



# 1991 67th annual SUMMARY OF ILLINOIS FARM BUSINESS RECORDS

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COMMERCIAL FARMS: Production / Costs / Income / Investments UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN / COLLEGE OF AGRICULTURE / COOPERATIVE EXTENSION SERVICE

**CIRCULAR 1322** 

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## SOURCE OF DATA

This report is based on data obtained from farm business records on 7,233 Illinois farms. It is the 67th annual summary of such records obtained from farmers cooperating with the University of Illinois Cooperative Extension Service, the Department of Agricultural Economics, and the Illinois Farm Business Farm Management (FBFM) Association.

At present, about one out of every five Illinois commercial farms with over 500 acres and one out of every four Illinois farms with total farm sales over \$100,000 is enrolled in this service, which grew steadily until 1982. Except for 1988, enrollment has declined slightly each year since 1982. One factor contributing to this decline has been the lower levels of farm income during the last half decade, resulting in fewer farm operators. In 1992, 10 associations in 102 counties are being served by 68 full-time field staff and two half-time field staff specialists. Participation in this farm-business analysis program is voluntary; cooperating farmers pay a fee for the educational services.

The program's development since 1940 is shown below.

Year	Associa- tions	Counties partici- pating	Field staff employed	Farmers enrolled
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

Estimates for 1991 indicate that 90 percent of the 7,233 farms covered in this report are larger than 240 acres. For the most part, this 90 percent falls within the size of business that includes farms selling \$50,000 or more of farm products per year. In the 1987 Census of Agriculture, farms selling \$50,000 or more accounted for 87 percent of all sales from Illinois farms.

The segment of Illinois agriculture that includes farms with more than 180 acres is often referred to as "commercial farming." In 1987, there were 44,810 farms in Illinois with more than 180 acres and with sales of \$10,000 or more. The figures that follow, taken from the 1987 Census of Agriculture, show that these farms represented 76 percent of the 59,181 farms larger than 50 acres and that these farms produced more than 98 percent of the agricultural products sold from Illinois farms.

Acres per farm	Percent of all farms over 50 acres	Percent of census farms enrolled in FBFM	Number of farms enrolled in FBFM
	43.1	9.3	2,374
		17.8	2,537
1,000+		19.6	983

Although most of the 1991 recordkeeping farms covered in this report are within the two smaller size groups, the figures show that they are not distributed proportionately among the groups. There were 5,017 farms identified by the Census with more than 1,000 acres in 1987. About a fifth of these farms (19.6 percent) were enrolled in the Illinois FBFM Association. Of the 14,257 farms in the group having from 500 to 999 acres, 17.8 percent also participated in the farm record program. Only about 5 percent of the farms enrolled had fewer than 160 acres. The average size of all farms enrolled in 1991 was 742 acres, compared with an average of 348 acres for all Illinois farms.

The data presented in this report is the total of operator and landlord income, expenses, and investments in 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, the choice of 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 2 to 8) summarizes recent changes in farm income on Illinois farms. It also identifies economic forces and factors that contribute to these changing trends. The data presented in Tables 5 through 8 are the total of operator and landlord data. Some 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. 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 27a) discusses costs, returns, financial summaries, investments, land use, and crop yields for different sizes and types of farms in northern, central, and southern Illinois. It is the total of operator and landlord data. It reports on the 25 percent of grain farms that received the highest return to management per dollar of cost and the 25 percent that received the lowest return. It also reports on two-man and three-man hog and beef farms. A two-man hog and beef farm uses from 21 to 27 months of labor; a three-man hog and beef farm, from 31 to 39 months.

## DEFINITION OF 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 Circular 1156 of the Illinois Cooperative Extension Service, *Soil Productivity in Illinois*. New land values were assigned in 1980. The annual change in land values represents an accounting adjustment to bring land values to current market levels.

## Hay equivalents, tons

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

## Sampling technique

Data from all records certified usable for analysis by field staff were aggregated by size (acres or number of cows), type of organization, value of the feed fed, and soil-productivity rating. Electronic data-processing was used to summarize the data.

## 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 a 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 5.

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

Dairy farms are farms where the value of feed fed was more than 40 percent of the crop returns and where the dairy enterprise received more than onethird of 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, \$2.41; oats, \$1.16; and wheat, \$2.71. 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 these nondepreciable items: fertilizer, pesticides; seeds (including homegrown seeds); machinery repairs; machine hire and lease; fuel and oil; the farm share of electricity, telephone, and light vehicle expenses; building repairs; drying and storage; hired labor; livestock expenses; taxes; insurance; and 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 total farm investment. But the total interest paid by the operator only on all debt-operating debt plus longer-term debt-is listed separately in Tables 19a to 27a under "Selected Cost and Return Items per Tillable Acre."

Machinery and equipment include depreciation, repairs, machine hire and lease, fuel and oil, and the farm share of electricity, telephone, and light vehicle expenses.

Labor includes hired labor plus family and operator's labor, charged in 1991 at \$1,425 a month.

Interest on nonland capital covers the interest charged at 9 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 auto, buildings, and soil fertility, plus one-half the cash-operating expense, exclusive of interest paid. In Tables 5, 7, 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 \$15,617. Details on operator and landlord shares of expenses and income are published annually in research reports by the Department of Agricultural Economics.

Land charge or net rent is the bare land priced at current land values multiplied by 4.5 percent to reflect net rents received by the landlord.

Total nonfeed costs include cash-operating expenses, adjustments for accrued expenses and farmproduced 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 February index of land prices in Illinois as reported by the United States Department of Agriculture (USDA). An additional adjustment was made to this index in 1984 to reflect the large drop in land values. The land value index for 1991, using a base earning value of 1979 = 100, was 66.

The capital account adjustment includes the gain or loss on capital items sold less any 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-deficiency and diverted-acre payments received and accrued, and the change in value for feed and grain inventories, less the value of feed and grain purchased. Government PIK (payment in kind) certificates purchased to redeem grain under government loan are included in the feed-and-grain purchase account.

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 operator's labor and management efforts, is then 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.

The rate earned on investment is capital and management earnings—interest on all capital and land charge, plus management returns—per \$100 of the total farm average annual investment.

## RECENT CHANGES IN INCOME ON ILLINOIS FARMS

#### Farm business trends in 1991

Illinois agriculture is based largely on crop production, especially corn and soybeans. In 1991, Illinois ranked second in the nation in the production of soybeans and second in the nation in the production of corn. The total value of corn and soybeans produced on Illinois farms was 17 percent of the total U.S. production for these crops. In 1990, the total value was 65 percent of the total value of production in Illinois from all crops and livestock and 89 percent of the value of production from all crops produced.

**Crops.** Year-to-year variations in net income are related to crop yields, grain prices, and acres in high cash-value crops. Corn and soybean yields in 1991 were lower than in 1990 due to drought conditions in certain areas of the state. In 1991, the average corn yield for Illinois was 107 bushels per acre, 20 bushels below 1990 and the third poorest yield in the last decade. Recordkeeping farms averaged 111 bushels per acre in 1991, 21 bushels below the 1990 yield. Soybean yields were 37.5 bushels per acre in 1991, compared with 39 in 1990. Recordkeeping farms averaged 42 bushels per acre in 1991. Crop yields on the 7,233 recordkeeping farms covered in this report averaged 4 to 12 percent above the average for all Illinois farms reported by the Illinois Crop **Reporting Service.** 

The prices received for all soybeans sold during the year averaged 10 to 14 cents per bushel below 1990 prices (Table 1). Corn prices received in 1991 averaged 1 to 3 cents less than those received in 1990. Wheat sold for 48 to 64 cents less per bushel during the year. Crops under loan with the Commodity Credit Corporation (CCC) and forfeited at the end of the loan period are included as grain sales. The selling price would be the loan rate for that particular crop. Positive marketing margins on oldcrop corn inventoried at the beginning of the year averaged about 17 cents. The average price received for old-crop soybeans equaled the inventory price. The year-end, new-crop corn inventory price was 10 cents higher than it was the year before, and the year-end, new-crop soybean inventory price was 25 cents lower.

Production of the major crops in 1991 was lower than the production levels of 1990. Compared to 1990, corn production was down 11 percent; soybean

	19	91	19	90		
	Northern Illinois	Southern Illinois	Northern Illinois	Southern Illinois		
Grain prices per bi	ushel					
Purchased - corn .	\$2.30	\$2.35	\$2.43	\$2.38		
Sold - corn	2.37	2.37	2.38	2.40		
soybeans			5.85	5.88		
wheat			2.91	2.97		
Livestock prices p	er cwt					
Hogs, all weights	\$48	3.52	\$53.69			
Fed cattle, all						
weights	72	2.55	76	6.40		
Feeder cattle, all			1			
weights, prices						
paid	85	5.94	88	5.42		
Dairy cattle, all						
weights	59	9.45	62	2.82		
Sheep and wool,						
all weights	42	2.82	58	3.62		
Milk per cwt		1.70	13.80			

 Table 1. Average Prices Received and Paid by Farm

 Recordkeepers for Grain, Livestock, and Milk

production was down 4 percent; oat production was down 43 percent; grain sorghum production was down 5 percent. Wheat production was down 50 percent with the average wheat yield of 32 bushels per acre the lowest since 1974. Hay production was down 6 percent. The Illinois 1991 All Crop Production Index, using a base value of 1977 = 100, was 94. This figure was down considerably from the figure for the previous year. Acreages of corn harvested for grain increased 6 percent from 1990 to 1991, while soybean acreage was unchanged from 1990. The acreage planted to soybeans was the same as in 1990 and 1984 and is the largest acreage planted to soybeans in Illinois. Wheat acreage harvested for grain decreased 24 percent.

Conditions for planting the 1991 corn crop were near normal. Corn planting began the first half of April, about a week ahead of average. Farmers planted 6 percent more acres of corn in 1991 than in 1990. Planting was complete by the first of June, which is near normal. Crop development progressed well ahead of average throughout the growing season.

Crop conditions started well over most areas of the state but began to deteriorate in July and August due to lack of rainfall. However, crop conditions varied considerably among different areas of the state. The eastern and northeastern areas were hit hardest while the west and southwestern areas had betterthan-average yields. Corn harvest began earlier than usual in late August and finished two to three weeks ahead of schedule.

Soybean planting began in late April but progressed behind schedule due to wet weather conditions in May. Planting progress improved greatly the end of May and into June. Planting was complete by the second week of June, slightly ahead of schedule. The condition of the soybeans started out well but deteriorated into the growing season due to hot, dry weather. As with the corn crop, yields varied greatly among different geographic areas. Timely rains in August helped certain areas. Harvest began ahead of normal with some harvest being done during the last week of August. Harvest continued at a record pace and was completed by the last week of October.

Livestock. A second major determinant in farm income is the price farmers receive for livestock and livestock products. In 1991, the average prices received by farm recordkeepers in the Illinois FBFM Association were 10 percent lower for hogs, 5 percent lower for fat cattle, and 15 percent lower for milk than they were in 1990 (Table 1). The prices paid for all weights of feeder cattle and feeder pigs averaged 1 percent above the 1990 price for feeder cattle and 7 percent below the 1990 price for feeder pigs. Lower returns due to lower prices received for fat cattle and lower year-end inventory values caused returns above feed and purchased animals for the feeder-cattle enterprise to decrease from \$25.74 per hundredweight produced to \$3.97 (Table 10). Lower hog prices and lower year-end inventory values decreased returns above feed cost from \$27.15 per hundredweight produced to \$17.67. Returns above feed were below the 5-year average for 1987 through 1991 by \$2.46 per hundredweight produced. Lower milk prices in 1991 made dairy returns above feed cost per cow drop from \$1,471 in 1990 to \$1,064 in 1991 and 15 percent below the average for the 5year period from 1987 through 1991.

## Labor and management income

The average operator's share of labor and management income for the 5-year period from 1987 through 1991 on all northern Illinois recordkeeping farms (located north of a line from Kankakee to Moline) was \$18,221. Operators on 1,724 grain and hog farms in central Illinois had 5-year average earnings of \$23,100 (Table 2). Central Illinois occupies the area between the Kankakee-Moline line in the north and the Mattoon-Alton line in the south. Smaller farms and variable soil quality in northern Illinois have generated smaller earnings from crops. The farms in northern Illinois typically average 5 to 10 percent lower crop yields than those in central Illinois.

Northern Illinois has a heavier concentration of livestock, which had lower earnings in 1991 compared to 1990. The difference in earnings between central and northern Illinois increased by \$694 in a comparison of the 5-year averages for the periods from 1986 through 1990 and from 1987 through 1991. The northern Illinois area in general suffered more from the drought than central Illinois. The recordkeeping farms in northern Illinois averaged 554 tillable acres per farm, compared with an average of 679 tillable acres on farms in central Illinois.

The figure for labor and management income

Table 2.	Operator's Five-Year Average Share of Labor
	and Management Income by Size and Type of
	Farm, 1987 Through 1991

	Nur	nber of acr	es per farm	l I
	Under 340	340 to 649	650+	All
		Northern	Illinois	
Acres of tillable				
land	234	462	911	554
Labor and managem	ent earning	s by type	of farm	
Grain	\$ 5,023	\$17,136	\$26,458	\$19,508
Hog	16,619	20,193	28,101	20,507
Beef <sup>a</sup>	-2,977	9,146	10,416	6,841
Dairy	14,649	22,174	0,055	17,809
All	10,244	17,643	24,955	18,221
		Central I	llinois	
Acres of tillable				
land	255	490	938	679
Labor and managem	ent earning	is by type	of farm	
Grain <sup>b</sup>	\$ 8,817	\$19,701		\$26,004
Grain <sup>c</sup>	3,650	14,466	25,399	19,537
Hog	11,971	20,218	29,751	21,275
All	8,279	18,143	30,741	23,100
		Southern	Illinois	
Acres of tillable				
land	247	572	1,096	749
Labor and managem	ent earning	s by type	of farm	
Grain	\$ 6,145	\$11,357	\$24,445	\$19,045
Hog	12,420	24,663	ď	21,827
Dairy	25,904	32,065	<sup>d</sup>	29,198
All	14,065	19,167	24,445	20,658

<sup>a</sup> Includes central Illinois.
 <sup>b</sup> Highly productive soils with soil-productivity ratings from 86 to 100.
 <sup>c</sup> Heavy-till and transition soils with soil-productivity ratings from 56 to 85.

d Data not available.

varies considerably, depending on the location and type of farm. For the period from 1987 through 1991, operators in southern Illinois averaged \$20,658 for labor and management. This average decreased by \$511, compared with the average for the 5-year period from 1986 through 1990. When the average earnings for the 5-year period from 1987 through 1991 are compared with the earnings from 1986 through 1990, earnings increased slightly in northern and central Illinois and decreased in southern Illinois.

In 1991, the labor and management income for all areas of Illinois averaged \$10,453 per farm. This figure is \$18,500 lower than the 1990 state average. The lower returns were a result of reduced crop yields, especially for corn and wheat, and lower livestock and livestock product prices. Gross crop returns for grain farms were \$33 per tillable acre lower in 1991 than in 1990. Prices received for all major livestock commodities were below the previous year's prices. Although in general returns were lower, they did vary considerably between different geographic areas depending upon rainfall amounts. A few areas had higher-than-average earnings, but most areas were below average.

The income or salary of the farm operator whether tenant or part-owner—is the return for the labor and management provided by the operator. The level of income received is a measure of overall farming efficiency and includes compensation for the risk involved. The income includes the operator's gross sales and the net change in inventory. This income is reduced by operating expenses, depreciation, a charge for unpaid family labor, 9 percent interest on nonland investment, and a land-use charge equivalent to the average net rent received by landowners for crop-share leases from 1987 to 1990.

