		415,857	395,493	830,375		495,850
Livestock returns above feed	58,146	419,297		279,149	59,031	648,243		195,003
Custom work	666	1,625		1,380	2,662	8,194		3,939
Other farm receipts	4,567	20,713		14,447	2,216	12,145		4,507
Value of farm production	283,540	981,798		710,832	459,402	1,498,957		699,299
Dollar costs								
Crop expenses	38,810	113,425		84,470	89,011	237,356		123,245
Power and equipment	62,789	211,474		153,775	96,370	309,042		145,448
Building and tence	10,223	42,599		30,035	20,622	56,285		28,852
Labor	56,236	160,581		120,089	46,352	158,997		72,347
Insurance and miscellaneous	10,735	41,911		29,813	24,516	70,800		35,197
Livestock services and supplies	24,984	120,876		83,664	16,907	83,919		32,371
Interest on nonland capital	17,461	04,410		46,191	37,869	119,325		799,96
Keal estate taxes	3,770	3,997		0,909	5,852	0,872		0,087
Cash rent	15,560	52,298		38,041	30,738	75,380		45,672
Total name of some	201,12	30,020		30,300	29,392	4 20F 447		42,/24
l otal nonreed costs	262,330	852,626		623,556 700	403,648	1,205,147		588,609
Capital account adjustment	80 15	/01,1		57/	(7)			000
Management returns	23,417	139,390		94,385	64,152	315,810		177,771
rarm production per \$1.00	2	7		7	7	7		7
Of norneed costs	00.1	0.15		720 045	1. 14 260 403	1.24		070 070
Financial summan	507,303	243,709		230,913	309,403	012,330		370,078
Cash operating income	300 711	1 198 272		849 965	1 022 441	3 021 353		1 483 728
Inventory change	37 191	68 698		56 471	47 466	317 718		109 832
Accts, receivable (net change)	34.	5,009		3,052	-1.296	53.742		11,405
Less purchased feed	49.077	259,805		178,030	156,614	448.617		224,000
Less purchased livestock	5,061	13,095		9,977	452,705	1,445,240	ĺ	681,751
Gross farm returns	283,731	620'666		721,481	459,291	1,498,957		699,214
Cash operating expenses	170,206	687,978		487,051	305,276	946,037		453,144
Prepaid expenses (- if increased)	-4,189	-6,109		-5,364	-13,216	-2,883		-10,831
Accts. payable (+ if increased)	354	673		549	424	-8,218		-1,570
Total operating expenses	166,370	682,543		482,237	292,484	934,937		440,743
Income before depreciation	117,361	316,536		239,244	166,807	564,021		258,471
Less depreciation	20,846	70,737		51,377	30,895	69,859		46,810
Capital account adjustment	39	1,157		723	723	0		556
Net farm income	96,554	246,956		188,591	136,635	464,162		212,218
Net farm income per operator	87,137	136,562		117,382	128,118	351,864		179,751
Labor & mgt. income per operator 59,804	59,804	96,751		82,413	94.424	274.085		135.884

