

549,630,000

384,741,000

1,076,839,5

677,850,6

591,625 395.67 30

30

30

928

549,

669

30 1,319

summary of illinois farm business records 2013

Commercial Farms Production Costs Income Investments



COLLEGE OF AGRICULTURAL, CONSUMER AND ENVIRONMENTAL SCIENCES

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### ILLINOIS FARM BUSINESS FARM MANAGEMENT ASSOCIATION

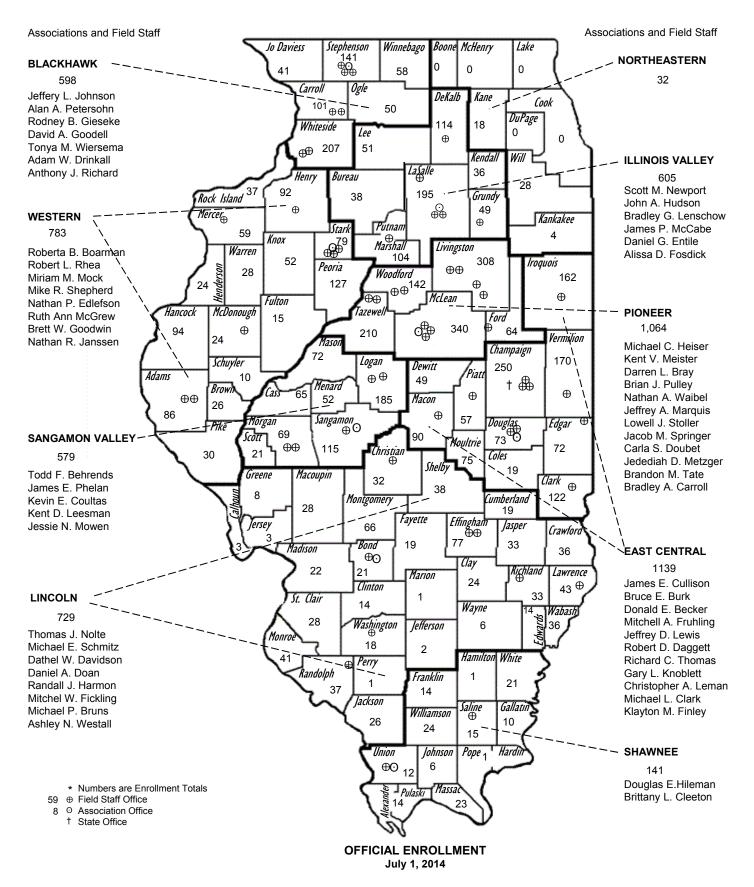
cooperating with nine local farm management associations and the

Department of Agricultural and Consumer Economics, College of Agricultural, Consumer and Environmental Sciences,

University of Illinois at Urbana-Champaign

STATE TOTAL --- 5,670 cooperating farmers and 59 member field staff\*

July 1, 2014, distribution of cooperators by counties and associations



#### SOURCE OF DATA

This report is based on data obtained from farm business records on 5,670 Illinois farms. It is the 89th 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 1,000 acres or total farm sales over \$250,000 is enrolled in this service. 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 2013, 9 associations in 102 counties were being served by 60 full-time field staff specialists and one half-time field staff specialist. 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 2013 indicate that over 95 percent of the 5,670 farms covered in this report have total sales over \$100,000. In the 2012 Census of Agriculture, farms selling \$100,000 or more accounted for 96 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 2012, there were 24,809 farms in Illinois with sales of \$100,000 or more. The figures that follow, taken from the 2012 Census of Agriculture, show that these farms represented about 60 percent of the 40,946 farms with more than \$10,000 in sales. These farms produced more almost 96 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	39.4	1.4	225
100,000–249,999	21.1	5.5	473
250,000-499,900	16.2	12.1	806
500,000+	23.3	31.4	2,993

Most of the 2013 recordkeeping farms covered in this report are within the larger groups. There were 16,172 farms identified by the census with more than \$250,000 total sales

in 2012. About a fourth of these farms (23.4 percent) were enrolled in the Illinois FBFM Association. Of the 8,637 farms in the group having from \$100,000 to \$249,999 in total sales, only 5.5 percent participated in the farm record program. Only about 1 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 2013 was 1,137 acres, compared with an average of 851 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 17) 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 18 to 22a) 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.

#### **Operator**(s)

This is the person providing labor and management to the active farming operation. If months of operator labor are 12 or less, then there is one operator for the farm. If months of operator labor are more than 12, then the number of operators is determined by dividing the months of operator labor by 12.

#### 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 18; since 1978, from the grain farm sample in Table 19; 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, \$6.07; oats, \$3.93; and wheat, \$6.96. 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 longerterm debt—is listed separately in Tables 18 to 22a 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 2013 at \$3,750 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 2013. 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 4.0 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 onehalf the cash operating expense, exclusive of interest paid. In Tables 6 and 8, 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 \$22,384.

*Land charge* or *net rent* is the bare land priced at current land values multiplied by 2.20 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 2013, using a base earning value of 1979 = 100, was 348.

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 production per man year* is the value of farm production, including the landlord's share of value of farm production divided by the outcome of total months of labor divided by 12. If total months of labor are less than 12, then the divisor is equal to one.

#### **FARM BUSINESS TRENDS IN 2013**

Illinois agriculture is based largely on crop production, especially corn and soybeans. In 2013, Illinois ranked first in the nation in soybean production and second in corn production. The total value of corn produced on Illinois farms was 15 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. Cold and wet conditions in the first part of 2013 led to a slower start to planting, with only 1 percent of the corn crop being planted by May 5. As of May 12, 17 percent of the corn crop was planted, which was well below the historical 5-year average of 64 percent and well below the 2012 average of 94 percent. Eighty-nine percent of the corn was reported as planted by May 27, compared with 100 percent the year before. It was not until June 23 that soybeans were reported 96% planted. A cooler and drier growing season led to normal crop development. A dry fall allowed corn and soybean harvest to run about the same in 2013 as the five-year average, but slower than the drought year of 2012.

*Crop yields.* With a more normal yearly temperature and precipitation, corn yields were much higher in 2013 than in 2012. Cooler temperatures during pollination increased yields in all parts of the state. The average corn yield for Illinois farms reported by the Illinois Crop Reporting Service was 178 bushels per acre, 73 bushels above the previous year's yield. This is the highest since 2008, when

it was 179 bushels. The average for 2009 through 2013 is 154 bushels per acre. Farmers participating in the Illinois FBFM program averaged 192 bushels of corn per acre in 2013, 72 bushels above the year before.

Soybean yields for all Illinois farms were reported at 49 bushels per acre in 2013. This was 6 bushels more than 2012 as well as 2 bushels more than the 5-year average and the highest since 2010, when it was 51.5 bushels. FBFM recordkeeping farms averaged 55 bushels of soybeans per acre in 2013, 3 bushels above their 5-year average and tied with 2010 for the highest yield ever. Crop yields on the 5,670 recordkeeping farms covered in this report averaged 8 to 12 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 \$1.57 cents to \$1.76 per bushel above 2012 prices (Table 1). Old-crop corn prices received in 2013 averaged 38 cents to 53 cents above those received in 2012. New-crop prices received were lower for soybeans and corn compared to the year before. The price received for new-crop corn averaged \$1.88 to \$1.91 lower than the year before, and new-crop soybeans averaged 87 cents to \$1.16 lower. Wheat sold for 38 to 52 cents less per bushel during the year. Prices received for old-crop corn sold in 2013 were below their inventory prices, resulting in a negative marketing margin and lower crop returns for corn. Old-crop soybeans, however, sold for more than their inventory price, resulting in a positive marketing margin. The year-end, new-crop inventory price for corn was \$2.90 lower than the year before; for soybeans it was \$1.25 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 2.10 billion bushels in 2013, 814 million bushels more than the previous year. The final yield was 178 bushels per acre, which was 73 bushels above the previous year's yield. The yield for the 2013 soybean crop was 49 bushels per acre, 6 bushels above the 2012 yield of 43 bushels per acre. Production totaled 462 million bushels, 20 percent above the previous year.

The 2013 yield for sorghum for grain was 94 bushels per acre, 34 bushels above the yield in 2012. Sorghum production, at 1.88 million bushels, was up 16 percent from the previous year. The yield for the 2013 winter wheat crop was 67 bushels per acre, 4 bushels per acre more than the previous year. Total production was 55.6 million bushels, 37 percent above the 2012 production of 40.6 million bushels. The oats yield, at 69 bushels per acre, was 7 bushels below 2012. Production of all hay in 2013 was 2.02 million tons, 36 percent above 2012. Alfalfa hay production was up 24 percent, to 1.22 million tons. All other hay production increased to 800,000 tons. The alfalfa yield increased from 3

Table 1.	Average Pr	ices Re	ceived	and Paid b	y Farm
	Recordkee	pers for	Grain,	Livestock	, and Milk

	201	3	20	12
	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	\$ 6.90 4.68 14.67 12.85 6.70	4.63 14.61	\$ 6.37 6.59 12.91 14.01 7.22	6.51 13.04 13.78
Livestock prices per cwt Hogs, all weights Fed cattle, all weights Feeder cattle, all weights, prices paid Dairy cattle, all weights	12 14	3.45	12 14	2.92 21.14 6.02 78.74
Milk per cwt	2	0.71	1	9.25

to 3.6 tons per acre, as well as all other hay yields increasing from 2 to 2.5 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 all livestock enterprises were higher in 2013 compared to 2012. With higher gross returns and similar feed costs, returns above feed cost were higher for all livestock enterprises. In 2013, the average prices received by farm recordkeepers in the Illinois FBFM Association were 6 percent higher for hogs, 2 percent higher for fed cattle, and 8 percent higher for milk than they were in 2012 (Table 1). The prices paid for all weights of feeder cattle purchases averaged 0.3 percent below the 2012 price for feeder cattle, and feeder pigs weighing below 20 pounds averaged 11 percent above the 2012 price. Higher returns and similar feed costs resulted in returns above feed and purchased animals for feeder cattle enterprises to increase from \$14.29 per hundredweight produced to \$21.12 (Table 10). This is below the 5-year average. Mainly due to the higher pig prices and lower feed costs, returns for farrowto-finish hog producers increased returns above feed costs to \$18.33 per hundredweight produced in 2013. This was above the 5-year average. Higher milk prices and higher beef prices caused dairy returns above feed cost per cow to increase from \$1,519 in 2012 to \$1,846 in 2013. This is above the 5-year average. Returns for beef cow herds with calves sold increased to \$169, which is also 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 2009 through 2013 on

all northern Illinois grain farms (located north of a line from Kankakee to Moline) was \$149,302 (Table 2). Operators on about 1,500 grain farms in central Illinois had 5-year average earnings of \$133,037. Central Illinois occupies the area between the Kankakee–Moline line in the north and the Mattoon–Alton line in the south. Better growing conditions and higher prices in the last couple of years have led to larger earnings from crops.

The grain farms in northern Illinois averaged 1,030 tillable acres per farm, compared with an average of 1,114 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 2009 through 2013, grain farm operators in southern Illinois averaged \$114,947 for labor and management. This average decreased by \$19,182 compared with the average for the 5-year period from 2008 through 2012.

When the average earnings on Illinois grain farms for the 5-year period from 2009 through 2013 are compared with the earnings from 2008 through 2012, earnings decreased in all areas of the state. The average for the 5-year period from 2009 through 2013 decreased 11 percent in northern Illinois, 15 percent in central Illinois, and 14 percent in southern Illinois as compared to the 5-year period 2008 through 2012. The 2013 return to operator's labor and management was lower in all parts of the state than the 2012 earnings, and all areas were below the 2009–2013 5-year average. The year dropped from the 5-year average, 2008, averaged about \$108,000 higher earnings than in 2013.

When average earnings on Illinois livestock farms for the 5-year period from 2009 through 2013 are compared with the earnings from 2008 through 2012, earnings increased for hog enterprises but decreased for beef and dairy enterprises. The average for the 5-year period from 2009 through 2013 increased 3 percent for hog farms, decreased 37 percent for beef farms, and decreased 20 percent for dairy farms as compared to the 5-year period 2008 through 2012.

In 2013, the labor and management income for all areas of Illinois averaged \$62,642 per farm. This figure is \$172,790 below the 2012 state average. Returns averaged \$82,596 below the average for the 5-year period 2009 through 2013. Lower new-crop prices was the main reason for the lower incomes, even with higher yields. The new-crop grain prices resulted in minimum farm program payments in 2013, just like in 2012.

Corn yields were well above the yields recorded the year before. The average corn yield on the 2,597 farms in 2013 was 192 bushels per acre, 72 bushels above the 2012 yield. The average soybean yield in 2013 was 55 bushels per acre, 7 bushels higher than the 48 reported in 2012. Corn and soybean yields were generally highest in the central part of the state from north to south. Wet conditions in the spring led to later planting, especially in the eastern and western portions of the state. The average corn yield was the highest

#### Table 2. Operator's 5-Year Average Share of Labor and Management Income by Size and Type of Farm, 2009 Through 2013

21	, 0					
		Number	of acres per	farm <sup>a</sup>		
	Under 800	800 to 1,199	1,200+	All		
		North	ern Illinois			
Tillable acres	475	993	2,100	1,030		
Labor and manag	ement ea	rnings by ty	pe of farm			
Grain	\$70,419	\$152,403	\$295,077	\$149,302		
		Centra	al Illinois			
Tillable acres	519	878	1,911	1,114		
Labor and management earnings by type of farm						
Grain <sup>b</sup>	\$76,213	\$139,928		\$151,869		
Grain <sup>c</sup> All	62,111	109,487	164,594			
All	70,156	127,385	211,784	133,037		
		South	ern Illinois			
Tillable acres	498	984	2,106	1,344		
Labor and manag	ement ea	rnings by ty	pe of farm			
Grain	\$43,199	\$97,125	\$172,350	\$114,947		
		Illinois	s livestock			
Labor and manag	ement ea	rnings by ty	pe of farm			
Hog		d	d	\$79,981		
Beef	d	d	d	20,739		
Dairy	d	d	d	29,020		
aTillable acres.						

Tillable acres.

<sup>b</sup>Highly productive soils, with soil productivity ratings from 86 to 100. <sup>c</sup>Heavy-till and transition soils, with soil productivity ratings from 56 to 85. <sup>d</sup>Data not available.

since 2008, and the average soybean yield was tied with 2010 for the highest yield.

Year-end inventory price for the 2013 corn crop of \$4.10 per bushel was \$2.90 cents per bushel lower than a year earlier. Soybeans were inventoried at \$13.00 per bushel, \$1.24 lower than December 31, 2012. The average sales price received for the 2012 corn crop sold in 2013 was below the inventory price, resulting in a negative marketing margin, unlike the 2012 soybean crop sold in 2013, which had a positive marketing margin. Crop returns averaged \$740 per tillable acre, \$157 per acre lower than the 2012 crop returns. The average crop returns per acre were the third highest on record.

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 percent interest on nonland investment, and a land-use charge equivalent to the average net rent received by landowners for crop-share leases from 2009 to 2012.

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 \$80,000 is needed to pay living expenses and income and Social Security taxes, figures for the lowest of the 5-year average labor and management incomes indicate that the average farm operator's family uses up to \$60,000 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. Off-farm 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 2,519 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.

*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 2,519 farms was \$329,910, down 17 percent from \$396,050 a year earlier. Grain farms had the greatest working capital, averaging \$340,280, while dairy farms had the least, averaging \$86,778. 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 2.62, down from 3.07 a year ago. Grain farms recorded the highest (most healthy) current ratio, and beef farms the lowest. The 2013 current ratio was the third 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 2,519 farms at the end of 2013 was \$2,851,045, up from \$2,750,068 the year before. Average farm and nonfarm incomes in 2013 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 18.5. The debt-to-farm asset percentage ranged from 18 for grain farms to 28.2 for dairy farms. The average debt-to-farm asset level of 18.2 from 2012 was at its lowest level for at least 15 years.

