

SUMMARY OF
ILLINOIS
FARM BUSINESS
RECORDS

2016

Commercial Farms
Production Costs
Income
Investments



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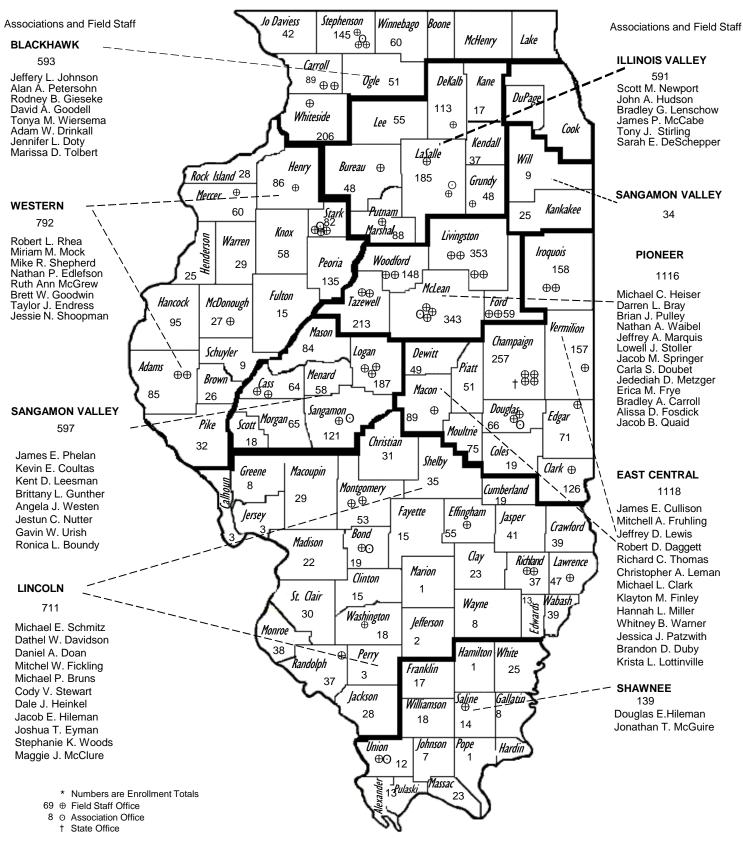
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### ILLINOIS FARM BUSINESS FARM MANAGEMENT ASSOCIATION

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 --- 5,691 cooperating farmers and 69 member field staff\* July 1, 2017, distribution of cooperators by counties and associations



#### SOURCE OF DATA

This report is based on data obtained from farm business records on 5,691 Illinois farms. It is the 92nd annual summary of such records obtained from farmers cooperating with 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, 2000, and 2015, 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 2016, 8 associations in 102 counties were being served by 63 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 2016 indicate that over 95 percent of the 5,691 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 2016 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 2016 was 1,193 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 18) presents data on livestock enterprises. This information is the total of operator and landlord data. The comprehensive and detailed information contained in this section is a valuable resource for anyone interested in livestock production. Because part of the feed grains and roughages produced on Illinois farms is marketed through livestock, the margins of income from livestock enterprises are important in interpreting the economic results of some farming operations.

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

#### 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 livestock), type of farm, value of feed fed, and soil productivity rating.

#### Type of farm

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

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

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

#### Cost items

The *value of feed fed* includes on-the-farm grains with the following average prices per bushel: corn, \$3.55; oats, \$2.30; and wheat, \$3.82. Commercial feeds were priced at actual cost, hay and silage at farm values, and pasture at 40 cents per animal unit per pasture day. A "pasture day" represents an intake of about 20 to 25 pounds of dry matter, defined as 16 pounds of total digestible nutrients (TDN) from the pasture used.

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

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

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

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

*Labor* includes hired labor plus family and operator's labor, charged in 2016 at \$3,800 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 2016. 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 one-half 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 \$29,578.

Land charge or net rent is the bare land priced at current land values multiplied by 2.05 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 2016, using a base earning value of 1979 = 100, was 361.

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; 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 2016

Illinois agriculture is based largely on crop production, especially corn and soybeans. In 2016, Illinois ranked first in the nation in soybean production and second in corn production when measured in dollars. 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. A warmer-than-normal February and March combined with average precipitation led to a good start to planting, with 12 percent of the corn crop planted by April 17. As of April 24, 42 percent of the corn crop was planted, which was well above the 5-year average of 25 percent and above the 2015 average of 26 percent. Ninety-four percent of the corn was planted by May 29, compared with 99 percent the year before and 96 percent for the 5-year average. Soybeans were reported 90 percent planted by June 12, compared with 89 percent in 2015 and 90 percent for the 5-year average. A normal growing season and slightly-above-average percipitation in July and August led to regular crop development. The additional precipitation in these months also led to greater corn and soybean yields than in 2015. A warm fall and below-normal percipitation allowed corn and soybeans to mature and harvest to run above the 5-year average but slightly below 2015.

Crop yields. With average temperatures throughout the growing season as well as increased precipitation during pollination and flowering, yields were higher for corn and soybeans across the state. The average corn yield for Illinois farms reported by the Illinois Crop Reporting Service was 197 bushels per acre, 22 bushels below the previous year's yield. The average for 2012 through 2016 was 171 bushels per acre. Farmers participating in the Illinois FBFM program averaged 215 bushels of corn per acre in 2016, which is the highest on record. The 2016 corn yield was 25 bushels above the year before.

Soybean yields for all Illinois farms were reported at 59 bushels per acre in 2016. This was 3 bushels higher than

in 2015 as well as 6 bushels more than the 5-year average and was the highest on record. FBFM recordkeeping farms averaged 64 bushels of soybeans per acre in 2016, 6 bushels above their 5-year average and the highest on record. Crop yields on the 5,691 recordkeeping farms covered in this report averaged about 9 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 90 cents to \$1.11 per bushel below 2015 prices (Table 1). Old-crop corn prices received in 2016 averaged 6 cents to 12 cents below those received in 2015. New-crop prices received were mostly lower for corn and higher for soybeans compared to the year before. The price received for new-crop corn averaged 28 cents to 32 cents lower than the year before, and new-crop soybeans averaged 60 cents to 61 cents higher. Wheat sold for 19 cents less per bushel to no change during the year. Prices received for old-crop corn and soybean sold in 2016 were above their inventory prices, resulting in a positive marketing margin. The year-end, new-crop inventory price for corn was 30 cents lower than the year before; for soybeans it was \$1.20 higher.

*Crop production.* Corn production totaled 2.256 billion bushels in 2016, 243 million bushels more than the previous year. The final yield was 197 bushels per acre, which was 22 bushels above the previous year's yield. The yield for the 2016 soybean crop was 59 bushels per acre, 3 bushels above the 2015 yield. Production totaled 593 million bushels, 9 percent above the previous year.

The 2016 yield for sorghum for grain was 93 bushels per acre, 1 bushel below the yield in 2015. Sorghum production, at 1.5 million bushels, was down 53 percent from the previous year. The yield for the 2016 winter wheat crop was 74 bushels per acre, which is 9 bushels above the previous year. Total production was 34.8 million bushels, 3 percent above the 2015 production of 33.8 million bushels. The oats yield, at 81 bushels per acre, was 4 bushels above 2015. Production of all hay in 2016 was 1.50 million tons, 2 percent below 2015. Alfalfa hay production was down 11 percent, to 897,000 tons. All other hay production decreased to 600,000 tons. The alfalfa yield increased from 3.5 to 3.9 tons per acre, while all other hay yields decreased from 2.8 to 2.4 tons per acre.

#### **Livestock production**

Two major determinants in farm income are the price farmers receive for livestock and livestock products and the value of feed fed in producing livestock. Gross returns to all livestock enterprises were higher in 2016 compared to 2015, except for dairies and beef cow herds. With much higher gross returns, returns above feed cost were higher for all livestock enterprises except dairies. In 2016 the average

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

	201	6	201	15
	Northern & central	South- ern	Northern & central	South- ern
Grain prices per bushel Sold				
Corn, old crop	3.46 9.37 9.69	3.55 9.58	\$ 3.80 3.78 10.48 9.08 4.06	\$ 3.94 3.83 10.48 9.08 4.65
Livestock prices per cwt Hogs, all weights Fed cattle, all weights, Feeder cattle, all weights,			\$ 52.65 150.68	
prices paid Dairy cattle, all weights		4.16 4.47	206 112	6.79 2.41
Milk per cwt	1	6.27	17	7.89

prices received by farm record-keepers in the Illinois FBFM Association were 8 percent lower for hogs, 20 percent lower for fed cattle, and 34 percent lower for milk than they were in 2015 (Table 1). The prices paid for all weights of feeder cattle purchases averaged 30 percent below the 2015 price for feeder cattle, and feeder pigs weighing below 20 pounds averaged about the same as the 2015 price paid per pig. Higher returns resulted in returns above feed and purchased animals for feeder cattle enterprises increasing from a negative \$5.75 per hundredweight produced to \$16.70 (Table 10). This is below the 5-year average of \$23.28. Mainly due to lower feed prices, returns above feed costs for farrow-to-finish hog producers increased to \$14.38 per hundredweight produced in 2016. This was above 2015, but below the 5-year average. Lower milk prices and lower beef prices caused dairy returns above feed cost per cow to decrease from \$2,167 in 2015 to \$1,936 in 2016. This is 11 percent below 2015 and below the 5-year average. Returns for beef cow herds with calves sold decreased to a negative \$94, which is below the 5-year average of \$206.

#### Labor and management income

The average operator's share of labor and management income for the 5-year period from 2012 through 2016 on all northern Illinois grain farms (located north of a line from Kankakee to Moline) was \$51,436 (Table 2). Operators on about 1,400 grain farms in central Illinois had 5-year average earnings of \$60,207. 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 beginning of this 5-year period have led to larger earnings from crops.

The grain farms in northern Illinois averaged 1,082 tillable acres per farm, compared with an average of 1,152 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 2012 through 2016, grain farm operators in southern Illinois averaged \$32,502 for labor and management. This average decreased by \$27,293 compared with the average for the 5-year period from 2011 through 2015.

When the average earnings on Illinois grain farms for the 5-year period from 2012 through 2016 are compared with the earnings from 2011 through 2015, earnings decreased in all areas of the state. The average for the 5-year period from 2012 through 2016 decreased 49 percent in northern Illinois, 33 percent in central Illinois, and 46 percent in southern Illinois as compared to the 5-year period 2011 through 2015. The 2016 return to operator's labor and management was higher in all parts of the state than the 2015 earnings, and all areas were below the 2012–2016 5-year average. The year dropped from the 5-year average, 2011, averaged about \$196,000 higher earnings than in 2016.

When average earnings on Illinois livestock farms for the 5-year period from 2012 through 2016 are compared with the earnings from 2011 through 2015, earnings decreased for all enterprises. The average for the 5-year period from 2012 through 2016 decreased 51 percent for hog farms, 295 percent for beef farms, and 44 percent for dairy farms as compared to the 5-year period 2011 through 2015.

In 2016, the labor and management income for all areas of Illinois averaged \$27,697 per farm. This figure is \$94,895 above the 2015 state average. Returns to labor and management for 2016 averaged \$31,959 below the average for the 5-year period 2012 through 2016. Higher yields and lower costs were the main reasons for the higher incomes in 2016.

Corn yields were well above the yields recorded the year before. The average corn yield on the 2,510 farms in 2016 was 215 bushels per acre, 25 bushels above the 2015 yield. The average soybean yield in 2016 was 64 bushels per acre, 3 bushels above the 2015 yield. Corn and soybean yields were generally highest in the north and central parts of the state from east to west. Average temperatures and above-average precipitation during July and August led to good growing conditions for crops. The average corn and soybean yields were the highest on record for FBFM record-keeping farms.

Year-end inventory price for the 2016 corn crop of \$3.30 per bushel was 30 cents per bushel lower than a year earlier. Soybeans were inventoried at \$9.80 per bushel, \$1.20 higher than December 31, 2015. The average sales price received for the 2015 corn and soybean crop sold in 2016 was above the inventory price, resulting in a positive marketing margin. Crop returns averaged \$745 per tillable acre, \$76 per acre higher than the 2015 crop returns.

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

Table 2. Operator's 5-Year Average Share of Labor and Management Income by Size and Type of Farm, 2012 Through 2016

		Number of acres per farma					
	Under 800	800 to 1,199	1,200+	All			
		North	ern Illinois				
Tillable acres	480	991	2,156	1,082			
Labor and manag	ement ear	nings by ty	pe of farm				
Grain	\$17,484	\$49,199	\$109,892	\$51,436			
		Centra	al Illinois				
Tillable acres	520	694	1,965	1,152			
Labor and manag	ement ear	nings by ty	pe of farm				
Grain <sup>b</sup> Grain <sup>c</sup> All	\$31,075 26,247 29,063	45,127	71,902	\$74,267 42,895 60,207			
		South	ern Illinois				
Tillable acres	494	982	2,228	1,409			
Labor and manag	ement ear	nings by ty	pe of farm				
Grain	\$4,351	\$19,533	\$57,650	\$32,502			
	Illinois livestock						
Labor and manag	ement ear	nings by ty	pe of farm				
Hog Beef Dairy	d d d	d d d	d d d	\$36,961 -16,608 26,648			

aTillable acres

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 2012 to 2015.

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 \$96,608 of the return for equity capital, depending on location and type of farm. None of the 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.

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

<sup>&</sup>lt;sup>c</sup>Heavy-till and transition soils, with soil productivity ratings from 56 to 85. <sup>d</sup>Data not available.

#### **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 2,468 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 2,468 farms was \$235,343, up 1 percent from \$232,173 a year earlier. Grain farms had the greatest working capital, averaging \$242,058, while dairy farms had the least, averaging \$35,575. 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 2.10, up from 2.07 a year ago. Grain farms recorded the highest (most healthy) current ratio, and hog farms the lowest. The 2016 current ratio was the second lowest since 2006.

**Solvency** is a measure of the farm's overall financial strength and risk-taking ability. The average net worth of

the 2,468 farms at the end of 2016 was \$2,949,711, up from \$2,920,753 the year before. Average farm and nonfarm incomes in 2016 were above family living requirements, thus enabling net worth increases. Grain farms had the highest net worth, followed by beef farms, with dairy farms recording the lowest. The *debt-to-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 20.3. The debt-to-farm asset percentage ranged from 19.9 for grain farms to 40.8 for hog farms. The average debt-to-farm asset level of 18.2 from 2012 was at its lowest level for at least 20 years.

A measure of a farm's *profitability* is useful in examining its ability to meet family living demands and retire term debt. It is also useful in measuring the farm's ability to utilize assets and equity to generate income. The average return on farm assets for the 2,468 farms was 1.5 percent, up from a *negative* 0.8 percent a year earlier. Grain farms recorded the highest returns, averaging 1.6 percent, while beef farms recorded the lowest, averaging a *negative* 1.4 percent. Return on farm equity in 2016 ranged from 1.1 percent for grain farms to a *negative* 3.6 percent for dairy farms. The average was 0.9 percent, up from a *negative* 1.8 percent in 2015.

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 3.0

Table 3. Financial Characteristics of Illinois Farms for 2016 by Type of Farm

	All farms	Grain farms	Hog farms	Dairy farms	Beef farms
Number of farms	2,468	2,371	33	42	22
Liquidity					
Working capital	\$235,343	\$242,058	\$90,041	\$35,575	\$198,531
Current ratio	2.10	2.13	1.22	1.30	1.71
Solvency					
Net worth (market)	\$2,949,711	\$2,986,042	\$2,237,254	\$1,683,432	\$2,520,454
Debt-farm equity (%)	25.4	24.8	67.8	51.0	33.6
Debt-farm asset (%)	20.3	19.9	40.8	33.8	25.1
Profitability					
Farm operating income	\$67,828	\$71,349	-\$38,895	\$25,441	-\$70,673
Return on farm assets (%)	1.5	1.6	-1.3	-0.9	-1.4
Return on farm equity (%)	0.9	1.1	-3.4	-3.6	-3.3
Financial efficiency					
Interest expense ratio (%)	3.0	2.9	5.1	7.0	9.8
Operating expense ratio (%)	70.7	70.4	83.1	75.5	82.1
Depreciation expense ratio (%)	11.8	11.8	10.9	11.6	16.6
Farm operating income ratio (%)	13.0	13.3	-2.2	3.1	-15.6
Asset turnover ratio	0.21	0.21	0.20	0.19	0.08

percent for the 2,468 farms, ranging from 2.9 percent for grain farms to 9.8 percent for beef farms. The 3.0 percent was the same as 2015. The 2012 figure of 1.9 percent is the lowest since at least 1995. The farm operating income ratio ranged from a high of 13.3 percent for grain farms to a *negative* 15.6 percent for beef farms. The average for all farms in 2016 was 13 percent, up from 1.5 percent in 2015. The 2012 through 2016 5-year average farm operating income ratio is 15.8 percent. The 2016 farm operating income ratio is below the 5-year average.

#### Family living expenditures

Total cash living expenditures for a sample of 1,333 Illinois sole-proprietor, farm-operator families in 2016 averaged \$76,917 (Table 4). This figure is 2 percent lower than the 2015 average. Capital purchases for family living expenses of \$5,344 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 7.5 percent of the total cash outlay for all family living expenditures in 2016.

The average farmer in this sample paid \$25,936 in interest in 2016 on operating, machinery, and long-term real

estate debts. This interest expense was 5 percent of total operating expense (including interest paid) and 4 percent of total farm receipts. The average amount of interest paid in 2016 was \$1,975 more than the amount paid in 2015. Here are the most significant financial facts about 2016:

- Net farm income plus net nonfarm income was \$14,430 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 \$30,663 more than family living expense and taxes for the period 2012 through 2016. The 2012 figure of \$187,966 is the largest positive margin ever.
- Net nonfarm income averaged \$44,503 and was the highest amount since this study began. This was \$3,841 more than the 2015 figure of \$40,662.
- Capital farm purchases were \$60,026, compared to \$63,852 in 2015, or 6.0 percent less. They were \$32,518 lower than the average for 2012 through 2016 and were at their highest level ever in 2013.
- The amount of money borrowed did not exceed principal payments for the first time on record. Principal payments

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

		All records, ave	rage per farm		Family of 3 to 5		
	2016	2015	2014	2013	High-third	Low-third	
Number of farms	1,333	1,377	1,350	1,307	135	135	
Age of operator	57	57	56	55	50	47	
Number in family	2.6	2.7	2.7	2.7	3.9	3.7	
Net farm income	\$77,700	\$5,188	\$95,885	\$105,902	\$136,703	\$68,336	
Source of dollars							
Net nonfarm income	\$ 44,503	\$ 40,662	\$ 39,676	\$ 38,019	\$ 58,291	\$ 44,282	
Money borrowed	436,713	449,744	439,315	418,038	532,016	331,812	
Farm receipts	641,771	665,446	715,621	<u>736,101</u>	839,276	<u>564,368</u>	
Total sources	\$1,122,987	\$1,155,872	\$1,194,612	\$1,192,158	\$1,429,583	\$940,462	
Use of dollars							
Interest paid	\$ 25,936	\$ 23,961	\$ 21,266	\$ 20,530	\$ 33,611	\$ 24,207	
Cash operating expenses	468,061	494,496	519,618	497,855	602,912	425,465	
Capital farm purchases	60,026	63,852	89,020	130,006	83,611	55,696	
Payments on principal	438,474	423,513	390,179	365,513	521,283	350,837	
Income and Social Security taxes	25,512	32,438	38,801	40,328	35,936	14,597	
Net new savings and investments	22,717	32,833	46,792	48,796	18,461	8,638	
Contributions	3,471	3,537	3,698	3,874	5,072	2,192	
Medical expenses	11,115	11,102	11,213	10,417	16,004	7,432	
Life insurance	4,946	4,627	4,626	4,492	6,262	2,842	
Expendables	<u>57,385</u>	59,272	62,174	61,933	99,603	42,792	
Total living expenses	(\$ 76,917)	(\$ 78,538)	(\$ 81,711)	(\$ 80,716)	(\$ 126,941)	(\$ 55,258)	
Living—capital purchases	5,344	6,241	<u>7,225</u>	<u>8,414</u>	6,828	5,764	
Total uses	\$1,122,987	\$1,155,872	\$1,194,612	\$1,192,158	\$1,429,583	\$940,462	

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

exceeded money borrowed by \$1,761. For the 2012 through 2016 time period, money borrowed has exceeded principal payments by an average of \$31,755.

- Of the total living expenses—excluding family capital purchases—charitable contributions accounted for 5 percent, life insurance 6 percent, medical expenses 14 percent, and family living expendables the remaining 75 percent.
- Income and Social Security taxes paid decreased by \$6,926, and the total amount of taxes paid, \$25,512, was \$7,247 below the 5-year average for the period 2012 through 2016.
- Medical expenses averaged \$11,115,\$326 more than the five-year average from 2012 to 2016. Expenses were less than 1 percent higher than the year before.