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 \$30,000 is needed to pay living expenses and income and Social Security taxes, these figures for 5-year average, labor and management income indicate that to pay these expenses, the average farm operator's family uses between \$1,000 and \$25,000 of the return for equity capital, depending on the location and type of farm. Using part of the return to equity to pay family living expenses indicates that the farm operator is not receiving a competitive return to either his labor and management or his equity in the business. Off-farm income could be used to pay for some of the family living expenses.

## Family living expenditures

Total cash living expenditures for a sample of 456 central Illinois, sole-proprietor, farm-operator families in 1991 averaged \$32,480 (Table 3). This figure is 1 percent higher than the 1990 average. Capital purchases for family living expenses of \$4,418 include the family's share of the auto, plus items that exceed \$250 and will last more than one year. Capital purchases for family living were 12 percent of the total cash outlay for all family living expenditures in 1991.

The average farmer in this sample paid \$15,550 in interest in 1991 on operating, machinery, and longterm real estate debts. This interest expense was 12 percent of total operating expenses (including interest paid) and 9 percent of total farm receipts, or \$21 per tillable acre farmed in 1991. The average amount of interest paid in 1991 was \$480 more than the amount paid in 1990. This is the third year in a row that the amount of interest paid exceeded the amount paid in the previous year.

The most significant financial facts about 1991 are as follows:

- Net farm income, plus net nonfarm income, was \$5,402 less than the sum of family living capital purchases, total living expenses, and payments for income and Social Security taxes. This was the first time since 1988 that this margin was negative and only the third time since 1984;
- Liabilities of \$202,708 as of December 31, 1991, were 53 cents for each dollar of farm-only assets,

#### Table 3. Average Sources and Uses of Funds Over A Four-Year Period and by Noncapital Living Expenses for Selected Illinois Farms

		All records, average per farm				to 5, 1991ª
	1991	1990	1989	1988	High-third	Low-third
Number of farms	456	408	402	365	95	95
Tillable acres farmed	731	719	709	661	892	563
Acres owned	131	120	119	116	120	90
Farm assets, January 1 <sup>b</sup>	\$381,588	\$358,394	\$335,756	\$321,422	\$435,352	\$286,245
Farm assets, December 31 <sup>b</sup>	383,283	384,363	335,420	303,897	437,488	287,947
Liabilities, January 1	198,764	183,161	175,939	187,670	259,314	152,298
Liabilities, December 31		203,168	182,841	175,131	268,503	153,650
Net farm income	30,596	50,825	45,047	17,438	37,177	22,457
Source of dollars						
Net nonfarm income	\$ 12,226	\$ 12,624	\$ 10,502	\$ 9,654	\$ 15,504	\$ 11,537
Money borrowed	118,446	116,122	90,394	91,872	179,209	85,461
Farm receipts	177,832	180,737	156,717	163,138	233,982	149,306
Total sources		\$309,483	\$257,613	\$264,664	\$428,695	\$246,304
Use of dollars						
Interest paid	\$ 15,550	\$ 15,070	\$ 13,850	\$ 12,907	\$ 21,438	\$ 11,779
Cash operating expenses		112,943	97,737	101.802	150,975	95,382
Capital farm purchases		27,834	18,299	13.237	27,770	21,015
Payments on principal		98,101	85,797	104,689	168,916	83,651
Income and Social Security taxes	11.326	9,444	8,040	7.926	13,213	8,344
Net new savings and investment		9,710	1,070	-5,739	-4,269	-2,457
Total living expenses	\$ 32,480	\$ 32,090	\$ 28,499	\$ 26,439	\$ 46,080	\$ 23,283
Living — capital purchases	4,418	4,291	4,321	3,403	4,572	5,307
Total uses		\$309,483	\$257,613	\$264,664	\$428,695	\$246,304

<sup>a</sup> Records were sorted into thirds according to total noncapital living expenses.
<sup>b</sup> Modified-cost basis, except the land value, which was held at the same current value for January 1 and December 31.

including land at current value and machinery at depreciated value. The 53 cents on the dollar was the second lowest since 1985;

- Although considerably lower than the year before, capital purchases for farm machinery and equipment were at their second highest levels since 1979;
- The amount of money borrowed exceeded principal payments for the third year in a row, after three years in which principal payments exceeded money borrowed;
- The amount of noncapital living expenses per tillable acre farmed was \$44, which was the second highest amount in recent years;
- Income and Social Security taxes paid increased by \$1,882, and the total amount of taxes paid, \$11,326, was the largest amount since this study began.

The 1991 records from three- to five-member families were sorted into high one-third and low onethird groups according to the family's total living expenses (see Table 3). The total cash living expenses for the high-third group averaged \$46,080, compared with \$23,283 for the low-third group. The high-third group farmed 329 more acres than the other group and owned 13 percent of the land farmed; the lowthird group owned 16 percent of the land farmed. The results indicate that the high-third group had more nonfarm taxable income. The high-third group had 75 percent more outstanding debt 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 one-third group had \$8,244 more dollars remaining than the high onethird 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 456 farms contained 47 more tillable acres than the average of all the recordkeeping farms in the state. Management was also 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 \$25,000 and \$27,000 or 15 to 20 percent below the average total living expenses of these 456 central Illinois farms. When the \$12,226 net nonfarm income for 1991 is used for living expenses, the remaining \$24,672 must be generated from the farm business to pay the \$36,898 used for total living expenses including family living capital purchases. The figure, \$24,672, amounts to \$34 per tillable acre farmed.

#### Income changes on Illinois farms

The average operator's net farm income for all farms in 1991 was \$25,502; it was \$48,211 in 1990 (Table 4). Operator net farm incomes decrease steadily as a higher percent of gross farm returns is used to pay interest. On the average, when more than 25 to 30 percent of gross farm returns is used to pay interest, the operator's net farm income is usually negative. This was the case in 1991 when net farm incomes averaged only \$95 when interest as a percent

	Interest paid as a percent of gross farm returns										
	Under 10	10-14.9	15-19.9	20-24.9	25-29.9	30-34.9	35+	All			
Percent of farms											
1987	65	14	9	5	3	2	2	100			
1988	62	15	9	6	4	1	3	100			
1989	65	15	9	5	3	1	2	100			
1990	<b>6</b> 5	16	9	5	3	1	1	100			
1991	59	16	10	6	4	2	3	100			
Net farm income											
1987	47,596	38,779	35,292	25,667	18,434	11,663	-5,440	41,546			
1988	32,526	24,040	14,720	8,712	-799	-6,419	-19,517	24,917			
1989	51,632	42,415	31,688	23,894	14,677	61	-2,990	44,652			
1990	56,786	41,803	34,008	27,946	19,210	5,407	-13,768	48,211			
1991	36,437	21,663	12,110	3,850	95	-6,907	-30,034	25,502			

 
 Table 4. Percent of Illinois Farms and Operator Net Farm Income by Interest Paid as a Percent of Gross Farm Returns, 1987 Through 1991

of gross farm incomes was 25 to 30 percent. Interest paid as a part of gross farm returns for all operators averaged 9.9 percent in 1991; 8.8 in 1990; 8.9 in 1989; 9.8 in 1988; and 9.2 in 1987.

Comparative costs and returns between years and among major types of farming operations in northern and central, and in southern Illinois are reported in Tables 5, 7, and 8. The separation of farms into northern and central, and southern Illinois is based on soil-type regions that divide the state approximately on an east-west line from Mattoon to Alton. The sample consisted of grain, hog, beef, and dairy farms having between 340 and 799 acres or an average of 567 acres. Labor available on farms of this size averaged 13 months on grain farms, 22 months on hog farms, 19 months on beef farms, and 28 months on dairy farms. The data in the tables are presented as if the farms were all owner operated. For leased farms, the landlord and tenant shares of the business were combined. Depending on the location, between 55 and 75 percent of the land in Illinois is tenant operated, primarily under crop-share, some cash-rent, and a small number of livestock-share leases.

Size of farm, type of farm, quality of soil, and managerial inputs have been held reasonably constant by the sampling procedure used in selecting farms within each category. Variations among figures for 1990, 1991, and the 5-year average are due to changes in farm prices and to costs, weather, and internal farming adjustments. The data in Tables 5, 7, 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 that 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. Two important differences in the accrual method of income tax accounting should be noted: the provision for capital gains on livestock sales, which was in effect until 1987, and the inclusion of interest paid as a farm expense. The operator's share of net farm income, which is listed below total net farm income in many tables, does have the interest expense deducted from it.

The figures for net farm income are the amount available from the farm business for living costs, income and Social Security taxes, debts, new investments, and savings. Interest must also be paid from total net farm income, but not the operator's share because it has already been subtracted. 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.

The investment per farm is established as an average of the investments in farm inventory on January 1 and December 31. Physical quantities of grain and livestock are valued at farm market prices. Machinery, buildings, and soil fertility are valued at the remaining capital cost: original cost less depreciation as allowed for income tax deductions to date. Land is priced at current values, with the same value used for the beginning- and end-of-the-year land inventories. A base land value is established for each farm on the basis of a soil-productivity rating adjusted to a current value each year by using the February index of land prices in Illinois. The procedure used for adjusting the land value is described in the definitions of soil-productivity rating and of the value of land (the current basis) on pages 2 and 3. The annual change in land values represents an adjustment in accounting to bring land values to current market

	Grain farms					H	og farms					Be	ef farms				
	1991		1990		87-1991 average		1991		1990	1	1987-1991 average		1991		1990		87-1991 average
Number of farms	787		832		807		203		208		219		52		49		50
Total acres Soil-productivity	577		571		566		550		555		543		525		529		525
rating Cash operating	86		87		87		81		82		82		76		78		78
income\$ Less purchased		\$	175,291	\$	168,668	\$	332,478	\$	362,584	\$		\$		\$	592,017	\$	538,154
feed and livestock	759		2,563		8,307		96,515		106,361	_	103,690	—	289,894		370,808		339,630
Net cash operating income\$ Accounts receivable	166,295	\$	172,728	\$	160,361	\$	235,963	\$	256,223	\$	227,352	\$	196,129	\$	231,864	\$	198,524
change Inventory change Farm products used	-1,101 -10,777 247		2,961 2,546 259		-2,010 1,857 262		-941 -21,712 579		3,063 26,128 652		-1,323 1,942 596		-1,588 -37,390 1,107		2,849 3,035 845		-1,662 3,174 981
Value of farm										-		—	.,	-			
production\$ Total cash operating		\$	178,494	\$	160,470	\$	213,889	\$	286,066	\$		\$	158,258	\$	238,593	\$	201,017
expenses Prepaid-unpaid	79,094		80,543		74,994		115,501		120,996		107,914		96,867		108,005		96,491
change	417 10,612		-820 11,112		-444 12,028		-20 21,729		-2,333 27,068		-1,300 26,598		2,166 21,988		-3,094 23,682		-440 25,482
Net farm income\$	64,541	\$	87,659	\$	73,892	\$	76,679	\$	140,355	\$	95,355	\$	37,237	\$	110,000	\$	79,484
(Operator's share) <sup>a</sup> Unpaid labor charge Returns to capital	(21,119) 16,759		(35,863) 16,007		(28,856) 15,415		(27,011) 19,850		(78,580) 20,016		(44,225) 18,798		(-5,238) 19,457		(49,917) 17,082		(30,533) 16,890
and management Interest charge on	47,782		71,652		58,477		56,829		120,319		76,557		17,780		92,918		62,594
capital	61,519		61,971		59,944		69,212		74,807		69,770		72,373		81,830		76,680
Management returns \$	-13,737	\$	9,681	\$	-1,467	\$	-12,383	\$	45,512	\$	6,787	\$	-54,593	\$	11,088	\$	-14,086
Total cash income <sup>b</sup> Total cash	168,499		177,146		170,121		333,821		363,704		332,170		486,345		592,798		538,866
expenditures <sup>b</sup>	94,596	_	98,119	_	95,464	-	239,090	_	264,352	_	237,606	<u> </u>	409,871		493,506	-	458,322
Cash balance \$ Capital purchases	5 73,903 14,974	\$	79,027 15,259	\$	74,657 12,408	\$	94,731 27,232	\$	99,352 37,133		94,564 26,176	\$	76,474 23,128	\$	99,292 25,378	\$	80,544 22,265
FARM INVESTMENT Livestock inventory\$ Grain inventory Remaining capital cost in:	232 102,803	\$	161 108,264	\$	217 98,870	\$	97,374 98,349	\$	114,417 100,403		97,276 89,206	\$	206,184 93,796	\$	240,513 99,460	\$	215,977 84,879
Machinery and auto Buildings and fence Soil fertility	23,172 15,344 71		19,779 16,196 55		19,392 18,253 60		36,910 49,363 122		35,787 52,254 161		33,878 54,269 126		39,689 45,369 2,630		35,466 48,352 0		33,825 50,050 527
Value of land (current basis) <u>\$1</u>	,096,531	\$1	,075,561	<u>\$</u> 1	1,004,193	\$	940,654	\$	949,170	\$	869,558	\$	815,506	\$	852,175	\$	787,495
Total farm investment\$1	,238,153	\$1	,220,016	\$1	1,140,985	\$1	,222,772	\$ <sup>-</sup>	1,252,192	\$	1,144,313	\$1	,203,174	\$1	,275,966	\$1	,172,753
Rate earned on investment, percent	3.86		5.87		5.13		4.65		9.61		6.69		1.48		7.28		5.34

#### Table 5. Averages for Selected Total Farm Items on 340- to 799-Acre Northern and Central Illinois Grain, Hog, and Beef Farms

a Interest expense deducted from operator's share only.

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

levels. The land adjustment index for 1991 was 2 percent above that of 1990.

## Northern and central Illinois farms

Grain farms. The net farm income for northern and central Illinois grain farms having 340 to 799 acres and no livestock averaged \$64,541 in 1991, with the operator's and landlord's shares combined (Table 5). This income was \$23,118 below that of 1990 and \$9,351 below the 5-year average income from 1987 through 1991. This income was the second lowest of any during the last five years. Only 1988's income was lower. The value of farm production decreased \$23,830 due to lower cash operating income and a \$10,777 drop in inventory value. Total operating expenses actually declined by \$212. Depreciation expense decreased from \$11,112 in 1990 to \$10,612 in 1991. The amount of annual depreciation of these farms is now about half of the depreciation these farms had seven years ago.

The main factor causing incomes on northern and central Illinois grain farms to decrease as compared to the year before was the drop in corn and soybean yields. The average corn yield on these farms in 1991 was 116 bushels per acre, compared to 141 in 1990. The average soybean yield was 41 bushels per acre, compared to 47 the year before. Corn was inventoried 15 cents higher at the end of 1991 compared to the beginning, while soybeans were inventoried 25 cents lower. The value of grain inventories on hand at the end of the year were \$10,622 lower than at the beginning. Accounts receivable, which basically consisted of accrued and earned deficiency payments from the government farm program, were \$1,101 less at the end of the year. Most farmers continue to participate in the government farm program, setting aside 7.5 percent of their corn acreage base.