Table 3.	Financial	Characteristics	of Illinois Farms	s for 2013 by	Type of Farm
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	All farms	Grain farms	Hog farms	Dairy farms	Beef farms
Number of farms	2,519	2,398	28	57	36
Liquidity					
Working capital	\$329,910	\$340,280	\$336,910	\$86,778	\$153,224
Current ratio	2.62	2.65	2.22	2.11	1.63
Solvency					
Net worth (market)	\$2,851,045	\$2,889,508	\$2,391,198	\$1,808,433	\$2,297,360
Debt-farm equity (%)	22.6	22.0	30.1	39.2	39.1
Debt-farm asset (%)	18.5	18.0	23.0	28.2	28.1
Profitability					
Farm operating income	\$98,414	\$100,364	\$77,558	\$49,985	\$61,469
Return on farm assets (%)	2.5	2.5	3.0	0.4	1.3
Return on farm equity (%)	2.3	2.4	2.8	-0.7	0.4
Financial efficiency					
Interest expense ratio (%)	2.0	2.0	3.4	4.6	5.1
Operating expense ratio (%)	68.6	68.3	75.2	75.1	68.5
Depreciation expense ratio (%).	10.0	10.0	6.9	10.4	9.1
Farm operating income ratio (%)	17.1	17.4	12.9	11.3	11.6
Asset turnover ratio	0.23	0.23	0.23	0.21	0.15

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 2,519 farms was 2.5 percent, down from 8.3 percent a year earlier. Hog farms recorded the highest returns, averaging 3 percent, while dairy farms recorded the lowest, averaging 0.4 percent. Return on farm equity in 2013 ranged from 2.8 percent for hog farms to a *negative* 0.7 percent for dairy farms. The average was 2.3 percent, down from 9.8 percent in 2012.

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 percent for the 2,519 farms, ranging from 2 percent for grain farms to 5.1 percent for beef farms. The 2 percent was up from 1.9 percent in 2012. The 2012 figure is the

lowest since at least 1995. The farm operating income ratio ranged from a high of 17.4 percent for grain farms to 11.3 percent for dairy farms. The average for all farms in 2013 was 17.1 percent, down from 33.5 percent in 2012. The 2009 through 2013 5-year average farm operating income ratio is 26.9 percent. The 2013 farm operating income ratio is below the 5-year average.

#### Family living expenditures

Total cash living expenditures for a sample of 1,307 Illinois sole-proprietor, farm-operator families in 2013 averaged \$80,716 (Table 4). This figure is 5.3 percent higher than the 2012 average. Capital purchases for family living expenses of \$8,414 include the family's share of the auto, plus items that exceed \$250 and will last more than 1 year. Capital purchases for family living were 9.4 percent of the total cash outlay for all family living expenditures in 2013.

The average farmer in this sample paid \$20,530 in interest in 2013 on operating, machinery, and long-term real estate debts. This interest expense was 4 percent of total operating expense (including interest paid) and 2.8 percent

		All records, ave	rage per farm		Family of	3 to 5, 2013 <sup>a</sup>
	2013	2012	2011	2010	High-third	Low-third
Number of farms	1,307	1,300	1,273	1,200	148	148
Age of operator	55	56	55	55	50	48
Number in family	2.7	2.8	2.9	2.9	4.0	3.7
Net farm income	\$105,902	\$262,917	\$242,735	\$176,886	\$148,633	\$91,470
Source of dollars						
Net nonfarm income	\$ 38,019	\$ 36,778	\$ 35,454	\$ 35,976	\$ 53,629	\$ 27,342
Money borrowed	418,038	428,234	398,860	361,671	636,381	310,956
Farm receipts	736,101	777,953	669,116	<u>563,312</u>	<u>1,029,299</u>	<u>654,670</u>
Total sources	\$1,192,158	\$1,242,965	\$1,103,430	\$960,959	\$1,719,309	\$992,968
Use of dollars						
Interest paid	\$ 20,530	\$ 22,425	\$ 22,749	\$ 22,388	\$ 29,584	\$ 16,721
Cash operating expenses	497,855	491,725	451,756	388,256	706,647	442,165
Capital farm purchases	130,006	119,816	104,621	84,055	180,019	113,391
Payments on principal	365,513	396,479	370,759	327,000	506,491	283,973
Income and Social Security taxes	40,328	26,718	19,726	20,064	55,103	34,365
Net new savings and investments	48,796	100,790	54,161	44,987	94,175	46,783
Contributions	3,874	3,823	3,066	2,935	6,214	1,843
Medical expenses	10,417	10,100	9,322	8,928	13,345	7,034
Life insurance	4,492	4,036	3,702	3,442	6,323	2,750
Expendables	<u>61,933</u>	<u>58,709</u>	<u>55,839</u>	52,300	_107,362	39,363
Total living expenses	(\$ 80,716)	(\$ 76,668)	(\$ 71,929)	(\$ 67,605)	(\$ 133,244)	(\$ 50,990)
Living—capital purchases	8,414	8,344	7,729	6,604	14,046	4,580
Total uses	\$1,192,158	\$1,242,965	\$1,103,430	\$960,959	\$1,719,309	\$992,968

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

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

of total farm receipts. The average amount of interest paid in 2013 was \$1,895 less than the amount paid in 2012. Here are the most significant financial facts about 2013:

- Net farm income plus net nonfarm income was \$14,463 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 \$103,596 more than family living expense and taxes for the period 2009 through 2013. The 2012 figure of \$187,966 is the largest positive margin ever.
- Net nonfarm income averaged \$38,019 and was the highest amount since this study began. This was \$1,241 more than the 2012 figure of \$36,778.
- Capital purchases were \$130,006, compared to \$119,816 in 2012, or 8.5 percent more. They were \$25,282 higher than the average for 2009 through 2013 and at their highest level ever.
- The amount of money borrowed exceeded principal payments for the 25th year in a row. Money borrowed exceeded principal payments by \$52,525. For the 2009 through 2013 time period, money borrowed has exceeded principal payments by an average of \$33,671.
- Of the total living expenses—excluding family capital purchases—charitable contributions accounted for 5 percent, life insurance 5 percent, medical expenses 13 percent, and family living expendables the remaining 77 percent.
- Income and Social Security taxes paid increased by \$13,610, and the total amount of taxes paid, \$40,328, was \$14,827 above the 5-year average for the period 2009 through 2013.
- Medical expenses averaged \$10,417, the second time the average has exceeded \$10,000. Expenses were 3.1 percent higher than the year before.

The 2013 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 expenses for the high-third group averaged \$133,244, compared with \$50,990 for the low-third group. The high-third group had gross farm receipts of \$1,029,299, compared to \$654,670 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 lowthird group had \$29,008 more remaining than the high-third group. The high-third group had a balance remaining of a *negative* \$131 compared to \$28,877 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 1,307 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 \$64,500 and \$68,600, or 15 to 20 percent below the average total living expenses of these 1,307 Illinois farms. When the \$38,019 net nonfarm income for 2013 is used for living expenses, the remaining \$51,111 must be generated from the farm business to pay the \$89,130 used for total living expenses, including family living capital purchases. The figure of \$51,111 amounts to 6.9 percent of total farm receipts.

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

The average operator's net farm income for all farms in 2013 was \$127,664; it was \$298,028 in 2012 (Table 5). The 2012 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

# Table 5. Percent of Illinois Farms and Operator Net Farm Income by Interest Paid as a Percent of Gross Farm Returns, 2009 Through 2013

		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									
2009	27	43	21	6	1	2	100		
2010	30	47	18	4	1	1	100		
2011	33	50	13	3	a	a	100		
2012	37	50	11	2	a	a	100		
2013	36	46	14	3	1	a	100		
Net farm income									
2009	111,504	100,971	43,854	4,597	(9,926)	(56,892)	84,202		
2010	227,690	223,370	172,298	95,174	<b>5</b> 5,317	<b>6</b> ,334	204,631		
2011	270,468	305,089	227,664	158,433	42,705	(51,794)	273,612		
2012	296,370	329,186	197,285	217,127	(17,723)	(487,188)	298,028		
2013	144,794	135,286	108,968	115,281	<b>`93,16</b> 2	(64,720)	127,664		

aLess than 1 percent.

farm income is usually negative. Interest paid as a part of gross farm returns for all operators averaged 2.8 percent in 2013, 2.5 percent in 2012, 2.8 percent in 2011, 3.3 percent in 2010, and 3.8 percent in 2009. The 2.5 percent figure for 2012 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 farms having between 800 and 1,199 acres, or an average of 987 tillable acres. It also includes hog, beef, and dairy farms with 180 or more acres. Labor available on farms of this size averaged 15 months on grain farms, 38 months on hog farms, 19 months on beef farms, and 43 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 2013 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 included with total cash expenditures. Although the cash balance reflects the cash position of the farm business, 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 800 to 1,199 acres and no livestock averaged \$110,635 in 2013 (Table 6). This income was \$157,656 below that of 2012 and \$66,630 below the 5-year average income for 2009 through 2013. The 2012 net farm income was the highest in the last 30 years. The value of farm production averaged \$655,732, which was \$127,429 below 2012 and \$26,115 above the 2009 through 2013 average. The 2012 value of farm production was the

highest since this study began. The value of farm production included an \$11,390 increase in inventory values compared to 2012, when the inventory value decreased by \$14,785. Net cash operating income (adjusted gross) was \$698,730, \$94,974 higher than the 5-year average. Total cash operating expenses were \$10,426 higher than the year before, while depreciation of \$68,769 was 18 percent higher than the year before and 44 percent higher than the 2009 through 2013 average. Total cash operating expenses for 2013 were the highest on record.

Incomes were lower on these farms in 2013 compared to 2012. Lower prices, a negative marketing margin on corn, and higher drying costs were the main factors for the lower incomes. The average soybean yield on these farms in 2013 was 54 bushels per acre, compared to 48 the year before. The average corn yield was 192 bushels per acre, compared to 119 the previous year. Corn was inventoried \$2.90 lower at the end of 2013 compared to the beginning; soybeans were inventoried \$1.25 lower.

#### Table 6. Averages for Selected Total Farm Items on 800- to 1,199-Acre Illinois Grain Farms

			2009–13
	2013	2012	average
Number of farms	566	600	621
Total acres	1,037	1,039	1,003
Soil-productivity rating	82	82	79
Percent land owned	18	17	17
Percent land crop-shared	44	44	43
Percent land cash-rented	38	39	37
Cash operating income	\$711,372	\$745,654	\$615,426
Less purch. feed, livestock	12,641	12,226	11,670
Net cash operating income	\$698,730	\$733,428	\$603,756
Accounts receivable chg	(54,388)	64,518	928
Inventory change	11,390	<u>(14,785)</u>	24,933
Value of farm prod	\$655,732	\$783,161	\$629,617
Total cash op. expenses	\$474,266	\$463,840	\$408,138
Prepaid-unpaid change	2,061	(7,192)	(3,639)
Annual depreciation	68,769	58,223	47,853
Net farm income	\$110,635	\$268,291	\$177,265
Net farm inc. per operator	\$105,711	\$254,810	\$168,858
Unpaid labor charge	42,754	41,165	37,051
Returns to capital & mgmt	67,881	227,126	140,215
Interest charge on capital	_58,467	55,069	45,855
Management returns	\$ 9,414	\$172,057	\$ 94,360
Total cash income <sup>a</sup>	\$698,730	\$733,428	\$603,756
Total cash expenditures <sup>a</sup>	<u>611,493</u>	<u>589,561</u>	<u>514,185</u>
Cash balance	\$ 87,238	\$143,868	\$ 89,571
Capital purchases	137,226	125,721	106,047

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

The higher quantities in ending inventory caused the value of inventories to increase \$11,390 at the end of the year compared to the beginning. Crop returns averaged \$820 per tillable acre in 2013 compared to \$990 in 2012. Crop expenses per acre increased 3.3 percent. This was the fifth year for 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 2013 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 2013 was 95.4 percent, down from 96.1 percent in 2012. Corn acres decreased slightly from 54.5 percent of tillable acres in 2012 to 53 percent in 2013, while soybean acres increased from 41.6 to 42.4 percent.

The average prices received in 2013 for new-crop corn and soybeans of \$4.64 and \$12.87, respectively, were much lower for corn and soybeans than in the previous year. The average prices received for old-crop corn and soybeans, \$6.92 and \$14.68, respectively, were higher than the year before for soybeans and corn. The corn price received was less than the inventory price, while the soybean price was above the inventory price. Capital purchases of \$137,226 in 2013 were \$11,505 more than in 2012 and \$31,179 above the 2009 through 2013 average. Capital purchases were the highest of any year during the last 10 years.

While accrual net farm incomes averaged \$110,635, management returns were \$9,414 in 2013, compared to \$172,057 in 2012 and the 2009 through 2013 average of \$94,360. The value of farm production per man year was \$692,609. The amount of interest paid of \$16,921 was the lowest for any type of farm in Tables 6 and 8. Operators for these farms owned 18 percent of the land they farmed, crop-shared 44 percent, and cash-rented 38 percent. Of the total labor of 14.8 months, only 3.4 months were hired labor. The total months of labor used on these grain 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 98.5 percent of their tillable land to grow corn and soybeans, with 53.8 percent of the acres in corn and 44.7 percent in soybeans. The table compares 2013 costs per acre with 2012 costs. In 2013, the total cost per acre averaged \$966 for corn and \$715 for soybeans. From 2012 to 2013, the total cost per acre increased 4 percent for corn and soybeans.

Nonland costs of \$3.53 per bushel for corn and \$7.67 for soybeans in 2013 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 decreased for corn and soybeans from 2012 to 2013. Costs per bushel for corn decreased due primarily to much higher yields. Total costs per bushel decreased \$2.47 for corn and \$1.43 for soybeans. If the 2013 yield for corn had been 163 bushels, the same as the average for the period from 2010 through 2013, the total cost per bushel would have been \$5.93. 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 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 build-ings. The adjusted net rent was the average net rent received by crop-share landlords as reported on recordkeeping farms for the period 2009 through 2012.

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

Grain Farms with No Livestock								
	Co	rn	Soyb	eans				
	2013	2012	2013	2012				
Number of farms	641	680	641	680				
Acres grown per farm	698	707	580	541				
Yield per acre, bu	197	126	58	50				
Variable nonland costs								
Soil fertility	\$193	\$200	\$ 65	\$68				
Pesticides	66	59	40	36				
Seed	114	108	73	69				
Drying and storage Machinery repairs, fuel,	32	23	5	5				
and hire	_63	61	55	<u> </u>				
Total, variable costs	\$468	\$451	\$238	\$231				
Other nonland costs								
Labor	\$ 48	\$ 45	\$ 45	\$ 43				
Buildings	16	17	14	14				
Machinery depreciation .	63	55	55	48				
Nonland interest	51	55	46	49				
Overhead	_50	47	47	44				
Total, other costs	\$228	\$219	\$207	\$198				
Total, nonland costs	\$696	\$670	\$445	\$429				
Land costs								
Taxes	\$ 40	\$ 39	\$ 40	\$ 39				
Adjusted net rent	<u>230</u>	<u>220</u>	<u>230</u>	<u>220</u>				
Total, land costs	\$270	\$259	\$270	\$259				
Total, all costs	\$966	\$929	\$715	\$688				
Nonland cost per bu	\$3.53	\$5.32	\$ 7.67	\$8.58				
Total, all costs per bu	\$4.90	\$7.37	\$12.33	\$13.76				
Average yield, past 4 yrs	163	181	55	56				
Total, all costs per bu	\$5.93	\$5.13	\$13.00	\$12.29				

*Hog farms.* The operator's net farm income in 2013 for Illinois hog farms having 180 acres or more averaged \$116,789 (Table 8). Net incomes were \$112,540 lower than net incomes in 2012 and \$52,777 lower than the average for the 5-year period from 2009 through 2013. The cash balance on these farms of \$94,142 was \$29,518 less than in 2012 and \$24,663 above the average for the 5-year period from 2009 through 2013. Inventories on these farms increased \$66,471 in 2013, following a \$27,289 decrease in 2012. The value of farm production of \$1,069,954 was \$253,540 less than in 2012 and \$877 lower than the average for the 5-year period from 2009 through 2013. Farm production per man year was \$433,962. Incomes on hog farms decreased in 2013 due to lower crop returns. Depreciation of \$77,938 was \$2,097 higher than in 2012.