The 2016 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 \$126,941, compared with \$55,258 for the low-third group. The high-third group had gross farm receipts of \$839,276, compared to \$564,368 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 low-third group had \$11,710 more remaining than the high-third group. The high-third group had a balance remaining of \$25,289 compared to \$36,999 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 1,333 represents slightly smaller farms than the average size of all recordkeeping farms in the state. Management was considered slightly above average.

In view of these factors, average total living expenses for all recordkeeping families (excluding capital purchases) are estimated to be between \$61,500 and \$65,400, or 15 to 20 percent below the average total living expenses of these 1,333 Illinois farms. When the \$44,503 net nonfarm income for 2016 is used for living expenses, the remaining \$37,748 must be generated from the farm business to pay the \$82,261 used for total living expenses, including family living capital purchases. The figure of \$37,748 amounts to 5.9 percent of total farm receipts.

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

The average operator's net farm income for all farms in 2016 was \$86,731; it was a *negative* \$2,971 in 2015 (Table 5). The 2012 net farm income was the highest for any year out of at least the last 10 years. Generally, operator net farm incomes decrease steadily as a higher percent of gross farm returns is used to pay interest. Frequently, when more than 15 percent of the gross farm return is used to pay interest, the operator's net farm income is usually negative. Interest paid as a part of gross farm returns for all operators averaged 3.9 percent in 2016, 4.2 percent in 2015, 3.0 percent in 2014, 2.8 percent in 2013, and 2.5 percent in 2012. 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 985 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, 37 months on hog farms, 23 months on beef farms, and 49 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 2016 are due to changes in farm prices and to

Table 5. Percent of Illinois Farms and Operator Net Farm Income by Interest Paid as a Percent of Gross Farm Returns, 2012 Through 2016

		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									
2012	37	50	11	2	a	a	100		
2013	36	46	14	3	1	a	100		
2014	33	48	15	3	1	a	100		
2015	29	41	21	6	2	1	100		
2016	30	43	20	5	2	1	100		
Net farm income									
2012	296,370	329,186	197,285	217,127	(17,723)	(487, 188)	298,028		
2013	144,794	135,286	83,677	65,677	(37,411)	(64,720)	127,664		
2014	128,273	109,973	76,491	34,470	(11,703)	(23,508)	107,290		
2015	37,764	7,585	(45,493)	(67,679)	(80,735)	(180,879)	(2,971)		
2016	108,927	104,247	` 53,163	`18,422	( 9,101)	(151,119)	86,731		

aLess than 1 percent.

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 except for using economic depreciation. 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 \$76,264 in 2016 (Table 6). This income was \$73,491 above that of 2015 and \$33,735 below the 5-year average income for 2012 through 2016. The 2012 net farm income of \$268,291 was the highest in the last 30 years. The value of farm production averaged \$606,854, which was \$76,176 above 2015 and \$37,771 below the 2012 through 2016 average. The value of farm production included a \$41,376 increase in inventory values compared to 2015, when the inventory value decreased by \$73,821. Net cash operating income (adjusted gross) was \$580,836, \$70,882 lower than the 5-year average. Total cash operating expenses were \$2,140 lower than the year before, while depreciation of \$75,401 was 6 percent higher than the year before and 9 percent higher than the 2012 through 2016 average. Total cash operating expenses for 2014 were the highest on record.

Incomes were higher on these farms in 2016 compared to 2015. Higher yields and positive marketing margins were the main factors for the higher incomes. The average soybean yield on these farms in 2016 was 64 bushels per acre, compared to 61 the year before. The average corn yield was 216 bushels per acre, compared to 187 the previous year. Corn was inventoried 30 cents lower at the end of 2016 compared to the beginning; soybeans were inventoried \$1.20 higher. The higher quantities in ending inventory

caused the value of inventories to increase \$41,376 at the end of the year compared to the beginning. Crop returns averaged \$737 per tillable acre in 2016 compared to \$653 in 2015. Crop expenses per acre decreased 3.5 percent. This was the third year for the Agriculture Risk Coverage (ARC) and Price Loss Coverage (PLC) Program. The producer had to make a one-time election for either ARC or PLC. For the ARC program, producers would receive a payment the following year after the year of production if the county trigger or farm trigger was met (depending if the producer selected county or individual). For the PLC program, producers receive a payment the following year after the year of production if the effective price is less than the reference price. It is estimated there will be a few counties in Illinois that will see a county ARC payment for 2016. 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

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

			2012–16
	2016	2015	average
Number of farms	540	580	569
Total acres	1,038	1,007	1,029
Soil-productivity rating	82	81	82
Percent land owned	20	19	18
Percent land crop-shared	39	40	41
Percent land cash-rented	41	42	40
Cash operating income	\$589,835	\$605,887	\$664,767
Less purch. feed, livestock	8,999	_14,741	13,109
Net cash operating income	\$580,836	\$591,146	\$651,658
Accounts receivable chg	(15,358)	13,353	1,893
Inventory change	41,376	(73,821)	(8,926)
Value of farm prod	\$606,854	\$530,678	\$644,625
Total cash op. expenses	\$444,543	\$446,683	\$460,888
Prepaid-unpaid change	10,645	10,135	4,831
Annual depreciation	75,401	_71,088	_68,908
Net farm income	\$76,264	\$2,773	\$109,999
Net farm inc. per operator	\$72,095	\$2,506	\$104,339
Unpaid labor charge	43,984	43,755	43,061
Returns to capital & mgmt	32,281	-40,983	66,938
Interest charge on capital	54,324	57,717	<u>57,388</u>
Management returns	(\$22,044)	(\$98,699)	\$ 9,550
Total cash income <sup>a</sup>	\$580,836	\$591,146	\$651,658
Total cash expenditures <sup>a</sup>	505,134	506,963	<u>555,556</u>
Cash balance	\$ 75,702	\$ 84,182	\$ 96,102
Capital purchases	60,591	60,281	94,669
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<sup>&</sup>lt;sup>a</sup>Includes sales or purchases of capital items

receipts are included in net farm income and crop returns. Total tillable land planted to corn and soybeans in 2016 was 96.3 percent, the same as 2015. Corn acres decreased slightly from 52.0 percent of tillable acres in 2015 to 51.9 percent in 2016, while soybean acres increased from 44.3 to 44.4 percent.

The average prices received in 2016 for new-crop corn and soybeans of \$3.43 and \$9.69, respectively, were lower for corn and higher for soybeans than in the previous year. The average prices received for old-crop corn and soybeans, \$3.67 and \$9.39, respectively, were lower than the year before for corn and soybeans. Capital purchases of \$60,591 in 2016 were \$310 more than in 2015 and \$34,078 below the 2012 through 2016 average. Capital purchases of \$137,226 were the highest in 2013 of any year during the last 10 years.

While accrual net farm incomes averaged \$76,264, management returns were a *negative* \$22,044 in 2016, compared to a *negative* \$98,699 in 2015 and the 2012 through 2016 average of \$9,550. The value of farm production per man year was highest for any type of farm in Tables 6 and 8. Operators for these farms owned 20 percent of the land they farmed, crop-shared 39 percent, and cash-rented 41 percent. Of the total labor of 15.2 months, only 3.6 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 53.1 percent of the acres in corn and 45.4 percent in soybeans. The table compares 2016 costs per acre with 2015 costs. In 2016, the total cost per acre averaged \$869 for corn and \$652 for soybeans. From 2015 to 2016, the total cost per acre decreased 3 percent for corn and 2 percent for soybeans.

Nonland costs of \$2.81 per bushel for corn and \$6.13 for soybeans in 2016 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 2015 to 2016. Costs per bushel for corn decreased due primarily to much higher yields and lower fertility costs. Total costs per bushel decreased 67 cents for corn and soybeans. If the 2016 yield for corn had been 189 bushels, the same as the average for the period from 2013 through 2016, the total cost per bushel would have been \$4.60. 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 buildings. The land cost is the weighted average of owned,

crop-shared, and cash-rented land costs.

Hog farms. The operator's net farm income in 2016 for Illinois hog farms having 180 acres or more averaged a negative \$6,834 (Table 8). Net incomes were \$111,936 higher than net incomes in 2015 and \$150,094 lower than the average for the 5-year period from 2012 through 2016. The cash balance on these farms of a negative \$3,727 was \$74,120 less than in 2015 and \$88,361 below the average for the 5-year period from 2012 through 2016. Inventories on these farms increased \$171,316 in 2016, following a \$205,392 decrease in 2015. The value of farm production of \$1,068,889 was \$171,316 more than in 2015 and \$141,358 lower than the average for the 5-year period from 2012 through 2016. Farm production per man year was \$430,127. Incomes on hog farms increased in 2016 due to higher yields. Depreciation of \$96,757 was \$12,113 higher than in 2015.

Management returns were a *negative* \$111,866 in 2016 compared to a *negative* \$227,489 in 2016. Management returns were \$115,623 more than in 2015 and \$134,608

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

	Co	orn	Soyb	eans
-	2016	2015	2016	2015
Number of farms	615	672	615	672
Acres grown per farm	722	698	617	628
Yield per acre, bu	228	200	69	66
Variable nonland costs				
Soil fertility	\$154	\$166	\$ 49	\$ 56
Pesticides	66	66	40	40
Seed	116	118	74	76
Drying and storage Machinery repairs, fuel,	27	29	9	9
and hire	_55	_58	48	50
Total, variable costs	\$418	\$437	\$220	\$231
Other nonland costs				
Labor	\$ 48	\$ 49	\$ 46	\$ 46
Buildings	16	17	14	14
Machinery depreciation.	66	65	58	57
Nonland interest	48	50	43	45
Overhead	_44	_47	42	_44
Total, other costs	\$222	\$228	\$203	\$206
Total, nonland costs	\$640	\$665	\$423	\$437
Land costs				
Total land costsa	\$229	\$231	\$229	\$231
Total, all costs	\$869	\$896	\$652	\$668
Nonland cost per bu	\$2.81	\$3.33	\$6.13	\$ 6.62
Total, all costs per bu	\$3.81	\$4.48	\$9.45	\$10.12
Average yield, past 4 yrs	189	182	60	57
Total, all costs per bu	\$4.60	\$4.92	\$10.87	\$11.72

<sup>&</sup>lt;sup>a</sup>Weighted average of owned, crop-shared, and cash-rented land costs.

below the average for 2012 through 2016. Capital purchases were \$88,932, which was \$22,285 lower than in 2015 and \$50,030 lower than the average for 2012 through 2016. Farm production per one dollar of nonfeed costs was 89 cents. Purchased feed and livestock for this group totaled \$890,766, \$5,387 less than in 2015. The average interest paid on these farms was \$53,916. That was the second highest for any type of farm in Table 8. Farm operators in this group owned 16 percent of the land they farmed, cropshared 19 percent, and cash-rented 65 percent. Total labor was 36.7 months, 24.2 months of which was hired. Corn was planted on 64.2 percent of the acres and soybeans on 32.2 percent. The average corn yield was 222 bushels per acre and the average soybean yield 68 bushels per acre.

**Beef farms.** The operator's net farm income for Illinois beef farms having 180 acres or more averaged a *negative* \$62,296 in 2016 (Table 8). This figure was \$60,528 higher than the 2015 figure and \$119,393 lower than the average from 2012 through 2016. Higher grain yields contributed to

the higher earnings. Net farm income for these farms was the lowest of any type of livestock farm in the sort. Feed cost per hundredweight produced decreased 10 percent, while the average price received for market cattle decreased 20 percent in 2016 compared to 2015. The price paid for feeder cattle went down about 30 percent from the year before. The value of farm production for this group of farms averaged \$518,978, or \$257,336 more than in 2015. Cash operating income averaged \$1,977,097, purchased feed and livestock totaled \$1,291,727, and net cash operating income averaged \$685,370.

Management returns of a *negative* \$209,861 in 2016 for these farms were the lowest for any type of livestock farm in the study. Management returns averaged a *negative* \$70,019 for the period 2012 through 2016. Capital purchases were \$69,897 in 2016, compared to \$92,949 in 2015 and \$144,815 in 2014. The 2012 through 2016 average was \$111,829. Depreciation of \$79,300 was \$24,037 above 2015. Cash operating expenses, excluding purchases of

Table 8. Averages for Selected Total Farm Items on Illinois Hog, Beef, and Dairy Farms

		Hog farms	;	<u> </u>	Beef farms		С	airy farms	
=			2012–16			2012–16			2012–16
	2016	2015	average	2016	2015	average	2016	2015	average
Number of farms	39	38	42	18	28	26	42	57	51
Total acres	1,058	999	1,069	727	562	679	601	572	603
Soil-productivity rating	84	79	80	68	55	69	70	66	69
Percent land owned	16	18	20	46	44	43	30	30	36
Percent land crop shared	19	17	19	3	23	16	3	4	4
Percent land cash rented	65	64	61	51	32	41	67	66	61
Cash operating income	\$1,933,851	\$1,988,755	\$2,220,902	\$1,977,097	\$1,249,794	\$1,509,975	\$1,101,361	\$907,361	\$1,101,361
Less purch. feed, livestock	890,766	896,153	<u>1,018,264</u>	1,291,727	776,601	964,905	250,418	220,456	257,360
Net cash oper. income	\$1,043,085	\$1,092,602	\$1,202,639	\$685,370	\$473,192	\$545,070	\$850,943	\$749,905	\$844,000
Accounts receivable change	(17,777)	10,363	(310)	(3,182)	1,372	(1,262)	(8,828)	(4)	1,374
Inventory change	43,581	(205,392)	<u>7,918</u>	_(163,210)	(212,293)	3,006	(13,157)	(57,490)	6,785
Value of farm prod	\$1,068,889	\$ 897,573	\$1,210,247	\$518,978	\$261,642	\$546,814	\$828,958	\$692,412	\$852,159
Total cash oper. expenses	\$957,880	\$ 910,992	\$979,043	\$487,284	\$322,804	\$425,755	\$691,871	\$596,526	\$653,899
Prepaid-unpaid change	21,085	20,707	2,889	14,690	6,399	2,629	13,943	19,803	821
Annual depreciation	96,757	84,644	85,054	_79,300	_55,263	61,354	97,302	79,199	82,195
Net farm income	(\$6,834)	(\$118,770)	\$143,261	(\$62,296)	(\$122,824)	\$57,076	\$25,842	(\$ 3,116)	\$115,244
Net farm inc. per operator	(\$4,913)	(\$80,298)	\$94,520	(\$63,147)	(\$90,329)	\$42,186	\$38,063	\$ 3,034	\$77,113
Unpaid labor charge	47,295	39,051	46,977	67,070	50,589	51,811	57,814	58,295	57,426
Returns to capital & mgmt	(54,129)	(157,822)	96,283	(129,366)	(173,413)	5,265	(31,972)	(61,411)	57,818
Interest charge on capital	57,737	69,668	73,542	80,945	72,142	<u>75,284</u>	60,184	56,030	60,026
Management returns	(\$111,866)	(\$227,489)	\$22,741	(\$209,861)	(\$245,554)	(\$70,019)	(\$92,156)	(\$117,441)	(\$2,209)
Total cash income <sup>a</sup>	\$1,043,085	\$1,092,602	\$1,202,639	\$685,370	\$473,192	\$545,070	\$850,943	\$749,905	\$844,000
Total cash expenditures <sup>a</sup>	<u>1,046,812</u>	1,022,209	<u>1,118,005</u>	<u>557,181</u>	<u>415,754</u>	<u>537,584</u>	<u>782,850</u>	<u>727,673</u>	<u>787,430</u>
Cash balance	(\$ 3,727)	\$ 70,393	\$ 84,634	\$128,169	\$57,439	\$ 7,486	\$ 68,093	\$ 22,232	\$56,570
Capital purchases	88,932	111,217	138,962	69,897	92,949	111,829	90,979	131,147	133,531

alncludes sales or purchases of capital items.

feed and livestock, totaled \$487,284. The net cash balance for these farms was \$128,189.

Costs and returns to produce beef from 2013 through 2016, 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 only in 2014, 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 46 percent of the land they farmed. They crop-shared 3 percent and cashrented 51 percent. The amount of interest paid was \$56,026, the highest of any livestock group in Table 8. They planted 54.5 percent of their tillable land to corn or corn silage. They also had 9.6 percent of their tillable land in hay and pasture. These farms used 22.6 months of total labor, with 5.0 of that hired labor. The average corn yield on these farms was 222 bushels per acre, and the average soybean yield was 67 bushels per acre. In 2015, corn and soybeans yields on these farms averaged 201 and 62 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 \$25,842 in 2016 (Table 8). This figure was \$28,958 above the 2015 figure and \$89,402 below the 5-year average from 2012 through 2016. The highest income was recorded in 2014. The farms averaged 45,653 hundredweight of milk produced.

The main factor for the increase in earnings was higher crop yields. The value of farm production was \$828,958. This was \$136,546 higher than 2015 and \$23,201 lower than the 2012 through 2016 average. The value of inventory decreased by \$13,157, while cash operating income increased by \$131,000, 13.5 percent more than in 2015. (A detailed breakdown of the cost of producing milk is given in Table 16.) Management returns of a *negative* \$92,156 were \$25,285 higher than the 2015 figure and \$89,947 lower than the 5-year average from 2012 through 2016. Capital purchases decreased to \$90,979 in 2016, compared to \$131,147 in 2015 and \$152,407 in 2014. The 2012 through 2016 average was \$133,531, and 2013 was the highest amount of capital purchases ever for these types of farms. Annual depreciation on these farms averaged \$97,302. These farms used 49.4 months of total labor, 34.2 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 \$37,122, the lowest for any livestock group in this study.

Farm operators in this group owned 30 percent of the land they farmed and cash-rented 67 percent. About 10.7 percent of the land they farmed was in hay ground; 50.3 percent was in corn and corn silage. Over 132 percent of the value of crop produced was fed to livestock. The average corn yield was 203 bushels per acre for these farms, which is 18 bushels per acre more than in 2015. The average price received for milk in 2016 was 9 percent lower than the average price received in 2015.

#### 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 2002 through 2016 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 \$147 in 2016 were the same as the most recent 5-year average. The 2016 return was below the 2002 through 2016 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 and 2014 resulted in some of the better returns on record. Table 9 shows

the return of \$136 per \$100 of feed fed for the most recent 5-year period (2012 through 2016) to be below the previous 5-year period and the 15-year average of \$143. The 2016 return of \$132 per \$100 of feed fed was \$4 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 \$1,936 per cow in 2016 was \$304 below the 5-year average of \$2,240 (Table 10). These returns indicate that the average dairy enterprise has not covered the total estimated cost of production of \$2,312 per cow from 2011 through 2015. The 2016 return per \$100 of feed fed of \$181 was above the past 5-year average of \$180.

For the beef-herd enterprise, the average returns above the cost of feed and purchased animals for the period from 2012 through 2016 showed great volatility. 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 \$206 during the past 5 years. The 2016 return of a *negative* \$94 did not cover feed costs or total nonfeed costs, estimated at \$305 per cow.

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

#### **Hog enterprises**

The information on farrow-to-finish enterprises in Table 11 is based on a sample of 22 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 2016 was 377 litters. Average pigs weaned per litter, 9.88, was above the 2015 figure of 9.59. The 2,587 pounds of pork produced per litter was 56 pounds above 2015. The

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

	Farrow- to-finish hogs (\$)	Feeder pig finish- ing (\$)	Feeder cattle bought (\$)	Dairy cow herds (\$)	Beef cow herds (\$)	Native sheep raised (\$)	Yearly price of corn (\$)
2002	151	121	128	198	130	154	2.19
2003	168	132	200	202	148	165	2.30
2004	216	158	165	222	178	161	2.49
2005	216	143	167	245	170	111	2.02
2006	183	121	124	192	137	117	2.41
2007	138	136	142	218	111	134	3.42
2008	115	131	102	172	86	106	4.70
2009	123	104	126	138	109	75	3.76
2010	156	127	163	168	135	139	3.86
2011	146	153	153	181	145	173	6.15
2012	120	127	117	146	125	79	6.74
2013	138	133	125	156	131	a	6.07
2014	196	187	215	228	260	122	4.14
2015	136	122	90	188	101	79	3.70
2016	147	132	132	181	184	63	3.55
Averages							
2002–2016	157	135	143	189	138	a	3.83
2002–2006	187	135	157	212	153	142	2.28
2007–2011	136	130	137	175	117	125	4.38
2012–2016	147	140	136	180	144	a	4.84

a Data not available.

Table 10.	Variations in Returns to	Livestock Enterprise	Units.	2012 Through 2016

		•			
	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					
2012	\$ 9.98	\$10.17	\$14.29	\$1,519	\$145
2013	18.33	13.09	21.12	1,846	169
2014	37.12	29.37	70.06	3,734	842
2015	11.87	6.20	-5.75	2,167	-34
2016	<u>14.38</u>	8.64	<u>16.70</u>	<u>1,936</u>	<u>–94</u>
Five-year average	\$18.34	\$13.49	\$23.28	\$2,240	\$206
Nonfeed costs, 2011 through 2015 <sup>b</sup>					
Direct cash	\$11.14	\$ 7.12	\$19.20	\$1,695	\$189
Other costs	8.41	3.85	<u>14.24</u>	617	<u>116</u>
Total	\$19.55	\$10.97	\$33.44	\$2,312	\$305

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

2016 records summarized here for the "all farms" group show that the return of \$14.38 above feed costs per 100 pounds of pork produced was \$2.51 above the 2015 return of \$11.87. The 2016 return was below the 5-year average.