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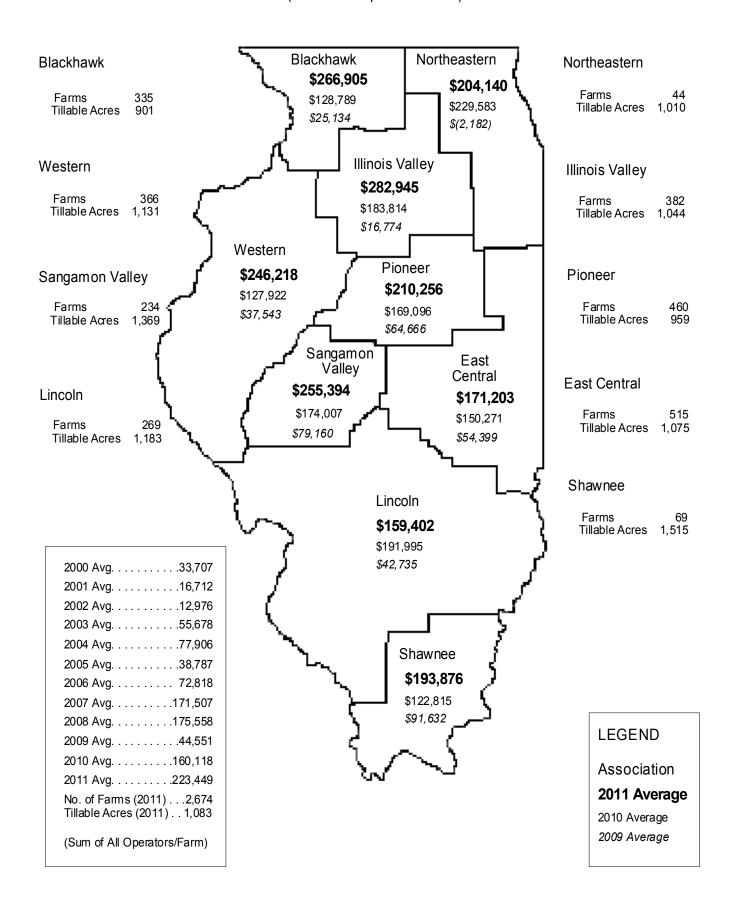
Number of farms Selected returns and costs per operator tillable acre Crop returns Livestock returns above feed Custom work, other receipts Value of farm production Soil fertility Pesticides Seed and other crop expense Crop total	26 860.15 227.51 227.51 21.75 1,109.41 62.10 62.10 77.73 67.22 67.22 67.22 67.23 67.23 67.23 67.03	961.27 746.18 39.75 1,747.20	) 	180-799	> 799	Your farm	All farms
Selected returns and costs per operator tillable acre Crop returns Livestock returns above feed Custom work, other receipts Value of farm production Soil fertility Pesticides Seed and other crop expense Crop total	860.15 227.51 227.51 1,109.41 61.62 28.13 62.10 151.85 37.05 67.22 27.73 62.63	961.27 746.18 39.75 1,747.20 100.07	29	10		>	13
per operator fillable acre Crop returns Livestock returns above feed Custom work, other receipts Value of farm production Soil fertility Pesticides Seed and other crop expense Crop total	860.15 227.51 21.75 1,109.41 61.62 28.13 62.10 151.85 37.05 67.22 27.73 51.03 62.63	961.27 746.18 39.75 <b>1,747.20</b> 100.07					
Crop returns Livestock returns above feed Custom work, other receipts Value of farm production Soil fertility Pesticides Seed and other crop expense Crop total	860.15 227.51 1,109.41 1,109.41 62.13 62.10 151.85 37.05 67.22 27.73 62.63	961.27 746.18 39.75 100.07					
Livestock returns above feed Custom work, other receipts Value of farm production Soil fertility Pesticides Seed and other crop expense Crop total	227.51 1,109.41 1,109.41 1,109.41 1,109.41 1,109.41 1,109.41 1,103 1,10	746.18 39.75 1,747.20 31.30	938.63	1,013.56	902.25		967.44
Custom work, other receipts  Value of farm production  Value of farm production  Soal fertility Pesticides Seed and other crop expense  Crop total	21.75 1,109.41 61.62 81.13 62.10 37.05 67.22 27.73 62.63	39.75 1,747.20 100.07 31.30	630.07	151.28	704.36		380.46
Value of farm production Soil fertility Pesticides Seed and other crop expense Crop total	1,109.41 61.62 81.13 62.10 151.85 37.05 67.22 27.73 67.03 62.63	<b>1,747.20</b> 100.07 31.30	35.72	12.50	22.10		16.48
Soil fertility Pesticides Seed and other crop expense  Crop total	61.62 28.13 62.10 151.85 37.05 67.22 27.73 62.63	100.07 31.30	1,604.42	1,177.35	1,628.71		1,364.38
Pesticides Seed and other crop expense  Crop total	28.13 62.10 151.85 37.05 67.22 27.73 51.03 62.63	31.30	91.46	107.19	120.25		112.60