Management returns were a *negative* \$16,093 in 2013 compared to \$105,313 in 2012. Management returns were \$121,406 less than in 2012 and \$82,892 below the average for 2009 through 2013. Capital purchases were \$128,261,

which was \$3,986 lower than in 2012 and \$17,588 higher than the average for 2009 through 2013. Farm production per one dollar of nonfeed costs of 96 cents was the highest for any type of livestock farm in Illinois. Purchased feed and livestock for this group totaled \$926,013, \$235,646 less than in 2012. The average interest paid on these farms was \$31,519. That was the lowest of the livestock farms in this size range. Farm operators in this group owned 24 percent of the land they farmed, crop-shared 18 percent, and cashrented 57 percent. Total labor was 37.5 months, 23.9 months of which was hired. Corn was planted on 61.7 percent of the acres and soybeans on 32.8 percent. The average corn yield was 193 bushels per acre and the average soybean yield 57 bushels per acre.

*Beef farms.* The operator's net farm income for Illinois beef farms having 180 acres or more averaged \$55,217 in 2013 (Table 8). This figure was \$98,993 lower than the 2012 figure and \$46,753 lower than the average from 2009 through 2013. Lower crop returns contributed to the

Table 8.	Averages f	or Selected <sup>-</sup>	Total Farm	Items on	Illinois Hog.	, Beef, and Da	iry Farms

	Hog farms		Beef farms			Dairy farms			
-			2009–13			2009–13			2009–13
	2013	2012	average	2013	2012	average	2013	2012	average
Number of farms	47	47	50	30	29	23	56	49	56
Total acres	1,046	1,133	1,011	700	715	686	616	640	561
Soil-productivity rating	79	80	80	75	73	74	70	68	69
Percent land owned	24	20	22	40	44	41	38	39	41
Percent land crop shared	18	24	21	18	16	16	3	3	4
Percent land cash rented	57	56	57	42	40	43	59	58	55
Cash operating income	\$2,015,377	\$2,442,387	\$1,839,823	\$1,737,974	\$1,442,508	\$1,337,746	\$1,107,839\$	61,138,496	\$859,617
Less purch. feed, livestock	926,013	<u>1,161,659</u>	<u>843,209</u>	1, <u>135,013</u>	867,650	804,520	<u>277,881</u>	263,984	<u>198,732</u>
Net cash oper. income	\$1,089,365	\$1,280,728	\$996,615	\$602,961	\$574,858	\$533,226	\$829,958	\$874,512	\$660,885
Accounts receivable change	(85,882)	70,185	(5,349)	(52,008)	54,293	733	(33,722)	54,024	2,739
Inventory change	66,471	(27,289)	<u>49,565</u>	23,496	24,259	<u>32,632</u>	13,471	<u>(22,023)</u>	17,257
Value of farm prod	\$1,069,954	\$1,323,624	\$1,070,831	\$574,449	\$653,410	\$566,591	\$809,707	\$906,513	\$680,881
Total cash oper. expenses	\$866,962	\$1,024,821	\$816,462	\$459,461	\$448,344	\$422,135	\$653,006	\$653,396	\$519,709
Prepaid-unpaid change	8,265	(6,366)	(6,612)	(1,352)	(2,733)	(4,644)	2,514	(13,227)	(1,425)
Annual depreciation	77,938	75,841	61,415	61,123	53,590	47,130	82,188	73,325	_56,408
Net farm income	\$116,789	\$229,329	\$169,566	\$55,217	\$154,210	\$101,970	\$71,998	\$193,018	\$106,189
Net farm inc. per operator	\$75,445	\$152,737	\$109,698	\$47,112	\$109,016	\$82,033	\$53,434	\$107,317	\$68,705
Unpaid labor charge	51,008	46,287	44,773	48,375	48,786	44,970	53,973	60,098	51,217
Returns to capital & mgmt	65,781	183,042	124,793	6,842	105,423	57,000	18,025	132,920	54,972
Interest charge on capital	81,874	77,729	57,994	<u>75,570</u>	70,057	60,003	56,249	64,375	47,170
Management returns	(\$16,093)	\$105,313	\$66,799	(\$68,728)	\$ 35,366	(\$ 3,002)	(\$38,223)	\$ 68,544	\$ 7,802
Total cash income <sup>a</sup>	\$1,089,365	\$1,280,728	\$996,615	\$602,961	\$574,858	\$533,226	\$829,958	\$874,512	\$660,885
Total cash expenditures <sup>a</sup>	995,223	<u>1,157,068</u>	<u>927,135</u>	<u>564,777</u>	<u>581,594</u>	<u>520,551</u>	<u>806,495</u>	<u>784,488</u>	<u>619,912</u>
Cash balance	\$ 94,142	\$ 123,660	\$ 69,479	\$ 38,184	(\$ 6,737)	\$ 12,675	\$ 23,463	\$ 90,024	\$ 40,973
Capital purchases	128,261	132,247	110,673	105,315	133,251	98,416	153,488	131,093	100,203

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

lower earnings. Net farm income for these farms was the lowest of any type of livestock farm in the sort. Feed cost per hundredweight produced increased 2 percent, while the average price received for market cattle increased 1.9 percent in 2013 compared to 2012. The price paid for feeder cattle went down about 0.3 percent from the year before. The value of farm production for this group of farms averaged \$574,449, or \$78,961 less than in 2012. Cash operating income averaged \$1,737,974, purchased feed and livestock totaled \$1,135,013, and net cash operating income averaged \$602,961.

Management returns of a *negative* \$68,728 in 2013 for these farms were the lowest for any type of livestock farm in the study. Management returns averaged a *negative* \$3,002 for the period 2009 through 2013. Capital purchases were \$105,315 in 2013, compared to \$133,251 in 2012 and \$113,484 in 2011. The 2009 through 2013 average was \$98,416. Depreciation of \$61,123 was \$7,533 above 2012. Cash operating expenses, excluding purchases of feed and livestock, totaled \$459,461. The net cash balance for these farms was \$38,184.

Costs and returns to produce beef from 2010 through 2013, 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 the other years, 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 40 percent of the land they farmed. They crop-shared 18 percent and cashrented 42 percent. The amount of interest paid was \$41,553. They planted 61.9 percent of their tillable land to corn or corn silage. They also had 9.4 percent of their tillable land in hay and pasture. These farms used 18.6 months of total labor, with 5.7 of that hired labor. The average corn yield on these farms was 184 bushels per acre, and the average soybean yield was 58 bushels per acre. In 2012, corn and soybeans yields on these farms averaged 106 and 51 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 180 acres or more averaged \$71,998 in 2013 (Table 8). This figure was \$121,020 below the 2012 figure and \$34,191 below the 5-year average from 2009 through 2013. The highest income was recorded in 2011. The farms averaged 36,020 hundredweight of milk produced.

Lower crop returns was the main factor for the decrease in earnings. The value of farm production was \$809,707. This was \$96,806 lower than 2012 and \$128,826 higher than the 2009 through 2013 average. The value of inventory increased by \$13,471, while cash operating income decreased by \$30,657. Cash operating expense totaled \$653,006,0.1 percent less than in 2012. (A detailed breakdown of the cost of producing milk is given in Table 16.) Management returns of a *negative* \$38,223 were \$106,767 lower than the 2012 figure and \$46,025 lower than the 5-year average from 2009 through 2013. Capital purchases increased to \$153,488 in 2013, compared to \$131,093 in 2012 and \$111,238 in 2011. The 2009 through 2013 average was \$100,203. This is the highest amount of capital purchases ever for these types of farms. Annual depreciation on these farms averaged \$82,188. These farms used 43 months of total labor, 28.6 months of which was hired labor. The total labor used was the highest for any type of livestock farm in the state. The average interest expense paid by these operators was \$32,951.

Farm operators in this group owned 38 percent of the land they farmed and cash-rented 59 percent. About 11 percent of the land they farmed was in hay ground; 50.6 percent was in corn and corn silage. Over 125 percent of the value of crop produced was fed to livestock. The average corn yield was 184 bushels per acre for these farms, which is 80 bushels per acre more than in 2012. The average price received for milk in 2013 was 6 percent higher than the average price received in 2012.

#### LIVESTOCK ENTERPRISES

The returns per \$100 of feed fed from various livestock enterprises and the price of corn during each of the past 15 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 1999 through 2013 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 \$138 in 2013 were above the 5-year average of \$137. The 2013 return was below the 1999 through 2013 average. 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 (2009 through 2013) to be below the previous 5-year period and below the 15-year average of \$143. The 2013 return of \$125 per \$100 of feed fed was \$12 below 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 \$1,846 per cow in 2013 was \$263 above the 5-year average of \$1,583 (Table 10). These returns indicate that the average dairy enterprise has not covered the total estimated cost of production of \$2,071 per cow from 2008 through 2012. The 2013 return per \$100 of feed fed of \$156 was below the past 5-year average of \$158.

For the beef-herd enterprise, the average returns above the cost of feed and purchased animals for the period from 2009 through 2013 showed great volatility. Producers in 2009 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 \$130 during the past 5 years. The 2013 return of \$169 covered feed costs, but not total nonfeed costs, estimated at \$235 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

	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 (\$)
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
2012	120	127	a	117	146	125	79	6.74
2013	138	133	a	125	156	131	a	6.07
Averages								
1999–2013	164	137	a	143	193	136	a	3.46
1999–2003	182	144	356	153	213	141	137	2.06
2004–2008	174	138	276	140	210	136	126	3.01
2009–2013	137	129	a	137	158	129	a	5.32

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

<sup>a</sup>Data not available

	Hogs (per cwt)	Feeder-pig finishing (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					
2009	\$ 7.50	\$ 3.46	\$13.43	\$ 838	\$ 32
2010	19.71	15.36	35.94	1,506	115
2011	20.18	18.88	36.77	2,205	189
2012	9.98	10.17	14.29	1,519	145
2013	18.33	<u>13.09</u>	<u>21.12</u>	<u>1,846</u>	<u>169</u>
Five-year average	\$15.14	\$12.19	\$24.31	\$1,583	\$130
Nonfeed costs, 2008 through 2012 <sup>b</sup>					
Direct cash	\$10.79	\$ 6.75	\$15.67	\$1,467	\$147
Other costs	8.26	3.99	<u>11.81</u>	604	88
Total	\$19.05	\$10.74	\$27.48	\$2,071	\$235

Table 10.	Variations in Return	s to Livestock Enterpris	e Units, 2009 Through 2013

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

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

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 26 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 2013 was 327 litters. Average pigs weaned per litter, 9.87, was above the 2012 figure of 9.59. The 2,561 pounds of pork produced per litter was 144 pounds higher than in 2012. The 2013 records summarized here for the "all farms" group show that the return of \$18.32 above feed costs per 100 pounds of pork produced was \$8.34 above the 2012 return of \$9.98. The 2013 return was above the 5-year average.

The 5-year average return above feed costs per 100 pounds produced was \$15.14 (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 \$19.05 per 100 pounds to pay for all nonfeed costs in the 2008 through 2012 time period. The return above all costs during this 5-year period of *negative* \$3.91 (\$15.14 minus \$19.05) 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 until this year. Fortunately, strong export demand has supported pork prices. Depending on adjustments in pork production levels due to the outbreak of porcine epidemic diarrhea virus (PEDv), the pork industry may return to profitability in 2014. Pork production was up 2.2 percent in 2012, but down 0.3 percent in 2013. It is expected to decrease about 1.8 percent in 2014 due to PEDv.

The farrow-to-finish enterprise records for 2013 reported in Table 11 were also sorted by the number of litters produced. The group farrowing 350 or more litters averaged 683 litters. Compared with the average feed cost for all farrow-to-finish enterprises, feed cost per 100 pounds of pork produced was \$1.44 lower for the 350-or-more litter group.

The large producers paid less per hundredweight for concentrates and had a slightly higher feed conversion. The average price received for hogs sold by large producers, or the net at the farm, was 3 cents less 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 2013 decreased 0.3 percent due to more efficient production, primarily more pigs farrowed and weaned, causing producers to slow down production. Pork production in 2014 is expected to decrease compared to 2013. Hog prices have moved higher due to greater demand 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 2010, 2011, 2012, and 2013. The value of the feed fed to hogs was more than 40 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 2013 were \$60.41 per 100 pounds of pork produced. Feed is included as a cash cost, although for some producers a 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 decreased less than 1 percent as one compared 2013 to 2012. Total nonfeed costs decreased 73 cents per 100 pounds of pork produced, with maintenance and Table 11. Hog Enterprises, 2013 Averages per Farm

		Farrow-to-finish
	All farms	enterprises <sup>a</sup>
Number of farms	26	9
Pork produced, lbs	837,232	1,805,397
Pork prod. per litter, lbs	2,561	2,643
Total returns	\$552,269	\$1,185,336
Value of feed fed	\$398,840	\$834,038
Returns per \$100 feed fed	\$138	\$142
Number litters farrowed	327	683
Pigs farrowed per litter	11.45	11.89
Pigs weaned per litter	9.87	10.26
Litters per female year	1.92	1.99
Pigs weaned per female year	17.67	18.72
Number pigs weaned	3,227	7,008
Death loss, % lbs produced Wt per market	2.9	2.6
hog sold, lbs	266	265
	per cv	wt produced
Price received-market	\$67.19	\$67.16
Total returns	65.96	65.66
Feed costs	<u>47.64</u>	<u>46.20</u>
Return above feed	\$18.32	\$19.46
Farm grains/complete feed, lbs	235	234
Commercial feed, lbs	82	<u>76</u>
Total concentrates, lbs	317	310
Cost per cwt supplement	\$26.91	\$27.32
Cost per cwt concentrates	\$15.04	\$14.93

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

#### Table 12. Average Costs and Returns for Farrow-to-Finish Hog Enterprises, 2010 Through 2013

	2013	2012	2011	2010	2010–13 average
Number of farms	14	13	9	9	11
Tillable acres	823	765	734	720	761
Number of litters	422	660	736	818	659
Total returns	\$63.96	\$60.19	\$65.35	\$53.69	\$60.80
-		pe	er cwt pork produ	ced	
Cash costs					
Feed	\$49.71	\$49.74	\$41.68	\$32.95	\$43.52
Operating expenses					
Maintenance and power <sup>a</sup>	\$ 4.36	\$ 5.15	\$ 5.45	\$ 6.39	\$ 5.34
Livestock expenses	5.23	4.69	4.22	3.92	4.52
Insurance, taxes, and overhead	<u>1.11</u>	_1.04	1.39	1.36	1.23
Total operating expenses	\$10.70	\$10.88	\$11.06	\$11.67	\$11.08
Total cash costs	\$60.41	\$60.62	\$52.74	\$44.62	\$54.60
Other costs					
Depreciation <sup>b</sup>	\$1.86	\$1.88	\$1.76	\$1.89	\$1.85
Labor	5.03	4.95	4.43	4.59	4.75
Interest charge on all capital	<u>1.11</u>	<u>1.72</u>	<u>1.75</u>	1.75	1.58
Total other costs	\$8.00	\$8.55	\$7.94	\$8.23	\$8.18
Total nonfeed costs	\$18.70	\$19.43	\$19.00	\$19.90	\$19.26
Total all costs	\$68.41	\$69.17	\$60.68	\$52.85	\$62.78
Return above all costs	(\$4.45)	(\$8.98)	\$ 4.67	\$ 0.84	(\$ 1.98)

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

bIncludes machinery, equipment, and building depreciation.

power costs representing most of the decrease. Feed costs decreased as grain prices decreased. Total cost of production decreased from 2012 to 2013 by 76 cents (1 percent) per 100 pounds of pork produced.