The average price received in 1991 for corn and soybeans was slightly lower than the year before. The average price received for corn was higher than the inventory price at the beginning of the year while the soybean price was the same as the beginning-ofthe-year inventory price. This resulted in a positive marketing margin for corn that added to net farm income. Cash operating expenses decreased by 2

 
 Table 6. Average Cost per Tillable Acre to Grow Corn and Soybeans on Central Illinois Grain Farms with No Livestock

	C	Corn	Soy	peans
	1991	1990	1991	1990
Number of farms	631	649	631	649
Acres grown per farm	368	357	352	335
Yield per acre, bu	131	149	46	47
Variable nonland costs				
Soil fertility		\$ 53	\$ 18	\$18
Pesticides	24	22	25	22
Seed	23	23	13	13
Drying and storage Machinery repairs, fuel,	8	10	4	4
and hire	27	30	23	25
Total, variable costs	\$137	\$138	\$ 83	\$ 82
Other nonland costs				
Labor	\$ 29	\$ 30	\$ 27	\$27
Buildings and storage	6	7	3	4
Machinery depreciation	19	19	15	15
Nonland interest	23	26	20	23
Overhead	12	12	12	13
Total, other costs	\$ 89	\$ 94	\$ 77	\$ 81
Total, nonland costs		\$232	\$160	\$163
Land costs				
Taxes	\$ 20	\$ 21	\$ 20	\$ 21
Adjusted net rent	98	96	98	96
Total, land costs		\$117	\$118	\$117
Total, all costs		\$349	\$278	\$280
Nonland cost per bu	\$ 1.73	\$ 1.56	\$ 3.48	\$ 3.47
Total, all costs per bu	\$ 2.63	• • •	\$ 6.04	\$ 5.96
Average yield,				
past 4 years	127	133	43	43
Total, all costs per bu			\$ 6.47	\$ 6.51

percent and depreciation decreased by 4 percent. Capital purchases of \$14,974 in 1991 were \$285 less than in 1990.

While accrual net farm incomes declined \$23,118, net cash incomes decreased \$5,124. A major reason for the difference is due to a large inventory decrease which only affects the accrual income. Cash operating income decreased \$6.433. Management returns were a *negative* \$13,737, only the second time in the last five years that they have been *negative*. The rate earned on investment was 3.86 percent, compared with 5.87 percent in 1990 and the last 5-year average of 5.13 percent. This rate earned on investment for grain farms was the second lowest rate earned in 1991 for any type of farm.

A study of the cost to grow corn and soybeans on central Illinois farms is summarized in Table 6. These farms had a soil-productivity index ranging from 86 to 100. The farms used 95 percent of their tillable land to grow corn and soybeans, with 48.4 percent of the acres in corn and 46.3 percent in soybeans. The table compares 1991 costs per acre with the 1990 costs. In 1991, the total cost per acre averaged \$344 for corn and \$278 for soybeans. From 1990 to 1991, it decreased 1 percent for corn and soybeans.

Nonland costs of \$1.73 per bushel for corn and \$3.48 for soybeans in 1991 are the most relevant costs for continuing production in the short run, especially where land is free of debt. Although the total costs to produce a bushel of corn and soybeans decreased slightly in 1991 compared to 1990, the total costs per bushel increased due to lower yields. Total costs per bushel increased 29 cents for corn and 8 cents for soybeans. If the 1991 yields had been 127 for corn and 43 for soybeans or the same as the average for the period from 1988 through 1991, the total cost per bushel would have been \$2.71 for corn and \$6.47 for soybeans. 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 9 percent of one-half the average of the beginning- and end-ofyear inventory values for the crops on hand, plus one-half the cash-operating expenses (excluding interest paid), plus the depreciated value of machinery and buildings. The adjusted net rent was the average net rent received by crop-share landlords as reported on recordkeeping farms for the period from 1987 through 1991.

Hog farms. The net farm income in 1991 for northern and central Illinois hog farms having 340 to 799 acres averaged \$76,679, with the operator's and landlord's shares combined (Table 5). Net incomes were \$63,676 lower than net incomes in 1990, and \$18,676 lower than the average for the 5-year period from 1987 through 1991. The net farm incomes for this group in 1991 were the second lowest for any year out of the last 7 years. The drop in income in 1991 followed record high earnings for these types of farms in 1990. Although incomes dropped considerably as compared to the previous year, they still were the second highest for any type of farm. Lower selling prices and inventory values were the main reason for the lower incomes. The value of farm production decreased \$72,177, or 25 percent, while cash operating expenses, other than feed costs, decreased 5 percent.

Management returns were a *negative* \$12,383, a decrease of \$57,895 from 1990 returns and \$19,170 below the 5-year average from 1987 through 1991. Capital purchases decreased by \$9,901, compared with 1990's purchases, but they were \$956 above the 1987 through 1991 average. Cash livestock sales decreased by \$37,270 in 1991 compared with 1990 figures. The average number of litters farrowed for this group was 235.

Lower earnings caused the rate earned on investment to decrease to 4.65 percent in 1991, compared with 9.61 percent in 1990. This was the third highest for any type of farm in Illinois. The 5-year average rate was 6.69 percent. The 5-year average earning rate was the second highest of any type of farm in northern and central Illinois.

**Beef farms.** The net farm income for northern and central Illinois beef farms having 340 to 799 acres averaged \$37,237 in 1991, with the operator's and landlord's shares combined (Table 5). This figure was \$72,763 lower than the 1990 figure and \$30,516 lower than the average from 1987 through 1991.

Lower slaughter cattle prices and inventory values contributed to the lower earnings. The average price received for fat cattle decreased 5 percent in 1991 compared with 1990. The average price paid to replace feeder cattle increased only 1 percent. Compared with 1990, the value of farm production decreased by \$80,335, or 44 percent. It was \$42,759 below the 5-year average for 1987 through 1991. The 1991 value of production was the lowest of any in the last 10 years. This followed 1990 when the value of production was the highest of any year in the preceding 10 years. These farms produced 2,091 hundredweight of beef per farm, or the weight-gain equivalents of 440 head, each gaining 475 pounds.

Management returns of a *negative* \$54,593 in 1991 for these farms were \$65,681 below 1990 returns and \$40,507 below the 5-year average from 1987 through 1991, which was a *negative* \$14,086. The 1991 management returns were the lowest of any year in the last 10 years. The only years that management returns have been positive in the last 9 years were in 1987 and 1990. Capital purchases were \$23,128 in 1991 compared to \$25,378 in 1990 and \$22,265 for the 1987 through 1991 average. Cash operating expenses, excluding purchases of feed and livestock, decreased 10 percent. The net cash balance for these farms was \$76,474, or \$22,818 less than in 1990 and \$4,070 below the average for 1987 through 1991.

Cost and returns to produce beef from 1988 through 1991, based on a detailed breakdown of individual costs from a selected sample of beef farms, are shown in Table 14. Total costs exceeded total returns 3 of the last 4 years. This analysis is discussed in detail under the livestock section on feeder-cattle enterprises.

The average rate earned on investment decreased from 7.28 percent in 1990 to 1.48 percent in 1991. The 5-year average rate earned on investment from 1987 through 1991 was 5.34 percent. The 1991 rate earned on investment for these farms was the lowest in the last 9 years. The 1987 through 1991 average rate earned on investment is the second lowest for any type of farm. The average total farm investment was \$1,203,174. The average investment in cattle of \$93,796 was the second highest of any year during the last seven years.

Farms on which 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. Along with other livestock enterprises, returns to feeder-cattle enterprises in 1991 were lower than 1990 due to lower selling prices. In recent years, this type of farm has survived primarily where there are large amounts of debt-free capital that has been combined with very high levels of management.

**Dairy farms.** The net farm income for northern and central Illinois dairy farms having 340 to 799 acres averaged \$64,208 in 1991, with the operator's and landlord's shares combined (Table 7). This figure was \$33,409 below the 1990 figure and \$20,356 below the 5-year average from 1987 through 1991. The 1991 income was the lowest of any of the last 5 years. The average number of cows on these farms was 70, two above the average for 1990.

Lower milk prices which reduced cash operating income and lower crop yields which reduced the value of inventories resulted in lower value of production and net farm income. The value of farm production was \$190,425, 10 percent below the average for the 5-year period from 1987 through 1991. Cash operating expenses decreased 2 percent in 1991 compared to 1990. A detailed breakdown of the cost of producing milk can be found in Table 16. Management returns of a negative \$18,515 were \$33,370 below 1990 and \$22,041 below the average for the 5-year period from 1987 through 1991. Management returns were negative for the first time in 3 years and the lowest since 1986. Capital purchases decreased to \$21,951 compared to \$27,016 and the 1987 through 1991 average of \$22,146.

The 1991 rate earned on investment for these farms was 4.14 percent; the 1990 rate was 8.22

Table 7. Averages for Selected Total Farm Items on 340-
to 799-Acre Northern Illinois Dairy Farms

1991         1990         1987-1991 average           Number of farms         65         60         58           Total acres         479         468         475           Soil-productivity rating         71         71         71           Cash operating income         \$250,972         \$262,824         \$260,622           Less purchased feed         and livestock         50,142         49,015         56,963           Net cash operating income         \$200,830         \$213,809         \$203,659           Accounts receivable         -681         1,347         -592           Inventory change         -11,996         10,996         5,009           Farm products used         2,272         2,311         2,413           Value of farm production         190,425         \$228,463         \$210,489           Total cash operating expenses         106,651         108,518         103,592           Prepaid-unpaid change         775         -786         -387           Annual depreciation         18,791         23,114         22,720           Unpaid labor charge         25,825         25,403         23,970           Returns to capital         56,898         57,359         57,068			 		
Total acres         479         468         475           Soil-productivity rating         71         71         71           Cash operating income         \$ 250,972         \$ 262,824         \$ 260,622           Less purchased feed         49,015         56,963           Net cash operating         income         50,142         49,015         56,963           Net cash operating         income         -681         1,347         -592           Inventory change         -11,996         10,996         5,009           Farm products used         2,272         2,311         2,413           Value of farm production\$ 190,425         \$ 228,463         \$ 210,489           Total cash operating         06,651         108,518         103,592           Prepaid-unpaid change         775         -786         -387           Annual depreciation         18,791         23,114         22,720           Net farm income         \$ 64,208         \$ 97,617         \$ 84,564           (Operator's share) <sup>a</sup> (28,683)         (59,117)         (47,882)           Unpaid labor charge         25,825         25,403         23,970           Returns to capital         38,383         72,214         60,594		1991	1990		
Soil-productivity rating         71         71         71           Cash operating income         \$ 250,972         \$ 262,824         \$ 260,622           Less purchased feed         50,142         49,015         56,963           Net cash operating income         -681         1,347         -592           Accounts receivable change         -681         1,347         -592           Accounts receivable         -681         1,347         -592           Inventory change         -11,996         10,996         5,009           Farm products used         2,272         2,311         2,413           Value of farm production         \$ 190,425         \$ 228,463         \$ 210,489           Total cash operating expenses         106,651         108,518         103,592           Prepaid-unpaid change         775         -786         -387           Annual depreciation         18,791         23,114         22,720           Net farm income         \$ 64,208         \$ 97,617         \$ 84,564           (Operator's share) <sup>a</sup> (28,683)         25,403         23,970           Returns to capital natreest charge on capital         56,898         57,359         \$ 3,526           Total cash income <sup>b</sup> 253,834	Number of farms	65	60		58
Less purchased feed and livestock       50,142       49,015       56,963         Net cash operating income       \$200,830       \$213,809       \$203,659         Accounts receivable change       -681       1,347       -592         Inventory change       -11,996       10,996       5,009         Farm products used       2,272       2,311       2,413         Value of farm production       \$190,425       \$228,463       \$210,489         Total cash operating expenses       106,651       108,518       103,592         Prepaid-unpaid change       775       -786       -387         Annual depreciation       18,791       23,114       22,720         Net farm income       \$64,208       \$97,617       \$84,564         (Operator's share) <sup>a</sup> (28,683)       (59,117)       (47,882)         Unpaid labor charge       25,825       25,403       23,970         Returns to capital       56,898       57,359       57,068         Management returns       \$-18,515       \$14,855       \$3,526         Total cash income <sup>b</sup> 253,834       263,351       261,523         Total cash expenditures <sup>b</sup> 177,451       \$80,147       \$80,275         Capital purchases	Total acres Soil-productivity rating				
Net cash operating income $200,830$ $213,809$ $203,659$ Accounts receivable change $-681$ $1,347$ $-592$ Inventory change $-11,996$ $10,996$ $5,009$ Farm products used $2,272$ $2,311$ $2,413$ Value of farm production $$190,425$ $$228,463$ $$210,489$ Total cash operating expenses $106,651$ $108,518$ $103,592$ Prepaid-unpaid change $775$ $-786$ $-387$ Annual depreciation $18,791$ $23,114$ $22,720$ Net farm income $64,208$ $(59,117)$ $(47,882)$ Unpaid labor charge $25,825$ $25,403$ $23,970$ Returns to capital $56,898$ $57,359$ $57,068$ Management returns $$-18,515$ $$14,855$ $$3,526$ Total cash income <sup>b</sup> $253,834$ $263,351$ $261,523$ Total cash income <sup>b</sup> $253,834$ $$20,147$ $$80,275$ Cash balance $$2,951$ $$7,016$ $$21,466$ FARM INVESTMENT $$119,491$ $$106,712$ $$106,124$ Grain inventory $$74,253$ $36,556$ $35,431$ Buildings and fence $50,108$ $$7,152$ $60,727$ Soil fertility $895$ $970$ $392$ Value of land (current basis) $642,402$ $607,563$ $586,482$ Total farm investment $$927,672$ $$878,548$ $$854,528$	Less purchased feed		\$ 	\$	
income       \$200,830       \$213,809       \$203,659         Accounts receivable       -681       1,347       -592         Inventory change       -11,996       10,996       5,009         Farm products used       2,272       2,311       2,413         Value of farm production       \$190,425       \$228,463       \$210,489         Total cash operating       ************************************		00,142	 40,010	-	
Inventory change       -11,996       10,996       5,009         Farm products used       2,272       2,311       2,413         Value of farm production       190,425       \$ 228,463       \$ 210,489         Total cash operating expenses       106,651       108,518       103,592         Prepaid-unpaid change       775       -786       -387         Annual depreciation       18,791       23,114       22,720         Net farm income       64,208       (59,117)       (47,882)         Unpaid labor charge       25,825       25,403       23,970         Returns to capital       38,383       72,214       60,594         Interest charge on capital       56,898       57,359       57,068         Management returns       253,834       263,351       261,523         Total cash income <sup>b</sup> 253,834       263,351       261,523         Total cash income <sup>b</sup> 253,834       263,351       261,523         Total cash income <sup>b</sup> 76,383       \$ 80,147       \$ 80,275         Capital purchases       21,951       \$ 106,712       \$ 106,124         FARM INVESTMENT       119,491       \$ 106,712       \$ 60,595       65,372         Remaining capital cost in:	income\$		\$	\$	
Farm products used					
Total cash operating expenses       106,651       108,518       103,592         Prepaid-unpaid change       775       -786       -387         Annual depreciation       18,791       23,114       22,720         Net farm income       \$ 64,208       \$ 97,617       \$ 84,564         (Operator's share) <sup>a</sup> (28,683)       (59,117)       (47,882)         Unpaid labor charge       25,825       25,403       23,970         Returns to capital and management returns       38,383       72,214       60,594         Interest charge on capital       56,898       57,359       \$ 3,526         Total cash income <sup>b</sup> 253,834       263,351       261,523         Total cash expenditures <sup>b</sup> 177,451       183,204       181,248         Cash balance       \$ 76,383       \$ 80,147       \$ 80,275         Capital purchases       21,951       27,016       \$ 106,712         FARM INVESTMENT       119,491       \$ 106,712       \$ 69,595       65,372         Livestock inventory       74,253       36,556       35,431       60,727         Soil fertility       895       970       392       392       392         Value of land (current basis)       642,402       607,563	Farm products used	2,272			
expenses       106,651       108,518       -387         Prepaid-unpaid change       775       -786       -387         Annual depreciation       18,791       23,114       22,720         Net farm income       \$ 64,208       \$ 97,617       \$ 84,564         (Operator's share) <sup>a</sup> (28,683)       (59,117)       (47,882)         Unpaid labor charge       25,825       25,403       23,970         Returns to capital       38,383       72,214       60,594         Interest charge on capital       56,898       57,359       \$ 57,068         Management returns       253,834       263,351       261,523         Total cash income <sup>b</sup> 27,414       60,594       181,248         Cash balance       76,383       80,147       \$ 80,275         Capital purchases       21,951       27,016       \$ 106,124         FARM INVESTMENT       119,491       \$ 106,712       \$ 106,124         Livestock inventory       74,253       36,556       35,431         Buildings and fence       50,108       57,152       60,727         Soil fertility       895       970       392         Value of land (current basis)       642,402       607,563       586,482	•	190,425	\$ 228,463	\$	210,489
Annual depreciation18,79123,11422,720Net farm income\$ 64,208\$ 97,617\$ 84,564(Operator's share) <sup>a</sup> (28,683)(59,117)(47,882)Unpaid labor charge25,82525,40323,970Returns to capital38,38372,21460,594and management38,38372,21460,594Interest charge on capital56,89857,35957,068Management returns253,834263,351261,523Total cash income <sup>b</sup> 253,834263,351261,523Total cash expenditures <sup>b</sup> 177,451183,204181,248Cash balance\$ 76,383\$ 80,147\$ 80,275Capital purchases21,95127,016\$ 106,712FARM INVESTMENT119,491\$ 106,712\$ 106,124Livestock inventory74,25336,55635,431Buildings and fence50,10857,15260,727Soil fertility895970392Value of land (current642,402607,563basis)642,402\$ 878,548Total farm investment\$ 927,672Rate earned on\$ 927,672	expenses				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
Unpaid labor charge25,82525,40323,970Returns to capital38,38372,21460,594Interest charge on capital56,89857,35957,068Management returns-18,515\$ 14,855\$ 3,526Total cash income <sup>b</sup> 253,834263,351261,523Total cash expenditures <sup>b</sup> 177,451183,204181,248Cash balance\$ 76,383\$ 80,147\$ 80,275Capital purchases21,95127,016\$ 106,712FARM INVESTMENT119,491\$ 106,712\$ 106,124Livestock inventory74,25336,55635,431Buildings and fence50,10857,15260,727Soil fertility895970392Value of land (current642,402607,563basis)642,402\$ 878,548Rate earned on\$ 927,672	Net farm income\$	64,208	\$ 97,617	\$	84,564
and management $38,383$ $72,214$ $60,594$ Interest charge on capital $56,898$ $57,359$ $57,068$ Management returns $-18,515$ \$ 14,855\$ 3,526Total cash income <sup>b</sup> $253,834$ $263,351$ $261,523$ Total cash expenditures <sup>b</sup> $177,451$ $183,204$ $181,248$ Cash balance\$ 76,383\$ 80,147\$ 80,275Capital purchases $21,951$ $27,016$ $22,146$ FARM INVESTMENTLivestock inventory $74,253$ $69,595$ Bemaining capital cost in: $74,253$ $69,595$ $35,431$ Buildings and fence $50,108$ $57,152$ $60,727$ Soil fertility $895$ $970$ $392$ Value of land (current basis) $642,402$ $607,563$ $586,482$ Total farm investment $927,672$ \$ 878,548\$ 854,528	Unpaid labor charge				
Management returns $\$$ -18,515 $\$$ 14,855 $\$$ 3,526Total cash incomeb253,834263,351261,523Total cash expendituresb177,451183,204181,248Cash balance $\$$ 76,383 $\$$ 80,147 $\$$ 80,275Capital purchases21,95127,01622,146FARM INVESTMENT119,491 $\$$ 106,712 $\$$ 106,124Grain inventory74,25369,59565,372Remaining capital cost in:36,55635,431Buildings and fence50,10857,15260,727Soil fertility895970392Value of land (current basis)642,402607,563586,482Total farm investment927,672 $\$$ 878,548 $\$$ 854,528	and management		72,214 57.359		
Total cash income253,834263,351261,523Total cash expenditures177,451183,204181,248Cash balance\$76,38327,01622,146Capital purchases21,95127,01622,146FARM INVESTMENT119,491\$106,712\$106,124Livestock inventory74,25369,59565,372Remaining capital cost in: $40,523$ $36,556$ $35,431$ Buildings and fence $50,108$ $57,152$ $60,727$ Soil fertility $895$ 970 $392$ Value of land (current basis) $642,402$ $607,563$ $586,482$ Total farm investment $927,672$ \$878,548\$854,528Rate earned on $970$ $970$ $970$			\$ 	S	
Capital purchases	Total cash incomeb	253,834	263,351		261,523
Livestock inventory       119,491       \$ 106,712       \$ 106,712         Grain inventory       74,253       69,595       65,372         Remaining capital cost in:       40,523       36,556       35,431         Buildings and fence       50,108       57,152       60,727         Soil fertility       895       970       392         Value of land (current basis)       642,402       607,563       586,482         Total farm investment       927,672       \$ 878,548       \$ 854,528	Capital purchases		\$	\$	80,275 22,146
Machinery and auto         40,523         36,556         35,431           Buildings and fence         50,108         57,152         60,727         392           Value of land (current basis)	Livestock inventory\$ Grain inventory		\$	\$	
Buildings and fence         50,108         57,152         60,727           Soil fertility         895         970         392           Value of land (current basis)	Remaining capital cost in: Machinery and auto	40.523	36.556		35.431
basis)         642,402         607,563         586,482           Total farm investment         927,672         \$ 878,548         \$ 854,528           Rate earned on         927,672         \$ 878,548         \$ 854,528	Buildings and fence	50,108	57,152		60,727
Total farm investment\$ 927,672         \$ 878,548         \$ 854,528           Rate earned on         \$ \$ 878,548         \$ \$ 854,528		642,402	607,563		586,482
	Total farm investment\$		\$ 	\$	854,528
		4.14	8.22		7.09