Seed and other crop expense  Crop total	62.10 151.85 37.05 67.22 27.73 51.03 62.63	(1	30.59	38.33	44.81		41.01
Crop total	151.85 37.05 67.22 27.73 51.03 62.63	70.48	68.61	82.60	92.84		86.84
	37.05 67.22 27.73 51.03 62.63	201.85	190.66	228.12	257.90		240.46
Light vehicle and utilities	67.22 27.73 51.03 62.63	45.56	43.66	22.62	17.87		20.65
Machinery repairs, supplies	27.73 51.03 62.63	81.32	78.17	55.64	69.95		61.57
Machinery hire, lease	51.03 62.63	90.47	76.42	67.84	100.81		81.50
Fuel and oil	62.63	76.53	70.83	42.90	68.57		53.53
Machinery depreciation	245 67	82.45	78.02	57.98	78.60		66.52
Power and equipment total	10.04	376.34	347.09	246.98	335.79		283.78
Drying and storage	5.99	9.21	8.49	11.42	9.33		10.55
Building repair and rent	16.67	25.55	23.56	21.56	28.96		24.63
Building depreciation	17.34	41.05	35.74	19.87	22.87		21.11
Building total	40.00	75.81	67.79	52.85	61.16		56.29
Labor, unpaid	184.81	90.63	111.72	100.99	54.23		81.61
Labor, paid	35.23	195.13	159.34	17.80	118.53		59.54
Labor total	220.04	285.77	271.05	118.79	172.76		141.15
Insurance and miscellaneous	45.00	74.58	67.29	62.83	76.93		68.67
Livestock services and supplies	97.75	215.11	188.84	43.33	91.18		63.16
Interest on nonland capital	68.32	114.62	104.26	97.05	129.65		110.56
Other costs total	208.08	404.32	360.39	203.21	297.77		242.39
Land charge	160.78	1/3.24	1/0.45	184.52	184.09		184.34
l otal nonreed costs	1026.42	1517.33	1407.43	1034.46	1309.47		1148.42
Capital account adjustment	0.15	2.06	1.63	1.85	00:0		1.09
Management returns	83.14	231.93	198.62	144.74	319.24		217.05
Percent crop returns red	94.8	117.40	104.79	81.02	004 050		78.04
Capital purchases	35,577	146,417	103,404	81,152	067,122		113,484
Interest pald Dercent tillable land in	12, 184	37,098	767,17	31,790	18,281		42,520
	6 07	50.7	7 04	0 99	7 7 7		7 09
Coll alla coll sliage	2.04 0.04 0.04	17.4	500.4	000.0 19.4	74.1 20.8		93.4
Wheat	4.0 4.0 4.0 4.0 7.0	- 4 - 4	- c.	† 67 6	0.52		20.02
Other small grains	. w	; 0	2.5	9. 9. 9.	o c		5 0
CRD acres	- 0	o: c	i - C	o &	o c		
All hav and pasture	2. C	ο α ο α	11.	ກ ແ ເກັດ	2.5		.0
Crop vields, bushels per acre	) : !	9	) : :		ì		5
Com	154	164	162	178	147		164
Sovbeans	22	23	23	50	28		57
Wheat	61	65	49	82	0		82
Prices received							
Corn (old crop)	5.81	5.99	5.95	5.77	5.73		5.75
Corn (new crop)	60.9	5.81	2.87	6.28	5.50		5.97
Soybeans (old crop)	12.47	12.40	12.40	12.72	12.14		12.36
Soybeans (new crop) 12.01	12.01	12.14	12.10	11.70	11.52		11.68