From 2010 through 2013, the return above all costs averaged a *negative* \$1.98 per 100 pounds of pork produced. Management practices, such as the choice of building systems, 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 2013 on the feeder cattle and feeder pig finishing enterprises are presented in Tables 13 and 14. These 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 1,439,609 pounds in 2013 (Table 13). At 240 pounds of gain per head, this figure amounted to 5,998 head fed per farm in 2013. These feeder pig enterprises represent those that buy weaner pigs and finish them.

The return above the cost of feed and purchased animals from 2009 through 2013 averaged \$12.19 per 100 pounds of gain. This return was \$1.45 above the \$10.74 of all nonfeed costs for the period 2008 through 2012 (Table 10). The 2013 return of \$13.09 was \$2.92 above the 2012 return and 90 cents above the 2009 through 2013 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 200,502 pounds of beef produced per farm in 2013 (Table 13) equals 422 head of feeder cattle per farm. That figure is lower than the year before. The return per \$100 of feed for feeder cattle enterprises was \$125 in 2013, in comparison with a 5-year average of \$137 and a 15-year average of \$143 (Table 9).

The price paid for feeders was 49 cents per 100 pounds lower in 2013 than it was in 2012; the price received for cattle sold in 2013 was \$2.31 higher per 100 pounds than the price received in 2012. The average weight of purchased animals was 656 pounds; the average weight of animals sold was 1,289 pounds. Feed cost was \$86.10 per 100 pounds produced in 2013; it was \$84.37 in 2012. Feed costs increased in 2013 and were considerably above the last 10-year average. Higher market cattle prices did offset an increase in feed costs of \$1.73 per 100 pounds produced, resulting in higher returns above feed in 2013.

Each 100 pounds of beef produced required 681 pounds of concentrates and 67 pounds of hay. The amount of corn silage used in 2013 averaged 244 pounds; other silage averaged 50 pounds, for a total of 294 pounds. Silage use by the feeder cattle enterprise has been rising slightly in the past 4 years; the 10-year average for the period 1994 through 2003 was 479 pounds per 100 pounds of beef produced, compared to 324 pounds for the period 2004 through 2013. The use of 294 pounds of silage per 100 pounds of beef produced in 2013 was the highest amount fed since 2008. 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 \$24.31 per 100 pounds of beef produced from 2009 through 2013 (Table 10). During this period, returns ranged from \$13.43 in 2009 to \$36.77 in 2011. The returns above feed costs are below the estimated cost of \$27.48 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 higher than in 2012 because of the higher price received for cattle in 2013.

The data in Table 14 show a detailed breakdown for the period from 2010 through 2013 on costs and returns

# Table 13. Feeder Cattle and Feeder Pig Finishing Enterprises, 2013 Averages per Farm

	Feeder cattle	Feeder-pig finishinga
Number of farms	74	28
Total lbs produced	200,502	1,439,609
Total returns	\$214,969	\$765,420
Value of feed fed	\$172,632	\$577,023
Returns per \$100 of feed fed	\$125	\$133
Death loss, % lbs produced	2.5	1.9
Average weight purchased	656	14
Price paid per 100 lbs	\$145.53	\$306.88
Price received per 100 lbs	\$123.45	\$ 67.15
Average weight sold	1,289	271
	per cw	rt produced
Total returns	\$107.22	\$53.17
Feed costs	<u>86.10</u>	<u>40.08</u>
Return above feed	\$21.12	\$13.09
Farm grains/complete feed, lbs	636	176
Supplement, lbs	<u>45</u>	_ <u>83</u>
Total concentrates, lbs	681	_259
Hay, lbs	67	b
Corn silage, lbs	244	b
Other silage, lbs	50	b
Hay equivalent, lbs	180	b

<sup>a</sup>Purchase weight of 20 lbs and less.

<sup>b</sup>Data not available.

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 1,070 feeders each year from 2010 through 2013. The 4-year average total cash cost including feed and interest charged on cattle, was \$98.77 per 100 pounds of beef produced. The average total returns of \$100.86 for the same period was more than total cash costs by \$2.09 per 100 pounds produced, or about \$14.17 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 \$10.59 per 100 pounds of beef produced, or \$72 per feeder (\$10.59 multiplied by 6.78 hundredweight of gain per feeder), include depreciation, labor, and interest.

Adding the other costs to cash costs results in total costs of \$109.38 per hundredweight over the 4-year period. This was \$8.50 per hundredweight more than the average total returns of \$100.86.

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.

#### Table 14. Average Costs and Returns for Beef-Feeding Enterprises, 2010 Through 2013

					2010–13
	2013	2012	2011	2010	average
Number of farms	14	9	9	6	10
Average per farm					
Tillable acres	704	724	438	423	572
Hundredweight beef produced	5,241	6,441	4,233	4,406	5,080
Number head at 475-lb gain equivalents	1,103	1,356	891	928	1.070
Average weight purchased, lbs	659	553	497	529	560
Average weight sold, lbs	1,270	1,254	1,212	1,216	1,238
Price received per 100 lbs sold	\$122.87	\$116.58	\$108.46	\$ 88.40	\$109.08
Price paid per 100 lbs purchased	\$141.12	\$137.24	\$108.60	\$102.37	\$122.33
-		per cw	t beef produce	ed	
Cash costs					
Feed	\$91.53	\$93.39	\$75.62	\$55.24	\$78.95
Operating expenses					
Maintenance and power <sup>b</sup>	\$ 8.45	\$ 7.61	\$ 8.17	\$ 8.11	\$ 8.09
Livestock expense	6.93	5.32	5.97	3.96	5.55
Insurance, taxes, and overhead	0.94	1.13	1.16	1.19	1.11
Interest on cattle <sup>c</sup>	5.02	6.03	4.62	4.69	5.09
Total operating expenses	\$ 21.34	\$ 20.09	\$19.92	\$17.95	\$19.83
Total cash costs	\$112.87	\$113.48	\$95.54	\$73.19	\$98.77
Other costs					
Depreciation <sup>d</sup>	\$ 3.37	\$ 3.61	\$ 2.33	\$ 2.10	\$ 2.85
Labor	6.47	6.69	5.25	5.15	5.89
Interest on other capital	2.16	2.45	<u>1.81</u>	<u>0.97</u>	1.85
Total other costs	\$ 12.00	\$ 12.75	\$ 9.39	\$ 8.22	\$ 10.59
Total all costs	\$124.87	\$126.23	\$104.93	\$81.41	\$109.36
Total returns <sup>e</sup>	\$ <u>109.27</u>	<u>\$104.98</u>	\$ <u>105.11</u>	\$ <u>84.09</u>	\$ <u>100.86</u>
Return above all costs	(\$ 15.60)	(\$21.25)	\$ 0.19	\$ 2.68	(\$ 8.50)

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.

bIncludes 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 5.0% for 2010, 4.5% for 2011 and 2012, and 4.0% for 2013.

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.

#### **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, herd size had been between 75 and 85 cows. From 2004 through 2009, herd size was around 100 cows. Since 2010, the herd size has been variable, but it averages around 127 cows. The 2013 average herd size is 135.6 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 2013 was \$156. The average for the period from 2009 through 2013 was \$158 (Table 9). In 2013, milk prices per hundredweight increased from \$19.25 to \$20.71. From 2012 to 2013, beef prices for market animals sold increased 51 cents per hundred pounds, while feed costs decreased 10 cents per milk equivalent. Milk production per cow in 2013 of 22,145 pounds was down 140 pounds from 2012 and the third 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 10 in 2013. 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, and the top one-third in efficiency makes up these two groups. The larger herds averaged 121 cows, and the smaller herds averaged 69 cows. The return above feed costs per cow was higher for the larger herds, at \$2,279, compared to a return of \$1,619 for the smaller herds. The larger herds averaged 20,598 pounds of milk produced per cow, compared to 19,095 pounds for the smaller herds. Feed cost per milk equivalent was lower for the larger herds, at \$11.28, compared to \$13.09 for the smaller herds.

The average return above feed costs per cow for all dairy herds was \$1,846 in 2013 (Table 15). This figure compares with the recent 5-year average of \$1,583 per cow (Table 10). For the years 2008 through 2012, the 5-year average return above feed costs required to pay market prices for all nonfeed costs is estimated to be about \$2,071 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 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

#### Table 15. Dairy Cattle Enterprises, 2013 Averages per Farm

por ram			
		High e	efficiency
		40-79	80–149
	All farms	cows	COWS
Number of farms	63	6	8
Number of cows	135.6	68.9	120.8
Milk cows dry, %	11.8	12.5	12.5
Animal units in herd	261	123	205
Total returns	\$696,411	\$300,762	\$585,674
Value of feed fed	\$446,078	\$189,256	\$310,461
Return per \$100 of feed fed	\$156	\$159	\$189
Return above feed per cow .	\$1,846	\$1,619	\$2,279
Total milk produced, cwt	30,026	13,153	24,874
Lbs of milk per cow	22,145	19,095	20,598
Lbs of butterfat per cow	859	739	792
Total beef produced, lbs	90,621	45,348	85,050
Pounds of beef per cow	668	658	704
Death loss, % lbs produced.	15.7	18.9	14.8
Price received for:			
cwt milk	\$ 20.71	\$20.33	\$ 20.37
cwt beef	\$113.95	\$98.81	\$104.32
Per cwt milk equivalent <sup>a</sup>			
Feed cost	\$13.47	\$13.09	\$11.28
Grain/complete feed, lbs	24	23	22
Protein and minerals, lbs	18	16	14
Total concentrates, lbs	42	39	36
Hay and dry roughage, lbs	19	23	29
Corn silage, lbs	86	97	104
Other silage, lbs	44	41	35
Pasture days per animal unit	10	0	10
Hay equivalent per cow, tons	8.2	7.5	8.7
Concentrates per cow, lbs	10,399	8,107	8,154

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

farms by the number of cows in the herd from 2011 through 2013. 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 2009 through 2013. 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 2011 through 2013 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 37 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 \$3.58 lower than for the smaller herds. Total nonfeed costs were \$1.06 lower for the larger herds.

In 2013, feed costs per 100 pounds of milk produced decreased for small herds (\$2.04) and increased for large herds (71 cents). The cost of feed averaged about 56 percent

Table 16.	Average Milk	Production	Costs and	Returns	by Size d	of Herd, 2011	through 2013

	4	0–79 cows in he	rd	80 oi	r more cows in h	erd
-	2013	2012	2011	2013	2012	2011
Number of farms	9	12	9	30	24	21
Tillable acres	176	212	181	483	472	431
Number of cows	69.0	63.8	61.6	209.5	232.0	230.9
Milk per cow, lbs	18,662	18,391	18,431	23,631	24,094	23,736
			per 100 lbs of	f milk produced		
Price received	\$20.41	\$19.02	\$20.73	\$20.69	\$19.47	\$20.76
Cash costs						
Feed	\$14.81	\$16.85	\$15.10	\$13.06	\$12.35	\$10.57
Operating expenses						
Maintenance and power <sup>a</sup>	2.68	2.28	2.34	2.65	2.46	2.53
Livestock expense	3.14	2.58	3.17	2.70	2.65	2.79
Insurance, taxes, and overhead	0.18	<u>0.24</u>	<u>0.13</u>	0.23	<u>0.34</u>	_0.24
Total operating expenses	\$ 6.00	\$ 5.10	\$ 5.64	\$ 5.58	\$ 5.45	\$ 5.56
Total cash costs	\$20.81	\$21.95	\$20.74	\$18.64	\$17.80	\$16.13
Other costs						
Depreciation <sup>b</sup>	\$ 1.10	\$ 0.97	\$ 1.06	\$ 1.03	\$ 0.84	\$ 0.80
Labor	3.93	3.60	3.14	2.63	2.64	2.56
Interest charge on all capital	0.85	<u>0.72</u>	<u>0.90</u>	0.76	<u>0.87</u>	0.89
Total other costs	\$ 5.88	\$ 5.29	\$ 5.10	\$ 4.42	\$ 4.35	\$ 4.25
Total nonfeed costs	\$11.88	\$10.39	\$10.74	\$10.00	\$ 9.80	\$ 9.81
Total all costs	<u>\$26.69</u>	\$ <u>27.24</u>	\$ <u>25.84</u>	\$ <u>23.06</u>	<u>\$22.15</u>	\$ <u>20.38</u>
Return above all costs	(\$ 6.28)	(\$8.22)	(\$5.11)	(\$ 2.37)	(\$2.68)	\$0.38

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

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

of total production costs in Illinois dairy enterprises. Compared with 2012, total nonfeed costs increased 14 percent for the small herds, whereas the large herds increased by 2 percent. The total cost of producing 100 pounds of milk in 2013 was \$26.69 for the small herds and \$23.06 for the large herds. The average price received for milk in 2013 increased for both groups of dairy enterprises. With higher milk prices and higher nonfeed costs, returns still did not cover total production costs for either group in 2013. Returns were a negative \$6.28 per 100 pounds of milk produced for the small herds and a negative \$2.37 for the large herds. The returns above all costs per 100 pounds of milk produced had averaged \$5.01 more for the large group than the small group from 2011 through 2013. 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 35 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.

#### Table 17. Beef-Cow Enterprises, 2013 Averages per Farm

Farm			
		Calves	Calves
	All farms	sold	fed out
	146	53	31
Number of cows in herd	60	58	55
Animal units in herd	a	81	a
Total lbs produced	43,111	27,506	61,254
Beef per cow, lbs	720	473	1,105
Total returns	\$59,402	\$42,112	\$71,176
Value of feed fed	\$43,545	\$32,263	\$48,347
Return per \$100 feed fed	\$136	\$131	\$147
Return above feed per cow	\$265	\$169	\$412
Death loss, lbs	2,450	2,128	2,233
% lbs produced	5.7	7.7	3.6
Weight per animal sold, lbs	718	548	975
Price per cwt sold-market	\$141.67	\$153.74	\$132.58
	pei	r cwt produc	ed
Feed costs	\$101.01	\$117.29	\$78.93
Grain/complete feed, lbs	155	98	182
Protein and minerals, lbs	76	104	70
Total concentrates, lbs	231	202	252
Hay and dry roughage, lbs	705	1,113	414
Corn silage, lbs	485	366	440
Other silage, lbs	102	137	93
Pasture days	31	47	22
Pasture days per animal unit	a	161	a
Hay equivalent per cow, tons	5.8	5.5	6.0

alnsufficient data.

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 60 cows in 2013, 3 more than in 2012. 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 \$131 in 2013. The returns for the 5-year period from 2009 through 2013 averaged \$129, which is below the 15-year average of \$136 for the period from 1999 through 2013 (Table 9). Beef prices received in 2013 averaged \$141.67 per hundredweight, an increase of \$6.12 from prices in 2012. Feed costs per 100 pounds of beef produced increased by 67 cents to \$101.01 in 2013.

Since 2009, the return above feed costs per cow for the average farmer to feed out calves rather than sell them at weaning has been about \$224 per cow. Additional returns are needed for the added costs of labor, buildings, and capital required to feed out the calves. In 2013, the return above feed costs per cow for feeding calves to market weight was \$243 more than selling them at weaning.

# Appendix A REVISED November 2014

Costs, returns, financial summaries, investments, land use, and crop yields for different sizes and types of Illinois farms are reported in Tables 18 through 22a.