<sup>a</sup> Interest expense deducted from operator's share only. <sup>b</sup> Includes sales or purchases of capital items.

percent. The 5-year average rate earned on investment was 7.09 percent. Although the 1991 rate earned on investment dropped considerably compared to 1990, it was still the second highest for any type of farm in central and northern Illinois. The average price received for milk in 1991 was 15 percent lower than the average price received in 1990 and the lowest since 1979. Although milk prices were at very low levels during the early part of 1991, they did rebound upward toward the end of the year as producers culled their herds more extensively. Returns to dairy producers may increase somewhat in 1992 as milk prices are expected to average a little higher than in 1991. However, dairy producers may face higher feed costs due to a short supply of hay and other roughages.

The price received for beef from all cull animals and vealers sold from the dairy herd can be an important factor in determining total returns. When beef prices were high, those sales accounted for as much as 20 percent of the total income from the dairy enterprise. But when the beef prices are low, this source of income is only 10 to 12 percent of the total. In 1991, the returns from beef accounted for 15 percent of the total returns to the dairy herd, in comparison with 17 percent in 1990.

## Southern Illinois farms

Grain farms. The net farm income for southern Illinois grain farms having 340 to 799 acres averaged \$47,618 in 1991, with the landlord's and operator's shares combined (Table 8). This income is \$3,241 below net farm income in 1990 and \$8,928 below the average from 1987 through 1991. Higher soybean yields were offset by lower corn and wheat yields, causing the value of production to drop \$3,334, or 3 percent in 1991 compared to 1990. The value of production was the lowest of any in the last five years. Corn yields were 12 bushels per acre lower and wheat yields were 12 bushels per acre lower in 1991 compared to 1990. Farm operating expenses increased slightly while depreciation expenses dropped \$1,029. The cash balance of \$46,986 was the lowest since 1984.

Capital purchases were \$12,094 in 1991, \$2,961 less than 1990 and \$1,040 below the 5-year average for 1987 through 1991. After 2 years of increased capital purchases, they declined mainly as a result of lower earnings. Capital purchases in 1991 equaled \$20 per tillable acre compared to \$43 per tillable acre in 1981.

Management returns for these farms of a *negative* \$9,408 were the lowest since 1986. The 5-year average from 1987 through 1991 for management returns was \$1,303. The rate earned on investment decreased in 1991 to 3.96 percent; in 1990, this rate was 4.65 percent. This was the lowest rate earned on investment for any type of farm in southern Illinois. The average rate earned on investment for the period from 1987 through 1991 was 5.73 percent and below the average rates for any other types of farms in southern Illinois.

Hog farms. The net farm income for southern Illinois hog farms having 340 to 799 acres averaged \$55,192 in 1991, with the landlord's and operator's shares combined (Table 8). This income was \$33,458 lower than net farm income in 1990 and \$20,875 lower than the average net farm income of \$76,067 earned from 1987 through 1991. Lower hog prices and lower corn and wheat yields were the main factors in the decrease in earnings. The value of farm production was down \$40,427, or 20 percent, in 1991 compared to 1990.

Management returns for 1991 were a *negative* \$8,891, compared to \$22,512 in 1990 and \$10,170 for the 5-year period from 1987 through 1991.

#### Table 8. Averages for Selected Total Farm Items on 340- to 799-Acre Southern Illinois Grain, Hog, and Dairy Farms

	Grain farms				Hog farms		Dairy farms			
-	1991	1990	1987-1991 average	1991	1990	1987-1991 average	1991	1990	1987-1991 average	
Number of farms	224	254	259	83	82	86	39	39	44	
Total acres Soil-productivity rating	591 60	579 60	582 60	559 58	548 59	551 59	525 59	528 59	514 59	
Cash operating income	• • • • • • •	\$138,015	\$141,894	\$247,854	\$276,435	\$265,302	\$306,596	\$322,027	\$296,173	
Less purchased feed and livestock	9,088	9,977	13,491	74,472	87,313	82,960	73,217	67,016	63,472	
Net cash operating income Accounts receivable	\$123,535	\$128,038	\$128,403	\$173,382	\$189,122	\$182,342	\$233,379	\$255,011	\$232,701	
change Inventory change Farm products used	-85 482 673	52 –1,408 1,257	-213 3,249 866	-161 -14,759 845	284 9,489 839	-127 2,737 904	-125 3,228 1,957	41 4,700 3,400	67 9,809 2,263	
Value of farm production Total cash operating	\$124,605	\$127,939	\$132,305	\$159,307	\$199,734	\$185,856	\$238,439	\$263,152	\$244,840	
expenses Prepaid-unpaid	66,319	65,986	63,975	88,382	94,308	89,382	123,924	121,188	111,301	
change	545	-58	-385	-142	-1,296	-778	1,836	-690	-563	
Annual depreciation	10,123	11,152	12,169	15,875	18,072	21,185	22,688	25,630	25,898	
Net farm income	\$ 47,618	\$ 50,859	\$ 56,546	\$ 55,192	\$ 88,650	\$ 76,067	\$ 89,991	\$117,024	\$108,204	
(Operator's share) <sup>a</sup> Unpaid labor charge Returns to capital	(14,246) 17,418	(16,979) 16,776	(23,129) 16,306	(21,770) 19,816	(52,582) 18,571	(40,371) 18,387	(55,246) 26,465	(82,210) 24,871	(74,328) 23,833	
and management Interest charge on	30,200	34,083	40,240	35,376	70,079	57,680	63,526	92,153	84,371	
capital	39,608	39,304	38,937	44,267	47,567	47,510	57,693	56,612	54,168	
Management returns	\$ -9,408	\$ -5,221	\$ 1,303	\$ -8,891	\$ 22,512	\$ 10,170	\$ 5,833	\$ 35,541	\$ 30,203	
Total cash income <sup>b</sup> Total cash	133,939	139,252	142,998	248,187	277,387	266,649	306,930	322,387	296,545	
expenditures <sup>b</sup>	86,953	89,897	89,891	180,481	206,760	194,830	216,025	223,810	199,788	
Cash balance Capital purchases	\$ 46,986 12,094	\$ 49,355 15,055	\$ 53,107 13,134	\$ 67,706 18,100	\$ 70,627 25,466	\$ 71,819 22,978	\$ 90,905 20,094	\$ 98,577 37,968	\$ 96,757 26,434	
FARM INVESTMENT Livestock inventory Grain inventory	\$ 11,457 66,843	\$ 13,127 65,622	\$ 13,547 63,654	\$ 75,412 63,245	\$81,333 68,425	\$ 78,665 65,423	\$157,724 66,966	\$129,286 71,518	\$125,474 64,347	
Remaining capital cost in: Machinery and auto Buildings and fence Soil fertility	26,152 7,446 57	22,832 8,138 31	21,614 9,569 57	29,721 23,269 61	26,110 27,750 81	28,113 33,185 48	61,839 33,864 0	50,366 31,541 0	46,461 32,473 0	
Value of land (current basis)	650,945	623,279	594,023	566,733	568,479	540,853	572,338	561,949	522,924	
Total farm investment	\$762,900	\$733,029	\$702,464	\$758,441	\$772,178	\$746,287	\$892,731	\$844,660	\$791,679	
Rate earned on investment, percent	3.96	4.65	5.73	4.66	9.08	7.73	7.12	10.91	10.66	

<sup>a</sup> Interest expense deducted from operator's share only.
<sup>b</sup> Includes sales or purchases of capital items.

Management returns were at their lowest level since 1985. Capital purchases were \$18,100 in 1991, \$7,366 lower than 1990 and \$4,878 lower than the 1987 through 1991 average. Cash operating expenses de-

creased \$5,926, or 6 percent; depreciation decreased \$2,197 and was at its lowest level in recent years. As with central and northern Illinois hog farms, the rate earned on investment by southern Illinois hog farms decreased significantly. In 1991, the rate decreased to 4.66 percent from 9.08 percent in 1990. The average rate earned on investment for the period

from 1987 through 1991 was 7.73 percent. The rate

earned on investment in this 5-year period for this type of farm was the second highest of any type of participating farm in Illinois. The 1991 rate earned on investment was the second highest of any type of farm.

**Dairy farms.** The net farm income in 1991 for southern Illinois dairy farms having 340 to 799 acres averaged \$89,991, with the operator's and landlord's shares combined (Table 8). This figure is \$27,033 below the net farm income earned in 1990 and \$18,213 below the average for the period from 1987 through 1991. This net farm income was the highest earned by any type of participating farm of this size in Illinois in 1991. Lower milk prices and lower grain yields caused the value of farm production to decrease by \$21,632 in 1991 compared to 1990. However, the 1991 value of farm production was still the third highest for any year in the last decade. Net cash operating income decreased by \$24,713 in 1991 compared to 1990, while the value of grain and livestock inventories increased by \$3,228. Cash operating expenses increased \$2,736.

Capital purchases of \$20,094 were \$17,874 below 1990 capital purchases and \$6,340 below the average capital purchases for 1987 through 1991.

Management returns for this type of farm were \$5,833 in 1991; these returns were \$35,541 in 1990. The 5-year average from 1987 through 1991 was \$30,203. This was the only type of farm in 1991 that had positive management returns. The rate earned on investment of 7.12 percent was the highest in the state for this size of participating farm. The average rate earned on investment in 1990 was 10.91 percent, and the 5-year average from 1987 through 1991 was 10.66 percent. The average rate earned on investment by these southern Illinois dairy farms from 1987 through 1991 was the highest of any type of participating farm with 340 to 799 acres in Illinois. In 1991, the average value of bare land on these farms was \$1,192 per tillable acre. On northern Illinois dairy farms, this value was \$1,598 per tillable acre.

The average number of milk cows per farm in 1991 was 96, compared with 93 in 1990, and 90, the past 5-year average. The average of 96 cows in 1991 was 26 more than the average on farms of similar size and type in northern Illinois. In 1991, southern Illinois farms increased the size of their herds by 3 cows over the 1990 herd size, while northern Illinois farms also increased theirs by 2.