The 5-year average return above feed costs per 100 pounds produced was \$18.34 (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 \$19.55 per 100 pounds to pay for all nonfeed costs in the 2011 through 2015 time period. The return above all costs during this 5-year period of a negative \$1.21 (\$18.34 minus \$19.55) has led to very little expansion but some increase in pork production. Pork production increased from 2014 to 2015, but increased only 1.8 percent from 2015 to 2016. Fortunately, strong export demand is expected to support pork prices. Pork production is expected to increase about 3.6 percent in 2017 due to higher pork prices, mainly due to higher exports (9.7% in 2017) and lower feed costs.

The large producers paid less per hundredweight for concentrates and had a higher feed conversion. The average price received for hogs sold by large producers, or the net at the farm, was 60 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 2016 increased only 1.8 percent. Pork production in 2017 is expected to increase compared to 2016. Hog prices should move higher due to greater

demand. Lower feed costs have decreased the cost of production, resulting in higher profit margins when combined with higher prices received.

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 2013, 2014, 2015, and 2016. 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 2016 were \$41.39 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 7 percent as one compared 2016 to 2015. Total nonfeed costs increased \$1.91 per 100 pounds of pork produced, with maintenance and power costs and livestock expenses representing most of the increase. Feed costs decreased as grain prices decreased. Total cost of production decreased from 2015 to 2016 by 7 cents (2 percent) per 100 pounds of pork produced.

From 2013 through 2016, the return above all costs averaged 51 cents 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

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

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 2016 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 1,582,692 pounds in 2016 (Table 13). At 240 pounds of gain per head, this figure amounted to 6,595 head fed per farm in 2016. These feeder pig enterprises represent those that buy weaner pigs and finish them.

The return above the cost of feed and purchased animals from 2012 through 2016 averaged \$13.49 per 100 pounds of gain. This return was \$2.52 above the \$10.97 of all nonfeed costs for the period 2011 through 2015 (Table 10). The 2016 return of \$8.64 was \$2.44 above the 2015 return and \$4.85 below the 2012 through 2016 return. Lower feed costs were the main reason for the higher returns.

Given that a 475-pound unit of gain equals one head of feeder cattle, the average of 229,922 pounds of beef produced per farm in 2016 (Table 13) equals 484 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

Table 11. Hog Enterprises, 2016 Averages per Farm

	<u> </u>
	Farrow-to-finish
All farms	enterprises <sup>a</sup>
22	7
975,904	2,330,827
2,587	2,699
\$440,953	\$1,044,572
\$300,599	\$691,026
\$147	\$151
377	864
11.60	12.02
9.88	10.23
1.85	1.92
20.78	19.41
3,725	8,839
3.2	3.4
271	272
per c	wt produced
\$48.84	\$48.24
45.18	44.82
<u>30.80</u>	<u>29.65</u>
\$14.38	\$15.17
216	216
_84	<u>_79</u>
300	295
\$20.40	\$20.33
\$10.25	\$10.05
	975,904 2,587 \$440,953 \$300,599 \$147 377 11.60 9.88 1.85 20.78 3,725 3.2 271 per c \$48.84 45.18 30.80 \$14.38 216 84 300 \$20.40

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

Table 12. Average Costs and Returns for Farrow-to-Finish Hog Enterprises, 2013 Through 2016

	2016	2015	2014	2013	2013–16 average
Number of farms	10	13	12	14	12
Tillable acres	632	398	553	823	602
Number of litters	492	583	494	422	498
Total returns	\$46.63	\$46.96	\$74.52	\$63.96	\$58.02
-			per cwt pork pr	oduced	
Cash costs					
Feed	\$29.54	\$31.71	\$38.59	\$49.71	\$37.39
Operating expenses					
Maintenance and power <sup>a</sup>	\$ 5.17	\$ 4.55	\$ 6.10	\$ 4.36	\$ 5.05
Livestock expenses	5.21	4.63	5.28	5.23	5.09
Insurance, taxes, and overhead	_1.47	_1.40	<u>1.18</u>	<u>1.11</u>	1.29
Total operating expenses	\$11.85	\$10.59	\$12.56	\$10.70	\$11.42
Total cash costs	\$41.39	\$42.30	\$51.15	\$60.41	\$48.81
Other costs					
Depreciation <sup>b</sup>	\$1.75	\$1.38	\$1.74	\$1.86	\$1.68
Labor	6.05	5.94	5.49	5.03	5.63
Interest charge on all capital	<u>1.51</u>	<u>1.34</u>	<u>1.59</u>	<u>1.11</u>	<u>1.39</u>
Total other costs	\$9.31	\$8.66	\$8.82	\$8.00	\$8.70
Total nonfeed costs	\$21.16	\$19.25	\$21.38	\$18.70	\$20.12
Total all costs	\$50.70	\$50.96	\$59.97	\$68.41	\$57.51
Return above all costs	(\$4.07)	(\$4.00)	\$14.55	(\$4.45)	\$ 0.51

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

blncludes machinery, equipment, and building depreciation.

\$132 in 2016, in comparison with a 5-year average of \$136 and a 15-year average of \$143 (Table 9).

The price paid for feeders was \$62.63 per 100 pounds lower in 2016 than it was in 2015; the price received for cattle sold in 2016 was \$30.16 lower per 100 pounds than the price received in 2015. The average weight of purchased animals was 687 pounds; the average weight of animals sold was 1,351 pounds. Feed costs were \$51.87 per 100 pounds produced in 2016; they were \$57.41 in 2015. Feed costs decreased in 2016 and were below the last 5-year average of \$68.17. Smaller differences in the price paid and received for market cattle as well as lower feed costs resulted in much higher returns above feed in 2016.

Each 100 pounds of beef produced required 663 pounds of concentrates and 65 pounds of hay. The amount of corn silage used in 2016 averaged 213 pounds; other silage averaged 41 pounds, for a total of 254 pounds. Silage use by the feeder cattle enterprise had been decreasing slightly in the prior 10 years, except for 2015; the 10-year average for the period 1997 through 2006 was 432 pounds per 100 pounds of beef produced, compared to 288 pounds for the period 2007 through 2016. The use of 254 pounds of silage per 100 pounds of beef produced in 2016 was the second lowest amount fed on record. 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 \$23.28 per 100 pounds of beef produced from 2012 through 2016 (Table 10). During this period, returns ranged from a *negative* \$5.75 in 2015 to \$70.06 in 2014. The 5-year average returns above feed costs are below the estimated cost of \$33.44 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 2015 because of the lower feed costs and smaller difference between purchase and received prices.

The data in Table 14 show a detailed breakdown for the period from 2013 through 2016 on costs and returns to produce beef on beef-feeding farms. The farms included had no other livestock. All costs were accounted for, either in crops or in the beef-feeding enterprise. The figure for feed costs is based on the assumption that all the grain and roughage fed was produced on the farm and was marketable.

The data shows that these farms were finishing an average of 1,110 feeders each year from 2013 through 2016.

The 4-year average total cash cost including feed and interest charged on cattle, was \$88.36 per 100 pounds of beef produced. The average total returns of \$89.97 for the same period was more than total cash costs by \$1.61 per 100 pounds produced, or about \$10.82 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 \$12.94 per 100 pounds of beef produced, or \$87 per feeder (\$12.94 multiplied by 6.72 hundredweight of gain per feeder), include depreciation, labor, and interest. Adding the other costs to cash costs results in total costs of \$101.30 per hundredweight over the 4-year period. This was \$11.33 per hundredweight more than the average total returns of \$89.97.

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

Table 13. Feeder Cattle and Feeder Pig Finishing Enterprises, 2016 Averages per Farm

	Feeder	Feeder-pig
	cattle	finishinga
Number of farms	63	32
Trainion of familion	00	02
Total lbs produced	229,922	1,582,692
Total returns	\$157,651	\$570,049
Value of feed fed	\$119,266	\$433,372
Returns per \$100 of feed fed	\$132	\$132
Death loss, % lbs produced	2.2	1.9
Average weight purchased	687	13
Price paid per 100 lbs	\$144.16	\$288.69
Price received per 100 lbs	\$120.52	\$ 49.73
Average weight sold	1,351	268
	per cw	rt produced
Total returns	\$68.57	\$36.02
Feed costs	51.87	27.38
Return above feed	\$16.70	\$ 8.64
Farm grains/complete feed, lbs	611	188
Supplement, lbs	_52	_88
Total concentrates, lbs	663	276
Hay, lbs	65	b
Corn silage, lbs	213	b
Other silage, lbs	41	b
Hay equivalent, lbs	160	b
an alternative and the second transfer		

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

bData not available.

of beef consumers want at the lowest possible cost. Even though farms may have nonmarketable feeds, unemployed labor, or fixed capital investments in facilities, these data indicate returns are not consistently high enough to justify building new facilities.

#### **Dairy enterprises**

The 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 2012, the herd size has been variable, but it averages around 145 cows. The 2016 average herd size is 162.7 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 2016 was \$181. The average for the period from 2012 through

2016 was \$180 (Table 9). In 2016, milk prices per hundredweight decreased from \$17.89 to \$16.27. From 2015 to 2016, beef prices for market animals sold decreased \$96.95 per hundred pounds, while feed costs decreased 38 cents per milk equivalent. Milk production per cow in 2016 of 23,969 pounds was up 659 pounds from 2015 and the highest on record.

Dairy farmers have reduced the amounts of pasture and dry hay and increased the amounts of grain and silage fed over the past two decades. Pasture days per animal unit dropped from 145 in 1960, to 50 in 1970, to 4 in 2016. 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 groups had 40 to 79 cows and 150+ cows. The larger herds averaged 340 cows, and the smaller herds averaged 60 cows. The return above feed costs per cow was higher for the larger herds, at \$2,209, compared to a return

Table 14. Average Costs and Returns for Beef-Feeding Enterprises, 2013 Through 2016

					2013–16
	2016	2015	2014	2013	average
Number of farms	9	12	15	14	13
Average per farm					
Tillable acres	458	575	570	704	577
Hundredweight beef produced	4,082	5,929	5,843	5,241	5,274
Number head at 475-lb gain equivalents	859	1,248	1,230	1,103	1,110
Average weight purchased, lbs	652	650	635	659	649
Average weight sold, lbs	1,341	1,348	1,324	1,270	1,321
Price received per 100 lbs sold	\$118.53	\$149.47	\$147.19	\$122.87	\$134.52
Price paid per 100 lbs purchased	\$149.69	\$210.69	\$206.98	\$141.12	\$177.12
		per cw	t beef produc	ed	
Cash costs					
Feed	\$53.16	\$58.25	\$61.32	\$91.53	\$66.07
Operating expenses					
Maintenance and power <sup>b</sup>	\$ 8.41	\$ 8.68	\$ 8.61	\$ 8.45	\$ 8.54
Livestock expense	5.43	7.88	6.20	6.93	6.61
Insurance, taxes, and overhead	2.44	1.23	0.85	0.94	1.37
Interest on cattle <sup>c</sup>	4.76	<u>7.11</u>	6.23	5.02	<u>5.78</u>
Total operating expenses	\$21.04	\$24.90	\$21.89	\$ 21.34	\$22.29
Total cash costs	\$74.20	\$83.15	\$83.21	\$112.87	\$88.36
Other costs					
Depreciation <sup>d</sup>	\$ 4.72	\$ 3.93	\$ 3.64	\$ 3.37	\$ 3.92
Labor	6.11	6.09	5.88	6.47	6.14
Interest on other capital	4.01	2.78	2.61	2.16	2.89
Total other costs	\$ 14.84	\$12.81	\$ 12.13	\$ 12.00	\$ 12.94
Total all costs	\$ 89.04	\$95.96	\$95.34	\$124.87	\$101.30
Total returns <sup>e</sup>	\$ 68.79	\$ <u>50.67</u>	\$ <u>131.16</u>	\$ <u>109.27</u>	\$ 89.97
Return above all costs	(\$20.25)	(\$45.29)	\$ 35.82	(\$ 15.60)	(\$11.33)

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

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

elnterest is a charge on the average value of beginning- and end-of-year inventories on hand. The rate was 4.0% for 2013 to 2016.

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.

of \$1,451 for the smaller herds. The larger herds averaged 26,014 pounds of milk produced per cow, compared to 21,354 pounds for the smaller herds. Feed cost per milk equivalent was lower for the larger herds, at \$8.85, compared to \$10.12 for the smaller herds.

The average return above feed costs per cow for all dairy herds was \$1,936 in 2016 (Table 15). This figure compares with the recent 5-year average of \$2,240 per cow (Table 10). For the years 2011 through 2015, the 5-year average return above feed costs required to pay market prices for all nonfeed costs is estimated to be about \$2,312 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 farms by the number of cows in the herd from 2014 through 2016. 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 2012 through 2016. The residual costs, amounting to about 87 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 2014 through 2016 is a combination of lower feed costs and lower other costs for the larger herds. For the 3-year period, the milk price for the larger herds is 39 cents per 100 pounds lower than that for the smaller herds, while feed costs per 100 pounds of milk sold for the larger herds were \$1.52 lower than for the smaller herds. Total nonfeed costs were 67 cents lower for the larger herds.

In 2016, feed costs per 100 pounds of milk produced decreased for small herds (\$1.30) and for large herds (43 cents). The cost of feed averaged about 49 percent of total production costs in Illinois dairy enterprises. Compared with 2015, total nonfeed costs decreased 6 percent for the large herds and only a small increase for the small herds. The total cost of producing 100 pounds of milk in 2016 was \$19.51 for the small herds and \$17.80 for the large herds. The average price received for milk in 2016 decreased for both groups of dairy enterprises. With lower milk prices, returns were not able to cover total production costs for either group in 2016. Returns were a negative \$3.29 per 100 pounds of milk produced for the small herds and a negative \$1.50 for the large herds. The returns above all costs per 100 pounds of milk produced had averaged \$1.80 more for the large group than the small group from 2014 through 2016. Margin Protection Program for Dairy Producers

Table 15. Dairy Cattle Enterprises, 2016 Averages per Farm

		40–79	150+
	All farms	cows	cows
Number of farms	57	13	17
Number of cows	162.7	59.6	333.9
Milk cows dry, %	12.4	16.0	11.3
Animal units in herd	305	115	660
Total returns	\$705,470	\$229,793	\$1,607,479
Value of feed fed	\$390,435	\$143,291	\$856,526
Return per \$100 of feed fed	\$181	\$160	\$188
Return above feed per cow.	\$1,936	\$1,451	\$2,209
Total milk produced, cwt	39,001	12,727	88,422
Lbs of milk per cow	23,969	21,354	26,014
Lbs of butterfat per cow	896	828	967
Total beef produced, lbs	111,669	43,469	233,445
Pounds of beef per cow	686	729	687
Death loss, % lbs produced. Price received for:	13.4	14.8	11.7
cwt milk	\$ 16.27	\$16.00	\$ 16.41
	\$10.27	\$10.00	\$ 16.41 \$141.47
cwt beef Per cwt milk equivalent <sup>a</sup>	\$129.03	\$119.40	\$141.47
Feed cost	\$9.16	\$10.12	\$8.85
Grain/complete feed, lbs	22	24	20
Protein and minerals, lbs	19	17	20
Total concentrates, lbs	41	41	40
Hay and dry roughage, lbs	13	29	8
Corn silage, lbs	87	79	87
Other silage, lbs	51	57	52
Pasture days per animal unit	4	9	3
Hay equivalent per cow, tons	8.4	9.4	8.5
Concentrates per cow, lbs	10,611	9,740	11,357

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

(MPP-Dairy) payments from the Farm Service Agency and patronage returns related to the dairy enterprise were not included in returns. This would add about 25 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. 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 65 cows in 2016, 2 more than in 2015. 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 \$104 in 2016. The returns for the 5-year period from 2012 through 2016 averaged \$144, which is above the 15-year average of \$138 for the period from 2002 through 2016 (Table 9). Beef prices received in

Table 16. Average Milk Production Costs and Returns by Size of Herd, 2014 through 2016

	4	10-79 cows in her	rd	80 o	r more cows in h	erd
	2016	2015	2014	2016	2015	2014
Number of farms	7	7	9	28	29	27
Tillable acres	140	182	198	490	475	442
Number of cows	61.7	57.4	64.0	230.3	210.0	216.7
Milk per cow, lbs	21,680	20,299	19,434	24,538	24,092	23,826
			per 100 lbs of	milk produced -		
Price received	\$16.22	\$16.79	\$25.29	\$16.30	\$17.48	\$25.16
Cash costs						
Feed	\$9.40	\$10.70	\$12.73	\$8.66	\$9.09	\$11.06
Operating expenses						
Maintenance and powera	2.39	2.84	3.07	2.25	2.40	3.03
Livestock expense	2.80	2.52	3.13	2.53	2.68	2.91
Insurance, taxes, and overhead	0.19	0.09	<u>0.19</u>	0.24	0.24	_0.26
Total operating expenses	\$ 5.38	\$ 5.46	\$ 6.39	\$ 5.02	\$ 5.32	\$ 6.20
Total cash costs	\$14.78	\$16.16	\$19.12	\$13.68	\$14.41	\$17.26
Other costs						
Depreciation <sup>b</sup>	\$ 0.89	\$ 0.96	\$ 0.85	\$ 0.87	\$ 0.96	\$ 0.98
Labor	3.09	2.90	3.11	2.44	2.58	2.72
Interest charge on all capital	0.75	0.77	0.83	0.81	_0.83	0.87
Total other costs	\$ 4.73	\$ 4.63	\$ 4.79	\$ 4.12	\$ 4.37	\$ 4.57
Total nonfeed costs	\$10.11	\$10.09	\$11.18	\$ 9.14	\$ 9.69	\$10.77
Total all costs	\$ <u>19.51</u>	\$20.79	\$23.91	\$ <u>17.80</u>	\$ <u>18.78</u>	\$21.83
Return above all costs	(\$3.29)	(\$4.00)	\$1.38	(\$1.50)	(\$ 1.30)	\$ 3.33

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

2016 averaged \$135.18 per hundredweight, a decrease of \$51 from prices in 2015. Feed costs per 100 pounds of beef produced decreased by \$14.83 to \$74.45 in 2016.

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. Comparing the two groups, there are 61 cows in the calves-sold group and 63 cows in the calvesfed-out group. The value of feed fed for the calves-fed-out group was \$23,349 higher than for the calves-sold group, but the feed cost per hundredweight produced is \$25.36 less. More hay and dry roughages are fed to the calvessold group, 437 pounds per hundredweight produced more than the calves-fed-out group, and the total silage fed is 22 pounds more per hundredweight produced.

Since 2012, the difference in returns above feed costs per cow for the average farmer to feed out calves rather than sell them at weaning has been about \$254 per cow. Additional returns are needed for the added costs of labor, buildings, and capital required to feed out the calves. In 2016, the return above feed costs per cow for feeding calves to market weight was \$165 more than selling them at weaning.

#### **Sheep enterprises**

Sheep production is a minor enterprise on Illinois recordkeeping farms. The minimum size of enterprise in Table 18

Table 17. Beef-Cow Enterprises, 2016 Averages per Farm

		Calves	Calves
	All farms	sold	fed out
Number of farms	150	57	37
Number of cows in herd	65	61	63
Animal units in herd	101	70	116
Total lbs produced	46,350	26,441	70,286
Beef per cow, lbs	712	433	1,108
Total returns	\$35,852	\$19,105	\$52,711
Value of feed fed	\$34,507	\$24,831	\$48,180
Return per \$100 feed fed	\$104	\$77	\$109
Return above feed per cow	\$21	-\$94	\$71
Death loss, lbs	2,140	1,965	2,903
% lbs produced	4.6	7.4	4.1
Weight per animal sold, lbs	745	557	1,077
Price per cwt sold—market	\$135.18	\$140.34	\$125.06
	peı	cwt produc	ed
Feed costs	\$74.45	\$93.91	\$68.55
Grain/complete feed, lbs	185	152	243
Protein and minerals, lbs	65	67	59
Total concentrates, lbs	250	219	291
Hay and dry roughage, lbs	716	1,017	580
Corn silage, lbs	356	390	363
Other silage, lbs	119	90	95
Pasture days	26	38	19
Pasture days per animal unit	119	142	114
Hay equivalent per cow, tons	5.1	4.3	6.3
alnsufficient data.			

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

is 3 animal units. One animal unit of sheep is defined as 750 pounds, liveweight. The return per \$100 of feed fed in 2016 was \$63 for native flocks. The average return for the 4-year period from 2012 through 2016, minus 2013, is \$86 per \$100 feed fed (Table 9). The pounds of wool and mutton produced per farm have remained fairly constant for the past 10 years. The price received for sheep increased from \$143.22 per hundredweight in 2015 to \$215.30 in 2016, while feed costs per hundredweight produced increased by \$29.96 to \$130.22, or 30 percent. Most Illinois farmers who keep sheep do so as a supplemental enterprise in order to market nonsalable feeds and labor.