446         244         148         343         141         1047         1047         1047         104	Range in size (total tillable acres)	180-799	800-1-199	1 200-1 999	> 1 999	Your farm	All farms	800-1 199	199
$a_{40}$ $a_{41}$	Management returns							Low 33%	High 33
dia         538         1024         156         3,113         11,162         1,007           initiation         23         1,181         2,487         964         97         91	Number of farms	446	244	246	111		1,047	81	81
at         519         910         1515         2,045         11,30         973           bitted         2         1         2         44	Total acres in farm	538	1,024	1,548	3,113		1,162	1,007	1,028
7i $1,181$ $2.47$ $894$ $802$ $802$ $16$ $12$	Acres of tillable land	519	989	1,515	3,045		1,130	973	1,004
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Operator tillable acres	411	761	1,181	2,487		894	802	732
46 $44$ $43$ $42$ $36$ $44$ $46$ $3,5$ $6,6$ $4,4$ $4,6$ $4,4$ $4,6$ $4,6$ $3,5$ $6,6$ $1,4,1$ $1,0,6$ $3,4$ $4,6$ $4,6$ $3,3,5$ $6,6$ $1,4,3$ $1,0,6,3,79$ $2,30,4447$ $3,46$ $4,4$ $4,6$ $8,234$ $1,0,6,3,79$ $2,30,4447$ $2,30,4447$ $3,46,790$ $3,470$ $3,470$ $3,470$ $3,470$ $3,470$ $3,470$ $3,470$ $3,470$ $3,470$ $3,470$ $3,470$ $3,470$ $3,470$ <td>Soil rating on tillable land</td> <td>92</td> <td>91</td> <td>91</td> <td>91</td> <td></td> <td>91</td> <td>91</td> <td>91</td>	Soil rating on tillable land	92	91	91	91		91	91	91
46         44         39         42         43         44         44         46	Percent land owned	23	15	12	12		18	21	1
35         6         14         48         40         43           3.5         6.6         14.8         30.6         6         15.1         <	Percent land crop shared	40	46	44	39		42	36	54
135 $16$ $148$ $161$ $165$ $3.440$ $9.35$ $100$ $1653$ $3.244$ $791,266$ $653,812$ $2.39,82$ $6912$ $653,812$ $5.495$ $5.495$ $3.440$ $3.440$ $3.440$ $3.440$ $3.440$ $3.440$ $3.440$ $3.440$ $3.440$ $3.440$ $3.440$ $3.440$ $3.440$ $3.440$ $3.440$ $3.440$ $3.49,62$ $2.49,527$ $2.7952$ $2.49,527$ $2.7952$ $2.49,527$ $2.7952$ </td <td>Percent land cash rented</td> <td>37</td> <td>39</td> <td>44</td> <td>48</td> <td></td> <td>40</td> <td>43</td> <td>35</td>	Percent land cash rented	37	39	44	48		40	43	35
14.1 $18.7$ $30.6$ $16.1$ $15.1$ $15.1$ $1.367$ $1.086$ $2.301.284$ $2.301.284$ $71.286$ $653.812$ $1.440$ $51.446$ $653.812$ $8.278$ $1.1567$ $2.22$ $2.9167$ $2.3446$ $5.246$ $9.820$ $8.278$ $1.062.195$ $2.34447$ $2.334447$ $8.123$ $9.827$ $676.300$ $1.062.195$ $2.34447$ $2.332.84447$ $8.123.986$ $9.827$ $217.823$ $3.3446$ $3.713$ $2.133984$ $12.7392$ $2.493.72$ $217.823$ $3.477$ $3.713$ $101.153$ $2.433.984$ $12.7952$ $30.718$ $49.474$ $50.2$ $2.43.984$ $12.7952$ $30.718$ $100.213$ $104.617$ $12.884$ $12.796$ $12.7952$ $30.714$ $100.213$ $104.617$ $12.866.041$ $12.796$ $12.796$ $8.744$ $5.824$ $4.947$ $10.223$ $8.6277$ $4.7394$ $4.7394$	Months of hired labor	1.2	3.5	6.6	14.8		4.4	4.6	2.3
	Total months labor	6.6	14.1	18.7	30.6		15.1	15.1	12.8
65/731 $1.036/379$ $2.301,224$ $71,236$ $633,812$ $6916$ $3.46$ $9.201$ $8.14,405$ $9.801$ </td <td>Dollar returns</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Dollar returns								
8.261 $1.367$ $2.02$ $3.2.412$ $3.446$ $3.446$ $3.446$ $3.446$ $3.446$ $3.446$ $3.446$ $3.446$ $3.446$ $3.496$ $3.496$ $3.496$ $3.496$ $3.496$ $3.496$ $3.496$ $3.496$ $3.496$ $3.476$ $3.776$ $3.776$ $3.776$ $3.776$ $3.776$ $3.776$ $3.776$ $3.776$ $3.776$ $3.776$ $3.776$ $3.776$ $3.776$ $3.776$ $3.776$ $3.776$ $3.776$ $3.776$ $3.766$ $3.960$ $3.866$ $3.766$ $3.766$ $3.766$ $3.766$ $3.766$ $3.776$ $3.776$ $3.776$ $3.776$ $3.776$ $3.766$ $3.265$	Crop returns	353,362	657,731	1,036,379	2,301,284		791,286	653,812	664,449
8224         11653 $32.414$ $9.80$ $9.80$ 8724         11653 $32.414$ $9.576$ $9.80$ $9.80$ 875306 $1.062, 196$ $2.334, 147$ $9.171$ $9.171$ $9.171$ $9.171$ $9.171$ $9.171$ $9.171$ $9.171$ $9.171$ $9.171$ $9.171$ $9.171$ $9.173$ $9.127, 95$ $9.801$ $9.733$ $9.17, 95$ $9.1016$ $9.77, 95$ $9.1016$ $9.77, 95$ $9.1016$ $9.77, 95$ $9.10, 102$ <th< td=""><td>Livestock returns above feed</td><td>104</td><td>1,367</td><td>202</td><td>282</td><td></td><td>440</td><td>3,446</td><td>35</td></th<>	Livestock returns above feed	104	1,367	202	282		440	3,446	35
8.6.308 $13.961$ $50.167$ $50.167$ $12.743$ $6.918$ $6.918$ $7.6.300$ $1.62.195$ $2.344.147$ $2.364.147$ $2.364.147$ $6.73.396$ $6.73.396$ $7108.73$ $161.112$ $345.703$ $161.112$ $249.527$ $249.527$ $30.629$ $161.112$ $324.533$ $161.112$ $249.527$ $249.527$ $30.718$ $30.718$ $10.641.53$ $10.41.53$ $36.827$ $249.527$ $30.718$ $91.711$ $10.6218$ $100.218$ $106.912$ $47.8967$ $34.794$ $30.718$ $91.6912$ $47.8967$ $45.827$ $43.794$ $38.775$ $792.94$ $109.6122$ $47.8967$ $43.794$ $3.739$ $750.213$ $932.106$ $1.261.64$ $7.7463$ $65.037$ $750.211$ $932.106$ $1.276.68$ $117.463$ $65.0691$ $750.211$ $932.106$ $1.276.63$ $7.7463$ $65.061$ $750.211$ $932.160$ $12.25.93$	Custom work	4,329	8,224	11,653	32,414		9,935	9,820	6,813
676.300         1,062,195 $2.34,147$ $614,105$ $2.34,147$ $617,306$ $673,396$ $673,396$ $673,396$ $673,396$ $673,396$ $673,396$ $673,396$ $673,396$ $673,396$ $673,396$ $673,396$ $710,305$ $710,315$ $713,394,4105$ $97,913$ $713,394,4105$ $97,913$ $713,394,4105$ $97,949$ $91,713$ $71,928$ $61,91,72,912$ $61,91,72,912$ $61,91,72,912$ $61,91,72,912$ $61,91,72,912$ $61,91,72,912$ $61,91,72,912$ $61,91,73$ $91,060$ $91,960$ $91,960$ $91,960$ $91,960$ $91,960$ $91,920$	Other farm receipts	4,817	8,978	13,961	50,167		12,743	6,918	7,989
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Value of farm production	362,612	676,300	1,062,195	2,384,147		814,405	673,996	679,287
108         35,790         710,305         256,345         249,527           106         47         91,711         34,493         95,71         34,993         36,67         249,557         249,557         249,557         249,557         257,333         34,693         39,601         39,601         39,601         39,601         39,601         39,601         39,601         39,601         36,012         31,104,153         34,403         36,012         31,104         31,104         31,104         31,104         31,104         31,104         31,104         31,104         31,104         31,105         31,105         31,106         31,105	Dollar costs								
109.678         161.147 $324,533$ $123,964$ $172,952$ $30,718$ $42,9474$ $104,711$ $34,409$ $39,801$ $39,801$ $477$ $371$ $104,713$ $104,713$ $36,877$ $34,703$ $39,801$ $30,718$ $49,774$ $57,183$ $104,651$ $104,651$ $34,703$ $38,875$ $30,713$ $104,651$ $197,268$ $43,967$ $34,732$ $38,75$ $6,774$ $9,059$ $18,981$ $102,213$ $104,651$ $107,723$ $792,595$ $473,967$ $122,656$ $2,49,718$ $36,67,913$ $1,739$ $2,936$ $6,082$ $2,49,718$ $86,721$ $1,739$ $1,739$ $2,5023$ $45,682$ $2,49,718$ $86,721$ $1,739$ $1,739$ $750,211$ $932,106$ $1,250,042$ $2,43,348$ $1,739$ $1,739$ $750,211$ $922,106$ $1,250,042$ $2,429,122$ $386,221$ $1,739$ $730,25,29$ $2,43,373$	Crop expenses	115,104	217,823	345,790	710,305		256,345	249,527	189,428
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Power and equipment	61,401	109,678	161,147	324,533		123,984	127,952	87,256
40.242         55,013         104,153         45,874         45,951         45,951 $30,718$ $49,774$ $100,218$ $36,827$ $34,794$ $37,94$ $30,718$ $57,183$ $121,954$ $102,138$ $121,954$ $36,827$ $34,794$ $37,94$ $36,774$ $9,059$ $18,981$ $100,213$ $196,651$ $197,867$ $37,948$ $37,794$ $38,75$ $37,948$ $37,794$ $38,75$ $37,948$ $37,794$ $38,75$ $37,7948$ $36,627$ $34,794$ $37,7948$ $37,7948$ $36,627$ $34,794$ $37,7948$ $37,770$ $38,344$ $1,739$ $90,060$ $37,7948$ $31,739$	Building and fence	17,480	30,629	42,994	91,711		34,409	39,801	21,454
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Labor	29,410	40,242	55,013	104,153		45,874	45,951	35,448
4.77         371         1,628         502         271 $33,344$ $57,183$ $12,1954$ $57,483$ $12,1954$ $5,485$ $43,948$ $8,75$ $6,774$ $90,6012$ $478,967$ $197,268$ $18,5113$ $90,060$ $7,933$ $100,213$ $196,912$ $478,967$ $7,948$ $8,5113$ $90,060$ $5,749$ $104,651$ $197,268$ $2,19,716$ $8,5,113$ $90,060$ $5,632$ $2,49,716$ $7,949$ $8,5,132$ $90,060$ $2,703$ $45,682$ $2,149,718$ $10,254$ $7,939$ $7,03$ $1,01,223$ $1,117,428$ $2,49,132$ $856,221$ $1,739$ $7,102$ $1,117,428$ $2,49,132$ $856,221$ $1,739$ $1,102,23$ $65,081$ $7,11,233$ $1,117,428$ $2,49,132$ $856,221$ $1,23,233$ $1,29,230$ $7,11,233$ $1,117,428$ $2,49,332$ $2,483$ $3,27,33$ $45,223$ $1,17,228$ $2,49,329$ <t< td=""><td>Insurance and miscellaneous</td><td>17,417</td><td>30,718</td><td>49,474</td><td>100,218</td><td></td><td>36,827</td><td>34,794</td><td>26,344</td></t<>	Insurance and miscellaneous	17,417	30,718	49,474	100,218		36,827	34,794	26,344
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Livestock services and supplies	308	477	371	1,628		502	271	386
6,774         9,059         18,861 $7,949$ 8,875 $100,213$ $106,912$ $478,967$ $146,978$ $8,875$ $7936$ $6082$ $17,246$ $80,0085$ $718,463$ $90,065$ $25,043$ $104,671$ $17246$ $854,193$ $1,022,595$ $2149,718$ $80,066$ $25,043$ $45,662$ $244,675$ $241,675$ $3334$ $1,739$ $25,043$ $45,662$ $214,675$ $241,675$ $3334$ $1,739$ $750,211$ $932,106$ $1,250,042$ $2429,122$ $3854$ $172,398$ $750,211$ $932,106$ $1,250,042$ $710,223$ $665,081$ $173,392$ $731,423$ $1,117,428$ $2,429,122$ $856,221$ $799,390$ $2483$ $96,734$ $1,712,438$ $152,180$ $-176,325$ $656,081$ $13,729$ $854$ $13,720$ $816,734$ $2,493,775$ $555,61$ $172,329$ $854$ $16,1640$ $21,233$ $665,081$	Interest on nonland capital	19,439	38,344	57,183	121,954		43,582	43,948	33,034
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Real estate taxes	5,233	6,774	9,059	18,981		7,949	8,875	4,893
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Cash rent	48,091	100,213	196,912	478,967		140,885	118,154	90,961
654,193         1,022,595         2,149,718         775,469         759,332           2,936         6,082         7,245         3,834         1,739           2,5,043         45,682         2,41,675         3,834         1,739           2,5,043         45,682         2,41,675         3,834         1,739           750,211         932,106         1,250,042         42,770         -83,598           731,423         1,117,428         2,429,122         856,221         762,658           932,106         1,250,042         710,223         665,081         655,081           731,423         1,117,428         2,429,122         856,221         762,658         7390           -43,402         733,402         -759,493         -63,203         530,477         562,677           4345         468         346         346         -57,391         -63,208           452         1,656         1,727,890         367,391         -63,208           455         1,069         2,743         557,161         -5,344           455         3,060         2,743         557,161         562,161           455         730,680         2,133,33         3,640         5,175	Other land charges	49,607	79,294	104,651	197,268		85,113	90,060	69,897
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Total nonfeed costs	363,490	654,193	1,022,595	2,149,718		775,469	759,332	559,102
25,04345,682241,67542,77083,598 $1.03$ $1.04$ $1.11$ $1.05$ $0.89$ $0.89$ $750,211$ $932,106$ $1,250,042$ $710,223$ $665,081$ $731,423$ $1,117,428$ $2,429,122$ $856,221$ $762,658$ $9,677$ $23,994$ $152,180$ $-73,391$ $-63,208$ $-3,492$ $-78,081$ $-176,325$ $856,221$ $762,658$ $-3,492$ $-78,081$ $-176,325$ $856,221$ $762,658$ $854$ $488$ $346$ $336$ $-57,391$ $-63,208$ $854$ $488$ $346$ $367$ $-16,643$ $-176,325$ $856,948$ $1,062,629$ $2,403,873$ $816,792$ $675,949$ $485,268$ $788,521$ $1,723,383$ $-1,534$ $2,344$ $488$ $788,521$ $1,722,333$ $816,792$ $67,793$ $488$ $790,485$ $73,060$ $20,755$ $20,756$ $562,677$ $482,942$ $790,485$ $73,383$ $3,640$ $5,172$ $73,107$ $1,742,233$ $816,792$ $66,161$ $5,172$ $73,107$ $1,722,333$ $20,756$ $590,457$ $562,677$ $73,017$ $1,733$ $590,457$ $562,677$ $562,677$ $73,017$ $1,722,333$ $117,759$ $113,724$ $73,017$ $10,816$ $20,756$ $30,743$ $2,344$ $117,759$ $156,086$ $32,7120$ $30,743$ $60,882$ $887,768$ $20,610$ $70,896$ $43,724$	Capital account adjustment	2,237	2,936	6,082	7,245		3,834	1,739	4,320
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Management returns	1,360	25,043	45,682	241,675		42,770	-83,598	124,505
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Farm production per \$1.00								
750,211932,1061,250,042710,223665,081731,4231,117,4282,429,122856,221762,6589,67723,994152,18018,71819,930 $-3,492$ $-78,081$ $-176,325$ 856,221762,658 $4,3,492$ $-78,081$ $-176,325$ $557,391$ $63,208$ $4,3,492$ $-78,081$ $-176,325$ $557,391$ $63,208$ $4,52$ $-78,081$ $-176,325$ $573,991$ $63,208$ $4,52$ $225$ $759$ $2,403,873$ $816,792$ $6,433$ $4,52$ $788,521$ $1,727,890$ $590,457$ $555,161$ $485,268$ $788,521$ $1,727,890$ $590,457$ $555,161$ $485,268$ $788,521$ $1,727,890$ $590,457$ $555,161$ $485,208$ $788,521$ $1,727,890$ $590,457$ $555,161$ $485,208$ $78,521$ $1,727,890$ $590,457$ $555,161$ $485,208$ $78,624$ $20,755$ $90,457$ $555,161$ $488,521$ $1,727,833$ $71,634$ $2,344$ $2,344$ $488,924$ $77,243$ $66,1640$ $20,755$ $562,562$ $562,677$ $73,107$ $107,954$ $21,742,333$ $72,836$ $173,522$ $73,017$ $107,759$ $72,45$ $552,562$ $562,677$ $73,017$ $106,954$ $27,723$ $79,896$ $1,739$ $7,756$ $72,456$ $72,456$ $72,423$ $173,724$ $7,756$ $72,456$ $72,456$ $72,4230$ $173,7$	of nonfeed costs	1.00	1.03	1.04	1.11		1.05	0.89	1.21
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Farm production per man	431,613	750,211	932,106	1,250,042		710,223	665,081	837,717
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Financial summary								
$\begin{array}{llllllllllllllllllllllllllllllllllll$	Cash operating income	388,960	731,423	1,117,428	2,429,122		856,221	762,658	685,370
$\begin{array}{r cccccccccccccccccccccccccccccccccccc$	Inventory change	-1,874	-9,677	23,994	152,180		18,718	-19,930	27,876
8544883463463902,483 $452$ 2257597597593671,088 $452$ 225759759759557,161 $452$ 788,5211,727,890 $-6,413$ $-1,534$ $2,344$ $2,813$ $-1,096$ $-6,413$ $-1,534$ $2,344$ $2,813$ $-1,096$ $-6,413$ $-1,534$ $2,344$ $2,813$ $-1,096$ $-6,413$ $-1,534$ $2,344$ $2,813$ $3,060$ $20,755$ $3,640$ $55,161$ $482,942$ $790,485$ $1,742,233$ $592,562$ $562,677$ $194,006$ $272,144$ $661,640$ $224,230$ $113,272$ $73,107$ $107,954$ $213,383$ $79,890$ $82,775$ $73,107$ $107,954$ $7,245$ $3,834$ $1,739$ $117,759$ $158,588$ $322,120$ $129,220$ $30,743$ $60,882$ $87,768$ $207,610$ $70,896$ $-43,724$	Accts. receivable (net change)	-23,982	-43,492	-78,081	-176,325		-57,391	-63,208	-33,743
452         225         759         759         769         767         1,088           676,948         1,062,629         2,403,873         816,792         675,949         1,088           485,268         788,521         1,727,890         590,457         555,161         555,161           -2,813         -1,096         -6,413 $-1,534$ 2,344         2,344           2,813         3,060         20,755         3,640         555,161         5,172           488         3,066         20,755         3,640         5,172         5,172           482,942         790,485         1,742,233         592,662         562,677         5,172           73,107         107,954         213,383         7,245         79,890         82,775         562,677           73,107         107,954         213,383         7,245         3,834         1,739         1,739           2,936         6,082         87,768         32,120         113,272         30,743         30,743           117,759         158,588         322,120         129,220         30,743         30,743         57,75         53,724           60,882         87,768         207,610         70,896	Less purchased feed	93	854	488	346		390	2,483	29
676,948         1,062,629         2,403,873         816,792         675,949           485,268         788,521         1,727,890         560,457         555,161           -2,813         -1,096         -6,413         -1,534         2,344           -2,813         -1,096         -6,413         -1,534         2,344           -2,813         -1,096         -6,413         -1,534         2,344           -488         73,060         20,755         592,562         562,677           194,006         272,144         661,640         274,233         592,562         562,677           73,107         107,954         213,383         724,533         73,834         1,739           2,936         6,082         7,245         3,834         1,739         1,739           117,759         158,588         322,120         129,220         30,743         30,743           60,882         87,768         207,610         70,896         -43,724         30,743	Less purchased livestock	300	452	225	759		367	1,088	187
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Gross farm returns	362,711	676,948	1,062,629	2,403,873		816,792	675,949	679,287
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Cash operating expenses	255,674	485,268	788,521	1,727,890		590,457	555,161	419,792
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Prepaid expenses (- if increased)	139	-2,813	-1,096	-6,413		-1,534	2,344	-7,484
482,942         790,485         1,742,233         592,562         562,677           194,006         272,144         661,640         224,230         113,272           73,107         107,954         213,383         79,890         82,775           2,936         6,082         7,245         3,834         1,739           123,835         170,272         455,503         3,834         1,739           117,759         158,588         322,120         128,174         30,743           60,882         87,768         207,610         70,896         -43,724	Accts. payable (+ if increased)	1,424	488	3,060	20,755		3,640	5,172	-457
194,006         272,144         661,640         224,230         113,272           73,107         107,954         213,383         79,890         82,775           2,936         6,082         7,245         3,834         1,739           123,835         170,272         455,503         3,834         1,739           117,759         158,588         322,120         30,743         30,743           60,882         87,768         207,610         70,896         -43,724	Total operating expenses	257,237	482,942	790,485	1,742,233		592,562	562,677	411,851
73,107         107,954         213,383         79,890         82,775           2,936         6,082         7,245         3,834         1,739           123,835         170,272         455,503         148,174         32,235           117,759         158,588         322,120         129,220         30,743           60,882         87,768         207,610         70,896         -43,724	Income before depreciation	105,474	194,006	272,144	661,640		224,230	113,272	267,436
2,936         6,082         7,245         3,834         1,739           123,835         170,272         455,503         148,174         32,235           117,759         158,588         322,120         129,220         30,743           60,882         87,768         207,610         70,896         -43,724	Less depreciation	34,898	73,107	107,954	213,383		79,890	82,775	58,715
123,835         170,272         455,503         455,503         32,235         32,235         32,735         32,735         33,743         32,735         30,743         32,724         32,725         30,743         32,725         30,743         32,725         30,743         32,725         30,743         32,724         31,724         32,724         32,724         32,724         32,724         32,724         32,724         32,724         33,724         33,724         33,724         33,724         33,724         33,724         33,724         33,724         33,724         33,724         34,	Capital account adjustment	2,237	2,936	6,082	7,245		3,834	1,739	4,320
11/,759 158,588 322,120 30,743 60,882 87,768 207,610 70,896 -43,724	Net farm income	72,813	123,835	170,272	455,503		148,174	32,235	213,041
60,882 87,768 207,610 70,896 -43,724	Net farm income per operator	71,283	117,759	158,588	322,120		129,220	30,743	200,548
ľ	Labor & mgt. income per operator	1	60,882	87,768	207,610		70,896		154,286