## LIVESTOCK ENTERPRISES

The return 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. Fifteenyear and 5-year averages are also shown. The difference between the average return figure and a feed cost of \$100 represents the margin available for labor, depreciation on equipment, cash expenses other than feed, 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 1977 through 1991 represent the approximate level of return at which farmers have been willing to maintain livestock production. The average may not represent a break-even 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

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

 Classes of Livestock

Year	Farrow- to-finish hogs	Feeder- pig finishing	Feeder- pig produc- tion	Feeder cattle bought	Dairy cow herds	Beef cow herds	Native sheep raised	Yearly price of corn
				doli	ars			
1977 1978 1979 1980 1981	208 136 138	134 151 107 122 115	182 255 194 153 174	116 170 149 111 107	181 217 220 207 200	107 199 183 144 100	144 159 148 131 84	2.07 2.13 2.44 2.80 2.98
1982 1983 1984 1985 1986	141 155 166	165 118 140 129 178	237 163 170 170 254	147 134 141 121 149	205 178 188 202 210	115 115 105 101 125	83 78 102 130 156	2.43 3.06 3.12 2.54 2.01
1987 1988 1989 1990 1991	152 162 206	168 127 141 165 128	232 158 167 247 199	196 150 145 162 109	237 198 209 220 188	168 150 144 165 129	141 115 96 98 64	1.61 2.32 2.48 2.44 2.41
Averages 1977-1991 1977-1981 1982-1986 1987-1991	172 158 178 181	139 126 146 146	197 192 199 201	140 131 138 152	204 205 197 210	137 147 112 151	115 133 110 103	2.46 2.48 2.63 2.25

for livestock, they only need to cover direct operating costs in order to continue production. However, when they view livestock production as a new or a longterm enterprise, they hope to cover all costs, both fixed and variable. Otherwise they may not undertake the enterprise.

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 one or 2 years and then drop below this average for one or 2 years. Returns per \$100 feed fed of \$168 in 1991 were slightly below the last 5-year average of \$172.

The returns from feeder cattle vary greatly from year to year. The long-run averages shown in Table 10 indicate that the cattle-feeding business has not been paying average market rates for all resources used by the enterprise. However, the return of \$152 per \$100 feed fed for the most recent 5-year period (1987-91) was above returns for the two previous 5year periods and the 15-year average of \$140 (Table 9). 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 15year period in the beef-cattle industry is difficult because this industry is more complex and adjusts more slowly than other livestock enterprises.

The returns above feed costs for dairy enterprises of \$1,064 per cow in 1991 were \$193 below the 5year average of \$1,257 (Table 10). These returns indicate that the average dairy enterprise has covered the total estimated cost of production of \$1,065 per cow from 1987 through 1991.

For the beef-herd enterprise, the average returns

#### Table 10. Variation in Returns to Livestock Enterprise Units, 1987 Through 1991

	Farrow- to-finish hogs (per cwt)	Feeder- pig finishing (per cwt)	Feeder cattle (per cwt)	Dairy cattle (per cow)	Beef herd (per cow) <sup>a</sup>
	,		,		(011)
Returns above c	ost of fee	ed and pur	chased a	nimals	
1987		\$13.28	\$30.47	\$1.301	\$212
1988		6.63	20.56	1,116	196
1989		10.20	18.66	1,334	170
1000	27.15	15.79	25.74	1.471	230
1990	27.10				
1991	17.07	6.80	3.97	1,064	106
Five-year					
average	\$20.13	\$10.54	\$19.88	\$1,257	\$183
Nonfeed costs,		iah 1991			
Direct cash		\$ 4.20°	\$12.80°	\$ 420°	\$ 30°
		0 4.20 6.50°	11.30°	φ <del>4</del> 20 645°	175°
Other costs		0.50*	11.30*	045	
Total	\$16.95	\$10.70	\$24.10	\$1,065	\$205
Nonfeed cost for	r future p	roduction			
Direct cash		\$ 4.35 <sup>d</sup>	\$13.00 <sup>d</sup>	\$ 440	\$ 30
Other costs	· · · · · · · · · · · · · · · · · · ·	7.00	15.00	800	200
Total	\$22.75	\$11.35	\$28.00	\$1,240	\$230

<sup>a</sup> The feed cost for beef herds includes up to \$60 of hay equivalent from salvage roughage. <sup>b</sup> Estimates of annual nonfeed costs are based on enterprise cost studies of operative

units from 1987 to 1991.

Includes veterinary costs, utilities, fuel, equipment repair costs, and depreciation, from Table 6 in the Farm Management Manuels from 1987 to 1991.
 Includes interest on purchase cost: one-third year for feeder-pig finishing, and one-includes interest on purchase cost: one-third year for feeder-pig finishing, and one-

half year for feeder cattle.

above the cost of feed for the period from 1987 through 1991 provided a margin over cash costs, but fell short of the return needed to cover all 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. In the beefcow enterprise, returns above the cost of feed per cow averaged \$183 during the last 5 years. The 1991 returns of \$106 were \$99 below the total costs, estimated at \$205 per cow. The 1991 returns to the beef-cow enterprise were the lowest since returns in the 1986 marketing year.

Raising livestock has become more competitive. Average profit margins are narrow. Fewer farmers are willing to stay in business because returns in some enterprises barely cover direct operating costs. Plans for expansion that require large investments for new facilities should be based on an estimated return that is high enough to cover all costs. Fluctuations in livestock returns can involve a risk in low-return years. The estimated nonfeed cost for future livestock production is also shown in Table 10.

## Hog enterprises

The information on farrow-to-finish enterprises in Table 11 is based on a sample of 618 enterprises farrowing 10 litters or more per year. Farms were omitted from the sample if the number of hogs purchased exceeded 10 percent of the pigs weaned. This procedure eliminated from the sample those farms with combined farrowing and feeder-pig op-

#### Table 11. Hog Enterprises, 1991 Averages per Farm

		,		<u> </u>		
		Farrow ente	r-to-fini rprises			
-			litte	r more ers	Fee pi	g
	All	farms	per	farm	produ	iction
Number of farms		618		110		21
Pork produced, pound Pork produced per	4	28,466	1,	118,903		93,928
litter, pound		1,862		1,858		530
Total returns	\$1	85,877	\$4	497,441	\$	65,455
Value of feed fed		10,163	\$	278,598	\$	32,732
Returns per \$100 of						·
feed fed Number of litters	\$	168	\$	178	\$	199
farrowed Pigs farrowed		230		602		177
per litter		9.57		9.73		9.87
Pigs weaned per litter Litters farrowed per		8.00		8.26		7.90
female year Pigs weaned per		1.91		2.05		2.12
female year Number of pigs		15.52		17.27		16.72
weaned Death loss, percent of		1,840		4,973		1,398
pounds produced Weight per hog		1.9		1.8		2.1
sold, pound		247		242		48ª
		-	00 po	unds pro	oduced	
Price received	\$	48.52	\$	49.43	\$	90.59ª
Total return Feed cost	\$ \$	43.38 25.71	\$ \$	44.45 24.90	\$ \$	69.68 34.85
Return above feed	\$	17.67	\$	19.55	\$	34.83
Farm grains, pound Commercial feed,		294		288		285
pound		_86		86		<u>116</u>
Total concentrates, pound		380		374		401
Cost per 100 pounds of commercial feed	\$	14.98	\$	14.38	\$	19.38
Cost per 100 pounds of concentrates	\$	6.74	\$	6.64	\$	8.65

<sup>a</sup> The average weight sold and price received for the feeder-pig production enterprise is for feeder pigs only.

erations. (Information on feeder-pig finishing enterprises is given in Table 13.) The average size of farrow-to-finish enterprises on all recordkeeping farms was 230 litters in 1991. The 1991 records summarized here for the "all farms" group show that returns of \$17.67 above feed costs per 100 pounds of pork produced were \$9.48 below the 1990 return of \$27.15.

The 5-year average for returns above feed costs per 100 pounds produced was \$20.13 (Table 10). Even the 5-year average can vary significantly because of the wide fluctuations in returns from year to year. Detailed cost records show that an average farmer with existing facilities needed a return above feed costs of \$16.95 per 100 pounds to pay for all nonfeed costs during the past 5 years. The return above all costs during this 5-year period of \$3.18 (\$20.13 minus \$16.95) may still not be large enough to make a majority of farmers or lenders feel comfortable about expanding production with borrowed capital.

Table 12. Average Costs and Returns	for Farrow-to-Finish Hog Enterprises b	y Size of Enterprise, 1989 Through 1991
		· · · · · · · · · · · · · · · · · · ·

	ι	Jnder 250 litte	rs	25	250 litters or more			
	1991	1990	1989	1991	1990	1989		
Number of farms	52	48	58	101	89	126		
Tillable acres Number of litters	255 155	231 138	243 145	564 495	607 475	513 439		
			per 100 pounds	of pork produced				
Total returns	\$ 42.88	\$ 53.55	\$ 43.13	\$ 44.46	\$ 53.81	\$ 44.43		
Cash costs Feed	\$ 26.61	\$ 28.30	\$ 28.62	\$ 25.02	\$ 25.46	\$ 26.36		
Operating expenses: Maintenance and power <sup>a</sup> Livestock expenses Insurance, taxes, and overhead	3.80 1.99 1.05	4.16 2.22 .97	3.20 1.66 .97	3.96 2.24 1.02	4.24 2.16 1.02	3.58 1.86 1.01		
Total operating expenses Total cash costs	\$ 6.84 \$ 33.45	\$7.35 \$35.65	\$5.83 \$34.45	\$ 7.22 \$ 32.24	\$ 7.42 \$ 32.88	\$ 6.45 \$ 32.81		
Other costs Depreciation <sup>b</sup> Labor Interest charge on all capital	\$ 1.84 4.33 3.20	\$ 2.52 4.37 3.64	\$ 2.16 3.74 3.49	\$ 2.34 4.28 3.25	\$ 2.68 3.70 3.55	\$ 2.58 3.62 3.61		
Total other costs	\$ 9.37	\$ 10.53	\$ 9.39	\$ 9.87	\$ 9.93	\$ 9.81		
Total nonfeed costs Total all costs Return above all costs	\$ 16.21 \$ 42.82 \$ .06	\$ 17.88 \$ 46.18 \$ 7.37	\$ 15.22 \$ 43.84 \$71	\$ 17.09 \$ 42.11 \$ 2.35	\$ 17.35 \$ 42.81 \$ 11.00	\$ 16.26 \$ 42.62 \$ 1.81		

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

The farrow-to-finish enterprise records for 1991 reported in Table 11 were also sorted by the number of litters produced. One group farrowing 350 or more litters averaged 602 litters. Compared with the average feed cost for all farrow-to-finish enterprises, the feed cost per 100 pounds of pork produced was 81 cents lower for the 602-litter group. The large producers paid \$12.00 less per ton for commercial feed and had slightly better feed conversion. The prices received for hogs sold by large producers or the net at the farm was 91 cents higher than the net received by all producers.

A summary of the feeder-pig production enterprises is also reported in Table 11. In 1991, the average enterprise in this group produced 177 litters with a return of \$199 per \$100 of feed fed. On an average, 7.9 pigs per litter were weaned and sold at 48 pounds per head. The 1991 average price received per 100 pounds of feeder pigs sold was \$90.59 or \$43.48 per head. The average feed cost per 100 pounds of pork produced (pigs and breeding stock) was \$34.83 for 401 pounds of concentrate.

A substantial profit margin is required to compensate for the risk and detailed management involved in hog production in comparison with the risk and management involved in other uses of the same resources. Large-scale hog production in modern confinement facilities requires high capital investments. The future recovery of this specialized capital investment is uncertain, and the salvage value of confinement hog facilities is low. In addition, acquiring the managerial skills necessary for the large-scale production of hogs in confinement may discourage any rapid expansion of large hog-producing units. However, the level of profits in recent years has resulted in an increase in production. Pork production for 1992 is projected to be at record levels. Although improvements in production efficiency and some increase in consumer demand have helped offset lower prices due to increased production, future returns will depend to a great extent on whether producers continue to increase production or liquidate some of the breeding herd.

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 1989, 1990, and 1991. The value of the feed fed to hogs was more than 75 percent of the crop returns produced on these farms. This intensity of livestock feeding indicates a commitment of major resources to the hog enterprise. The producers in this group probably exercise a higher level of management and use more confinement production facilities than the average hog producer in Illinois.

The hog enterprise records summarized in Table 12 were sorted by the number of litters produced. The group farrowing fewer than 250 litters averaged 146 litters from 1989 to 1991; the group farrowing 250 or more litters averaged 470 litters during the same period.

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.

Table 13.	<b>Feeder-Cattle</b>	and Feeder-P	ig Finishing
	Enterprises, 1	991 Averages	per Farm

	Feeder cattle	Feeder-pig finishing
Number of farms	214	172
Total pounds produced Total returns Value of feed fed Returns per \$100 of feed fed Death loss, percent of	157,566 \$ 70,934 \$ 64,675 \$ 109	162,282 \$ 49,704 \$ 38,674 \$ 128
pounds produced Average weight purchased Price paid per 100 pounds Price received per 100 pounds Average weight sold	2.0 661 \$ 85.94 \$ 72.55 1,161	2.1 50 \$ 97.33 \$ 48.42 244
	per 100 pound	ds produced
Total returns Feed cost Return above feed	\$ 45.02 \$ 41.05 \$ 3.97	\$ 30.63 \$ 23.83 \$ 6.80
Farm grains, pound Commercial feeds, pound	605 45 650	286 80 266
Total concentrates, pound Hay, pound Corn silage, pound Other silage, pound Hay equivalent, pound	650 63 479 105 268	366 ª ª ª

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

As reported in Table 12, cash costs of production in 1991 ranged from \$32.24 to \$33.45 per 100 pounds of pork produced, depending on the grouping size. Feed is included as a cash cost although for most producers a major share of the grain is raised on the farm. The readily available alternative cash market for grain makes the 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. A one-person farm does not hire much labor, whereas a major share of the labor will be hired on a four-person farm.

Most categories of nonfeed costs decreased somewhat for both groups of enterprises in 1991. Total nonfeed costs decreased \$1.67 per 100 pounds of pork produced (9 percent) for the small enterprises and 26 cents (1 percent) for the large enterprises from 1990 to 1991. For the small group, both total operating expenses and total other costs decreased while the decrease for the large group was primarily in the operating expense category. With slightly lower feed costs, the total cost of production decreased from 1990 to 1991 by \$3.36 per 100 pounds of pork produced for the group of small enterprises as compared to a decrease of only 70 cents for the large enterprise group.

The most significant cost difference between the two groups of farms was the feed cost. The average feed cost for 1989, 1990, and 1991 per 100 pounds of pork produced for the large enterprises was \$2.23 lower than it was for the small enterprises. This difference in feed cost was an average of about \$21,000 per farm with the larger enterprises. Differences in the amount of feed used per 100 pounds of pork produced and the price paid for commercial feeds caused this difference in feed costs.

From 1989 through 1991, the returns above all costs averaged \$2.24 per 100 pounds of pork produced for the small enterprises and \$5.05 for the large enterprises—a difference of \$2.81. Management practices, such as the choice of building systems, method of transporting hogs to market, type of market used, and on- versus off-farm systems for feedprocessing affect the individual cost items reported in Table 12. But the return above all costs should accurately reflect the relative efficiency of the two groups of hog enterprises.

# Feeder-cattle and feeder-pig finishing enterprises

Data for 1991 on the feeder-cattle and feederpig 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 162,282 pounds in 1991 (Table 13). At 175 pounds of gain per head, this figure amounted to 927 head fed per farm in 1991, up from the 899 head fed per farm in 1990.

The return above the cost of feed and purchased animals from 1987 through 1991 averaged \$10.54 per 100 pounds of gain. This return was 16 cents below the \$10.70 of all nonfeed costs for the past 5 years. It is also below the estimated \$11.35 required to cover all costs for future production (Table 10).