Table 18. Sheep Enterprises, 2016 Averages per Farm (Native Flocks)

Number of farms	8
Number of ewes in flock	38
Wool and mutton produced, lbs	6,729
Total returns	\$5,481
Value of feed fed	\$8,763
Return per \$100 of feed fed	\$63
Percent lamb crop	
Death loss, lbs	624
Percent lbs produced	9.3
Weight per market animal sold, lbs	128
per cwt produced	
Price received—market	\$215.30
Feed costs	\$130.22
Concentrates, lbs	434
Hay, lbs	546
Pasture days	47
Hay equivalent, lbs	1,380

# Appendix A

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

Table 19. 2016 Operator Average Returns, Costs, and Financial Summary by Size and by Management Returns for Northern and Central Illinois Grain Farms with Soil Ratings from 86 to 100

Illinois Grain Farms with Soil Ratings	า Soil Ratings fr	from 86 to 100						
Range in size (total tillable acres)	180-799	800-1,199	1,200-1,999	> 1,999	Your farm	All farms	800-1,199	
Management returns Number of farms	398	239	244	131		1,012	Low 33% 79	High 33% 79
Total acres in farm	537	1,007	1,562	3,319		1,255	686	1,023
Acres of tillable land	517	975	1,529	3,268		1,225	952	988
Operator tillable acres	417	692	1,192	2,814	Ī	266	288	722
Soil rating on tillable land	92	91	91	91		91	91	91
Percent land owned	21	17	12	10		14	27	7
Percent land crop shared	ge :	42	44	27		37	34	53
Percent land cash rented	40	41	44 (	62		49	39	36
Months of hired labor	1.1	χ. 4 τ. τ. τ.	20.00	20.7		5.0 6.0	5.4 5.4	2.3.5
Dollar returns		7:4-	10.7	30.2		5.0.2	0.01	
Crop returns	313.876	590.264	929.191	2.270.758		780.818	592.420	572,525
Livestock returns above feed	-13	-12	336	12		75	45	-83
Custom work	3,953	9,272	11,369	58,680		14,081	12,060	7,864
Other farm receipts	5,785	10,182	13,861	42,048		13,465	11,404	8,141
Value of farm production	323,601	609,704	954,757	2,371,498		808,438	615,928	588,448
Dollar costs		:				!		
Crop expenses	105,428	199,143	306,818	686,601		251,347	223,299	170,186
Power and equipment	59,326	102,400	155,529	381,272		134,369	130,691	75,985
Building and Tence	16,257	666,87	36,728	103,656		35,516	35,953	71,157
Labor	29,432	43,310	57,133	120,966		51,237	50,125	36,706
Insurance and miscellaneous	15,774	26,886	42,868	97,834		35,553	31,729	23,182
Livestock services and supplies	262	541	548	865		475	277	471
Interest on nonland capital	18,339	34,658	53,173	127,604		44,736	41,854	27,749
Real estate taxes	6,580	9,773	10,646	21,666		10,267	14,595	6,922
Cash rent	47,874	808'86	178,671	586,545		161,168	96,217	83,879
Other land charges	47,643	77,567	99,741	154,811		81,144	101,148	64,721
Total nonfeed costs	346,916	622,085	941,855	2,281,821	Ī	805,812	725,888	510,958
Capital account adjustment	2,659	2,147	10,144	11,152		5,442	4,758	-854
Management returns	-20,656	-10,233	23,046	100,829		8,068	-105,202	76,636
Farm production per \$1.00								
of nonfeed costs	0.93	0.98	1.01	1.04		1.00	0.85	1.15
Farm production per man	379,934	659,228	847,274	1,031,977		642,978	594,161	716,899
Financial summary						-		1
Cash operating income	318,778	582,544	912,811	2,194,324		767,079	622,000	529,645
Inventory change	16,822	48,165	/1,45/	247,225		67,222	19,683	75,086
Accts, receivable (net change)	-11,326	8/6,61-	-28,395	-59,274		-23,692	-23,915	-15,604
Less purchased feed	202	145	813	4,022		950	249	82
Less purchased livestock	1/1	248	246	216		213	897	240
Gross farm returns	323,598	610,337	954,814	2,378,037		809,447	617,251	588,803
Cash operating expenses	235,023	441,825	703,499	1,812,107		600,964	484,550	377,188
Prepaid expenses (- if increased)	4,150	6,874	10,400	24,738		8,965	18,018	-1,423
Accts. payable (+ if increased)	443	3,371	5,064	6,068		2,977	3,899	2,759
Total operating expenses	239,616	452,070	718,963	1,842,913		612,906	506,467	378,524
Income before depreciation	83,982	158,267	235,851	535,125	Ī	196,541	110,784	210,279
Less depreciation	39,003	75,841	114,344	254,941		93,821	103,043	54,195
Capital account adjustment	2,659	2,147	10,144	11,152		5,442	4,758	-854
Net tarm income	47,639	84,573	131,651	291,336		108,163	12,499	155,230
Net farm income per operator	46,365	81,905	122,068	211,844		94,432	13,089	150,597
Labor & mgt. income per operator	11,159	31,263	66,298	110,718		42,089	-59,868	115,057
A lot of the contract of contract of the lot of the lot	to to co con colt of a	00 04000 00000	Contract of the contract of th	The second second	City Colon Vincon	Ciarona Conicar		

Table 19a. 2016 Operator Average Operating Costs, Land Use, Yields, and Prices Received by Size and by Management Returns for Northern and Central Illinois Grain Farms with Soil Ratings from 86 to 100

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
Management returns Number of farms	398	239	244	131		1.012	Low 33%	High 33%
Colonfod roturns and acets		221	1	2		1.0,	2	
Selected Fetulis and costs								
Crop returns	752 17	767 19	779 44	807.01		782 79	752 26	792 82
Livestock returns above feed	-0.03	20.0-	ας. ας. ας.	0.00		20.7	25.50	.0 12
Custom work other receipts	23.34	25.22 25.28	21.16	35.80		27.62	92.60	22.12
Value of farm production	775.47	792.46	800.88	842.81		810.48	782.11	814.87
Soil fertility	102 11	108 49	106.36	105 03		105.56	118 60	98.58
Desticides	53.71	52.43	53.81	46.76		51.01	60.65	47.76
Seed and other grop expense	96.82	97.70	97.20	92.79		95.41	104.30	89.32
Crop total	25.02	258.84	257.37	244 01		251 QR	283.55	23.52
Light vehicle and utilities	11.37	8.21	6.54	6.78		7.73	887	828
Machinery repairs supplies	32.30	25.60	26.05	22.00		27.70	28.03	21.50
Machinery lepails, supplies	32.30 16.90	15.37	20.00	24.83		18 80	18 00	12.73
	10.30	10.01	4.0.4	74.03		16.00	10.33	12.73
ruel allu oli Machinery denreciation	14.63	-0.54 58 58	67.00	63.56		13.31	93.03	13.07
Power and equipment total	142.17	133.09	130.46	135.50		134.71	165.95	105.22
Drying and storage	21.54	21.55	17.46	15.20		18.05	23.48	17.78
Building repair and rent	5.75	4.57	3.97	5.34		4 87	5.47	3.73
Building depreciation	11.66	11.57	9.38	16.30		12,68	16.70	7.78
Building total	38.96	37.69	30.81	36.84		35.61	45.65	29.30
Labor, unpaid	62.75	41.19	29.28	17.52		32.66	39.84	41.25
Labor, paid	7.78	15.10	18.64	25.47		18.70	23.81	9.58
Labor total	70.53	56.29	47.93	42.99		51.37	63.65	50.83
Insurance and miscellaneous	37.80	34.95	35.96	34.77		35.64	40.29	32.10
Livestock services and supplies	0.63	0.70	0.46	0.31		0.48	0.35	0.65
Interest on nonland capital	43.95	45.05	44.60	45.35		44.85	53.15	38.43
Other costs total	82.38	80.69	81.02	80.43		80.97	93.79	71.18
Land charge	244.66	241.95	242.47	271.17		253.22	269.15	215.36
Total nonfeed costs	831.34	808.55	790.06	810.94		807.85	921.74	707.56
Capital account adjustment	6.37	2.79	8.51	3.96		5.46	6.04	-1.18
Management returns	-49.50	-13.30	19.33	35.83		8.09	-133.59	106.12
Percent crop returns fed	0.01	0.01	0.02	0.02		0.01	0.00	0.01
Capital purchases	30,604	60,916	88,457	231,066		77,661	77,359	58,758
Interest paid	10,422	20,209	33,346	73,276		26,397	24,552	14,349
Percent tillable land in	i I	C I	i i	i C		i	1	i
Corn and corn silage	52.8	53.8	53.9	58.5		55.1	57.0	51.5
Soybeans	45.6 7.0	o.44 o.c	9.44 9.0	39.6		0.54	42.T	48.3 5.0
Wheat Other cmall aroing	c. O	S.O.	Z 0 Z 0	- 0		2.0	9.0	0.0
	0.0	0.0	0.0	5.0		0.0	0.0	9.0
ORF actes	. c	0.0	. O O	- 0		2.0		2.0
Crop yields bushels per acre	0.5	-	5	9.0		-	5	0.0
Corn	226	727	226	228		727	226	727
Sovbeans	99	67	) (2)	69		i 99	67	69
Wheat	9 %	26	60	107		86	104	0
Prices received								
Corn (old crop)	3.64	3.64	3.70	3.77		3.70	3.60	3.67
Corn (new crop)	3.42	3.46	3.47	3.55		3.49	3.40	3.50
Soybeans (old crop)	9.33	9.43	9.39	9.57		9.44	9.38	9.45
Soybeans (new crop)	02 0	500	9.74	000		σ	0 73	

Table 20. 2016 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

Illinois Grain Farms with Soil Ratings f	h Soil Ratings fro	rom 56 to 85	0000	000		7 11 4		00
Mange III size (lotal liliable acres)	667-001	661,1-000	1,200-1,999	888,- <	roul laitti	Allallis	961,1-000	
Nanagement returns Number of farms	348	162	160	80		750	LOW 3370 53	11gil 33%
Total acres in farm	520	1,029	1,616	3,089		1,138	1,013	1,043
Acres of tillable land	495	986	1,563	3,006		1,097	896	966
Operator tillable acres	420	821	1,319	2,663		938	841	791
Soil rating on tillable land	12	78	78	78		78	78	29
Percent land owned	27	21	18	17		20	29	16
Percent land crop shared	31	34	31	23		29	26	41
Percent land cash rented	43	46	51	09		51	45	43
Months of hired labor	6.0 6.0	7.5	5.2	18.0		4.0 0.1	ກ. ເ ກ. ເ	1.6
l otal months labor Dollar raturas	10.0	74.5	18.4	33.3		15.3	15.4	13.9
Crop roture	20.4 557	609 937	136 370	1 006 279		604 054	606 087	FOF F02
Crop returns	304,337	000,000	970,004	0,75,088,1		100,460	000,307	280,080
Custom work	7.116	0 563	1,024	36.777		233 10 00 0	0 7.7	32
Other farm receipts	4,110	9,99,99 499,99	14.560	28.546		10.516	11.541	9,194
Value of farm production	313.407	628,328	1.005,842	2.061.434		715,606	626,968	617.539
Dollar costs								
Crop expenses	105,864	207,363	325,244	674,045		235,195	227,414	184,004
Power and equipment	63,030	116,142	175,333	351,186		129,197	136,514	92,825
Building and fence	14,422	27,920	42,597	90,726		31,487	36,542	20,561
Labor	32,288	45,326	60,517	111,854		49,614	49,669	40,286
Insurance and miscellaneous	15,959	29,692	47,772	600'66		34,570	35,769	24,182
Livestock services and supplies	236	237	743	404		427	1,250	209
Interest on nonland capital	17,489	35,549	56,879	114,970		40,191	40,254	30,766
Real estate taxes	5,880	8,609	12,125	21,548		9,473	12,008	6,632
Cash rent	42,841	101,557	185,564	455,868		130,028	100,280	92,872
Office land charges	41,130	12,000	4 906 504	130,000		727 725	00,439	04,493
lotal nomeed costs	44-75	100,001	1,000,00	2,073,004		132,133	700,199	150,000
Capital account adjustment	4,323	2,039	3,928	0,112		4,212	4,700	101
Form production not \$4.00	714,12-	-14,033	4,109	-0,130		-12,037	-30,40/	01,400
raini pioduciioni pei \$1.00	C	70.0	6	000		00	90 0	7
Farm production per man	350 929	634 099	829 494	0.33 025 511		575 476	582 629	676 089
Financial summary	25,000	6	5,00	2,0,0			002,020	5
Cash operating income	305 822	601 726	979 161	2 019 076		696 130	629 440	564 697
Inventory change	17 874	46.534	57.265	107.811		42,062	26,297	69,627
Accts, receivable (net change)	-9.705	-17.281	-27,387	-49,072		-19,313	-22,200	-15,827
Less purchased feed	102	190	474	5.212		746	367	159
Less purchased livestock	342	479	292	999		497	144	799
Gross farm returns	313,547	630,310	1,007,796	2,071,939		717,636	633,026	617,539
Cash operating expenses	227,400	457,312	754,101	1,639,038		539,999	514,061	395,785
Prepaid expenses (- if increased)	6,017	13,509	4,030	17,606		8,448	15,900	6,813
Accts. payable (+ if increased)	684	527	640	7,646		1,384	1,773	160
Total operating expenses	234,102	471,347	758,772	1,664,289		549,830	531,734	402,757
Income before depreciation	79,445	158,962	249,025	407,649		167,806	101,292	214,782
Less depreciation	37,619	76,579	125,003	231,429		85,349	89,399	65,138
Capital account adjustment	4,325	2,599	3,928	8,112		4,272	4,765	757
Net farm income	46,151	84,982	127,949	184,332		86,729	16,658	150,400
Net farm income per operator	44,431	77,794	114,639	140,834		76,898	13,238	136,198
Labor & mgt. Income per operator	11,979	26,798	46,947			25,408	-52,556	98,335
Note: Variations in totals due to rounding to the nearest d	o to the nearest dol	lar. Farms with soi	I ratings from 56 to	85 are those with r	oporty drained, h	eavv-till and timb	er soils	

Table 20a. 2016 Operator Average Operating Costs, Land Use, Yields, and Prices Received by Size and by Management Returns for Northern and Central Illinois Grain Farms with Soil Ratings from 56 to 85

Range in size (total tillable acres)	180-799	800-1,199	1,200-1,999	> 1,999	Your farm	All farms	800-1,199	,199
Management returns Number of farms	348	162	160	80		750	Low 33% 53	High 33% 53
Selected returns and costs								
per operator tillable acre								
Crop returns	725.06	741.80	740.43	749.51		740.25	722.05	753.37
Livestock returns above feed	-0.05	-0.08	0.78	0.14		0.25	-0.09	0.04
Custom work, other receipts	21.12	23.83	21.58	24.32		22.74	23.86	27.72
Value of farm production	746.13	765.54	762.79	773.97		763.24	745.82	781.14
Soil fertility	103.58	106.93	100.85	104.80		103.77	115.84	94.73
Pesticides	52.78	51.46	52.44	53.35		52.60	56.29	46.64
Seed and other crop expense	79.66	94.26	93.36	94.92		94.48	98.39	91.38
Crop total	252.03	252.65	246.65	253.07		250.85	270.52	232.75
Light vehicle and utilities	13.23	10.18	6.83	99.9		8.74	11.09	9.51
Machinery repairs, supplies	31.56	30.08	26.00	24.18		27.38	34.74	23.58
Machinery hire, lease	22.23	17.88	15.91	20.76		19.07	22.75	11.62
Fuel and oil	14.14	15.47	15.17	16.50		15.41	16.45	14.18
Macrimery depreciation	08.09	06.70	08.00	03.73		07.70	05.77	20.02
Power and equipment total	150.06	141.51	132.97	131.85		137.80	162.39	117.42
Drying and storage	17.54	17.60	14.31	14.23		15.58	21.42	14.76
Building repair and rent	6.06	4.61	4.74	4.94		5.05 7.05	6.05	2.74
Duilding depleciation	10.74	11.01	13.23	14.09		22.50	10.00	26.0
Bullaing total	24.53	34.02	32.30	34.06		33.38	45.47	26.UT
Labor, unpaid	7 1.35	45.72	32.10	19.10		38.91	0.44 0.44 0.44	40.47
labor total	76.87	55.22	45.89	42.00		52 92	80.62	50.05
Insurance and miscellaneous	37 99	36.18	36.23	37 17		36.32	42.55	30.59
Livestock services and supplies	0.56	0.65	0.56	0.15		0.46	2.2	0.26
Interest on nonland capital	41.64	43.31	43.13	43.17		42,87	47.88	38.92
Other costs total	80.19	80.14	79.93	80.49		80.19	91.92	69.77
Land charge	213.92	223.01	224.85	237.85		226.17	238.85	207.44
Total nonfeed costs	807.40	786.54	762.59	779.33		781.51	866.24	704.34
Capital account adjustment	10.30	3.17	2.98	3.05		4.56	2.67	96.0
Management returns	-50.98	-17.83	3.18	-2.30		-13.71	-114.75	77.75
Percent crop returns fed	0.02	0.04	0.03	0.03		0.03	90.0	0.04
Capital purchases	29,411	51,735	99,001	207,353		68,059	20,667	46,171
Interest paid	11,735	23,441	40,212	83,463		27,990	30,283	18,815
Percent tillable land in								
Corn and corn silage	55.1	53.8	56.1	57.5		55.8	55.3	52.5
Soybeans	42.9	44.1	41.7	39.8		41.8	43.1	46.8
Wheat	0.7	0.3	0.7	0.7		9.0	0.7	0.0
Other small grains	0.0	0.0	0.0	0.0		0.0	0.0	0.0
CRP acres	9.0	0.5	4.0	0.0		9.0	0.9	0.3
All hay and pasture	0.2	0.1	0.1	0.1		0.1	0.0	0.2
Crop yleids, busnels per acre	Č	9		0			0	7
Corn	215	218	219	223		219	220	217
Soybeans	Z9 6	63	40 1	69		64	63	63
VVneat Drions rooming	<u>0</u>	88	8	06		48	06	D
Com (old gros)	2 63	2 69	3 8	2 7.4		2 60	2 6.4	2 60
Com (aca)	0.00	0.00	3.00	4 C C		3.00	0.00 10.00	0.03
Southeans (old crop)	0 c	0.45 0.45		9.27 9.55		0.00	0.00	0.45 7.50
Soubseans (pew crop)	9.50	9.00	0.0	9.55 9.65		0.00	9.22 9.46	5+.0 R

Table 21. 2016 Operator Average Returns, Costs, and Financial Summary by Size and by Management Returns for Southern Illinois Grain Farms with Soil Ratings from 36 to 85

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
Management returns							Low 33%	Hiah 33%
Number of farms	92	69	86	62		309	23	23
Total acres in farm	549	1,104	1,627	3,287		1,522	1,196	1,090
Acres of tillable land	484	987	1,583	3,183		1,444	957	1,026
Operator tillable acres	426	834	1,353	2,785		1,248	810	877
Soil rating on tillable land	29	29	28	28		29	69	28
Percent land owned	32	25	21	19		22	33	21
Percent land crop shared	怒 :	41	36	33		36	40	39
Percent land cash rented	31	88 F	4 41	48		42	26	33
Months of nired labor	ر الم		9. T. G	21.0		9.50 1.00	7.8	7.0.7
Total months labor	0.	16.2	1.62	59.95 9.95		6.22	20.0	1.01
Crop returns	260 333	53/100	867 580	1 878 308		813 778	484 790	500 512
Livestock returns above feed	-1 193	-2.139	1.553	13,225		2,740	-3.570	253,242
Custom work	2 405	4 421	16.021	30,024		12 186	1 928	4 485
Other farm receipts	6,467	5.423	23.317	52,951		20,250	6,548	6.192
Value of farm production	268,011	541,904	903,480	1,974,508		848,437	486,696	609,766
Dollar costs								
Crop expenses	692'56	187,988	314,521	617,763		281,981	197,091	178,772
Power and equipment	68,808	123,565	196,379	388,550		180,696	131,896	116,560
Building and fence	10,263	19,427	30,827	75,644		31,151	23,019	19,231
Labor	37,941	54,430	80,549	147,164		75,397	56,552	57,564
Insurance and miscellaneous	17,486	33,207	51,094	95,057		45,915	39,106	29,502
Livestock services and supplies	522	1,328	3,438	5,785		2,570	2,950	554
Interest on nonland capital	17,761	36,021	56,187	115,151		52,074	39,227	34,480
Real estate taxes	4,075	7,104	9,431	17,258		8,887	8,753	7,235
Cash rent	19,641	47,774	62,077	264,725		96,650	36,659	52,291
Other land charges	42,819	74,441	109,286	186,551		97,219	91,457	62,259
Total nonfeed costs	315,084	585,284	948,790	1,913,648		872,539	626,710	558,447
Capital account adjustment	2,098	3,442	3,191	4,883		3,261	1,974	1,476
Management returns	-44,976	-39,938	-42,118	65,742		-20,840	-138,040	52,794
Farm production per \$1.00							į	
of nonfeed costs	0.85	0.93	0.95	1.03		0.97	0.78	1.09
Farm production per man	273,121	468,965	555,423	723,364		485,763	387,320	510,117
Financial summary								
Cash operating income	264,338	516,608	908,541	1,951,963		838,580	506,230	524,710
Inventory change	8,802	33,950	27,063	113,294		40,466	-2,180	83,119
Accts. receivable (net change)	813	09/	10,553	24,583		8,279	1,/13	4,085
Less purchased feed	3,161	4,820	32,719	94,733		30,131	7,728	2,507
Less purchased livestock	2,916	4,256	9,021	14,988		7,337	11,588	109
Gross farm returns	267,877	542,232	904,417	1,980,119		849,857	486,447	609,298
Cash operating expenses	203,402	407,731	693,308	1,490,994		643,730	421,644	400,521
Prepaid expenses (- if increased)	2,457	2,735	16,052	-18,296		2,139	11,194	-2,168
Accts. payable (+ if increased)	1,390	-2,501	-6,379	5,129		-891	-1,608	-7,578
Total operating expenses	207,249	407,964	702,982	1,477,827		644,978	431,230	390,775
Income before depreciation	60,627	134,268	201,435	502,293		204,879	55,217	218,523
Less depreciation	42,209	83,340	131,492	254,443		118,827	89,630	75,547
Capital account adjustment	2,098	3,442	3,191	4,883		3,261	1,9/4	1,4/6
Net farm income	20,516	54,370	73,134	252,732		89,313	-32,439	144,452
Net rarm income per operator	20,130	50,370	08,704 44,004	103,741		08,235	55,518 07 OFO	135,254
Labor & mgt. Income per operator	-9,229	5,343	11,004	85,559		18,675	84,,78-	94,033
Note: Variations in totals due to rounding to the nearest d	j to the nearest doi	ollar.						