Table 18. 2013 Operator Average Returns, Costs, and Financial Summary by Size and by Management Returns for Northern and Central Illinois Crein Earner with Soil Devince from 86 to 100

Range in size (total tillable acres) 180-799	180-799	800-1,199	1,200-1,999	> 1,999	Your farm	All farms	800-1,199	199 18~5 220/
ivianagement returns Number of farms	446	244	246	111		1,047	LOW 33% 81	тідп 33% 81
Selected returns and costs								
per operator tillable acre								
Crop returns	859.39	864.21	877.81	925.21		885.48	814.75	908.24
Livestock returns above feed	0.25	1.80	0.17	0.11		0.49	4.29	0.05
Custom work, other receipts	22.24	22.60	21.70	33.20		25.38	20.86	20.23
Value of farm production	881.88	888.61	899.67	958.52		911.36	839.90	928.52
Soil fertility	132.38	138.32	141.50	140.79		138.87	146.95	127.37
Pesticides	53.85	52.50	54.16	51.39		52.95	62.05	42.83
Seed and other crop expense	93.71	95.38	97.23	93.38		95.04	101.95	88.72
Crop total	279.94	286.20	292.88	285.57		286.86	310.95	258.93
Light vehicle and utilities	12.66	8.35	6.71	5.83		7.94	8.32	7.83
Machinery repairs, supplies	33.21	28.94	25.71	22.98		27.02	31.07	24.21
Machinery hire, lease	17.46	13.21	12.15	12.57		13.53	16.46	8.57
Fuel and oil	25.85	25.86	26.97	30.04		27.44	27.38	23.51 EE 1E
Macinitely depreciation	110 22	101.14	126 40	00.80		120.02	10.22 160 46	00.10 110.77
	20.04	02 00	01 FC	10.50		24.00	04.00	12.611
Drynig and storage Brijlding renair and rent	24:01 8 10	6 10 6 10	6 21 6 21	6.00		6.12 6.63	201.10	20.04 2.63
Building depreciation	10.40	00 8.95	8.62	11.88		10.00	10.79	5.65
Building total	42.51	40.24	36.42	36.87		38.51	49.60	29.33
Labor, unpaid	62.98	39.54	29.79	19.10		35.08	39.66	39.15
Labor, paid	8.54	13.34	16.81	22.77		16.26	17.60	9.30
Labor total	71.53	52.88	46.60	41.87		51.34	57.26	48.45
Insurance and miscellaneous	42.36	40.36	41.90	40.29		41.21	43.36	36.01
Livestock services and supplies	0.75	0.63	0.31	0.65		0.56	0.34	0.53
Interest on nonland capital	47.28	50.38	48.43	49.03		48.77	54.77	45.15
Other costs total	90.38	91.37	90.65	89.98		90.54	98.46	81.69
Land charge	250.33	244./6	263.09	2/9.50		261.80	2/0.53	226.57
Conital nonreed costs	884.UZ	002.20	000.13 7 17	804.21		801.18	<b>340.24</b>	104.24
Capital account aglustment	4. C	3.80	0.10	24.5		4.29	11.7	08.0
Demonst and meturns	3.31	32.90	38.69	91.16		41.80	-104.18	1/0.19
	0.01	10.0		0.02		10.0	0.00	100
Capital purchases	00,225 0 552	104,019	100,300 25 015	200,012		140,000	000, 101	10,010
Interest paid Dercent tillable land in	0,000	10,094	CIN'C7	co /'no		19,000	20,120	100,01
Fercent unable land in Corp and corp silade	£7 Q	<u></u> ББ 1	56.4	50 2		563	57 2	51 R
	45.0	42.0	417	37.50 87.8		41 F	410	45.0
Wheat	0.5	0.3	0.4	4.0		0.4	2.0	0.0
Other small grains	0.0	0.0	0.0	0.0		0.0	0.0	0.0
CRP acres	0.3	0.3	0.3	0.2		0.3	0.2	0.4
All hay and pasture	0.2	0.1	0.1	0.0		0.1	0.1	0.3
Crop yields, bushels per acre								
Corn	199	202	200	204		201	199	202
Soybeans	58	58	58	59		59	57	59
Wheat	71	74	67	81		73	72	100
Prices received						0		
Corn (old crop)	6.95	6.92	6.91	6.95		6.93	6.86	7.04
Corn (new crop) Southeans (old cron)	4.61 14.60	4.64	4.69	4.80 14 85		4./U 1/ 76	4.42	4./9 7/07
Soybeans (old crop) Soybeans (new Crop)	13.11	12.74	12.14	12.77		12.50	12.80	14.94 13.08
Note: Variations in totals due to rounding to the nearest dollar. Farms with soil ratings from 86 to 100 are those with nearly level, well-drained prairie soils.	to the nearest dolla	r. Farms with soil r	atings from 86 to 10	0 are those with	nearly level, well	drained prairie s		) .

Table 18a. 2013 Operator Average Operating Costs, Land Use, Yields, and Prices Received by Size and by Management Returns for Northern

00-1,199	6 High 33% 7 57	2 1,029 1 080						0.1.0		622		5 4,478 5 8,100	63		-			4,10/		30		w		27		5 96,606	7 1 17	772			5 86,439		C.	636		2 -2,334					l		3 1/4,583 2 134 360
	Low 33% 57	1,012 974	298	77	21	35	45		<u>, , , , , , , , , , , , , , , , , , , </u>	606,476	1,295	6,745 10,015	624,532		253,849	127,017	33,695	44,934	32,428	39.543	6,233	102,188	77,704	718,362	4,196	-89,635	0.87	624,590		739,887	-54,876	-04,00/	1 436	628.835	530,087	8,142	2,809	541,038	87,797	75,748	4,196	16,246	12,893
All farms	779	1,134 1.075	897	78	23	33	43	0.0 7	7.0	749,072	217	10,808 9.632	769,730		262,307	131,825	32,810	47,493	37,716 439	40.972	6,920	125,836	76,163	762,482	4,404	11,652	101	634,497		816,682	34,317	-/ 0,000 537	100	773.279	581,817	627	1,190	583,634	189,645	77,820	4,404	116,230	104,285 47 895
Your farm																																											
> 1,999	82	3,050 2,905	2.544	78	16	28	29 7 7	1.71	0.00	2,203,689	160	40,871 26,295	2,271,014		767,745	365,882	89,490	100,458	110,847 814	116.667	16,788	464,657	164,248	2,203,595	7,226	74,645	1 03	1,030,064		2,421,398	172,346	-292,091	2,139	2.296.406	1,805,533	-1,606	3,426	1,807,354	489,052	213,796	7,226	282,482	214,379 99 741
1,200-1,999	167	1,600 1,539	1.268	52	18	35	47	0.0 4.0 4.0	0.0	1,076,373	-156	13,384 10.617	1,100,218		370,447	179,337	44,642	58,031	735,337 464	57.924	8,361	179,252	105,230	1,057,045	5,028	48,201	1 04	937,547		1,144,342	15,763	- 1 10,099	175	1.102.708	823,335	-4,833	481	818,983	283,725	111,592	5,028	1//,161	161,U/U 87 018
1110m 56 to 85 800-1,199	173	1,027 980	766	78	18	42	40		0.0	620,847	779	6,605 8,643	636,875		222,223	111,366	28,266	40,030	31,754 432	35.246	5,381	87,255	74,043	636,003	5,294	6,166	1 00	700,748		669,482	18,661	-40,/ 12	745	638,293	460,226	6,066	2,948	469,241	169,052	69,482 - 22 -	5,294	104,865	101,078 48 138
	357	527 483	410	77	31	29	40	0.1	0.01	323,988	133	4,734 5.824	334,678		115,050	65,753	16,458	32,033	10,491 345	18.431	4,724	41,721	43,360	354,967	3,033	-17,255	0.94	369,770		366,149	-9,189	-21,0/4	103	334.741	246,682	1,057	157	247,896	86,845	34,830	3,033	55,048	53,989 17 568
Illinois Grain Farms with Soil Ratings           Range in size (total tillable acres)         180-799	Management returns Number of farms	Total acres in farm Acres of tillable land	Operator tillable acres	Soil rating on tillable land	Percent land owned	Percent land crop shared	Percent land cash rented	Months of hired labor Total months labor	Dollar returns	Crop returns	Livestock returns above feed	Custom work Other farm receipts	Value of farm production	Dollar costs	Crop expenses	Power and equipment	Building and fence	Labor	Insurance and miscellaneous Livestock services and sumplies	Interest on nonland capital	Real estate taxes	Cash rent	Other land charges	Total nonfeed costs	Capital account adjustment	Management returns	rarrii production per \$ 1.00 of nonfeed costs	Farm production per man	Financial summary	Cash operating income	Inventory change	Accis. receivable (riet criarige)	Less purchased leed	Gross farm returns	Cash operating expenses	Prepaid expenses (- if increased)	Accts. payable (+ if increased)	Total operating expenses	Income before depreciation	Less depreciation	Capital account adjustment	Net farm income	Net farm income per operator Lahor & mot income per operator 17 568