Given that a 475-pound unit of gain equals one head of feeder cattle, the average of 157,566 pounds of beef produced per farm in 1991 (Table 13) equals 332 head of feeder cattle per farm. That figure is an increase of 5 from the average of 327 head fed per farm in 1990. The return per \$100 of feed for feeder-cattle enterprises was \$109 in 1991 in comparison with a 5-year average of \$152 and a 15-year average of \$140 (Table 9). This was the lowest return per \$100 feed fed since 1981, when it was \$107.

The price paid for feeders was 52 cents per 100 pounds higher in 1991 than it was in 1990; the price received for cattle sold in 1991 was \$3.85 lower per 100 pounds than the price received in 1990. The average weight of purchased animals was 661 pounds; the average weight of animals sold was 1,161 pounds. Feed cost was \$41.05 per 100 pounds produced in 1991; it was \$41.03 in 1990.

Each 100 pounds of beef produced required 650 pounds of concentrates and 63 pounds of hay. The amount of corn silage used in 1991 averaged 479 pounds; other silage averaged 105 pounds, making a total of 584 pounds. Silage utilization by the feeder-

	1991	1990	1989	1988	1988-1991 average
Number of farms	34	36	40	41	38
Tillable acres	571	610	583	527	573
Hundredweight_beef produced	3,069	3,585	3,446	2,845	3,236
Number head @ 475-pound gain equivalents	646	755	725	599	681
Average weight purchased, pound	665	654	658	655	658
Average weight sold, pound	1,180	1,133	1,140	1,127	1,145
Price received per 100 pounds sold	\$ 72.66	\$ 76.77	\$ 72.32	\$ 68.76	\$ 72.63
Price paid per 100 pounds purchased	\$88.11	\$ 86.65	\$ 83.35	\$ 81.04	\$ 84.79
		per 100	pounds of beef pro	oduced	
Cash costs	¢ 41 17	¢ 40.00	¢ 20.67	¢ 40.46	¢ 40.95
Feed <sup>a</sup>	\$ 41.17	\$ 40.09	\$ 39.67	\$ 40.46	\$ 40.35
Operating expenses: Maintenance and power <sup>b</sup>	3.81	3.71	3.44	3.67	3.66
Livestock expense	2.32	2.25	2.60	2.80	2.49
	1.30	1.18	1.32	1.12	1.23
Insurance, taxes, and overhead Interest on cattle <sup>c</sup>	7.46	8.47	9.06	7.69	8.17
Total operating expense	\$ 14.89	\$ 15.61	\$ 16.42	\$ 15.28	\$ 15.55
Total cash costs	\$ 56.06	\$ 55.70	\$ 56.09	\$ 55.74	\$ 55.90
Other costs					
Depreciation <sup>d</sup>	\$ 3.76	\$ 4.05	\$ 4.07	\$ 3.68	\$ 3.89
Labor	2.61	2.20	2.31	1.95	2.27
Interest on other capital	2.44	2.65	2.54	, 1.53	2.29
Total other costs	\$ 8.81	\$ 8.90	\$ 8.92	\$ 7.16	\$ 8.45
Total all costs	\$ 64.87	\$ 64.60	\$ 65.01	\$ 62.90	\$ 64.35
Total returns <sup>a</sup>	\$ 45.65	\$ 67.23	\$ 58.60	\$ 58.78	\$ 57.57
Return above all costs	\$-19.22	\$ 2.63	\$ -6.41	\$ -4.12	\$ -6.78

<sup>a</sup> All 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. <sup>b</sup> Includes utilities, machinery, equipment and building repairs, machine hire, and fuel. <sup>c</sup> Interest is a charge on the average value of beginning- and end-of-year inventories on hand. The rate was 10 percent for 1988, 11 percent for 1989, 10 percent for 1990, and 9 percent for 1001

<sup>d</sup> Includes machinery, equipment, and building depreciation.
 <sup>9</sup> Sales 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.

cattle enterprise has decreased the last 5 years since the 10-year average for the period from 1977 through 1986 reached 906 pounds per 100 pounds of beef produced. The use of 584 pounds per 100 pounds of beef produced in 1991 was the smallest amount fed since 1963. The high initial investment required for many silage feeding operations and a slowdown in capital purchases may denote more reliance on higher concentrate and dry roughage facilities.

These data do not show the wide variation in profits among cattle-feeding programs. The data in Tables 9, 10, and 13 on Illinois feeder-cattle enterprises 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 now 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 \$19.88 per 100 pounds of beef produced from 1987 through 1991 (Table 10). During this period, returns ranged from \$3.97 in 1991, to \$30.47 in 1987. The returns above feed costs have remained below the estimated costs required to pay for all nonfeed costs for the average cattle feeder in 3 of the last 5 years. The 1987 returns above feed cost of \$30.47 were record high, at least for the

period since 1964. The 1991 returns were the lowest since 1981.

The data in Table 14 on feeder-cattle enterprises show a detailed breakdown for the period from 1988 through 1991 on cost and returns to produce beef on beef-feeding farms. The farms included had no other livestock. All costs were accounted for either in crops or in the beef-feeding enterprise. The figure for feed costs is based on the assumption that all the grain and roughage fed was produced on the farm and was marketable.

The data show that these farms were finishing an average of 681 feeders each year from 1988 through 1991. The 4-year average total cash cost including feed and interest charged on cattle was \$55.90 per 100 pounds of beef produced. The average total return of \$57.57 for the same period exceeded total cash costs by \$1.67 per 100 pounds produced, or about \$10 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 invested in cattle without paying interest. Other costs of \$8.45 per 100 pounds of beef produced or \$40 per feeder (\$8.45 multiplied by 4.75 hundredweight of gain per feeder) include depreciation, labor, and interest. Adding the

other costs to cash costs results in total costs of \$64.35 per hundredweight over the 4-year period.

A number of cattle feeders in Illinois apparently will feed cattle if their return covers feed and cash costs but is short of paying market rates for some nonmarketable roughage, and fixed and overhead costs. But this number is expected to decline.

Farmer's values, goals, and attitudes have been important in maintaining production; but the dictates of the market, technological changes, and shifts in the basic factors of supply and demand continue to cause changes. The return reflected in these averages for the feeder-cattle enterprise suggests that to be profitable, farmers must produce the kind of beef the consumer wants 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 the building of new facilities.

### **Dairy enterprises**

The minimum size for a herd included in this analysis was 10 milk cows. The average herd size on recordkeeping farms increased steadily at an average of 1.8 cows per year from 42 in 1970 to 63 in 1982. The herd size has remained steady, between 63 and 69 cows, since 1982.

The return per \$100 of feed fed to dairy cattle in 1991 was \$188. The average for the period from 1987 through 1991 was \$210 (Table 9). In 1991, milk prices per hundredweight decreased 15 percent from 1990 and 10 percent from 1989. Milk prices increased an annual average rate of 8 percent for 1989 and 1990. From 1990 to 1991, beef prices for all weights sold decreased \$3.37 per hundred pounds, while feed costs increased \$1.43 per unit of milk or beef produced.

Dairy farmers have reduced the amount of pasture and dry hay and have 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 6 in 1991. This shift indicates that significant pasture days are a thing of the past on nearly all dairy farms in this sample.

The dairy herds in Table 15 were subdivided into two groups according to their efficiency as measured by returns above the cost of feed per cow. In comparison with the low-efficiency group, the highefficiency group had more cows in the herd, and 91 percent higher returns above feed per cow. Returns above feed per cow for the high-efficiency group were \$1,385 and \$724 for the low-efficiency group. For the high-efficiency group, two factors were most significant: 20 percent higher milk production per cow an average of 18,023 pounds, compared with an average of 15,011 pounds for the low-efficiency group—and a 19 percent lower feed cost per unit of milk and beef produced.

The average return above feed costs per cow for all dairy herds was \$1,064 in 1991 (Table 15). This figure compares with the 5-year average of \$1,257 per cow (Table 10). The 5-year average return above feed cost required to pay market prices for all nonfeed costs is estimated to be about \$1,065 per cow. The estimated return above feed costs currently required to attract new investments for dairy herds is about \$1,240 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.

#### Table 15. Dairy Cattle Enterprises, 1991 Averages per Farm

		All -	Efficiency					
	f	arms			Highª			Low <sup>b</sup>
Number of farms		165	_		54			56
Number of cows Milk cows dry, percent Animal units in herd		66.3 13.4 129			71.3 12.7 139			61.0 14.0 118
Total returns Value of feed fed Returns per \$100 of		50,707 80,136			84,923 86,122		\$1 \$	20,491 76,294
feed fed Returns above feed	\$	188		\$	214		\$	157
per cow Total milk produced,	\$	1,064	:	\$	1,385		\$	724
100 pounds Pounds of milk		10,976			12,851			9,157
per cow Pounds of butterfat		16,555			18,023			15,011
per cow Total beef produced,		604			652			552
pound Pounds of beef		42,973			51,299			37,112
per cow Death loss, percent of		648			719			608
pounds produced Price received for:		10.4			6.9			13.0
100 pounds of milk 100 pounds of beef Per unit of milk and beef: <sup>c</sup>	\$ \$	11.70 59.45	:	\$	11.95 59.93		\$ \$	11.46 58.99
Feed cost Grain, pound Protein and	\$	52.46 328	:	\$	47.89 297		\$	59.28 375
minerals, pound		<u>104</u>			104			<u>113</u>
Total concentrates, pound Hay and dry		432			401			488
roughage, pound Corn silage, pound Other silage, pound		326 480 419			312 375 421			352 610 435
Pasture days Pasture days per animal unit		ª			· · · · 7			 8
Hay equivalent per cow, tons		7.9			, 8.0			8.1
Concentrates per cow, pound		9,951			10,110			10,292

High one-third return above feed per cow exceeds 1,200.

Low one-third return above feed per cow is below 930.
 1,000 pounds of milk or 100 pounds of beef.

<sup>d</sup> No significant pasture use.

	40 1	to 79 cows in I	nerd	80 or r	nore cows in h	nerd
	1991	1990	1989	1991	1990	1989
Number of farms	80	102	101	59	57	53
Tillable acres Number of cows Milk per cow, pound	259 57.6 16,789	295 57.3 16,625	269 59.5 16,488	522 107.9 17,056	468 108.4 17,012	474 110.7 16,512
		ре	r 100 pounds of	milk produced		
Price received	\$ 11.82	\$ 13.87	\$ 13.09	\$ 11.90	\$ 14.03	\$ 13.11
Cash costs Feed Operating expenses:	\$ 6.23	\$ 6.38	\$ 6.28	\$ 6.02	\$ 6.14	\$ 6.10
Maintenance and power <sup>a</sup> Livestock expense Insurance, taxes, and overhead	1.17 1.13 26	1.42 1.11 28	1.36 1.04 .26	1.35 1.13 26	1.51 1.11 .23	1.30 .95 22
Total operating expenses Total cash costs	\$ 2.56 \$ 8.79	\$ 2.81 \$ 9.19	\$ 2.66 \$ 8.94	\$ 2.74 \$ 8.76	\$ 2.85 \$ 8.99	\$ 2.47 \$ 8.57
Other costs Depreciation <sup>b</sup> Labor Interest charge on all capital	\$.61 1.59 1.34	\$.82 1.81 1.56	\$.77 1.77 1.52	\$ .67 1.49 1.30	\$.76 1.50 1.49	\$.76 1.49 1.49
Total other costs	\$ 3.54	\$ 4.19	\$ 4.06	\$ 3.46	\$ 3.75	\$ 3.74
Total nonfeed costs	\$ 6.10	\$ 7.00	\$ 6.72	\$ 6.20	\$ 6.60	\$ 6.21
Total all costs	\$ 12.33	\$ 13.38	\$ 13.00	\$ 12.22	\$ 12.74	\$ 12.31
Return above all costs	\$51	\$.49	\$.09	\$32	\$ 1.29	\$.80

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

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 in the period from 1989 through 1991. 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 from sales, which was valued at the average price received for all weights of dairy animals sold from 1987 through 1991. The residual costs, amounting to 85 percent of the total enterprise costs, were then considered as the net cost of producing milk.

The differences between the herds containing 40 to 79 cows and those containing 80 or more cows for the period from 1989 through 1991 appear to be narrowing. This is probably due to the smaller, lower-efficiency herds exiting the dairy enterprise. For the 3-year period, the milk price for the larger herds averaged only 8 cents higher, while total nonfeed costs per 100 pounds of milk sold were 27 cents lower. The major cost difference was 23 cents less for labor on the large farms.

In 1991, feed costs per 100 pounds of milk produced decreased slightly for both groups. The cost of feed averaged about 50 percent of total production costs in Illinois dairy enterprises. Total nonfeed costs decreased by 12.9 and 6.1 percent, respectively, for the small and large dairy herds when compared with costs in 1990. The total cost of producing 100 pounds of milk in 1991 was \$12.33 for the small herds and \$12.22 for the large herds. The average price received for milk in 1991 decreased for both groups of dairy enterprises. This resulted in returns below total production costs of 51 cents and 32 cents, respectively, for both the small and large enterprise groups in 1991. The returns above all costs for the large-herd group have averaged 57 cents per 100 pounds of milk produced more than the returns for the small-herd group from 1989 through 1991. This amounts to \$10,490 more in returns per farm per year for herds in the large size group. In general, dairy farmers experienced their lowest returns in 1991 since the mid-1980s.

## **Beef-cow herds**

The minimum size for a beef-cow herd included in Table 17 was 10 cows. Farms combining cow herds and purchased feeder cattle were not included. In addition to all farms, Table 17 gives an analysis of cow herds in which calves were sold at weaning time and compares them with cow herds in which calves were finished to'slaughter weights. From 1956 through 1969, the average size of the herd on all farms ranged from 25 to 30 cows. From 1969 to 1973, the average grew to about 40 cows per herd and remained stable through 1989. The herd size increased to 46 cows in 1991. Most Illinois farmers who maintain a beefcow herd do so as a supplemental enterprise to market nonsalable feeds and labor.

The return per \$100 of feed fed to beef-cow

Table 17. Beef-Cow Enterprises, 1991 Averages per Farm

	All farms	Calves sold	Calves fed out
Number of farms	279	88	59
Number of cows in herd Animal units in herd Total pounds produced Beef per cow in herd,	46 70 34,088	42 56 18,748	51 83 55,565
pound	741	446	1,089
Total returns Value of feed fed Returns per \$100 of	\$21,469 \$16,587	\$14,121 \$11,069	\$31,119 \$22,520
feed fed Returns above feed	\$ 129	\$ 127	\$ 138
Death loss, pound Percent of pounds	\$    106 1,985	\$72 1,570	\$    168 2,636
Price received per	5.8	8.3	4.7
100 pounds sold	\$ 73.28	\$ 77.83	\$ 69.37
	per 100	) pounds pro	duced
Feed cost Grain, pound Protein and minerals,	\$ 48.65 257	\$ 59.04 155	\$ 40.52 301
pound	36	37	31
Total concentrates, pound Hay and dry	293	192	332
roughage, pound Corn silage, pound	681 364	1,024 245	410 399
Other silage, pound Pasture days	88 29	85 45	115 18
Pasture days per animal unit	142	150	125
Hay equivalent per cow, tons	5.7	4.9	5.6

herds averaged \$129 in 1991. The return for the 5year period from 1987 through 1991 averaged \$151, which is above the 15-year average of \$137 for the period from 1977 through 1991 (Table 9). Beef prices received in 1991 averaged \$73.28 per hundredweight, a decrease of \$2.75 over beef prices in 1990. Feed costs per 100 pounds of beef produced increased by \$1.07 to \$48.65 in 1991.

Since 1987, the return above feed cost per cow for the average farmer to feed out calves rather than

Table 18. Sheep Enterprises, 1991 Averages per Farm

	Native flocks
Number of farms	34
Wool and mutton produced, pound Total returns Value of feed fed Returns per \$100 of feed fed Percent lamb crop Death loss, pound Percent of pounds produced	\$2,256 \$3,479 \$64 145 635
Price received Feed cost Concentrates, pound	\$50.38
Hay, pound. Corn silage, pound. Pasture days. Hay equivalent, pound.	724 0

to sell them at weaning has been about \$67 per cow. Additional returns are needed for the added costs of labor, buildings, and the capital required to feed out the calves. In 1991, return above feed cost for feeding calves to market weight was \$96 more per cow than for selling calves.