## **Financial Characteristics of Illinois FBFM Grain Farms**

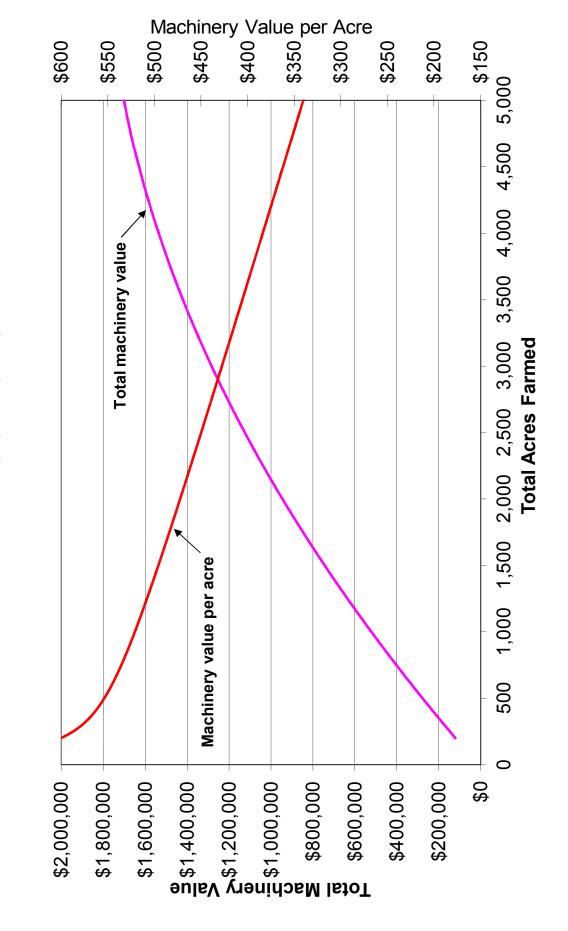
					4-Year	My
	2011	2010	2009	2008	Average	Farm
Number of Farms	2,400	2,349	2,352	2,339	2,360	
Liquidity						
Working Capital	\$347,640	\$377,259	\$316,718	\$350,701	\$348,080	
Current Ratio					•	
Upper Quartile	NA	6.10	5.64	5.79	5.84	
Median	2.78	2.56	2.31	2.51	2.54	
Solvency						
Net Worth (Market)	\$2,312,272	\$1,948,499	\$1,745,105	\$1,636,947	\$1,910,706	
Debt/Equity Ratio (%)	<b>4</b> _, <b>0</b> :_,_: _	<b>4</b> 1,0 10, 100	<b>4</b> . , ,	<b>4</b> 1,000,0 11	<b>4</b> 1,0 10,1 00	
Upper Quartile	NA	10.2	11.6	11.5	11.1	
Median	24.5	26.9	28.8	29.1	27.3	
Debt/Total Asset Ratio (%)	27.0	20.0	20.0	20.1	21.0	
Upper Quartile	NA	9.3	10.5	10.4	10.1	
Median	19.7	21.2	22.5	22.7	21.5	
Profitability		_ · · <b>_</b>	0			
Net Farm Income	\$236,336	\$179,797	\$80,038	\$196,159	\$173,083	
	φ230,336	φι/9,/9/	φου,υσο	क् १५७, १७५	φ i <i>i</i> 3,003	
Return on Farm Assets (%)	NA	13.3	6.7	17.1	12.4	
Upper Quartile Median	9.6	8.4	3.4	17.1	12. <del>4</del> 8.1	
Return on Farm Equity (%)	9.0	0.4	3.4	10.0	0.1	
Upper Quartile	NA	18.2	8.0	24.7	17.0	
Median	11.6	9.9	3.0	13.0	9.4	
	11.0	5.9	3.0	13.0	<b>3.4</b>	
Repayment Capacity						
Debt/Farm Operating Income	2.53	2.58	5.28	2.24	3.16	
Financial Efficiency (as a % o	of Gross Fari	m Returns)				
Interest Expense Ratio						
Upper Quartile	NA	8.0	1.1	1.1	1.0	
Median	2.0	2.6	3.1	2.9	2.7	
Operating Expense Ratio						
Upper Quartile	NA	48.8	62.2	49.4	53.5	
Median	54.9	56.8	71.4	57.0	60.0	
Depreciation Expense Ratio						
Upper Quartile	NA	4.7	4.9	3.4	4.3	
Median	6.6	6.8	7.0	5.0	6.4	
Farm Operating Income Ratio						
Upper Quartile	NA	42.1	28.3	43.1	37.8	
Median	35.3	33.0	17.8	34.5	30.2	
Asset Turnover Ratio						
	NA	0.47	0.44	0.55	0.49	
Upper Quartile						

#### Illinois FBFM Association

# Operators' Share of Labor and Management Income per Farm—2009, 2010, and 2011 (Sum of All Operators/Farm)



Average Machinery Values FBFM Grain Farms





FBFM is a cooperative educational-service program designed to assist farmers with management decision making. It is available to all farm operators in Illinois. There are nine local not-for-profit associations organized to provide services throughout the state. The FBFM program provides:

- Financial and production business analysis reports.
- Experienced Farm Analysis Specialist to help interpret analysis reports and counsel on management problems.
- Computer-assisted record-processing options—on-farm or service center.
- Assistance with business and family records.
- Assistance with income tax management.

To find out more about FBFM, contact the Illinois FBFM Association state office or one of the local associations listed below.

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For U of I farm management information see http://www.farmdoc.illinois.edu

Cooperating with University of Illinois Extension and the University of Illinois Department of Agricultural and Consumer Economics