Table 21a. 2016 Operator Average Operating Costs, Land Use, Yields, and Prices Received by Size and by Management Returns for Southern Illinois Grain Farms with Soil Ratings from 36 to 85

Illinois Grain Farms with Soil Ratings from 36 to 85	n Soll Katıngs	170m 36 to 85			,			
Range in size (total tillable acres)	180-799	800-1,199	1,200-1,999	> 1,999	Your farm	All farms	800-1,199	
Management returns Number of farms	92	69	86	62		309	LOW 33% 23	підп 53% 23
Selected returns and costs								
per operator tillable acre								
Crop returns	611.08	640.64	637.67	674.45		651.87	594.87	683.49
Livestock returns above feed	-2.80	-2.57	1.15	4.75		1.80	-4.41	-0.52
Custom work, other receipts	20.82	11.81	29.08	29.79		25.98	10.47	12.17
Value of farm production	629.10	649.88	062.90	708.99		679.66	600.92	695.15
Soil fertility	84.19	86.36	93.54	85.74		88.02	95.90	74.74
Pesticides	55.92	51.18	58.03	54.36		55.15	58.51	40.04
Seed and other crop expense	84.69	87.90	80.95	81.73		82.71	88.95	89.03
Crop total	224.80	225.44	232.51	221.82		225.89	243.35	203.81
Light vehicle and utilities	14.74	9.68	9.04	8.61		9.52	11.07	6.87
Machinery repairs, supplies	37.53	31.72	31.83	30.03		31.58	38.91	27.68
Machinery hire, lease	14.23	11.62	13.43	16.50		14.61	13.29	12.66
Fuel and oil	17.57	19.06	18.49	18.95		18.69	18.75	19.04
Machinery depreciation	77.44	76.11	72.39	65.43		70.34	80.83	66.62
Power and equipment total	161.51	148.19	145.17	139.52		144.75	162.85	132.88
Drying and storage	5.81	6.36	4.50	4.44		4.89	4.67	5.75
Building repair and rent	2.66	5.26	6.03	5.30		5.55	8.05	4.42
Building depreciation	12.61	11.67	12.26	17.43		14.52	15.69	11.76
Building total	24.09	23.30	22.79	27.16		24.95	28.42	21.92
Labor, unpaid	72.49	48.07	31.49	22.39		34.06	20.90	46.53
Labor, paid	16.57	17.20	28.05	30.45		26.34	18.92	19.10
Labor total	89.06	65.27	59.55	52.84		60.40	69.82	65.62
Insurance and miscellaneous	41.04	39.82	37.77	34.13		36.78	48.28	33.63
Livestock services and supplies	1.23	1.59	2.54	2.08		2.06	3.64	0.63
Interest on nonland capital	41.69	43.20	41.54	41.35		41.72	48.43	39.31
Other costs total	83.96	84.61	81.85	77.56		80.55	100.36	73.57
Land charge	156.18	155.09	159.53	168.24		162.42	168.99	138.84
Total nonfeed costs	739.60	701.90	701.39	687.13		698.97	773.80	636.64
Capital account adjustment	4.92	4.13	2.36	1.75		2.61	2.44	1.68
Management returns	-105.57	-47.90	-31.14	23.61		-16.69	-170.44	60.19
Percent crop returns fed	2.50	1.28	2.70	0.64		1.91	2.35	0.49
Capital purchases	39,580	63,491	92,048	199,191		91,548	28,005	69,290
Interest paid	11,989	22,859	39,574	93,437		38,436	30,947	17,509
Percent tillable land in				:				
Corn and corn silage	41.7	42.2	44.1	43.8		43.1	40.5	43.3
Soybeans	49.5	49.3	8.84	48.5		48.5	51.5	48.0
Wheat	0.0 0.0	5.7	5.0	6.7		6.3	9.0	9.0
Other small grains	0.0	0.0	0.0	0.0		0.0	0.0	0.0
CKP acres	E.O.	0.2	9.0	0.1		0.3	0.2	0.1
All hay and pasture	1.7	0.7	8.0	0.0		0.7	1.0	0.0
Crop yleids, busnels per acre	200		7			707	7 11 7	7
Colli	85	0 0 1	76	701			40.	170
Soybeans	3 2	32	၁၀	ဂ ဂ		22	1 Ω	20
Wheat	73	,,	87	Ø3		<u>.</u>	Ω/	8/
Com (old crop)	3 68	3 7.4	3 87	3 08		3 88	2 80	3 74
	9.00	5.00	5.04	0.00		3.60	0.00	2.0
Soubsans (old crop)	 24.0	2.52 7.47	9.30			9.00	 	2.0 44.0
Sovbeans (new crop)	9.71	9:58	69.6	92.6		9.72	9.40	9.61
Note: Variations in totals due to rounding to the nearest	to the nearest do	dollar.						
	:							

Table 22. 2016 Operator Average Returns, Costs, and Financial Summary by Size and by Cwt of Pork Produced for Illinois Hog Farms