Table 19. 2013 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 tillable acres) 180-799 800-1,199	180-799	800-1,199	1,200-1,999	> 1,999	Your farm	All farms	800-1,199	
Management returns Number of farms	357	173	167	82		779	LOW 33% 57	Hign 33% 57
Selected returns and costs								
per operator tillable acre								
Crop returns	791.13	810.54	848.64	866.40		834.69	759.76	843.43
Livestock returns above feed	0.32	1.02	-0.12	0.06		0.24	1.62	0.91
Custom work, other receipts	25.78	19.91	18.92	26.41		22.78	21.00	17.03
Value of farm production	817.23	831.47	867.44	892.87		857.71	782.38	861.37
Soil fertility	134.62	141.68	138.77	152.59		142.58	158.83	126.63
Pesticides	52.34	53.02	56.95	53.75		54.29	57.31	46.64
Seed and other crop expense	93.97	95.43	96.35	95.50		95.42	101.87	87.00
Crop total	280.93	290.12	292.07	301.85		292.29	318.01	260.26
Light vehicle and utilities	13.57	9.49	7.40	6.68		8.87	10.57	8.24
Machinery repairs, supplies	35.60	29.61	27.56	25.86		29.13	35.08	23.26
Machinery hire, lease	20.19	16.68	16.29	18.31		17.78	17.83	13.68
Fuel and oil Mochinery dominition	25.51 65.60	24.59	26.07	29.38		26.66	25.56	22.34
Macinitely depreciation	00.09	00.02	141 20	112 05		04.40	16010	110 EE
During and storage	10.50	10.88	15.88	10.71		17 74	10.64	10.70
Building repair and rept	10.65	8.45	7.61	10.71		202	11.57	5.31
Building depreciation	66.6	8.58	11.71	12.18		10.90	11.01	5,99
Building total	40.19	36.90	35.20	35.18		36.56	42.21	31.00
Labor, unpaid	73.28	44.67	31.32	20.92		39.52	46.69	42.89
Labor, paid	6.40	7.60	14.43	20.94		13.40	09.6	3.37
Labor total	79.68	52.27	45.75	41.85		52.92	56.29	46.26
Insurance and miscellaneous	40.27	41.46	42.07	43.58		42.03	40.62	38.27
Livestock services and supplies	0.84	0.56	0.37	0.32		0.49	0.97	0.43
Interest on nonland capital	45.01	46.02	45.67	45.87		45.66	49.54	41.18
Other costs total	86.12	88.04	88.10	89.77		88.17	91.13	79.87
Land charge	219.29	217.61	230.88	253.86		232.80	233.17	197.95
Control control costs	806.//	830.33	833.40	800.30		849.63	899.93	/35.01
	14.7	0.9	0.90	2.04		- 9.4	07.0	4.40
Dercent area returns for	<b>46.14</b>	<b>60.0</b>	20.00	900 900		12.30	67.211-	10.001
	0.UZ	100 001	20.02	0.00		151 627	0.00	10.02
Capital purchases Interest noid	10,00	16,021	23,600	70 887		101,00/ 77 875	0/01	11 170
Interest paid Percent fillable land in	10,001	0,010	00,000	100,01		2 10,22	22,013	D
Corn and corn silade	53.7	55.2	56.2	57.9		55.9	60.2	51.8
Sovbeans	42.5	41.6	39.6	36.6		39.7	36.3	45.0
Wheat	1.0	1.0		<u>-</u>		1.0	1.2	0.8
Other small grains	0.0	0.0	0.0	0.0		0.0	0.0	0.0
CRP acres	0.5	0.4	0.4	0.8		0.5	0.4	0.5
All hay and pasture	0.4	0.2	0.1	0.1		0.2	0.2	0.2
Crop yields, bushels per acre								
Corn	186	186	190	191		189	186	188
Soybeans	53	53	55	54		54	52	53
Wheat	65	63	71	62		66	57	76
				000				1
Corn (old crop)	6.93	6.94	6.82	6.82		6.87	6.78	7.00
	10.4 12.4	4.07	4.04	4.88		4.12	4.03	4.05 7 1 1 0
Souheans (new crop)	12.4.1	12.4.07	12.79	12.84		12 84	10.41	12 00
Mote: Variation in order (in a non-indicated and in a non-indicated data is a non-indicated basewith non-indicated basewith and indicated	- to the nearest doll	or Earme with coil	sofices from FC to 01		ad beat-of-			)).1

Table 19a. 2013 Operator Average Operating Costs, Land Use, Yields, and Prices Received by Size and by Management Returns for Northern

Farms with Soil Ratings from 36 to 85	from 36 to 85		<b>b</b>			-		
Range in size (total tillable acres)	180-799	800-1,199	1,200-1,999	> 1,999	Your farm	All farms	800-1,199	199 ⊔ich 33%
Number of farms	98	72	79	57		306	24 24	24
Total acres in farm	564 200	1,047	1,673	2,988		1,416	1,045	066
Acres of tillable land	498	981 920	1,602	2,884		1,341	9/6	900
Soil rating on tillable land	28 7	59	58	58		- 12 - 58	58	62
Percent land owned	37	24	19	19		26	25	22
Percent land crop shared	8	42	44	41		40	46	42
Percent land cash rented	29	1 0 1 0	36	40		34 0	29	35
Wontns of nired labor Total months labor	3.U 12.4	7.C 18.2	2.11	20.3 41 3		9.0	1.C 18.R	3.9 15.4
Dollar returns	1.3	7.0		<u>.</u>		0.77	0.00	<u>t</u>
Crop returns	304,801	578,150	971,726	1,856,260		830,296	537,671	601,011
Livestock returns above feed	53	2,878	5,119	-27		2,011	-1,348	4,641
Custom work	3,352	5,084	11,748	37,322		12,255	6,337	2,623
Uner farm receipts	215 ENB	8,024 504 135	20,010	1 92,35		10,003 264 114	0,122 E49 793	4,124 E17 008
	0000000	024,100	1,000,010	1,332,140		001,144	040,100	066'710
Crop expenses	109.533	202.979	328.386	610.957		281.424	221.761	190.055
Power and equipment	71,823	129,162	195,317	377,486		174,135	141,176	107,860
Building and fence	11,272	20,533	34,200	68,294		29,992	22,562	16,591
Labor	40,260	54,125	69,747	135,215		68,823	55,829	47,527
Insurance and miscellaneous	18,442	30,448	49,321	102,266		44,853	33,377	24,549
Livestock services and supplies	576	666	2,265	1,598		1,301	1,202	585
Interest on nonland capital	17,875	36,583	55,288	102,537		47,706 6.500	38,019 5 4 4 0	33,218
Real estate taxes	3,391	4,4/8	060,7	14,041		0,080	5,149 47,470	4,022
Casil Terri Other land charges	10,400 47 878	40,1/9 70,207	02,030 112 106	188 155		02,001	42,420 85 857	41,739 60.474
	339 538	604 689	936 616	1 802 898		828.661	647 351	535 590
Capital account adjustment	3.239	3.563	8.658	15.558		7.009	1.336	5.386
Management returns	-20.791	-6.989	80.651	144.807		39.493	-97.233	82.794
Farm production per \$1.00								
of nonfeed costs	0.93	0.98	1.08	1.07		1.04	0.85	1.14
Farm production per man	322,617	498,570	707,813	752,051		543,456	447,592	584,687
Financial summary								
Cash operating income	325,077	627,404	1,032,785	2,055,053		901,172	630,755	539,430
A cote months (months (months))	53,U3Z	98,055	807'8GL	308,087		149,805	12,441	154,678
Accts. receivable (riel crialige) Less mirchased feed	-00,200 1 872	-119,130	-137,734	-3/1/2-00 558		- 100,402	- 143, 143	-14,300
Less purchased livestock	881	1.655	5 462	4 287		22,000	1 916	718
Gross farm returns	315.091	593.713	1.007.551	1.949.056		863.787	548.288	613.101
Cash operating expenses	229,850	426,513	706,473	1,415,422		620,015	453,826	375,506
Prepaid expenses (- if increased)	-2,643	-3,230	-13,702	-39,420		-12,487	5,189	-2,506
Accts. payable (+ if increased)	-1,067	-268	3,420	5,047		1,418	-517	-76
Total operating expenses	226,140	423,015	696,190	1,381,049		608,947	458,499	372,925
Income before depreciation	88,951	170,698	311,360	568,007		254,840	89,790	240,176
Certain Contraction	39,739	/6//69	115,219	228,599		103,118	83,341	67,463 7,200
Capital account aujustment Net farm income	5,239	000'0	0,000 204 800	354 967		158 731	7 784	178 099
Net farm income per operator	49 204	93 230	173.574	203 251		120,367	5 154	175,936
Labor & mgt. income per operator	13,912	37,589	109,185	122,718		64,347	-48,064	123,937
Note: Variations in totals due to rounding to the nearest d	to the nearest do	lollar.						

Table 20. 2013 Operator Average Returns, Costs, and Financial Summary by Size and by Management Returns for Southern Illinois Grain Earne with Soil Defined from 36 to 85

Number of farms 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	80	7	1			- NMC -	*** COI
Selected returns and costs per operator tillable acre Crop returns Livestock returns above feed Custom work, other receipts <b>Value of farm production</b>	2	2.)	79	57	306	24	24
per operator tillable acre Crop returns Livestock returns above feed Custom work, other receipts <b>Value of farm production</b>							
Crop returns Livestock returns above feed Custom work, other receipts Value of farm production							
Livestock returns above feed Custom work, other receipts Value of farm production	704.56	697.37	733.03	776.63	740.62	655.06	742.64
Custom work, other receipts Value of farm production	0.12	3.47	3.86	-0.01	1.79	-1.64	5.73
Value of farm production	24.63	15.81	23.96	31.76	25.72	15.18	9.08
	729.31	716.65	760.86	808.38	768.14	668.60 405 40	757.45
	11/.56	115.41	116.86	129.24	121.61	125.46	109.41
Pesticides	53.06 20 F1	47.44	51.83	49.65	50.35 70.07	57.52	46.14
Seed and other crop expense	10.28	81.99	/9.04	/0//	/0.6/	8/.20	19.29
Crop total	253.19 40.05	244.84	247.72	255.61	251.03	270.18	234.84
Light vehicle and utilities	12.85	9.31	8.29	8.50	9.12	11.53	7.24
Machinery repairs, supplies	37.62	35.77	33.79	32.88	34.25	38.93	27.98
Machinery hire, lease	14.52	9.14	10.77	13.10	11.88	14.57	6.30
Fuel and oil	28.66	30.89	30.19	34.12	31.68	33.16	26.43
	12.31	10.08	04.30	09.34	08.41 4 EE 22	13.81	25.00
	20.001	00.00 0	147.04	CE./CI	100.001	1/2.00	133.20
Urying and storage	0.93	8.8U	8.97	8.88	8.65	8.45	7.54 7.7
Duilding repair and rent Duilding doprografion	9.90	0.90	0.99	70.07	0.90	0.04	00.0
Building total	26.06	24 77	25 80	28.57	26.75	27.49	20.50
	71.55	48.08	3154	27.38	37.71	50.36	45.46
Labor paid	21.52	17.20	21.08	29.19	23.68	17.66	13.27
Labor total	93.06	65.29	52.61	56.57	61.39	68.02	58.73
Insurance and miscellaneous	42.63	36.73	37.21	42.79	40.01	40.66	30.33
Livestock services and supplies	1.33	1.20	1.71	0.67	1.16	1.46	0.72
Interest on nonland capital	41.32	44.13	41.71	42.90	42.55	46.32	41.05
Other costs total	85.28	82.05	80.62	86.35	83.72	88.45	72.10
Land charge	161.25	156.64	152.45	169.26	160.94	162.56	142.35
Total nonfeed costs	784.86	729.38	706.55	754.30	739.16	788.69	661.80
Capital account adjustment	7.49	4.30	6.53	6.51	6.25	1.63	6.65
Management returns	-48.06	-8.43	60.84	60.58	35.23	-118.46	102.30
Percent crop returns fed	0.93	1.62	2.20	0.71	1.38	2.20	0.80
Capital purchases	71,166 2.200	142,304	233,519	429,430	196,554	139,055	130,749
Interest paid	8,500	15,986	30,990	54,769	24,088	19,049	14,403
		0.01		, L	0.07	0.07	
Corn and corn sliage	44	40.3	39.8 42.6	40.4	44.0	40.0	39.8 4 2 4
Suprealis	4 0 0 7	0.04	0.04	0.90	44.1	- <del>1</del> - 7 - 0	4 0 7 7
Willeau Other small grains	9.0	4. C	7.0 0 0	- 0	- 0		
	0.0	0.0	0.0		0.0	200	0, -
All hav and nasting		4 C +			0, <del>,</del>	0.0	- ~
Cron vields bushels per acre	<u>.</u>	<u>5</u>		0.0	<u>.</u>		<u>.</u>
Corn	159	162	170	169	167	156	166
Sovheans	45	45	49	49	48	42	47
Wheat	02	72	74	75	74	75	69
Prices received		1					;
Corn (old crop)	6.97	6.83	6.92	7.04	6.96	6.89	6.87
Corn (new crop)	4.33	4.92	4.56	4.80	4.68	4.67	4.62
Soybeans (old crop)	14.76	14.60	14.83	14.48	14.64	14.97	14.77
Soybeans (new crop) 12.98	12.98		12.94	12.81	12.92	12.79	12.88

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Cwt of pork produced	> 6,000 cwt 10	1,157	1,136	1,061 78	5 5	i ά	21	37.0	50.7		867,357	325,754	2,676	3/,/18	1,233,304	260 568	201,804	81,891	160,147	54,387	88,487	69,239	11,171	219,272	46,200	1,193,167	3,9/3	44,310	1 03	339,449		1,869,184	-21,371	-88,923	494,854	30,533	1,233,504	961,261	26,524	3,859	991,644	241,860	81,513 0.070	3,9/3 164 320	100 933	56,142	
Cwt of po	< 6,000 cwt 8	359	330	7.17.	46	₽ <del>с</del>	27	0,0	0.41		181,781	33,858	3,367	3,/08	61 1,222	59 059	47,942	15,636	49,039	11,494	13,851	14,488	4,342	18,208	40,092	274,150	104	1./7,1.6-	0.81	206,264		332,627	1,175	-23,636	77,730	9,761	222,675	171,875	/31	150	172,755	49,920	07C, I Z	104 28 550	28,559	-9.084	
All farms	52	958	918	202 78	0, 80	1 10	0- L	212	34.9		687,790	263,827	3,804	077 660	31 4,000	224 226	188.541	84,488	116,908	43,729	65,116	59,870	10,487	133,143	67,898	994,406	4,292	-1 /,44/	0 08	403,249		1,850,351	60,319	-79,354	580,956	272,176	978,185	791,931	9,595	-2,155	799,372	178,813	10,498	4,292 107 607	70.238	29,397	
9 Your farm	28	0	2	602		16	2 2				6	8	2					4	0	5	0	ю ·				4	۵ ۵		7	. 80		8	с С	5	2	с П	9			с. Г		2		ი <b>σ</b>			
< 799	Ñ	1,410	1,355	97,1 2	5 C	1 -	- (	20 6	44.5		1,015,579	33		18,000		340 452			Ţ				10,821	204,797	88,410	1,417,664	GL/'/	-30,0/9	0 07	515,138			93,223			377,653		1,1			-			l	57 795		
60-799	24	431	407	3/6	77	10	7F	1040	23.6		305,369	179,757	3,882	10,292	667'000	88 620	97,869	41,886	77,076	22,232	38,779	30,525	10,097	49,547	43,967	500,606	867	4,331	101	272,712		1,048,959	21,930	-46,592	369,893	149,118	505,286			-2,379	380,971	124,314	30,152	290 87 561	84 755	43.028	due te reuradine te the neerest deller
Range in size (total tillable acres)	Cwt of pork produced Number of farms	Total acres in farm	Acres of tillable land	Operator tillable acres	Dercent land owned	Percent land crop shared	Dercent land cash rented	Months of hired lahor	Total months labor	Dollar returns	Crop returns	Livestock returns above feed	Custom work	Voluer farm receipts	Value OF Jamin production	Cron exnenses	Power and equipment	Building and fence	Labor	Insurance and miscellaneous	Livestock services and supplies	Interest on nonland capital	Real estate taxes	Cash rent	Other land charges	Total nonfeed costs	Capital account adjustment	Parm production per \$1.00	r arm production per \$ 1.00 of nonfeed costs	Farm production per man	Financial summary	Cash operating income		Accts. receivable (net change)	Less purchased feed	Less purchased livestock	Gross farm returns	Cash operating expenses	Prepaid expenses (- It increased)	Accts. payable (+ if increased)	Total operating expenses	Income before depreciation		Capital account adjustment	Net farm income ner onerator	Labor & mgt. income per operator	Noto: Mariations in totals due to roun