### **Sheep enterprises**

Sheep production is a minor enterprise on Illinois recordkeeping farms. The minimum size of enterprise in Table 18 is 3 animal units. One animal unit of sheep is defined as 750 pounds, liveweight. The return per \$100 of feed fed in 1991 was \$64 for native flocks. The pounds of wool and mutton produced per farm have remained fairly constant for the past 10 years. The price received for sheep declined from \$58.62 per hundredweight in 1990 to \$42.82 in 1991, while feed costs per hundredweight produced increased by \$3.15 to \$50.38. Most Illinois farmers who keep sheep do so as a supplemental enterprise in order to market nonsalable feeds and labor.

Costs, returns, financial summaries, investments, land use, and crop yields for different sizes and types of Illinois farms are reported in Tables 19 to 27a.

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Table 19. 1991 Average Return, Costs, and Finar	

	180 - 230	340-700	800-1100	Over 1100	Volir Farm	All Farme	10	340-700
Management returns	200							High 2
Number of farms	68	486	221	112		887	122	č 122
Total acres in farm Acres of tillable land	281 269	572 552	979 941	1,546 1,497		774 747	567 549	612 591
Soil rating on tillable land	030	92	92	92		92	92	03
Total months labor	4.0	13.1	16.9	25.2 8.7		15.4	13.4	13.0
Beef produced, hundredweight	ţO	<u>-</u> 5	, 0	-9 2		א <u>ר</u> א ע	-0	<u>5</u> -
Pork produced, hundredweight Dairv cows, number	00	00	-0	oc		oc	00	00
Dollar returns per farm	)	)	)	•		)	þ	þ
Crop returns	75,971	160,970	282,234	451,852		221,397	125,107	202,851
Livestock returns above feed	5 0	14		54		16	9	45
Oustom work Other farm receints	1,198 846	958,1	3,161	6,749 2 815		2,750	1,/62	2,016
Value of farm production	78.024	164,138	287,406	3,015		225,919	127 819	000'I
Dollar costs per farm	] )		;	Ĵ.		2		
Crop expenses	20,414	42,758	71,743	112,583		57,083		42,837
Power and equipment	15,315	26,284	44,901	66,550		35,166	(N	26,530
Building and fence	4,269	6,248	9,613	13,318		7,827		5,333
Labor Liscotools consisce and cumulice	16,260	18,557	24,628	37,086		22,233	19	18,297
Livestock services and supplies	7.0		752	308		191	•	231
lakes	0000	11,234 5.074	10,047	201-62		14,982	-	12,053
Insurance and Iniscentarieous Interest on nonland canital	3,030 6,656	10,074	00 A16	36 343		000'0		CO1,4
	26.342	52.845	89.675	141.854		66612		56.053
Total nonfeed cost	97,965	175,719	289,579	449,977		232,757	181,604	178,930
Capital account adjustment	636	1,080	1,603	1,514		1,231		2,030
Management retúrns	(19,304)	(10,500)	(269)	14,007		(5,606)	(52	29,599
Farm production per \$1.00 of nonfeed costs	U RU	0.03	000	50 F		0.07	02.0	
Farm production per man	81 846	150 741	203 547	010 P35 P 10		175 500	0.10	101.10
Financial summary				-		220'0 11	201t	191,61
Cash operating income	85,271	172,184	295,153	484,427		235,586	162,388	193,019
Inventory change	(6,325)	(6,658)	(4,367)	(11,630)		(0,690)	(32,645)	14,412
Earm products used	(747) 80	(1,1,9)	(L//'L)	(3,612)		(1,600)	(1,583)	(952)
Less purchased feed	267	371	1.895	7,210		1 606	549	010
Less purchased livestock	0	103	160	259		129	51	231
Adjusted gross farm income	78,024		287,406	462,471		225,919	127,819	206,499
Cash operating expense	42,524	81,569	138,188	214,815		109,507	84,438	82,400
Prepaid expense (- if increased)	623 (78)	319	179	635		348	575	(340)
Farm – produced inputs	(07) 89	(109) 243	419	715		(11)	(142) 226	(120)
Total operating expense	43.157	81,992	138.768	216.234		110.111	85.096	82 257
Income before depreciation	34,867	82,144	148,637	246,236		115,806	42,723	124,244
Less depreciation	6,040	11,655	20,772	31,934		16,057	14,207	11,115
Capital account adjustment	636	1,080	1,603	1,514		1,231	859	2,030
Net larm income * (operator's share) *	29,463 9,715	71,569 25,079	129,468 43,093	215,817 67.128		100,981 33.699	29,376 614	115,160 49,947
Labor & mgt. income per operator Rate earned on investment. %	(3,640) 2,07	6,003 4 15	16,138 4 93	27,230 5,36		10,469	(36,268) 0 97	46,012 7.02
	i			000		2022		1

שש	erage Operating Costs, Investments, and Land Use by Size and Management Returns for Northern and Central Illinois	rms with Soil Ratings from 86 to 100	
	19a. 1991 Average Opera	Grain Farms with So	
	Table 19a.		

Grain Farms with Soil Ratings from 8	il Ratings from	ΨĮ.						
Hange in size (total acres)	180-339	340-799	800-1199	Over 1199	Your Farm	All Farms		340-799
Management returns							Low 25%	High 25%
Number of farms	68	486	221	112		887	122	122
Some costs and returns per tillable acre	acre							
Soil fertility	34.42	35.72	36.03	34.35		35.43	38.71	32.92
Pesticides	23.81	23.68	23.66	23.12		23.53	23.97	22.95
Seed and other crop	17.66	18.02	16.53	17.75		17.47	20.53	16.57
Crop total	75.88	77.42	76.21	75.22		76.44	83.21	72.45
Light vehicle and utilities	6.43	4.01	3.15	2.64		3.46	4.50	3.69
Machinery repairs, supplies	14.66	13.02	12.69	11.38		12.55	13.17	12.29
Machinery hire	10.33	5.30	5.09	4.36		5.14	5.13	5.05
Fuel and oil	9.61	8.15	8.41	8.03		8.24	8.29	7.87
Machinery depreciation	15.90	17.11	18.35	18.06		17.71	20.16	15.97
Power and equipment total	56.93	47.59	47.70	44.46		47.09	51.25	44.87
Drving and storage	7.26	5.92	5.28	4.53		5.40	5.61	5.22
Building repair	2.06	1 40	1 22	1 09		1 28	1 28	0.97
Building depreciation	6.55	3.99	3.71	3.28		3 79	5 74	2.83
Building total	15.87	11.31	10.21	8.90		10.48	12 63	60.6
	58.62	30.28	19.07	15 78		23.87	30.31	28.20
Labor hired	183	3.32	7 10	00.6		200	4.55	0.75
l abor total	60.44	33.60	26.16	24 78		77.90	34.86	30.94
Value of feed fed	0.03	0.06	0.11			000	0.04	0.05
	0010	20.0	20.05	20.00		20.00	2010	00.0
Capital purchases Onerator interest paid	17 75	1817	17.65	16 70		17 62	16.15 16.68	18 70
						10.11	00.01	
	282.41	291.46	299.81	301.88		290.47	GU.822	343.07
Livestock return above reed	50.0	0.03		0.04		20.02	10.0	0.08
Value of rarm production	290.04	07.162	305.30	308.97		302.205	233.00	349.24
	304.10	318.10	10.705			311.68	331.04	302.61
Corm invoctment	-11.10	- 19.01	-0.0-	9.00		10.7-	-80.40	on.uc
l ivestock inventory	130	168	191	1 008		100	111	035
Grain inventory	5110	107 163	102 885	212 683			07 668	102
Remaining cost in		Port. Do		2001210		3	000' 10	122,100
machinery and auto	10 805	23 451	50 660	82.010		36 7RO	040	23 131
buildings and fence	12,522	15 088	20,002	33 486		19 265	19 765	11 721
soil fertility	33 33	67	17	337		86	120	22
Value of land (current)	585.378	1.174.326	1.992.763	3.152.288		1.582.846	1.169.925	1.245.620
Total farm investment	663,067	1,320,560	2,260,976	3,582,891		1,790,124	1,316,558	1,402,916
Total investment per acre	2,357	2,309	2,310	2,317		2,313	2,323	2,292
Machinery invest. per till. acre	41	42	54	55		49	53	39
Corn and corn alloan	0 U V		0.01	r 07		0.07	101	0.01
Cornalia corn siage Souheans	4 1 0 0	49.2	40.04 0.04	49.7		2.04	40.7	40.0 7
Wheat	0.04 0.0	0.04	40.0 A C	- tt - a		4 0 1 1 1 1 1 1	- 0- - 0	ο, α Ο, α
Other small grain		2 <del>-</del>					) <del>-</del>	0 C
	o u o c	0	0.0 6			0 C	- u 0 0	- 4 7 7
All hav and nasture	0.0		0 C	i c			) <del>-</del>	0 C
Crop vields, hushels per acre				2		-	-	-
Corn	121	126	130	128		128	93	151
Sovbeans	42	44	46	46		45	35	52
Wheat	62	50	46	54		50	51	48
Note: Variations in totals due to rounding to the neare	nding to the nea	st dollar.	Farms with soil ratings from 86 to		100 are those with nearly level, well-drained prairie soil	nearly level w	/ell-drained pra	0
						- ton - famou		

Table 20. 1991 Average Return, Costs, and Financial Summary by Size and Management Returns for Northern and Central Illinois Grain Farms

Management returns Number of farms Total acres in farm Acres of tillable land Soil rating on tillable land Total months labor Months of hired labor	63						Uich OFO
Total acres in farm Acres of tillable land Soil rating on tillable land Total months labor Months of hired labor	20	301	130	63	587	LUW 25%	75 75
Acres of tillable land Soil rating on tillable land Total months labor Months of hired labor	274	584	967	1,708	814	577	620
Soil rating on tillable land Total months labor Months of hired labor	259	553	917	1,569	763	552	587
Total months labor Months of hired labor	78	77	77	76	27	78	27
Months of hired labor	11.9	12.9	15.7	22.9	15.0	13.6	12.7
	0.6	•	3.2	7.0	2.4	1.3 6	0.8
Beef produced, hundredweight	0	0 .	ი (	. U	0	0	₽ !
Pork produced, hundredweight	0 0	4 (	0 0	- (	010	0 0	15
Dairy cows, number	D	D	D	Ð	D	D	C
Dollar returns per tarm	007 10		000 000				
Crop returns	224'09	136,015	230,396	393,208	190,088	100,060	185,848
Livestock returns above teed	(6)	32	156	11	62	1 2	136
	198	1,952	2,736	6,286	2,688	1,737	3,428
	942		6LC'Z	3,908	1,980	066	1,644
Value of farm production	67,153	139,350	235,807	403,538	194,819	102,788	191,057
Dollar costs per farm							
Crop expenses	20,776	40,608	69,615	115,818	56,819	39,852	42,464
Power and equipment	14,444	25,527	40,860	72,044	35,103	27,614	27,757
Building and fence	3,350	5,400	8,976	12,374	7,077	5,755	5,952
Labor	16,660	18,298	22,060	32,803	21,253	19,437	17,819
Livestock services and supplies	212	106	229	359	185	76	163
Taxes	4,263	9,296	14,712	24,677	12,392	9,385	10,491
Insurance and miscellaneous	3,065	5,016	7,725	12,379	6,573	5,542	4,997
Interest on nonland capital	6,105	11,646	19,588	32,547	16,121	11,667	13,066
Land charge or net rent	21,187	43,687	72,627	118,265	59,497	44,564	44,924
Total nonfeed cost	90,062	159,579	256,388	421,261	215,017	163,892	167,634
Capital account adjustment	1,082	1,263	642	1,221	1,099	623	2,792
Management returns	(21,827)	(18,966)	(19,939)	(16,501)	(19,098)	(60,479)	26,215
Farm production per \$1.00							
of nonfeed costs	0.75	0.87	0.92	0.96	0.91	0.63	1.14
Farm production per man	67,645	129,886	179,724	211,233	155,865	90,714	180,811
Financial summary							
Cash operating income	77,344	158,761	265,820	451,600	220,128	147,176	183,616
Inventory change	(9,255)	(17,431)	(24,978)	(38,790)	(21,609)	(40,064)	8,570
Accts. receivable (net change)	(123)	(976)	(439)	(2,654)	(1,031)	(1,851)	(206)
Farm products used	93	214	452	828	351	262	117
Less purchased feed	909	201,1 201	4'8'4	6,922	C88'Z	2,/31	319
			C/1 200 100	770	134		24
Adjusted gross tarm income	561,70	ກ	8	403,538	194,819	102,788	191,057
Cash operating expense	39,885	74,483	127,554	218,019	105,264	75,046	80,275
Prepaid expense (-ir increased	488	22	(663)	(2,361)	(E/)	1,154	(517)
Earmnroduced innute	() c	5	202	(964)	(GP)	238	o u
Total operating evenance		75 406	407 540	ារ	101 100	707	CO1
Income before depreciation	40,400	0.430	010'171	104'012	024,001	00,000	
l ess denreciation	6 264	11 025	18 080	100'014 20 266	190,90	201,03	111,130
Capital account adjustment	1 082	1 263	642	1 221	1 000	10101	2000
Net farm income *	01 535	52 184	200 046	157,090	1400 42	40 040	101 057
(operator's share) *	8.237	14.724	21.558	28,506	17.725	(12,796)	42,590
Labor & mgt. income per operator	(5,582)	(2,000)	(624)	672	(1,656)	(42,220)	43,020
Rate earned on investment, % 1.01	1.01		3.94	4.53	3.77	-0.38	7.32

Jois	
rthern and Central Illir	
Returns for No	
Management	
by Size and	•
nd Land Use	
Investments, ar	om 56 to 85
perating Costs,	h Soil Ratings fr
1991 Average Operating Cos	Grain Farms with Soil Ratings
Table 20a.	