s         22         21         43         <0	Transcriptor   Tran	Range in size (total tillable acres)	662-09	66Z <	Your farm	All farms	Cwt of pork produced
The color of the	The control of the	Cwt of pork produced			5		6.000 cwt
1,534   1,534   1,536   1,50	1,534   1,534   1,534   1,534   1,506     ble land	Number of farms	22	21		43	5
bib le land         420         1506           able land         420         1506           able land         83         13           able acrees         372         1,889           1 cop sheed         24         17           1 cop sheed         42         72           1 cop sheed         42         72           1 cop sheed         42         72           1 cop sheed         45,60         368,517           1 cop sheed         1,55,640         368,517           1 cop sheed         1,55,640         368,517           1 cop sheed         1,569,640         368,517           1 cop sheed         1,57,72         1,569,264           1 cop sheed         1,57,72         1,569,264         1,569,264           1 cop sheed line cop sheed         1,57,72         1,569,264         1,569,264           1 cop sheed cop sheed         1,57,24         1,660,076         1,67,22           2 con and adjustment         1,53         1,760,076         1,77	bib le land         420         1506           able land         420         1506           able land         83         1,389           able acrees         37         1,389           1 crop shred         24         17           1 crop shred         42         72           1 crop shred         42         72           1 crop shred         42         72           1 crop shred         45         32.0           1 crop shred         45.0         38.6           1 crop shred         45.9         17.66.9           1 crown above feed         155.64         332.0           1 crown above feed         14,72         16.8           1 crown above feed         14,72         16.8           2 and miscellaneous         21.08         17.6           2 and miscellaneous         21.08         17.6           3 and miscellaneous         21.08         17.6           4 services and	Total acres in farm	439	1,534		974	
bible acree         372         1,389           n tillable land         32         1,389           n tillable land         32         1,389           n tillable land         32         1,172           t cash rented         42         72           t cash rented         42         72           t cash rented         42         72           s abor         23.5         45.0           s abor         15.640         386.517           recepts         15.640         386.517           ovir         43.1772         1,125,276           returns above feed         15.640         386.517           ovir         43.1772         1,586.264           rentures         43.1772         1,586.264           family         43.1772         1,589.264           family         43.1772         1,589.264           family         43.1772         1,589.264           family         43.1772         1,589.264           family         44.491         1,485.7           family         44.491         1,485.7           family         44.460         1,486.7           family         1,486.7         1,486.7	bble acree         372         1,389           n tillable land         32         1,389           n tillable land         32         1,125,276           t cash remed         24         7.2           t cash remed         23.5         45.0           s labor         23.5         45.0           s labor         23.5         45.0           s labor         263.617         1,125,276           red labor         155,640         388.517           vork         388.517         57.609           vork         431,772         1,125,276           renses         84.692         332,205           d equipment         45,973         216,455           and lence         77,246         188,133           and miscellaneous         21,068         7,629           s services and supplies         44,491         104,927           d charges         5,677         44,491         104,927           and miscellaneous         53,816         30,2348         60           s services and supplies         44,491         104,927         7           d charges         53,661         30,2348         60         7           stervic	Acres of tillable land	420	1,506		950	
Teacher   Section   Sect	Table land   St.	Operator tillable acres	372	1,389		898	
tacp shared 24 17 72 14 17 72 15 18 19 19 19 19 19 19 19 19 19 19 19 19 19	1	Soil rating on tillable land	82	83		82	
Carop shared	Carop shared	Percent land owned	34	1		17	
12.7   3.20	12.7   3.20	Percent land crop shared	24	17		18	
red labor 12.7 32.0 s labort 5.3.5 45.0 mns s labort 6.3.5 45.0 mns s labort 15.6,40 s length 6.3.5 17.863 mn receipts 6.37.772 17.863 mn receipts 6.37.772 17.863 mn receipts 6.3.772 17.863 mn receipts 7.7.629 mn receipts 7.7.629 mn receipts 7.7.629 mn returns 7.00 mn receipts 7.3.419 mn returns 7.00 mn receipts 6.3.3.126 mn returns 7.3.419 mn returns 7.3.419 mn returns 7.3.419 mn returns 7.3.419 min expenses 1.3.4172 17.869.265 min g expenses 2.3.4172 17.869.265 min g expenses 3.3.426 17.3.441.1064 min g expenses 1.3.441 min g expenses 2.3.441 min g expenses 3.3.451 min g expenses 1.3.441 min	red labor 12.7 32.0  s labor 23.5 45.0  mins	Percent land cash rented	42	72		9	
Stabor   23.5   45.0	s labor 23.5 45.0 mins like in the taxes and supplies and fence and supplies and fence and supplies and fence and supplies	Months of hired labor	12.7	32.0		22.1	
trems above feed 155,640 368,577 6,938 17,863 mr receipts 5,577 5,609 4,437 17,863 mr receipts 5,577 17,246 17,863 mr receipts 5,577 17,246 168,133 2,106 17,629,264 168,133 2,106 17,629 264 168,133 2,106 17,629 264 168,133 2,106 17,629 27,106 17,629 27,106 17,629 27,106 17,629 27,106 17,629 27,106 17,629 27,106 17,629 27,106 17,629 27,106 17,629 27,106 17,629 27,106 17,629 27,106 17,629 27,106 17,629 27,106 17,629 27,106 17,629 27,106 17,629 27,106 17,629 27,106 17,629 27,109 17,629 27,109 17,629 27,109 17,629 27,109 17,629 27,109 17,629 27,109 17,629 27,109 17,629 27,109 17,629 27,109 17,629 27,109 17,629 27,109 17,629 27,109 17,629 27,109 17,629 27,109 17,629 27,109 17,629 269 27,109 17,629	returns above feed 155,640 368,577 6938 17,863 work mereipts 6,938 17,863 merecepts 6,938 17,863 merecepts 6,938 17,863 merecepts 77,246 168,133 216,895 mere dequipment 45,973 216,455 21,068 17,629 21,068 17,629 21,068 17,629 21,068 17,629 21,068 17,629 21,068 17,629 21,068 17,629 21,068 17,629 21,068 17,629 21,068 17,629 21,068 17,629 21,068 21,080 21,099	Total months labor	23.5	45.0		34.0	
ricetures above feed 155,640 386,517 486,517 638,617 486,517 638,617 486,517 62,624 638 48,692 48,692 48,692 48,692 48,692 48,692 48,692 48,692 48,692 48,692 48,692 48,692 48,693 48,692 48,693 48,69	returns above feed 155,640 368,577 (125,276 vork work tectures above feed 155,640 368,517 (125,276 vork work tectures 2,577 (126,9264 vork tectures 2,577 (126,9264 vork tectures 2,577 (126,927 vork tectures 2,1,68 (126,927 vork tectures 2,1,08 (126,926 vork tectures 2,1,09 (1	Dollar returns					
returns above feed 155,640 368,517  vork  merceipts  farm production 431,772 17,669,264  enses  enses  enses  enses  enses  enses  enses  and fence  77,246 168,133  and fence  77,246 168,133  and fence  77,246 168,133  and miscellaneous 21,068 77,629  and miscellaneous 21,068 77,629  and miscellaneous 21,088 14,491  nonland capital 14,337 15,752  tet taxes 36,661 302,348  d charges 53,812 68,855  freed costs  count adjustment 1,374 14,62  count adjustment 233,126 591,099  mmany  mmany  mmany  arating income 15,100 0.86  costs  costs  costs  costs  freed cost	returns above feed 155 640 368,517  merceipts	Crop returns	263,617	1,125,276		684,427	
vork meepigs         6,938         17,863           m receipts         5,577         57,09           farm production         431,772         1,569,264           enses         84,692         332,205           and quipment         45,037         312,875           and fence         77,246         188,133           and miscellaneous         21,068         77,629           77,246         168,133         216,875           and miscellaneous         21,068         77,629           restrices and supplies         44,491         104,927           ret taxes         14,537         15,752           tet taxes         53,661         302,348           d charges         53,661         302,348           following count adjustment         70,853         1,706,076           recount adjustment         1,974         4,462           nent returns         70,853         1,374         4,462           rich oper man         233,126         591,099           memary         808,025         2,823,253         1           rich ange feed         14,763         148,462         1           rich ange feed         125,610         540,09         1	work multiple         6,938         17,863           m recipits         6,937         17,69,264           farm production         431,772         1,569,264           farm production         431,772         1,569,264           enses         84,692         332,205           de dequipment         95,037         312,875           and miscellaneous         21,068         77,629           77,246         168,133         77,629           reservices and supplies         44,491         104,927           nonloand capital         14,537         16,752           te taxes         53,812         16,886           te taxes         53,812         68,855           nent returns         504,399         1,706,076           count adjustment         -70,853         -132,350           ristin per %1.00         0.86         591,099           nent returns         808,025         2,823,253           change         15,361         73,419           change         125,610         540,219           change         125,610         540,219           rate of processed         2,140         540,219           rate of processed         377,251	Livestock returns above feed	155,640	368,517		259,603	
m receipts         5,577         57,609           farm production         431,772         1,569,264           enses         84,692         332,205           de quipment         45,973         216,455           and fence         77,629         106,896           77,624         168,133         106,896           77,629         77,629         16,927           77,629         77,629         16,896           77,629         106,896         77,629           78,974         106,896         77           14,537         15,752         1           14,637         14,637         15,752           15,812         17,06,076         1           1,000 per \$1.00         0.86         0.92           1,000 per \$1.00         0.86         0.92           1,000 per \$1.00         0.86         591,099           1,000 per \$1.00         0.86         591,099           1,000 per \$1.00         0.86         591,099           1,300 per \$1.00         0.86         591,099           1,300 per \$1.00         0.86         591,099           1,300 per \$1.00         0.86         591,241         784,113           2,21,241 </td <td>m receipts         5,577         57,609           farm production         431,772         1,569,64           enses         84,692         332,205           dequipment         45,073         312,875           and fence         77,629         32,205           and fence         77,629         31,2875           and fence         77,629         104,927           revices and supplies         44,491         104,927           and miscellaneous         21,068         77,629           te taxes         44,491         104,927           in nonland capital         14,537         15,762           te taxes         53,812         68,855           feed costs         50,331         68,855           freed costs         50,234         44,62           d charges         50,138         1,76,762           ston per \$3,100         0,86         1,76,772           d charges         50,109         1,76,774           ston per man         233,126         591,099           meant returns         233,126         591,099           manay         300,000         321,235           relange feed         251,241         789,076      <t< td=""><td>Custom work</td><td>6,938</td><td>17,863</td><td></td><td>12,274</td><td></td></t<></td>	m receipts         5,577         57,609           farm production         431,772         1,569,64           enses         84,692         332,205           dequipment         45,073         312,875           and fence         77,629         32,205           and fence         77,629         31,2875           and fence         77,629         104,927           revices and supplies         44,491         104,927           and miscellaneous         21,068         77,629           te taxes         44,491         104,927           in nonland capital         14,537         15,762           te taxes         53,812         68,855           feed costs         50,331         68,855           freed costs         50,234         44,62           d charges         50,138         1,76,762           ston per \$3,100         0,86         1,76,772           d charges         50,109         1,76,774           ston per man         233,126         591,099           meant returns         233,126         591,099           manay         300,000         321,235           relange feed         251,241         789,076 <t< td=""><td>Custom work</td><td>6,938</td><td>17,863</td><td></td><td>12,274</td><td></td></t<>	Custom work	6,938	17,863		12,274	
farm production         431,772         1,569,264           enses         84,692         332,205           dequipment         45,973         312,875           and fence         77,246         16,455           77,246         168,133           a and miscellaneous         21,068         77,629           77,246         104,927           no nonland capital         14,537         16,762           no nonland capital         14,537         16,782           no nonland capital         14,537         16,782           no nonland capital         14,537         16,885           no nonland capital         14,537         16,885           no nonland capital         14,537         16,885           no count adjustment         1,974         4,462           count adjustment         1,974         4,462           count adjustment         1,374         4,462           count adjustment         15,361         73,419           count adjustment         15,361         73,419           change         14,763         14,18,542           syable (ret change)         14,763         14,18,542           syable (ret if increased)         8,559         21,684	farm production         431,772         1,569,264           enses         84,692         332,205           de quipment         95,037         312,875           and fence         45,973         312,875           and fence         47,629         77,246           and miscellaneous         21,068         77,629           and miscellaneous         14,637         16,752           to nonland capital         14,537         15,752           tet taxes         53,812         68,856           tet taxes         53,812         68,856           tet ded costs         53,812         68,856           ccount adjustment         1,974         4,462           ccount adjustment         1,974         4,462           count adjustment         1,974         4,462           count adjustment         1,974         4,462           ment returns         233,126         591,099           many         15,361         540,09           many         15,361         540,09           many         15,361         540,09           colosts         1,46,78         1,446,18           redange         1,569,265         1,446,18	Other farm receipts	5,577	22,609		30,988	
enses         84,692         332,205           and fence         45,973         312,875           and fence         45,973         216,455           and fence         45,973         216,455           77,246         168,133         21,629           77,629         77,629         77,629           7,7629         77,629         77,629           44,491         104,927         1           the taxes         36,661         302,348         1           the taxes         53,812         68,855         1           d charges         53,812         68,855         1           freed costs         504,599         1,706,076         7           cocount adjustment         7,974         4,462         7           count adjustment         1,974         4,462         7           counts         233,126         591,099         7           ment returns         808,025         2,823,253         1           counts         15,361         73,419         73,419           change         15,69,266         14,46,184         1           change         1,446,184         1,446,184           chased livestock	enses         84,692         332,205           dequipment         95,037         312,875           and fence         45,973         216,455           and fence         45,973         216,455           and fence         45,973         216,455           and fence         77,246         168,133           and miscellaneous         21,068         77,629           and miscellaneous         10,68         104,927           no noland capital         14,537         106,896           tet taxes         14,537         106,896           to charges         53,812         68,855           freed costs         504,599         1,706,076           count adjustment         1,974         4,462           nent returns         1,974         4,462           count adjustment         15,361         73,419           count adjustment         15,361         73,419           manary         808,025         2,823,253           sivable (net change)         14,763         1418,542           passed feed         251,241         769,076           change axpenses         3,559         21,694           syable (+ if increased)         2,110	Value of farm production	431,772	1,569,264		987,292	
tent 84,692 332,205 ent 95,037 312,875 cellaneous 21,068 77,624 cellaneous 21,068 77,629 cellaneous 21,068 77,629 cellaneous 21,068 77,629 cellaneous 21,068 77,629 cand supplies 44,491 104,927 d capital 14,537 15,752 est 53,812 68,855 sts 504,599 1,706,076 sts 504,599 1,706,076 come 808,025 2,823,253 man 233,126 591,099 come 808,025 2,823,253 man 233,126 591,099 come 808,025 2,823,253 co	eent 95,037 332,205 332,205 34,973 212,875 216,455 77,246 168,133 77,246 106,896 77,629 31,082 106,896 15,752 21,068 71,7629 15,752 21,088 23,126 21,099 20me 233,126 251,099 21,099 21,091 251,241 759,025 21,084 21,072 125,610 251,241 759,025 21,084 21,072 125,610 251,241 759,026 21,084 21	Dollar costs					
bent 95,037 312,875 77,246 455 77,246 168,133 77,246 168,133 77,246 168,133 77,246 168,133 77,246 168,133 77,246 168,133 77,246 144,921 104,927 16,762 71,082 144,921 104,927 16,762 71,082 71,082 71,082 71,082 71,083 71,264 71,093 71,264 71,246,184 71,093 71,251 71,446,184 71,064 71,1974 71,064 71,064 71,1974 71,064 71,064 71,064 71,064 71,064 71,149 72,750	bent 95,037 312,875 77,246 45,973 216,455 77,246 168,133 77,246 168,133 77,246 168,133 77,246 168,133 77,246 168,133 77,629 77,629 77,629 77,629 77,629 77,629 77,629 77,629 77,629 77,629 77,629 77,629 77,629 77,246 78,132,350 78,661 30,2,348 58,661 30,2,348 58,661 30,2,348 58,661 30,2,348 58,661 30,2,348 58,661 30,2,348 77,349 77,241 763 78,492 78,69,076 88,025 2,823,253 78,692 78,693 77,251 12,693 77,251 12,693 77,251 13,080 72,100	Crop expenses	84,692	332,205		205,570	
## 45,973	## 45,973	Power and equipment	95,037	312,875		201,423	
recllaneous 77,246 168,133	recllaneous 77,246 168,133	Building and fence	45,973	216,455		129,232	
cellaneous 21,068 77,629 and supplies 44,491 104,927 d capital 14,537 106,896 14,537 106,896 31,082 302,348 53,812 68,855 54,599 1,706,076 51.00 0.86 0.92 man 233,126 591,099 man 233,126 591,099 come 808,025 2,823,253 man 233,126 591,099 come 808,025 2,823,253 man 233,126 591,099 man 233,126 13,419 met change) -14,763 -18,113 ed 251,241 769,076 ms	cellaneous 21,068 77,629 and supplies 44,491 104,927 d capital 14,537 106,896 14,537 105,752 sts 53,812 68,855 sts 504,599 1,706,076 sts 53,812 68,855 sts 504,599 1,706,076 strong 0.86 0.92 man 233,126 591,099 man 233,126 18,113 ed 251,241 769,076 estock 125,610 540,219 ms 8,559 21,684 fi increased) 8,559 21,684 fi increased) 8,559 1,418,542 fi increased) 8,559 1,446,184 ms 377,251 1,446,184 diustment 1,974 4,462 per operator 1,149 per operator 25,740 -27,509 mal display 1,419 ms 1,414	Labor	77,246	168,133		121,633	
and supplies 44,491 104,927 106,896 131,082 106,896 1302,348 25,661 302,348 25,599 1,706,076 14,537 15,752 20,249 1,706,076 23,412 23,462 2,823,253 24,462 2,413 2,410 25,124 1,410,64 25,124 1,410,64 25,124 1,410,64 25,124 1,410,64 25,124 1,446,184 25,125 1,141,064 25,124 1,446,184 25,124 1,446,184 25,136 1,446,184 2,140 27,509 25,140 27,509 25,140 27,509 25,140 27,509 25,140 27,509 25,140 27,509 25,140 27,509	and supplies 44,491 104,927 106,896 14,537 15,752 106,896 130,02,348 25,661 302,348 25,661 302,348 25,661 302,348 25,661 302,348 25,661 302,348 25,661 302,348 25,661 302,348 25,661 302,348 25,661 30,999 25,100 25	Insurance and miscellaneous	21,068	77,629		48,691	
d capital 31,082 106,896 14,537 15,752 36,661 302,348 855 36,589 1706,076 173,350 193,402 1706,076 173,350 193,402 173,350 193,402 193	d capital 31,082 106,896 14,537 15,752 36,661 302,348 855 36,661 302,348 71,006,076 11,974 4462 71,974 4462 71,974 4462 71,974 4462 71,974 71,979 71,099 71,	Livestock services and supplies	44,491	104,927		74,006	
s 53,812 68,855 61 302,348 68,855 66,61 302,348 68,855 61 302,348 68,855 61 302,348 61 302,348 61 302,348 61 302,348 61 302,348 61 302,348 61 302,348 61 302,348 61 302,348 61 303,126 591,099 61 303,126 591,099 61 303,126 591,099 61 303,126 591,099 61 303,126 591,099 61 303,126 591,099 61 303,126 591,099 61 303,126 591,099 61 303,126 61 303	s 53,812 68,855 61 302,348 68,855 66.1 302,348 68,855 61 302,348 68,855 61 302,348 68,855 61 302,348 68,855 61 302,348 69,853 61,000 0.86 0.92 61,009 61,000	Interest on nonland capital	31.082	106.896		68,108	
s         36,661         302,348           sts         53,812         68,855         1706,076         1           instrain         1,974         4,462         1           \$1.00         0.86         0.92         1           \$1.00         0.86         591,099         1           \$1.00         0.86         591,099         1           \$233,126         591,099         1         1           come         808,025         2,823,253         1           rest change)         -14,763         -18,113         1           rest change)         -14,763         -18,113         1           rest change)         -14,772         1,569,265         1           sses         366,583         1,418,542         2           rest changes         8,559         2,1,684         2           xpenses         8,559         2,1,684         4,466,184           stinstment         1,974         4,466,184         4,466,184           depenses         377,251         1,446,184         4,462           stinstment         1,974         4,462         1,446,184           per operator         1,149         -27,509	s         36,661         302,348         1           sts         53,812         68,855         1           sts         504,599         1,706,076         1           Instraction         -70,853         -132,350         1           \$1.00         0.86         0.92         1           \$1.00         0.86         0.92         1           \$1.00         0.86         591,099         1           come         808,025         2,823,253         1           sed         15,361         73,419         1           net change)         -14,763         -18,113         1           restock         125,610         540,219         1           restock         125,610         540,219         1           restock         125,610         540,219         1           restock         125,610         5,958         21,684           sts         337,251         1,446,184         2           sistion         46,080         141,064         446,080           silustment         1,149         -24,750           per operator         -35,740         -27,509           restock         -27,509  <	Real estate taxes	14,537	15,752		15,130	
sts         53,812         68,855         1706,076         1           sts         504,599         1,706,076         1         1           Inches         70,853         1,706,076         1         1           \$1.00         0.86         0.92         1         1           \$1.00         0.86         0.92         1         1           \$1.00         0.86         0.92         1         1           come         808,025         2,823,253         1         1           come         808,025         2,823,253         1         1           come         15,361         73,419         1         1         1           net change)         -14,763         -18,113         1	sts         53,812         68,855         1706,076         1           sts         504,599         1,706,076         1         2         1         2	Cash rent	36,661	302,348		166,415	
sts         504,599         1,706,076         1           Inns         -70,853         -132,350         -132,350           \$1.00         0.86         0.92           \$1.00         0.86         0.92           \$1.00         0.86         0.92           \$1.00         0.86         0.92           \$1.00         0.86         0.92           \$1.00         0.86         0.92           \$1.56         0.92         13,419           \$1.56         0.74         14,13           \$1.00         0.86         28,25           \$1.00         0.86         28,26           \$1.00         0.86         28,26           \$1.00         0.86         28,26           \$1.00         0.86         28,26           \$1.00         0.86         28,26           \$1.00         0.86         28,26           \$1.00         0.86         28,26           \$1.00         0.86         28,28           \$2.10         2.10         2.10           \$2.10         2.10         3.10           \$2.10         4.46         4.46           \$2.10         4.46         4.46 <td>sts         504,599         1,706,076         1           inrs         -70,853         -132,350         1           \$1.00         0.86         0.92         1           \$1.00         0.86         0.92         1           \$1.00         0.86         0.92         1           \$1.00         0.86         0.92         1           some         808,025         2,823,253         1           some         808,025         2,823,253         1           sed         -14,763         -18,113         1           nest change)         -14,763         -18,113         1           red         251,241         769,076         1           restock         431,772         1,569,265         1           restock         431,772         1,446,184         1           restock         431,772         1,446,184         1           sea         36,583         1,446,184         1           rimses         366,583         1,446,184         1           station         5,558         1         1,446,184           station         54,521         1,446,184         1           rimstances         &lt;</td> <td>Other land charges</td> <td>53,812</td> <td>68,855</td> <td></td> <td>61,159</td> <td></td>	sts         504,599         1,706,076         1           inrs         -70,853         -132,350         1           \$1.00         0.86         0.92         1           \$1.00         0.86         0.92         1           \$1.00         0.86         0.92         1           \$1.00         0.86         0.92         1           some         808,025         2,823,253         1           some         808,025         2,823,253         1           sed         -14,763         -18,113         1           nest change)         -14,763         -18,113         1           red         251,241         769,076         1           restock         431,772         1,569,265         1           restock         431,772         1,446,184         1           restock         431,772         1,446,184         1           sea         36,583         1,446,184         1           rimses         366,583         1,446,184         1           station         5,558         1         1,446,184           station         54,521         1,446,184         1           rimstances         <	Other land charges	53,812	68,855		61,159	
ljustment         1,974         4,462           irns         -70,853         -132,350           \$1.00         0.86         0.92           \$1.00         0.86         0.92           man         233,126         591,099           some         808,025         2,823,253         1           some         15,361         73,419         1           inet change)         -14,763         -18,113         1           inet change)         251,241         769,076         1           restock         431,772         1,569,265         1           sed         251,241         769,076         1           restock         431,772         1,569,265         1           ses         366,583         1,418,542         1           ses         366,583         1,446,184         4           stincreased)         377,251         1,446,184         4           stintion         54,521         123,080         1           deliustment         1,974         4,462         4           per operator         1,149         -27,509         -27,509	ljustment         1,974         4,462           irns         -70,853         -132,350           \$1.00         0.86         0.92           \$1.00         0.86         0.92           man         233,126         591,099           some         808,025         2,823,253         1           some         808,025         2,823,253         1           sed         -14,763         -18,113         -18,113           sed         251,241         769,076         -18,13           ns         251,241         769,076         -18,14           ns         431,772         1,569,265         -1,584           nses         366,583         1,418,542         -1,684           fi increased)         8,559         21,684         -1,446,184           sxpenses         366,583         1,446,184         -1,350           station         5,4521         1,23,080         -1,446,184           station         54,521         1,23,080         -1,35,140           per operator         -35,740         -27,509         -27,509           per operator         -35,740         -27,509         -27,509	Total nonfeed costs	504,599	1,706,076		1,091,367	
### -70,853 -132,350    \$1.00    0.86    0.92    0.87,126    0.99    0.80    0.92    0.80    0.92    0.92    0.92    0.93    0.94    0.95    0.95    0.96    0.97,419    14,763    14,136    14,136    14,136    14,136    14,136    14,136    14,146	### -70,853 -132,350    \$1.00    0.86    0.92    0.93    0.94    0.94    0.97    0.98	Capital account adjustment	1,974	4,462		3,189	
\$1.00  0.86  0.92  man  233,126  591,099  come  808,025  15,361  73,419  16,361  14,763  18,13  ed  restock  125,610  125,610  125,610  125,610  1418,542  1,418,542  1,418,542  1,418,542  1,418,542  1,446,184  1,974  1,974  1,974  1,149  per operator  1,149  1,149  1,23,080  1,146  1,144  1,974  1,149  1,149  1,247  1,149  1,247  1,149  1,247  1,149  1,247  1,149  1,247  1,149  1,247  1,149  1,27,509	\$1.00  0.86  0.92  man  233,126  591,099  come  808,025  2,823,253  15,361  73,419  riet change)  -14,763  -14,763  -18,113  ried  cestock  125,610  125,610  141,185,42  1,569,265  1,569,265  1,569,265  1,569,265  1,569,265  1,569,265  1,569,265  1,569,265  1,4146,184  2,110  5,958  2,110  5,958  2,110  5,958  2,110  5,958  2,110  5,958  2,110  5,958  2,110  1,446,184  -13,521  1,446,184  -13,521  per operator  1,149  -27,509  rials due to rounding to the nearest dollar.	Management returns	-70,853	-132,350		-100,887	
man         233,126         591,099           come         808,025         2,823,253         1           come         808,025         2,823,253         1           inet change)         -14,763         -18,113         1           ined         251,241         769,076         1           restock         125,610         540,219         1           ns         331,772         1,569,265         1           restock         431,772         1,684         1           restock         431,772         1,48,542         1           restock         8,559         21,684         2           restock         377,251         1,446,184         4           restock         377,251         1,446,184         4           restock         37,251         1,446,184         4           restock         37,251         1,446,184         4         4           restock         37,251         1,446,184         4         4         4           restock         37,251         1,446,22         1         1         1           restock         37,261         1,446,22         1         1         2         1	man         0.96         0.92           near         233,126         591,099           come         808,025         2,823,253         1           ret change)         -14,763         -18,113         1           red         251,241         769,076         1           restock         125,610         540,219         1           restock         431,772         1,569,265         2           restock         431,772         1,569,265         2           restock         431,772         1,418,542         2           restock         8,559         2,1,684         2           restock         377,251         1,446,184         2           stenses         8,559         2,1,684         2,1,684           restoresed)         8,559         2,1,684         2,1,684           restoreses         3,7,251         1,446,184         3,58           restoreses         3,551         1,446,184         3,52           restoreses         3,574         1,3,521         3,521           restoreses         1,149         -27,509           restoreser         1,149         -27,509	Farm production per \$1.00					
man         233,126         591,099           come         808,025         2,823,253         1           net change)         -14,763         -18,113         1           read         251,241         769,076         2           restock         125,610         540,219         2           ns         431,772         1,569,265         2           nses         366,583         1,418,542         2           (- if increased)         8,559         2,110         5,958           xpenses         377,251         1,446,184         4           cition         46,080         1446,184         4           dijustment         1,974         4,462         1           operator         1,149         -27,509         -27,509	man 233,126 591,099  come 808,025 2,823,253  15,361 73,419  inet change) -14,763 -18,113  edd 251,241 769,076  restock 125,610 540,219  increased) 8,559 21,684  if increased) 8,559 21,684  if increased) 2,110 5,958  if increased) 2,110 5,958  if increased) 2,110 5,958  it increased) 44,664  iljustment 1,974 446,184  operator 1,149  per operator -35,740 -27,509  isals due to rounding to the nearest dollar.	of nonfeed costs	0.86	0.92		06:0	
ted change) -14,763 -18,113 -18,113 -14,763 -18,113 -18,113 -18,113 -18,113 -18,113 -18,113 -18,113 -18,114 -18,113 -18,114 -13,521 -18,114 -13,521 -14,064 -14,064 -14,064 -14,064 -14,146 -14,064 -14,146 -14,064 -14,146 -14,064 -14,146 -1	come         808,025         2,823,253         1           inet change)         -14,763         -18,113         -18,113           inet change)         -14,763         -18,113         -18,113           inet change)         -14,763         -18,113         -18,113           inet change)         25,124         769,076         -18,113           inet change         431,772         1,569,265         -18,119           inet change         431,772         1,569,265         -17,684           inet change         8,559         21,168         -1,684           if increased)         2,110         5,958         -1,684           if increased)         2,110         5,958         -1,446,184           siation         44,60         141,064         -13,080           ijustment         1,974         -13,521         -24,462           per operator         -35,740         -27,509         -27,509		233,126	591,099		407.950	
ted thange) 15,361 73,419 73,419 141,763 -18,113 141,763 -18,113 141,764 155,210 251,241 769,076 125,610 251,241 769,076 125,610 251,241 769,076 141,064 1446,184 247 1974 11,4974 1446,184 11,974 1446,184 11,974 1446,184 11,974 1446,184 11,974 14,089 141,064 14,089 14,1462 14,1497 12,1497 12,14	ted the companies of th						
net change) 15,361 73,419 red 14,763 -18,113 red 251,241 769,076 769,0	net change) 15,361 73,419 net change) -14,763 -18,113 ed feed 251,241 769,076	Cash operating income	808,025	2,823,253		1,792,206	
net change) -14,763 -18,113 -18,113 -18,0076  sed 251,241 769,076  sestock 125,610 540,219  ns 431,772 1,569,265  ses 366,583 1,418,542  (- if increased) 2,110 5,958  xpenses 377,251 1,446,184  sistion 54,521 123,080  46,080 141,064  ijustment 1,974 4462  ijustment 1,974 -13,521  operator -27,509	ret change) -14,763 -18,113 -18,113 -18,0076 -18,0076 -18,0076 -18,0076 -18,0076 -18,0076 -18,0076 -18,0076 -18,0076 -19	Inventory change	15,361	73,419		43,715	
red 251,241 769,076 769,076 785 785 785 785 785 785 785 785 785 785	red 251,241 769,076	Accts. receivable (net change)	-14,763	-18,113		-16,399	
ns         125,610         540,219           ns         431,772         1,569,265           nses         366,583         1,418,542           nses         366,583         1,418,542           (- if increased)         8,559         21,684           xpenses         377,251         1,446,184           siation         46,080         141,064           justment         1,974         4,462           operator         1,149         -27,509	restock         125,610         540,219           ns         431,772         1,569,265           nses         366,583         1,418,542           rest increased)         8,559         21,684           kincreased)         2,110         5,958           sxpenses         377,251         1,446,184           station         54,521         123,080           dijustment         1,974         4,462           operator         1,149         -247           per operator         -35,740         -27,509           rals due to rounding to the nearest dollar.         -27,509	Less purchased feed	251,241	769,076		504,137	
ns         431,772         1,569,265           nses         366,583         1,418,542           (- if increased)         8,559         21,684           xpenses         377,251         1,446,184           siation         5,958         24,521           siation         46,080         141,064           siustment         1,974         4,462           operator         1,149         -27,509	ns         431,772         1,569,265           nses         366,583         1,418,542           nses         36,583         1,418,542           (- if increased)         8,559         21,684           xpenses         377,251         1,446,184           ciation         5,958         1,446,184           ciation         54,521         123,080           dijustment         1,974         4,462           operator         1,149         -247           per operator         -35,740         -27,509           icals due to rounding to the nearest dollar.         -27,509	Less purchased livestock	125,610	540,219		328,093	
nses         366,583         1,418,542           (- if increased)         8,559         21,684           xpenses         377,251         1,446,184           siation         5,958         377,281           siation         54,521         123,080           dijustment         1,974         4,462           operator         11,494         -13,521           per operator         -35,740         -27,509	rises         366,583         1,418,542           (- if increased)         8,559         21,684           xpenses         377,251         1,446,184           sidition         5,958         1,446,184           sidition         46,080         141,064           ljustment         1,974         4,462           operator         1,149         -247           per operator         -35,740         -27,509           icals due to rounding to the nearest dollar.	Gross farm returns	431,772	1,569,265		987,292	
(- if increased) 8,559 21,684	(- if increased) 8,559 21,684 5,958 21,684 5,958 21,00 5,958 21,00 5,958 21,00 2,110 2,000 2,110 4,000 141,000 1,974 2,000 141,000 2,000 1,974 2,000 1,149 2,000 2,7,509 2,000 2,7,509 2,000 2,7,509 2,000 2	Cash operating expenses	366,583	1,418,542		880,330	
xpenses         2,110         5,958         8           xpenses         377,251         1,446,184         8           siation         54,521         123,080         8           siation         46,080         141,064         8           sjustment         1,974         4,462         8           operator         1,149         -247         8           per operator         -35,740         -27,509         -27,509	xpenses         2,110         5,958         8           xpenses         377,251         1,446,184         8           siation         54,521         123,080         8           siation         46,080         141,064         8           sijustment         1,974         4,462         8           operator         1,149         -247         -247           per operator         -35,740         -27,509         -27,509	Prepaid expenses (- if increased)	8,559	21,684		14,969	
xpenses         377,251         1,446,184         8           siation         54,521         123,080           46,080         141,064           sjustment         1,974         4,462           operator         -1449         -247           per operator         -35,740         -27,509	xpenses         377,251         1,446,184         8           ciation         54,521         123,080         64,080           sliustment         1,974         4,462         64,080           operator         1,149         -247         6247           per operator         -35,740         -27,509         75,509           rals due to rounding to the nearest dollar.         -27,509         75,7509	Accts. payable (+ if increased)	2,110	5,958		3,989	
siation         54,521         123,080           46,080         141,064           4,462         4,462           10,414         -13,521           per operator         -35,740           -27,509         -27,509	siation         54,521         123,080           46,080         141,064           Ijustment         1,974         4,462           operator         1,149         -247           per operator         -35,740         -27,509           rals due to rounding to the nearest dollar.         -27,509	Total operating expenses	377,251	1,446,184		899,288	
46,080     141,064       1,974     4,462       10,414     -13,521       operator     -247       per operator     -35,740       -27,509     -	46,080       141,064         1,974       4,462         10,414       -13,521         operator       1,149         -247       -247         per operator       -35,740         -27,509       -         rals due to rounding to the nearest dollar.       -	Income before depreciation	54,521	123,080		88,003	
jlustment 1,974 4,462 7,521 0,414 1,149 -247 0,247 0,27,509 -27,509	lygytement         1,974         4,462	Less depreciation	46,080	141,064		92,467	
10,414         -13,521           operator         1,149         -247           per operator         -35,740         -27,509	10,414         -13,521           operator         1,149         -247           per operator         -35,740         -27,509           ials due to rounding to the nearest dollar.         -	Capital account adjustment	1,974	4,462		3,189	
operator 1,149 -247  per operator -35,740 -27,509	operator 1,149 -247  Per operator -35,740 -27,509	Net farm income	10,414	-13,521		-1,275	
per operator -35,740 -27,509	per operator -35,740 -27,509 tals due to rounding to the nearest dollar.	Net farm income per operator	1,149	-247		467	
	Note: Variations in totals due to rounding to the nearest dollar.	Labor & mgt. income per operator	-35,740			-31,721	