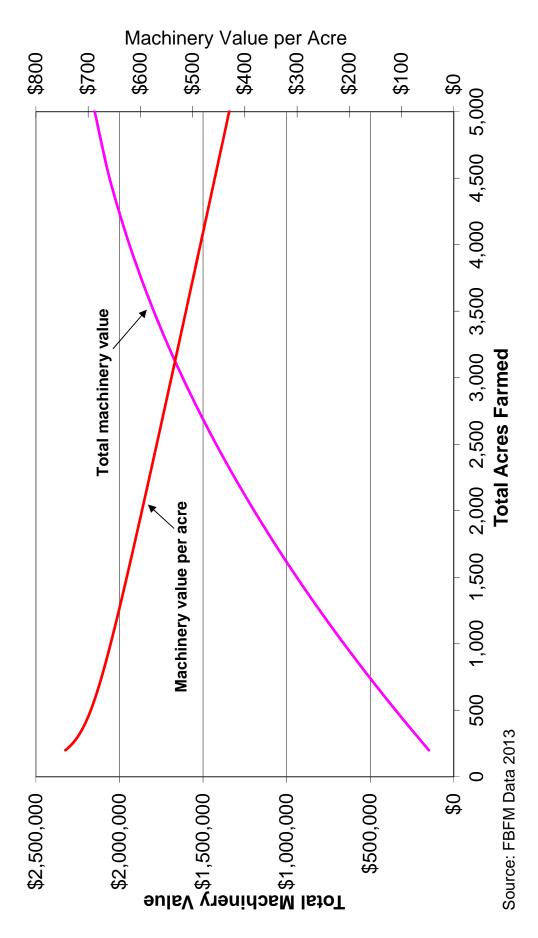
Table 21a. 2013 Operator Average Operating Costs, Land Use, Yields, and Prices Received by Size and by Cwt of Pork Produced for Illinois Hog Farms

Cwt of pork produced			668.93 817.34	124.59 306.97 26.04 38.06									53.98 51.04 51.04			20.63 28.53				-	42.30 51.25 50.07 53.30				112			19.701 140.860			48.U 00.3 40.5 20.8		0.0		4.8 0.2	160 107		61 70			4.14 4.53	14.03 14.32
All farms	52		807.63	309.80	1142 14	114.98	48.91	99.41	263.29	25.44	45.32	45.16 46.05	40.05 59.43	221.39	21.77	53.48 23.06	<u>99.21</u>	53.40	83.87	137.28	51.35 76 46	70.30	198.11	248.38	1167.67	5.04	-20.49	140.00	28,981	2	01.0 32.7	3.6	0.0	0.3	0.4	103	57	75		6.17	4.74	14.07
Your farm																																										
< 799	28		806.50	266.74 17 31	1090 55	121.25	48.01	101.11	270.36	20.20	42.92	42.58	47.04 58.70	211.44	22.67	51.49 21.04	<u>96.09</u>	40.95	79.00	119.95	49.36 60.64	67.52	186.52	241.44	1125.80	6.13	-29.13	165.183	35,362	L C C	02.50 3.7 6	3.1	0.0	0.3	0.1	101	191	74		6.11	4.82	14.03
60-799	24		812.06	478.02 53 65	1343 73	90.50	52.42	92.77	235.69	45.91	54.67	55.23	42.10 62.29	260.26	18.26	61.28 31 85	111.39	102.06	102.91	204.97	59.12 103 12	81.17	243.42	275.53	1331.25	0.79	13.27	167.64 62.459	21,538		32.0 32.0	5.5	0.2	0.5	1.7	201	- 07	78		6.79	4.32	14.21
Range in size (total tillable acres)	Cwi of point produced Number of farms	Selected returns and costs per operator tillable acre	Crop returns	Livestock returns above feed	Value of farm production		Desticides	Seed and other crop expense	Crop total	Light vehicle and utilities	Machinery repairs, supplies	Machinery hire, lease	ruei ariu oli Machinery denreciation	Power and equipment total	Drying and storage	Building repair and rent Building depreciation	Building total	Labor, unpaid	Labor, paid	Labor total	Insurance and miscellaneous	LIVESTOCK SERVICES and Supplies Interest on nonland capital	Other costs total	Land charge	Total nonfeed costs	Capital account adjustment	Derest and returns	rercent crop returns red Capital purchases	Interest paid	Percent tillable land in	Corn and corn sliage Sowheans	Wheat	Other small grains	CRP acres	All hay and pasture	City yields, busileis per acte	Sovheans	Wheat	Prices received	Corn (old crop)	Corn (new crop)	soypeans (old crop)

Table 22. 2013 Operator Average Returns, Costs, Type of Farm	_	nd Financial Su airy (by Number	and Financial Summary for Illin Dairy (by Number of Cows in Herd)	and Financial Summary for Illinois Dairy and Beef Farms Dairy (by Number of Cows in Herd)	ef Farms	Beef (by Size)	vy Size)	
Number of cows in herd Ranne in size (total tillable acres)	10-79	> 79	Your farm	All farms	180-790	> 700	Volir farm	∆ll farme
Number of farms	22	42		64	23	2		30
Total acres in farm	279	679		542	484	1,410		200
Acres of tillable land	238	622		490	453	1,216		631
Operator tillable acres	231	617 70		484	425	1,052		5/2 7E
Soli raurig on unable rand Percent land owned	56	36		430	42	35		40
Percent land crop shared	22	50		54	10	34		18
Percent land cash rented	37	62		53	45	31		42
Months of hired labor	3.1 1.1	36.7		25.2	2.7	15.9		5.7
l otal months labor Dollar returns	1.71	51.1		39.4	13.9	34.1		18.6
Cron returns	171.336	535.740		410.477	284 490	1 009 693		453,704
Livestock returns above feed	52,350	372,189		262,244	86,377	183,030		108,929
Custom work	576	10,594		7,150	3,881	9,951		5,298
Other farm receipts	2,072	18,567		12,897	5,654	7,670		6,124
Value of farm production	226,335	937,090		692,768	380,401	1,210,343		574,054
	10 260	117 205		111 100	111 104	766 17 A		147 244
Crup expenses Dower and equipment	42,203 Gr 757	747 200		181,192	87 560	210 007		147,344 130.605
rower and equipriferit Building and fance	202,00	541,200 50 010		104,933	000,700 77 005	010,997 A6 733		32,208
	58 030	173 106		133 020	26, 12 46, 762	110 433		02,230 61 735
Insurance and miscellaneous	10.627	31,465		24,302	19,291	49.840		26.419
Livestock services and supplies	26.028	130,624		94,669	16,956	70,560		29.463
Interest on nonland capital	17,008	67,093		49,876	35,719	156,762		63,962
Real estate taxes	3,927	9,899		7,846	6,305	16,887		8,774
Cash rent	15,228	85,085		61,071	46,909	100,998		59,530
Other land charges	25,021	37,383		33,133	49,231	162,359		75,627
Total nonfeed costs	279,631	989,150		745,253	447,329	1,291,693		644,347
Capital account adjustment	3,230	3,922		3,684	1,645	1,299		1,565
Earm and untion per \$1.00	con'ne-	-40,139		-40,001	-02 <sup>,</sup> CO-	nen'no-		-00'170
railli piouuciioli per # 1.00 of nonfeed costs	0.81	0 05		0.03	0.85	0 0		080
er norreed costs Farm production per man	171 664	235 848		213 785	332 500	584 078		391 202
Financial summary								
Cash operating income	296,310	1,340,444		981,523	999,651	4,163,894		1,737,974
Inventory change	-231	3,965		2,522	-6,532	122,160		23,496
Accts. receivable (net change)	-6,392	-46,573		-32,761	-19,521	-158,750		-52,008
Less purchased feed	54,773	328,526		234,423	161,672	1,095,147		379,483
Less purchased livestock	8,592	17,214		14,250	431,009	1,821,813		755,530
Gross farm returns	226,321	952,097		702,611	380,916	1,210,343		574,449
Cash operating expenses	1/6,162	777,338		5/0,683	329,199	887,468		459,461
Prepaid expenses (- II increased) Acote pavable (+ if increased)	1 39 876	3,330 101		2,443 23	1,120	2,049		1,024 2 880
Total operating expenses	176.025	781.167		573.149	325,662	893.295		458,109
Income before depreciation	50.297	170,930		129,462	55,255	317.048		116.340
Less depreciation	25,505	101,359		75,284	31,615	164,783		62,688
Capital account adjustment	3,230	3,922		3,684	1,645	1,299		1,565
Net farm income	28,022	73,492		57,862	25,285	153,564		55,217
Net farm income per operator	24,028	50,831		41,618	25,285	117,689		47,112
Labor & mgt. income per operator				-2,743	-16,068	18,803		-7,931
Note: Variations in totals due to rounding to the nearest dol		lar.						

		Dairy (by Number of	of Cows in Herd)		Dairy (by Number of Cows in Herd)	Beef (b	Beef (by Size)	
Number of cows in herd	10-79	> 79	Your farm	All farms				
Kange in size (total acres) Number of farms	22	42		64	180-799 23	667 <	Your tarm 0	All Tarms 30
Selected returns and costs								
per operator tillable acre								
Urop returns	776 45	808.10		847.27	008.//	900.096		193.84
Custom work other receints	11 46	47.25		041.30 4138	203.02	16 75		190.09
Value of farm production	979.03	1,518.43		1,429.95	894.24	1,150.83		1,004.41
Soil fertility	79.27	111.42		106.15	122.74	130.69		126.16
Pesticides	33.62	42.45		41.00	49.05	39.44		44.92
Seed and other crop expense	69.95	84.80		82.37	89.60	82.91		86.73
Crop total	182.84	238.67		229.51	261.39	253.04		257.81
Light vehicle and utilities	42.57	39.60		40.09	17.01	10.37		14.16
Machinery repairs, supplies	77.90	74.40		74.98	45.15	58.75		50.99
Machinery hire, lease	32.73	99.58 30.43		88.62	51.82	48.58		50.43
Fuel and oil	51.03	/0.1/		12.04	35.21	29.09		41./8
	82.35	110.80		100.13	50.04	121.49		8/.00
Power and equipment total	286.982	400.56		381.86	205.83	0/.382		244.42
Driying and storage Building repair and rept	07.0 VC 2C	31.00		30.62	20.02 74 AC	10.10		71.72
Building tepair and rent Building depreciation	21.24 26.53	52.70		20.00 18.41	12 50	16.63		11 33
Building total	62 UU	97.08		01 32	RE ED	44.43		<b>56 51</b>
	220.35	86.70		108.64	80 FF	57.82		75.02
Labor, anpaid	34.59	193.92		167.79	19.20	47.18		31.22
Labor total	254.95	280.64		276.43	108.75	105.00		107.14
Insurance and miscellaneous	45.97	50.99		50.16	45.35	47.39		46.22
Livestock services and supplies	112.59	211.66		195.41	39.86	67.09		51.55
Interest on nonland capital	73.57	108.72		102.95	83.97	149.05		111.91
Other costs total	232.12	371.36		348.52	169.17	263.53		209.69
Land charge	191.09	214.48		210.64	240.82	266.46		251.83
Total nonfeed costs	1209.57	1602.79		1538.29 7.00	1051.57	1228.18		1127.40
Capital account adjustment	13.9/	0.35		09.7	3.8/	1.24		2./4
Demonsteries returns	90:907-	-/8.00		-100./3	-153.40	-/6.11		<b>62.021-</b>
Percent crop returns red	00.001	140.90		120.12	01.10 ED 022	14.001		04.18 310 210
Capital purchases Interest naid	13 804	33,803		26 928	23,322	102 173		41553
Percent tillable land in	50.0	000,000		20,010	20, 100	21.12		000
Com and corn silage	45.4	50.6		49.8	62.0	61.7		61.9
Soybeans	18.1	18.4		18.3	19.5	25.9		22.4
Wheat	2.0	5.0		4.5	4.2	0.6		2.6
Other small grains	3.5	0.2		0.8	0.1	0.0		0.1
CRP acres	0.2	0.0		0.1	0.3	0.0		0.1
All hay and pasture	22.2	9.2		11.3	12.5	5.6		9.4
Crop yields, bushels per acre	007	007			007	1		
Colli	201	201		101	190	0/1		-01 01
SUYDERIIS M/heat	C L	40 77		40 4	00	00		00
VVITEAL Prices received	6	0		+	t	C /		t
Com (old crop)	6.55	6.94		6.90	6.67	6.64		6.65
Com (new crop)	4.37	4.47		4.45	4.65	4.90		4.72
Soybeans (old crop)	14.89	14.25		14.31	14.39	15.40		15.00
Conhorae (nom eren)	000	107			101			





## **Recently Retired**

**Bob Kiesecoms** was raised in Christian County near Assumption. After finishing high school, Bob enrolled at Southern Illinois University, graduating in 1970 with a bachelor's degree in agricultural economics.

Bob began his professional career in April 1970, working as the Randolph County assistant extension advisor. In September 1975, he began working for the Shawnee FBFM Association. His area included Hamilton, Franklin, Gallatin, Johnson, Saline, and White counties. Bob used his expertise in debt reduction and farm appraisal to assist cooperators in these counties. In 1986, he became the executive fieldstaff for Shawnee FBFM Association and served in this capacity for over 26 years.



Bob was involved in the community and an avid hunter. He retired from FBFM in the spring of 2013 after 37 years of dedicated service.



**Danny Stetson** was raised on a grain and beef farm in Bureau County near Neponset. After finishing high school, he enrolled at Black Hawk College and later transferred to Western Illinois University, graduating in November 1970 with a bachelor's degree in agricultural economics.

After serving in the U.S. Army for almost 2 years, Danny went back to school at WIU and received a graduate degree in business administration in November 1974. Danny began his professional career in April 1975, working for the Illinois Valley FBFM Association. His area included Marshall, Putnam and Bureau Counties. Danny used his expertise in financial management and estate planning to assist cooperators in these counties. In 1988, he became the executive fieldstaff for Illinois Valley FBFM Association and served in this capacity for over 25 years.

Danny was involved in the community and was very active in his church. He balanced his family life with his work and made it a point never to miss one of his kids' events as they grew up. Danny retired from FBFM in the summer of 2013 after 38 years of dedicated service.

# FBFMIllinois Farm Business<br/>Farm Management Association

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.

Jeffery Johnson Blackhawk FBFM 115 S. Walnut Avenue Freeport, IL 61032 815-369-2243

Tom Nolte Lincoln FBFM 707 IL Rt. 127 S, PO Box 37 Greenville, IL 62246 618-664-2419

Doug Hileman Shawnee FBFM 710 Balcom Rd. Anna, IL 62906 618-833-3790 Jim Cullison East Central FBFM 900 S. Washington St., Ste. B Tuscola, IL 61953 217-253-5227

Mike Heiser Pioneer FBFM 300 East Locust St. Fairbury, IL 61739 815-692-3906

Roberta Boarman Western FBFM 101 East Main, Box 489 Toulon, IL 61483 309-286-2811 Scott Newport Illinois Valley FBFM 4201 N. Columbus St. Ottawa, IL 61350 815-433-1635

Todd Behrends Sangamon Valley FBFM 1042 N. Grand Ave. West Springfield, IL 62702 217-523-0639

State office: Illinois FBFM Association, 1301 W. Gregory Dr., Urbana, IL 61801 Dwight Raab—217-333-5511 Brad Zwilling—217-333-8346 Brandy Krapf—217-265-5629 Email: dwight.raab@fbfm.org

Visit our Web site at <u>http://www.fbfm.org</u>

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

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