Table 22a. 2016 Operator Average Operating Costs, Land Use, Yields, and Prices Received by Size and by Cwt of Pork Produced for Illinois Hog Farms

810.41 265.40 54.35 130.17 89.59 42.01 107.64 239.25 42.01 107.64 239.25 20.97 42.01 13.01 111.75 33.16 65.13 13.01 12.09 55.91 75.57 75.57 75.57 75.57 75.99 89.49 130,120 73,986 65.7 32.4 130,120 73,986	8 2 2 1 4 4 5 1 8 6 8 7 4 7 8 8 8 7 7 7 8 7 7 8 7 8 7 7 8 7 8 7 7 8 7	
22 costs acre  costs acre  708.56 above feed above feed above feed 418.33 ar receipts arceipts arceipt		ω
acre acre acre above feed above feed above feed above feed alterior acreeipts acreeict acreeipts acreeicts		
receipts 708.56  ove feed 418.33 receipts 3.64  uction 1160.54  T7.33 51.81  F1.82  F1.83 F1.83 F1.83 F1.83 F1.83 F1.89		
receipts 708.56  ove feed 418.33 receipts 33.64  uction 1160.54 1  77.33 77.33 77.33 77.33 51.81  17.33 51.81  17.33 51.81  17.33 51.81  17.33 51.81  17.33 51.81  17.33 51.81  17.33 51.81  17.33 51.94  17.33 51.94  18.21  18.22  19.44  18.393 18.393 18.393 18.393 18.393 18.393 18.393 18.393 18.393 18.393 19.44 19.60		
ove feed 418.33 receipts 33.64 uction 1160.54 1 77.33 F7.33 F7.33 F7.33 F7.33 F7.33 F7.33 F7.89 upplies 98.50 ent total 257.64 For 79.22 and supplies 99.42 for 79.42 supplies 99.42 for 79.22 supplies 99.42 for 79.22 supplies 99.42 for 79.22 supplies 99.42 for 79.22 for 82.22 supplies 99.42 for 79.22 for 83.54 for 99.44 for 99.45 for 99.42 for 99.44 for 9		
receipts 33.64  uction 1160.54 1  77.33 77.33 77.33 77.33 77.33 77.33 77.34 17.89 18.50 18		
Ities 77.33 51.81		
iffes 51.81  expense 98.50  27.64  lities 47.89  upplies 66.68  ent total 25.44  ent total 25.44  ent total 25.44  ent total 25.68  ion 77.25  ent total 25.44  9.84  and supplies 56.63  rangual 25.45  sapital 25.27  sapital 25.25  sapital 25.25  sapital 25.37  sapital 33.37  sapital 33.37  con 13.33  sapital 33.37  sapital 33.37  con 26.862		
ities 27.64 ities 47.89 upplies 47.89 upplies 47.89 ent total 25.68 ion 77.25 ent total 25.44 ent total 25.44 ent total 25.44 ent total 25.68 ion 77.25 ent total 25.44 ent 25.44 ent 77.25 ent total 25.44 ent 25.44 ent 77.25 ent total 25.44 ent 77.25 ent 77.25 ent 66.83 in 34.67 if ed 34.847 if ed 33.1		
lities 227.64 lities 47.89 upplies 66.68 ent total 25.44 ent 79.22 sllaneous 77.25 substituting 108.21 structure 259.76 28.54 99.42 108.21 207.62 8 136.28 136.28 136.28 136.28 136.28 136.28 136.28 136.28 133.33.1		
lities 47.39 upplies 66.68 ent total 25.44 ent 77.25 ent 77.25 ent 78.22 ent 78.27 ent 78.37 ent 78.39 ent 78.39 ent total 25.44 ent 78.39 ent 78.39 ent total 25.44 ent 78.39 ent 78.39 ent total 25.44 ent 78.39 ent total 25.44 ent 78.39 ent 78.39 ent total 25.44 ent 78.39 ent total 26.862		
e total and a second and a seco		
ent total 25.44  ent 77.25  9.84  108.21  207.62  98.42  108.21  108.21  207.62  98.54  119.58  capital 259.76  289.37  189.93  189.93  189.93  189.93  189.93  189.93		
ion 77.25 ent total 25.44 ent total 255.44 ent 77.26 ent 77.26 ent 77.26 ent 77.26 ent 79.22 ent 79.22 ent 134.57 ent 19.58 capital 259.76 ent 19.58 ent 19.		
ion 77.25 ent total 255.44 ent total 255.44 ent total 38.45 ent total 38.57 ent total 34.57 ent supplies 56.63 nd supplies 56.63 nd supplies 83.54 capital 259.76 259.76 28.54 estment 5.31 stment 5.31 estment 5.31 estment 6.33 estment 38.93 estment 6.34 estment 6.34 estment 6.34 estment 6.34 estment 6.34 estment 6.34 estment 6.33		
ent total 255.44  ent		
9.84 ent 79.22 n 34.51 123.57 123.57 198.242 198.242 198.242 198.242 198.242 198.243 119.58 saptial 259.76 26.862		
ent 79.22  123.57  123.57  183.57  99.42  108.21  207.62  108.21  207.62  207.		
34.51 123.57 99.42 108.21 207.62 99.42 108.21 207.62 2		
123.57 99.42 108.21 207.62 99.42 108.21 207.62 207.		
99.42 108.21 207.62		
108.21 207.62 207.62  Sulfaneous 56.63 and supplies 56.63 and supplies 25.54 capital 259.76 28.2.5 Sulfanent 5.31 street 183.93 and sulfaned 34,847 be a sulfaned 34,847 considerable of the sulfaned sul		
207.62 silaneous 56.63 nd supplies 56.63 nd supplies 26.63 capital 259.76 282.25 s 1356.28 strent 5.31 strent 5.31 sted 183.93 sted 34,847 26,862 s 33.1 3.4 0.0		
silaneous 56.63  nd supplies 119.58  capital 259.76  283.54  289.76  280.25  street 183.93  fed 183.93  fed 34,847  26,862  8 60.8  9 60.8  9 33.1	   	
nd supplies 119.58  capital 83.54  259.76  259.76  28.25  streent 5.31  183.93  16d 183.93  34,847  26,862  8 60.8  9 33.1		
street 83.54  259.76  259.76  28.025  1356.28  183.93  16d  183.93  183.93  16d  26,862  8 60.8  9 60.8		
259.76 282.25 s		
struction of the control of the cont		
situent 5.31 136.28 190.44 16d 183.93 34,847 26,862 60.8 33.1 3.4 0.0		
5.31 183.93 183.93 183.93 183.93 1 26,862 60.8 33.1 3.4 0.0		
190.44 183.93 183.93 183.93 1 26,862 60.8 33.1 3.4 0.0		
183.93 34,847 26,862 60.8 33.1 3.4		
34,847 26,862 60.8 33.1 3.4 0.0		
20,002 60.8 33.1 3.4 0.0	30,120	
60.8 33.1 3.4 0.0		
ns 33.1 3 3.4 mall grains 0.0		
3.4 3.4 0.0	32.4	
mall grains 0.0		
0.0		
All hay and pasture 2.7 0.0	0.0	
216 2		
29 su		
Wheat	6/	
3.27	3.44 3.38	
Solveans (old Grop) 9.40 9.37		
9.45		

Table 23. 2016 Operator Average Returns, Costs, and Financial Summary for Illinois Dairy and Beef Farms

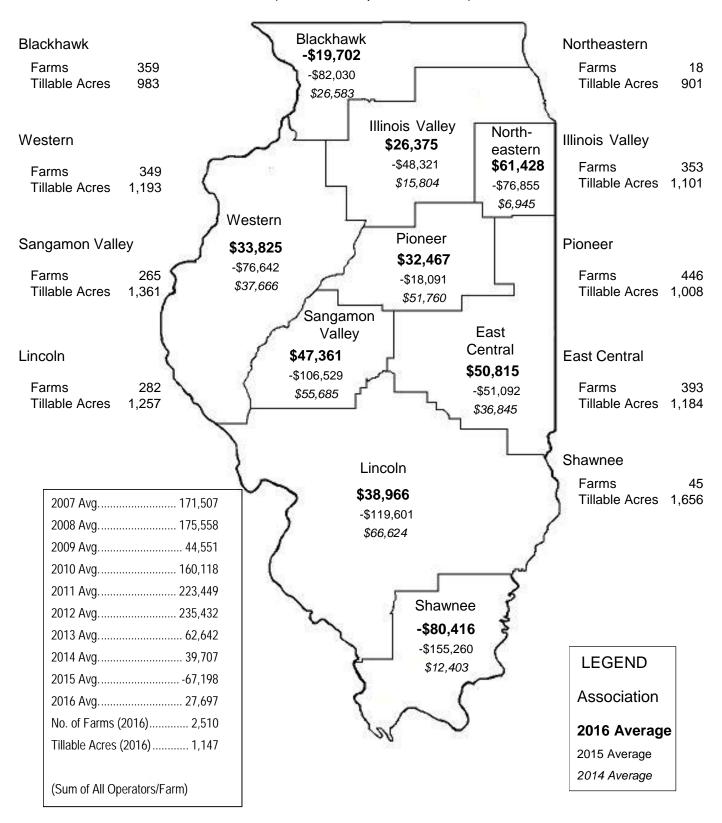
10-79   > 79   Your Tarm   10-79   > 79   Your Tarm   1224   534   534   536   537   538   52.7   538   52.7   538   52.7   538   52.7   538   52.7   538   53.380	Type of Farm		Dairy (by Number of Cows in Herd)	f Cows in Herd)			Beef (by Size)	Size)	
12   286   597   618   658   619   618   628   628   638   641   628   638	Number of cows in herd Range in size (total tillable acres)	10-79	> 79	Your tarm	All farms	180-799	662 <	Your farm	All farms
Page 56	Number of farms	12	38		50	12	9	5	18
Table   Tabl	Total acres in farm	265	265		518	556	1,071		727
Table   Tabl	Acres of tillable land	224	544		467	424	1,019		622
149,306	Operator tillable acres	224	536		461	417	1,007		613
149,308   393,360   334,788   253,486   813,944   12.2   149,308   393,360   334,788   253,486   813,944   149,308   393,360   334,788   253,482   44,283   2,091   24,096   2,091   24,096   2,091   24,096   2,091   24,096   2,091   24,096   2,091   24,096   2,091   24,096   2,091   24,096   2,091   24,096   2,091   24,096   2,091   24,096   2,091   24,096   2,091   24,096   2,091   24,096   2,091   2,	Soli lating on tiliable land Percept land owned	γ κ 4 ας	31		31	28	5/ 98		90 46
149,308   37,0   44,1   17,0   33,9   61     16.8   52,7   44,1   17,0     16.8   52,7   44,1   17,0     16.8   42,28   42,28   42,28   42,28   42,28     16.9   20,007   84,908   393,376   398,744   104,900     16.1   16,208   47,286   33,274   398,744   104,900     16.1   16,208   47,286   33,372   58,884   42,89     16.1   16,475   527,243   41,07,29   40,353   41,04,20     16.1   16,475   41,08   41,07,00     16.2   20,007   20,007   41,00     16.2   20,007   20,007   41,00     16.2   20,007   20,007   41,00     16.2   20,007   20,007   41,00     16.2   20,007   20,007   41,00     16.2   20,007   20,007   20,007     16.2   20,007   20,007   20,007     17.1   161   20,007   20,007     17.1   161   20,007   20,007     17.1   20,007   20,007   20,007     17.2   20,007   20,007   20,007     17.2   20,007   20,007   20,007     17.2   20,007   20,007   20,007     17.2   20,007   20,007   20,007     17.2   20,007   20,007   20,007     17.2   20,007   20,007   20,007     17.2   20,007   20,007   20,007     17.2   20,007   20,007   20,007     17.3   20,007   20,007   20,007     17.4   20,007   20,007   20,007     18.4   20,007   20,007     18.4   20,007   20,007   20,007     19.4   20,007   20,007   20,007     19.4   20,007   20,007   20,007     19.4   20,007   20,007   20,007     19.4   20,007   20,007   20,007     19.4   20,007   20,007   20,007     19.4   20,007   20,007   20,007     19.4   20,007   20,007   20,007     19.4   20,007   20,007   20,007     19.4   20,007   20,007   20,007     19.4   20,007   20,007   20,007     19.4   20,007   20,007   20,007     19.4   20,007   20,007   20,007     19.4   20,007   20,007   20,007     19.4   20,007   20,007   20,007     19.4   20,007   20,007   20,007     19.4   20,007   20,007   20,007     19.4   20,007   20,007   20,007     19.4   20,007   20,007   20,007     19.5   20,007   20,007   20,007     19.5   20,007   20,007   20,007     19.5   20,007   20,007   20,007     19.5   20,007   20,007   20,007     19.5   20,007   20,007   20,007     19.5   20,007   20,007   20,	Percent land crop shared	8 -	- m		- m	8 4	3 °		p m
16.8   37.0   28.9   14   11.2   11.2	Percent land cash rented	62	99		99	38	61		51
16.8   52.7   44.1   17.0   33.9   33.4788   523,486   813,944   149,308   393,360   334,788   253,486   813,944   149,308   393,360   324,788   33.574   398,744   149,900   220,007   24,243	Months of hired labor	3.8	37.0		28.9	9.7	12.2		5.0
Feed   74,288   393,360   342,574   342,574   397,44   104,900   342,574	Total months labor	16.8	52.7		44.1	17.0	33.9		22.6
Feed   149,306   393,476   334,574   397,44   104,909   104,909   394,574   397,44   104,909   104,909   397,44   104,909   104,909   305,883   397,44   104,909   107,374   197,296   227,243   197,296   227,243   227,243   227,243   227,243   227,244   227,243   227,244   2	Dollar returns								
Part	Crop returns	149,308	393,360		334,788	253,486	813,944		440,306
and         2,2091         4,243         3,302         5,888         4,289           and         2,2091         24,099         18,11         30,236         5,888         4,289           and         2,26,007         848,986         699,480         689,480         305,385         946,594           and         2,26,007         100,811         11,1239         110,238         21,1316           13,475         55,734         12,384         98,1478         98,1478           eous         12,286         147,708         12,000         12,000         12,1678           and         12,286         147,686         12,000         12,1678         12,1678           and         12,286         147,686         14,470         20,336         12,168           and         17,161         34,310         12,168         12,168           and         17,161         34,310         12,168         12,188           and         17,161         34,310         30,325         36,648         36,148           and         17,161         41,472         40,333         12,184         41,4173           and         17,161         11,167,716         36,72         36,672	Livestock returns above feed	74,288	427,296		342,574	39,744	104,900		61,463
n         226,007         24,099         18,817         6,255         23,452         24,594           out         226,007         18,814         6,936         193,217         18,817         6,538         946,594           out         226,007         10,811         191,239         100,336         311,316         36,68           eous         12,295         30,780         145,691         162,618         121,678         311,316           upplies         35,239         30,780         147,568         57,818         20,130         68,898           couls         12,295         30,780         26,344         20,130         68,898         16,998           couls         12,295         30,780         48,360         129,888         129,888         129,888           couls         17,161         34,310         36,148         8,739         20,308         168,888           and         30,784         48,350         129,488         129,488         129,488         129,488         129,488         129,488         129,488         129,488         129,488         129,488         129,488         129,488         129,488         129,488         129,488         129,488         129,488         129,488	Custom work	320	4,243		3,302	5,898	4,289		5,361
On         226,007         648,998         699,480         305,383         946,594           Ous         77,226         227,243         191,239         100,336         21,316           13,475         257,243         156,907         26,344         98,168           13,475         257,618         62,814         98,168           19,470         69,664         120,702         26,344         20,130         51,475           upplies         35,628         147,568         28,644         48,350         129,858           all         47,686         120,702         20,130         51,475         20,303           all         5,239         9,462         8,484         8,743         20,303           all         5,239         9,462         8,484         8,743         15,413           all         5,239         9,40,233         30,194         68,878         8,734           all         17,161         34,310         87,334         16,486         8,743           all         17,759         -9,511         -17,486,881         11,478,881         11,447           all         1,774         2,502         1,504,892         228,384         44,41,178         11	Other farm receipts	2,091	24,099		18,817	6,255	23,462		11,990
40,669         109,811         93,217         80,524         218,668           eous         13,475         25,576         45,472         23,84         98,169           eous         12,296         30,780         156,901         156,901         12,136           eous         12,295         30,780         156,304         26,344         98,169           eous         12,296         30,780         156,301         120,303         88,193           eous         12,296         30,780         156,304         20,130         61,475           upplies         35,628         147,568         77,333         68,933         88,933           eb,629         30,780         88,938         129,838         120,308         88,933           eb,638         36,828         48,356         57,334         48,388         36,674           eb,639         40,293         10,470         47,384         156,413         17,488           eb,640         40,373         44,484         73,008         17,748         17,748         17,749         17,488         17,744         17,539         10,129         10,759         10,759         10,409         10,759         10,409         10,409         10,409<	Value of farm production	226,007	848,998		699,480	305,383	946,594		519,120
40,669         109,811         93,217         66,524         218,668           17,226         277,243         191,239         100,336         311,316           61,689         19,700         166,901         126,901         62,618         171,678           61,689         19,700         166,901         166,901         121,678         98,168           10,700         9,462         120,702         40,353         129,888         121,678           10,470         96,64         77,618         48,330         129,888         120,388           11,161         68,78         78,740         87,49         20,388         125,413           11,161         68,78         78,740         471,844         1,248,881         173,41           11,167         16,89         78,440         471,844         1,248,881         173,48,881           11,167         16,90         0         0         0         0         0         0           11,167         16,90         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	Dollar costs								
13,726   27,724   191,239   100,336   311,316   100,345   100,345   101,346   101,440   101,44	Crop expenses	40,669	109,811		93,217	80,524	218,668		126,572
13.475   55.576   45.472   23.844   98.169   99.146   98.263   9	Power and equipment	77,226	227,243		191,239	100,336	311,316		170,662
toplies 16.589 187,000 156,901 62.66 171,678 cubes 16.589 187,000 156,901 62.64 40,353 68,988 187,000 156,901 62.64 40,353 68,988 187,000 69.64 17.568 1707,702 40,353 68,988 187,000 17.61 34,310 17.61 34,310 17.61 34,310 17.61 34,310 17.61 34,310 17.369 17.62 17.309 1	Building and fence	13,475	55,576		45,472	23,844	98,169		48,619
eous 12,285 30,780 26,344 20,130 51,475 68,993 40,991 es 35,628 147,568 120,722 40,353 68,993 68,993 es 40,281 68,878 68,984 87,77 20,308 87,77,289 94,62 32,314 77,394 58,314 77,394 70,394 77,394 72	Labor	61,589	187,000		156,901	62,618	121,678		82,305
upplies         35,628         147,568         120,702         40,353         68,993           upplies         35,628         147,568         147,568         15,6418         68,993         68,993           stand         5,239         9,462         57,336         5,2862         155,413         20,308           nt         20,781         68,878         787,470         471,844         1,248,881         3672           nt         266         47,844         1,248,881         3672         3,672         3,672           nt         266         90,231         1,167,716         -87,331         -165,485         -28,614         -28,764           nt         290,231         1,167,716         957,119         1,338,013         3,255,265         -28,614           stype         290,231         1,167,716         957,119         1,338,013         3,255,265         -16,136           cased)         51,774         257,201         16,132         96,734         444,173         444,173           cased)         1,522         9,364         5,643         2,056         96,543         2,28,764           cased)         1,923         3,644         13,079         2,364         144,173 </td <td>Insurance and miscellaneous</td> <td>12,295</td> <td>30,780</td> <td></td> <td>26,344</td> <td>20,130</td> <td>51,475</td> <td></td> <td>30,578</td>	Insurance and miscellaneous	12,295	30,780		26,344	20,130	51,475		30,578
19,470   69,664   57,618   48,350   129,888   20,388	Livestock services and supplies	35,628	147,568		120,702	40,353	68,993		49,900
5,239         9,462         8,448         8,797         20,308           20,781         68,878         57,335         28,582         155,413           303,532         940,293         787,470         30,194         58,311         73,003           ant         206         -77,559         -90,511         -87,331         -165,485         -298,614           ant         -77,559         -90,511         -87,331         -165,485         -298,614           ange         -77,259         -90,511         -87,331         -165,485         -298,614           ange         -2,20,27         -6,238         -298,614         -285,387         -286,602           -2,20,27         -2,20,27         -10,129         -283,013         3,255,265         -796,602           -2,20,07         -2,20,27         -70,29         -10,29         -13,330         28,324         444,173           creased         1,92         9,874         5,965         1,167         696,704         1,589,753           ses         1,92         9,874         608,453         301,020         946,955           assed         1,92         9,9146         83,532         94,275         1164,975           or	Interest on nonland capital	19,470	69,664		57,618	48,350	129,858		75,519
20,781         68,878         57,335         28,582         155,413           303,322         940,293         78,440         73,311         73,003           ent         266         940,293         787,470         3,672         3,672           ent         -77,259         -90,511         -87,331         -165,485         -298,614         -73,883           eng         -77,259         -90,511         -87,331         -165,485         -298,614         -73,885           eng         -77,259         -90,511         -16,128         -75,887         36,602         -77,60           eng         -2,284         -1,67,716         957,119         -1,338,013         3,255,265         -11,980           c         -2,841         -8,759         -10,129         -98,433         -222,764         -11,980           c         -2,841         -8,759         -10,129         -98,433         -222,764         -11,980           c         -3,047         -2,524         -1,672         -1,612         -1,980         -1,1980           c         -2,841         -2,225,007         -2,022         -1,0,129         -1,983         -1,27         -1,980           c         -3,040         -3,040	Real estate taxes	5,239	9,462		8,448	8,797	20,308		12,634
17.161         34.310         30.194         58.311         73.003           ant         203,532         940,293         787,470         471,844         1,248,881           ant         -77,259         -90,511         -67,331         -165,485         -298,614           nt         -77,259         -90,511         -67,331         -165,485         -298,614           nt         -77,259         -90,511         -67,331         -165,485         -298,614           nt         -77,259         -90,51         -190,892         -0.76         -0.76           nt         -77,394         1,167,716         957,119         -1,338,013         3,255,265           -4,202         -12,001         -10,139         -98,433         -292,764           -2,847         -27,201         -7,338         1,217         -11,980           creased)         -2,841         -8,759         -20,789         238,924         444,173           creased)         1,922         9,874         -6,937         7,965         946,595           sch,007         870,336         8,346         8,366         93,679         93,679           es         192,346         6,873         966         43,079 <td>Cash rent</td> <td>20,781</td> <td>68,878</td> <td></td> <td>57,335</td> <td>28,582</td> <td>155,413</td> <td></td> <td>70,859</td>	Cash rent	20,781	68,878		57,335	28,582	155,413		70,859
303,532         940,293         787,470         471,844         1,248,881           ant         266         783         659         977         3,672           and         -90,511         -87,331         -165,485         -298,614         -298,614           n         -0.74         0.90         0.89         0.65         0.76         0.76           173,945         196,939         191,420         255,387         369,602	Other land charges	17,161	34,310		30,194	58,311	73,003		63,208
ange)	Total nonfeed costs	303,532	940,293		787,470	471,844	1,248,881		730,856
-77,259         -90,511         -87,331         -165,485         -298,614           0.74         0.90         0.89         0.65         0.76           173,945         196,939         191,420         255,387         369,602           4,202         -12,001         -10,129         -98,719         1,338,013         3,255,265           4,202         -12,001         -10,129         -98,733         -292,764           4,202         -12,001         -10,129         -28,924         444,173           5,407         870,236         16,132         686,704         444,173           creased)         190,409         75,692         58,165         946,595           assed)         1,92         9,874         1,67         1,6896           assed)         1,92         9,874         1,67         1,6896           assed)         1,92         9,874         608,453         301,203           assed)         1,52         9,874         8,352         903,515           es         1,92,346         7,88         90,465         8,342         903,515           ast         1,92         9,874         46,49,77         16,896         903,615           es<	Capital account adjustment	266	783		629	977	3,672		1,875
0.74         0.90         0.89         0.65         0.76           173,945         196,939         191,420         255,387         369,602           290,231         1,167,716         957,119         1,338,013         3,255,265           4,202         -12,001         -7,338         1,217         -11,80           -2,841         -8,759         -7,338         1,217         -11,80           -2,841         -8,759         207,899         238,924         444,173           -2,841         -19,519         16,813         3,255,265           -1,774         257,701         16,813         208,764           -1,614         25,407         3,614         16,896           -1,167         16,896         878,463         878,463           -1,167         16,896         878,463         87,579           -1,167         16,896         87,579         81,57           -1,167         10,499         10,496         87,579           -1,167         10,496         11,167         16,896           -1,167         10,496         11,167         16,896           -1,167         11,167         11,167         11,167           -1,167         1	Management returns	-77,259	-90,511		-87,331	-165,485	-298,614		-209,861
0.74         0.90         0.89         0.65         0.76           173,945         196,939         191,420         255,387         369,602           290,231         1,167,716         957,119         1,338,013         3,255,265           4,202         -12,001         -7,338         1,217         -11,980           51,774         257,201         -7,338         1,217         -11,980           51,774         257,201         -7,38         1,217         -11,980           creased)         51,774         257,201         1,217         -11,980           creased)         190,409         726,920         7,965         11,167         16,896           creased)         1,922         9,874         7,965         11,167         16,896           ased)         190,409         726,920         7,965         8,342         8,157           es         190,409         726,920         7,965         11,167         16,896           ased)         1,922         9,874         40,896         43,038           ased)         130,385         103,385         43,075           ast         130,385         103,522         44,075           ast         11,1	Farm production per \$1.00								
173,945         196,939         191,420         255,387         369,602           290,231         1,167,716         957,119         1,338,013         3,255,265           -4,202         -12,001         -10,129         -98,433         -292,764           -2,841         -8,759         -7,338         1,217         -11,980           51,774         257,201         207,899         238,924         444,173           407         19,519         16,132         696,704         444,173           54,07         19,519         715,621         305,69         346,595           creased)         19,519         715,621         305,69         346,595           creased)         1,922         9,845         7,965         1,167         16,896           es         192,346         739,854         608,453         301,203         81,57           es         192,346         739,854         608,453         301,203         81,57           ascd)         1,67         83,532         44,275         154,975           es         783         659         -39,33         -108,224           or         37,742         44,275         -124,016           or	of nonfeed costs	0.74	06.0		0.89	0.65	92.0		0.71
ange)	Farm production per man	173,945	196,939		191,420	255,387	369,602		293,458
ange)	Financial summary								
ange) -4,202 -12,001 -10,129 -98,433 -292,764 -11,980 -17,38 1,217 -11,980 -11,980 -17,38 1,224 44,173 -11,980 -19,407 19,519 -19,519 -19,519 -10,132 69,704 1,559,753 -10,009 1,922 9,874 7,965 1,167 16,896 -1,9234	Cash operating income	290,231	1,167,716		957,119	1,338,013	3,255,265		1,977,097
ange) -2,841 -8,759 -7,338 1,217 -11,980	Inventory change	-4,202	-12,001		-10,129	-98,433	-292,764		-163,210
K         51,774         257,201         207,899         238,924         444,173           K         5,407         19,519         715,621         305,169         946,173           creased         1,922         870,236         715,621         305,169         946,595           ased)         1,922         9,874         7,965         1,167         16,896           es         192,346         739,854         608,453         301,203         903,515           es         192,346         739,854         608,453         301,203         903,515           es         192,346         739,854         608,453         301,203         903,515           es         192,346         739,854         44,275         154,975           ant         266         37,003         3,672         44,275         154,975           ant         26,549         34,708         -108,224         -108,224           or         -26,437         -39,333         -108,224           et or rounding to the nearest dollar.         -12,437         -124,771         -124,771	Accts. receivable (net change)	-2,841	-8,759		-7,338	1,217	-11,980		-3,182
k         5,407         19,519         16,132         696,704         1,559,753           226,007         870,236         715,621         305,169         946,595           creased)         1,922         9,874         7,965         1,167         16,896           es         192,346         739,854         608,453         301,203         8,157           es         192,346         739,864         130,382         107,168         3,966         43,079           ent         266         783         659         34,775         16,896         3672           or         377         45,549         34,708         34,708         3672         24,276           entator         -26,437         -24,296         -124,016         -124,016         -174,771	Less purchased feed	51,774	257,201		207,899	238,924	444,173		307,340
226,007         870,236         715,621         305,169         946,595           creased)         1,922         9,874         7,965         1,167         16,896           es         1,922         9,874         7,965         1,167         16,896           ased)         1,922         3,061         2,330         8,342         8,157           es         192,346         739,854         608,453         301,203         903,515           33,661         130,382         107,168         3,966         43,079           ant         266         783         659         997         3,672           or         37,742         45,549         34,708         -39,333         -108,224           or         -26,457         -6,437         -89,156         -174,771	Less purchased livestock	5,407	19,519		16,132	696,704	1,559,753		984,387
creased)         190,409         726,920         598,158         291,695         878,463           ased)         1,922         9,874         7,965         1,167         16,896           es         1,922         3,061         2,330         8,342         8,157           es         192,346         739,854         608,453         301,203         903,515           es         192,346         103,382         107,168         3,966         43,079           ant         266         783         659         977         154,975           or         32,019         24,296         -39,333         -108,224           or         -26,415         -128,016         -6,437         -89,156         -174,771	Gross farm returns	226,007	870,236		715,621	305,169	946,595		518,978
creased)         1,922         9,874         7,965         1,167         16,896           ased)         15         3,061         2,330         8,342         8,157           es         192,346         739,854         608,453         301,203         903,515           33,661         130,382         107,168         3,966         43,079           ant         266         783         659         -39,77         154,975           or         -162         32,019         24,296         -39,333         -108,224           or         -26,456         34,708         -39,333         -108,224           erator         -26,437         -6,437         -89,156         -174,771	Cash operating expenses	190,409	726,920		598,158	291,695	878,463		487,284
ased)         15         3,061         2,330         8,342         8,157           es         192,346         739,854         608,453         301,203         903,515           ast         107,168         3,966         43,079         43,079           ast         266         783         659         977         154,975           ast         3,672         3,672         3,672         3,672           ast         32,019         24,296         -39,333         -108,224           or         -26,459         34,708         -32,712         -124,016           ast or rounding to the pearest dollar.         -6,437         -89,156         -174,771	Prepaid expenses (- if increased)	1,922	9,874		7,965	1,167	16,896		6,410
es         192,346         739,854         608,453         301,203         903,515           33,661         130,382         107,168         3,966         43,079           34,089         99,146         83,532         44,275         154,975           ent         266         783         659         977         3,672           or         32,019         24,296         -39,333         -108,224           or         377         45,549         34,708         -32,712         -124,016           et or rounding to the pearest dollar.         -6,437         -89,156         -174,771         -174,771	Accts. payable (+ if increased)	15	3,061		2,330	8,342	8,157		8,280
33,661 130,382 107,168 3,966 43,079 20,146 3,966 43,079 20,146 3,966 44,275 154,975 20,146 20,146 20,146 20,146 20,146 20,146 20,146 20,146 20,146 20,146 20,146 20,146 20,146 20,146 20,146 20,14771 20,14771 20,14771 20,14771 20,14771 20,146 20,146 20,146 20,14771 20,146 20,1	Total operating expenses	192,346	739,854		608,453	301,203	903,515		501,974
t 266 783 83,532 44,275 154,975 752 754,075 753 24,275 753 24,296 32,712 158,4975 753 754,016 70 not winding to the nearest dollar.	Income before depreciation	33,661	130,382		107,168	3,966	43,079		17,004
t 266 783 659 977 3,672 783 1019 24,296 39,333 -108,224 708 377 45,549 34,708 -32,712 -124,016 70 10 10 the nearest dollar.	Less depreciation	34,089	99,146		83,532	44,275	154,975		81,175
-162         32,019         24,296         -39,333         -108,224           377         45,549         34,708         -32,712         -124,016           ator         -6,437         -89,156         -174,771	Capital account adjustment	266	783		629	226	3,672		1,875
377 45,549 34,708 -32,712 -124,016 ator -26,415 -128 -6,437 -89,156 -174,771 for rounding to the nearest dollar.	Net farm income	-162	32,019		24,296	-39,333	-108,224		-62,296
ator -26,415 -128 -6,437 -89,156 -174,771 - 10 rounding to the nearest dollar.	Net farm income per operator	377	45,549		34,708	-32,712	-124,016		-63,147
nearest dollar	Labor & mat. income per operator	-26.415	-128		-6,437	-89,156	-174.771		-117,695
	Note: Variations in totals due to rounding								0

Table 23a. 2016 Operator Average Operating Costs, Land Use, Yields, and Prices Received for Illinois Dairy and Beef Farms

Type of Farm	Dai	Dairy (by Number of Cows in Herd)	f Cows in Herd)			Beef (by Size)	Size)	
Number of cows in herd	10-79	> 79	Your farm	All farms			•	
Kange in size (total acres) Number of farms	12	38		20	180-799 12	9 / 99	Your farm	All tarms 18
Selected returns and costs								
pel operator unable acre Crop returns	667.55	733.74		726.03	608.61	808.15		717.82
Livestock returns above feed	332.13	797.04		742.92	95.42	104.15		100.20
Custom work, other receipts	10.78	52.87		47.97	29.18	27.55		28.29
Value of farm production	1,010.46	1,583.64		1,516.92	733.21	939.86		846.31
Soil fertility	75.44	79.35		78.89	70.85	78.74		75.17
Pesticides	31.00	38.83		37.92	43.49	48.95		46.48
Crop total	181.83	20.00		202.34	103 33	247		206.70
Light vehicle and utilities	51 33	53.78		53.49	17.68	25.10		21.74
Light Verlicle and utilities Machinery repairs, supplies	74.34	83.00		81.99	40.51	56.38		49.20
Machinery hire, lease	61.26	118.11		111.49	73.51	77.13		75.49
Fuel and oil	33.24	45.04		43.66	24.95	34.18		30.00
Machinery depreciation	125.11	123.96		124.09	84.26	116.31		101.80
Power and equipment total	345.27	423.88		414.73	240.90	309.10		278.23
Drying and storage	12.34	7.68		8.22	8.94	14.88		12.19
Building repair and rent	20.89	36.49		34.68	26.66	46.14		37.32
Building depreciation	27.02	29.50		55.72	21.64	36.45		29.75
Building total	60.25	103.67		98.61	57.25	97.47		79.26
Labor, unpaid	229.15	109.64		123.55	140.53	81.75		108.36
Labor, paid	46.21	239.17		216.71	9.82	39.06		25.82
Labor total	275.36	348.81		340.26	150.34	120.81		134.18
Insurance and miscellaneous	150.30	57.41		57.13	48.33	51.11		49.85
Interest on popland capital	87.05	120 07		12/105	96.69	128 93		123 12
Other costs total	301.31	462.62		443.84	261.30	248.54		254.32
Land charge	193.06	210.13		208.14	229.75	246.95		239.16
Total nonfeed costs	1357.07	1753.93		1707.73	1132.88	1239.99		1191.51
Capital account adjustment	1.19	1.46		1.43	2.35	3.65		3.06
Management returns	-345.42	-168.83		-189.39	-397.32	-296.49		-342.13
Percent crop returns fed	127.60	146.83		142.21	131.32	94.09		118.91
Capital purchases	41,486	97,831		84,308	52,840	104,011		69,897
Interest paid	10,670	37,211		30,841	37,918	92,242		56,026
Com and som allows	4	0.44		7	0.17	0 99		0.07
Southeans	17.4	0.10 7.10		0.10	04.5 73.1	33.2		26.3
Wheat	4	0.5		6.57	0.0	0.0		
Other small grains	0.0	0.0		0.4	0.0	0.0		0.0
CRP acres	0.0	0.0		0.0	9.0	0.0		0.3
All hay and pasture	17.3	10.6		11.3	21.9	0.0		10.3
Crop yields, bushels per acre								
Corn	188	203		201	219	224		222
Soybeans	28	99		65	89	29		29
Wheat	78	80		80	0	0		89
Prices received	3 40	3 86		2 64	3 56	77 0		2 70
Com (new grop)	0.4. c	3.00		۰. د ۲. د	3.47	4.6		0.4 0.4
Soybeans (old grop)	9.15	9.70		90 9.46	77.8	04.0		9.53
Sovbeans (new crop)	66 6-26	9.67		9.66	9.58	8.95 8.92		9.33
Note: Variations in totals due to rounding to the nearest dollar	o to the pearest doll							
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#### **Illinois FBFM Association**

# Operators' Share of Labor and Management Income per Farm---2014, 2015, and 2016 (Sum of All Operators/Farm)



**Financial Characteristics of Illinois FBFM Grain Farms** 

					4-Year	Му
	2016	2015	2014	2013	Average	Farm
Number of Farms	2,371	2,462	2,532	2,440	2,451	
Liquidity						
Norking Capital	\$242,058	\$241,637	\$295,956	\$336,712	\$279,091	
Current Ratio	, , , , , , , , , , , , , , , , , , , ,	¥ ,	*,	<b>,</b>	* -,	
Upper Quartile	NA	5.84	5.79	6.51	6.05	
Median	2.13	2.05	2.32	2.59	2.27	
Solvency						
Net Worth (Market)	\$2,986,042	\$2,993,163	\$2,973,330	\$2,880,432	\$2,958,242	
Debt/Equity Ratio (%)	* ,,-	, , ,	, , ,	, , , -	· ,,	
Upper Quartile	NA	7.9	8.5	8.5	8.3	
Median	24.8	25.5	23.5	22.5	24.1	
Debt/Total Asset Ratio (%)	2	20.0	20.0			
Upper Quartile	NA	7.4	7.8	7.8	7.7	
Median	19.9	20.4	19.0	18.4	19.4	
Profitability						
Net Farm Income	\$71,349	\$3,694	\$79,348	\$105,027	\$64,855	
Return on Farm Assets (%)	. ,	. ,	. ,	. ,	. ,	
Upper Quartile	NA	1.3	3.9	5.5	3.6	
Median	1.6	-0.7	1.6	2.6	1.3	
Return on Farm Equity (%)						
Upper Quartile	NA	0.8	4.2	6.5	3.8	
Median	1.1	-1.7	1.2	2.6	0.8	
Repayment Capacity						
Debt/Farm Operating Income	11.06	60.34	7.78	5.40	21.15	
Financial Efficiency (as a %			•	00		
Interest Expense Ratio	<u> </u>					
Upper Quartile	NA	0.8	0.6	0.5	0.6	
Median	2.9	2.9	2.3	2.0	2.5	
Operating Expense Ratio	0	0	0			
Upper Quartile	NA	70.3	61.9	60.0	64.1	
Median	70.4	80.6	71.7	68.3	72.8	
Depreciation Expense Ratio						
Upper Quartile	NA	9.2	7.6	6.9	7.9	
Median	11.8	13.2	11.0	10.0	11.5	
Farm Operating Income Ratio						
Upper Quartile	NA	13.5	24.5	27.9	22.0	
Median	13.3	2.5	14.2	18.1	12.0	
Asset Turnover Ratio	. 3.0	0	<b>_</b>			
Upper Quartile	NA	0.30	0.35	0.37	0.34	
Median	0.21	0.30	0.33	0.37	0.34	
IVICUIAII	0.21	0.10	0.22	0.24	V.Z I	

NA = not available yet.

## **Recently Retired**

**Kent Meister** was raised on a grain and livestock farm in Monroe County near Valmeyer. After finishing high school, he enrolled at the University of Illinois, graduating in January 1978 with a bachelor's degree in agricultural education.

Kent began his professional career as a vocational agriculture teacher at Normal Community High School. While teaching, he earned a master's degree in agricultural education at the University of Illinois in 1980. In January of 1983, Kent began working for the Pioneer FBFM Association, mainly responsible for southeastern McLean County. Kent used his expertise in agricultural education to communicate with cooperators and help them in their farm businesses.

Kent is involved in his community and church. In 2009, he was awarded the Outstanding Service to Agriculture Award for McLean County, primarily for the work he has done for his cooperators. Kent retired from FBFM in spring 2016 after 33 years of dedicated service.



# **In Memory**



**Don Becker** (1957–2017) was raised near Urbana in Champaign County. After finishing high school, he enrolled in Illinois State University, where he earned a bachelor's degree in agribusiness in 1979.

After graduation Don became an Illini FS Salesman in Champaign. In 1989 he was employed by the East Central FBFM Association, responsible for Iroquois County.

Don was very active in his church and community and enjoyed fishing, gardening, and spending time with his family. Don was in his 28th year of dedicated service to FBFM at his untimely death in February 2017. Don's desire to serve others combined with his knowledge made him a valuable asset to his cooperators and to fellow field staff. He will long be remembered for his contributions to the Watseka community.



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

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

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

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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
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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

Kent Leesman 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 <a href="http://www.fbfm.org">http://www.fbfm.org</a>

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For U of I farm management information see <a href="http://www.farmdoc.illinois.edu">http://www.farmdoc.illinois.edu</a>

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