Grain Farms with Soli Hatings from 56 to 85 Rande in size (total acres) 180–339 340–	180-339	340-799	800-1199	Over 1199	Your Farm	All Farms	340-799	790
Management returns	63	301	130	63		587	Low 25%	High 25%
		8	2	8		5	2	2
Some costs and returns per tillable acre								
Soli teruity	37.94	34.09	35.39	34.74		34.79	33.28	32.12
Pesticides	24.74	22.22	23.78	69.12		22.19	22.04	23./9
	00./1	00.01	10./0	11.20		10.00	10.03	16.37
Crop total	80.28	73.37	75.96	73.82		74.46	72.15	72.29
Light venicle and utilities	0./6	4.11	3.37	3.04		3.66	4.45	4.52
Machinery repairs, supplies	12.67	12.27	11.81	12.12		12.11	13.18	11.98
Machinery hire	10.84	4.89	4.38	5.16		5.06	5.10	5.57
Fuel and oil	8.00	7.74	8.02	8.00		7.91	7.81	7.74
Machinery depreciation	17.55	17.12	17.00	17.61		17.26	19.45	17.44
Power and equipment total	55.82	46.13	44.58	45.92		46.00	50.00	47.25
Drying and storage	4.11	3.83	4.52	3.58		3.94	3.46	4.26
Building repair	2.18	1.51	1.57	1.35		1.50	1.99	1.44
Building depreciation	6.65	4.42	3.70	2.96		3.83	4.98	4.43
Building total	12.94	9.76	9.79	7.89		9.27	10.42	10.13
Labor, unpaid	62.10	30.39	19.43	14.48		23.45	31.62	28.70
Labor, hired	2.28	2.67	4.64	6.43		4.40	3.57	1.63
Labor total	64.38	33.06	24.07	20.91		27.85	35.19	30.33
Value of feed fed	0.04	0.06	0.15	0.14		011	0.01	0.14
Capital purchases	22.32	24.22	31.15	26.42		26.71	20.03	27.58
Operator interest paid	16.09	18.84	19.57	21.82		19.90	15.74	22.89
Crop returns	252.81	245 77	251.38	250.62		240.10	18116	316.36
l ivestock return above feed	-0.04	0.06	0.17					
Value of farm production	25050	0.00	0.17 057 08	0.00		0.00		0.20
Total nonfeed cost	248.03	288.95	07.02C	12.102		77 190	100.10	07.070 20 200
			t 1:017			11.102	C1.062	00.002
Management returns	-84.35	-34.27	-21.76	-10.52		-25.03	-109.50	44.62
						1	ļ	
	44	9334	999 1 0 1 0 1 1	858		435	17	494
	40,017	897'66	266,261	222,014		116,221	90,888	109,940
machinery and auto	11 <b>4</b> 88	007 00	A5 R60	83 800		36 218	76 886	24 060
buildings and fence	11 318	15,758	20,04	31 181		18,844	15,534	16 704
soil fertility	9	78	89	61		202		52 52
Value of land (current)	470,819	970,808	1,613,938	2,628,107		1,322,147	990,312	998,312
Total farm investment	540,290	1,104,949	1,833,846	2,966,616		1,500,720	1.123.724	1,149,676
Total investment per acre	1,975	1,891	1,896	1,737		1,844	1,949	1,855
Machinery invest. per till. acre	44	41	50	53		48	49	41
Percent tillable land in								
Corn and corn silage	49.9	50.8	49.6	51.8		50.8	49.0	52.9
Soybeans Wheet	41.1	41.1	41.7	39.5		40.7	45.5	36.5
	- C		9.L	р 0 0		1.0 0	0.8	<u>р.</u>
	4.0		0.0	0.1		0.1	0.1	
VIVERED ACTES	4 C	4 0 Ú 0	4.0	4 0 4 0		6.4 0.0	0.0	0.1 0
Cronvielde bushels per sore	0.0	0.0	0.0	0.0		0.3	N. N	Q.4
Corn	103		gO	103		101	ц Ч	126
Soybeans	38	36	90 90 90	37		36	28	49 100
Wheat	37	43	43	36		40	44	41
Note: Variations in totals due to rounding to the neared	nding to the nea	irest dollar. Farr	st dollar. Farms with soil ratings from	trom 56 to 85		poorly drained	are those with poorly drained, heavy-till, and timber soils	timber soils.
	I		•			•		

Table 21. 1991 Average Return, Costs, and Financial Summary by Size and Months of Labor for Northern and Central Illinois Hog Farms with

$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	47 634 599 90 26.8 11.9 145	35			2
Iand       192       375       91         Iand       184       93       91         Iredweight       1.8       4.4       4.4         Iredweight       2.080       3,861       5         Iredweight       2.080       3,861       5         Iredweight       2.080       3,861       5         Iredweight       2.080       3,812       5         Iredweight       2,080       3,755       5313         Iredweight       2,080       3,755       5313         Iredweight       2,080       3,755       5313         Iredweight       2,080       3,8418       166,125       93         Iredweight       13,414       25,042       49         S	634 599 90 11.9 145		137	21-27 42	31 – 39 10
land       184 93       93 91       91 91       91 91 <t< th=""><th>599 90 11.9 145</th><th>1.152</th><th>636</th><th>636</th><th>943</th></t<>	599 90 11.9 145	1.152	636	636	943
land       93       91       14.0       14.0       4.2       4.4	90 26.8 11.9 145	1.079	599	593	872
14.0 $14.0$ $19.2$ $44.4$ $44.4$ $44.4$ $44.4$ $44.4$ $44.4$ $44.4$ $44.4$ $44.4$ $44.4$ $5.005$ $3.861$ $5.65.427$ $97.505$	26.8 11.9 145	06	91	06	06
r1.84.4fredweight2.0803,8615fredweight2,0803,8615m2,0803,8615m8122,3131m8128125,427above feed8128125,313above feed81,7155,3131fts86,418166,1252,313above feed88,418166,1252,313above feed88,418166,1252,833above feed8,418166,1252,813above feed3,4334,9169and supplies2,6678,38814above feed3,4334,9169and supplies2,6678,38814above feed3,4334,9169and supplies2,6678,38814above feed3,4334,9169above feed3,4334,9169above feed3,4334,9169above feed3,4334,9169above feed3,4334,9169above feed3,43310,333127above feed3,43313,416127above feed3,43310,333127above feed3,43310,333127above feed3,43310,333127above feed3,43310,333127above feed3,43310,46127above feed3,43310,333127	11.9 145	40.0	26.4	24.4	35.0
Iredweight       22 $42$ 5         Iredweight       2,080       3,861       5         Iredweight       2,080       3,861       5         Iredweight       2,080       3,815       5,427       97,505       183         above feed       38,725       65,427       97,505       183         above feed       38,725       65,427       97,505       13,816         ts       465       8,418       166,125       283       14         ts       465       13,414       25,042       49       93       93         ts       465       13,414       25,042       93 </td <td>145</td> <td>22.2</td> <td>11.1</td> <td>7.4</td> <td>17.8</td>	145	22.2	11.1	7.4	17.8
Inconvergent         2,080         3,861         5           m         48,415         97,505         183           above feed         38,725         65,427         97           above feed         38,725         65,427         97           above feed         38,725         65,427         97           above feed         38,418         166,125         283           above feed         38,418         166,125         283           above feed         38,418         166,125         283           and supplies         5,932         13,116         19           and supplies         2,905         8,030         13           and supplies         2,335         4,916         9           at capital         19,046         33,580         13           at capital         18,046         19,989         33           at rent         1,087         1,038         14           st         9,653         103,813         12           at capital         18,046         13,3580         13           st         0,037         0,038         12           st         1037         0,0313         12      s		273	134	221	421
m         0	5,614	7,469	5,124	4,184	6,002
m       48,415       97,505       183         above feed $38,725$ $65,427$ $97$ above feed $38,725$ $65,427$ $97$ above feed $38,416$ $66,425$ $97,505$ $97$ duction $88,418$ $166,125$ $2831$ $97,505$ $97,505$ and supplies $13,414$ $25,042$ $99,333$ $19,779$ $9335$ $9335$ and supplies $2,667$ $8,338$ $14,377$ $8,030$ $93335$ $19,313$ $116,125$ $2833$ and supplies $2,667$ $8,338$ $14,377$ $8,030$ $93,335$ $116,125$ $2833$ scellaneous $3,433$ $4,377$ $8,030$ $13,376$ $113,116$ $127$ scellaneous $3,433$ $19,046$ $13,376$ $13,376$ $133,116$ $127$ scellaneous $3,433$ $19,046$ $13,376$ $13,376$ $127$ scellaneous $3,433$ $10,373$ $13,376$ $13,376$ $127$ strence $13,338$ $13,336$	0	0	0	0	0
above feed         48,415 812         97,505 5,427         183 97           above feed         38,725         65,427         97           duction         88,418         166,125         283         1           above feed         38,725         65,427         97         97           duction         88,418         16,125         283         1         1           and supplies         5,932         13,116         25,042         49         1           s and supplies         2,667         8,388         14         25,042         49         1           s and supplies         2,667         8,388         14         2         1					
above feed $38,725$ $65,427$ $97$ above feed $38,725$ $65,427$ $97$ ts $465$ $465$ $65,427$ $97$ duction $88,418$ $166,125$ $283$ nent $17,100$ $86,418$ $166,125$ $283$ nent $17,100$ $36,335$ $50$ $97$ e $19,799$ $27,179$ $37,335$ $50$ nent $17,100$ $36,335$ $50$ $97$ e $19,779$ $3,433$ $4,916$ $97$ scellaneous $3,433$ $4,916$ $33,433$ $99,05$ $93$ strent $18,046$ $33,433$ $4,916$ $93,33$ $93,335$ strent $5,1,00$ $0.34$ $9,905$ $93,33$ $93,333$ strent $5,1,483$ $13,7,552$ $258,299$ $421$ $127$ strent $5,133$ $0,344$ $7,376$ $13,7,457$ $24,956$	183,499	311,665	174,552	172,450	257,039
ts $\frac{465}{465}$ $\frac{465}{465}$ $\frac{465}{25,042}$ $\frac{25,042}{25,042}$ $\frac{13}{29,933}$ ment         13,414         25,042         49           ment         17,100         36,335         50           secellaneous         3,433         3,433         4,916         33           scellaneous         3,433         3,4916         13,116         13           st         9,055         13,116         12         13           st         9,055         13,3580         13         12           st         9,055         133,3580         13         12           st         9,055         133,3580         13         12           st         1,06,125         28,389         14         25           st         1,37,552         13,333         127         21           st	97,203	147,831	93,482	72,035	121,157
Iss $465$ $465$ $88,418$ $166,125$ $280$ $1$ nent $17,100$ $88,418$ $166,125$ $283$ $495$ nent $17,100$ $36,335$ $50$ $39$ and supplies $2,667$ $8,338$ $14$ $9,305$ $3,433$ $4,916$ $32,116$ $39$ scellaneous $3,433$ $4,916$ $33,580$ $13$ scellaneous $3,433$ $4,916$ $33,580$ $33,580$ $33,580$ st rent $1,087$ $1,376$ $13,76$ $13,76$ $127$ $81,00$ $0.33,580$ $33,580$ $33,580$ $33,580$ $33,580$ st rent $1,087$ $1,376$ $1,376$ $1,376$ $127$ $81,00$ $0,33,380$ $0,91$ $0,33,380$ $0,91$ $127$ $100$ $9,481$ $137,497$ $137,497$ $127$ $81,00$ $0,33,497$ $0,34,407$ $127,467$ $127,467$	1,469	4,604	2,390	2,161	2,418
duction         88,418         166,125         283           nent         17,100         86,335         50           nent         17,100         36,335         50           nent         17,100         36,335         50           nent         17,100         86,335         50           and supplies         5,932         13,116         19           3,433         4,377         8,030         13           3,433         4,317         8,030         13           3,433         4,916         9         9           acapital         18,046         3,433         4,916         9           at rent         1,087         1,376         13         127           st         1,087         1,376         285         285           ustment         (5,148)         0,913         127           \$100         0.93         0.94         127           \$100         0.93         137,552         258,299         421           for         1,37,552         258,299         421         127           come         137,497         64,055         86         28           ed         37,497 <td>1,711</td> <td>5,786</td> <td>2,358</td> <td>1,239</td> <td>1,125</td>	1,711	5,786	2,358	1,239	1,125
ment $13,414$ $25,042$ $49$ ment $17,100$ $36,335$ $50$ and supplies $5,932$ $13,116$ $19$ seellaneous $3,433$ $8,030$ $37,179$ $37$ scellaneous $3,433$ $4,916$ $33,580$ $144$ scellaneous $3,433$ $4,916$ $33,580$ $134$ scellaneous $3,433$ $4,916$ $33,580$ $134$ scellaneous $3,433$ $4,916$ $33,580$ $134$ st $94,653$ $176,576$ $285$ $127$ st $1,000$ $0.93$ $0.94$ $33,580$ $33,580$ st $1,007$ $0.93$ $137,552$ $258,299$ $421$ st $1,037$ $(1,03,813)$ $(13,74)$ $(13,74)$ $(13,74)$ $(13,74)$ $(13,74)$ $(13,74)$ $(13,74)$ $(13,74)$ $(15,519)$ $(16,75)$ $283$ $2860$ $421$ $(12,66)$ $(12,66)$ $(11,76)$ $284$ $127$ $127$ $127$ $127$ $127$	283,883	469,886	272,783	247,886	381,739
13,414       25,042       49         17,100       5,932       13,116       19         19,779       5,932       13,116       19         19,779       27,179       37       8,030       37         19,779       27,179       37,179       37         19,905       3,433       4,916       93         11,087       1,087       1,376       13         11,087       1,087       1,376       285         11       1,087       1,376       285         11,087       1,376       285       285         11,087       1,376       285       285         11,087       1,376       285       285         11,087       0.93       0.94       27         137,552       258,299       421       28         137,552       258,299       421       28         137,497       64,055       86       28         137,497       64,055       86       28         137,497       15,467       28       28         137,497       64,055       86       28         137,497       166,125       28       28			-		
17,100     36,335     50       19,779     5,932     13,116     19       19,779     27,179     37       19,779     2,7179     37       19,779     2,7179     37       19,779     2,7179     37       19,779     3,388     14       19,779     3,388     14       19,005     3,433     4,916       94,653     176,576     285       11     1,087     1,376       13,156     11       13,156     11       13,033     13,550       94,653     176,576       94,653     176,576       13,756     13,437       137,552     258,299       137,497     64,055       137,497     64,055       144     429       15     112,467       144     15,193       15     103       166,125     283       166,125     283       175     112       234,97     64,055       145     12,467       236     12,467       236     12,467       237,497     15,467       238     16,125       238     16,125       236	49,547	83,942	46,799	43,518	73,272
5,932     13,116     19       19,779     27,179     37       supplies     2,667     8,388     14       19,779     2,433     4,916     93       reous     3,433     4,916     93       atal     9,005     19,989     33       atal     9,046     37,553     13,560       nt     1,087     1,376     285       nt     1,376     285     285       nt     1,376     285     285       nt     1,376     285     285       nt     1,376     285       nt     1,376     285       137,552     258,299     421       137,497     64,055     86       k     7,567     12,467       assed)     15,91     107       assed)     15     91       assed)     37,497     107       assed)     15     91       assed)     16     147	50,710	87,581	51,551	47,415	74,583
19,779     27,179     37       upplies     2,667     8,388     14       a,377     8,030     13       neous     3,433     4,916     9       13,653     19,989     33       nt     1,087     1,376     285       nt     1,376     285     285       nt     1,376     21,48     9,073       nt     1,376     285     285       nt     1,376     285       nt     1,37,552     258,299       137,497     64,055     86       k     7,567     12,467       144     64,055     86       come     88,418     166,125       creased     (659)     477       assed     3     91       assed     3     91       167     3     91	19,794	33,037	19,448	15,575	28,903
supplies $2,667$ $8,388$ $14$ ital $2,343$ $4,377$ $8,030$ $13$ ital $9,305$ $19,989$ $33$ ital $9,065$ $19,989$ $33$ ital $9,065$ $19,989$ $33$ ital $9,065$ $19,989$ $33$ ital $9,653$ $17,6576$ $285$ it $13,653$ $176,576$ $285$ it $5,148$ $0.94$ $212$ it $33,580$ $560$ $56$ it $137,552$ $258,299$ $421$ it $37,497$ $64,055$ $86$ it $75,895$ $103,813$ $127$ it $73,497$ $64,055$ $86$ it $7,567$ $12,467$ $24$ it $7,976$ $12,467$ $24$ it $37,497$ $64,055$ </td <td>37,782</td> <td>62,372</td> <td>38,727</td> <td>35,164</td> <td>52,515</td>	37,782	62,372	38,727	35,164	52,515
teous $3,437$ $8,030$ $13$ teous $3,433$ $4,916$ $9,055$ $19,989$ $33$ 18,046 $3,433$ $4,916$ $9,999$ $33the 18,046 3,4,516 13,550 561,087$ $1,6,576$ $2851,087$ $1,6,576$ $2851,087$ $1,376$ $(15,148)$ $0.94$ $12775,895$ $103,813$ $127137,552$ $258,299$ $421137,497$ $64,055$ $86it 7,497 64,055 86it 7,567 12,467 24come 88,418 166,125 283creased) (559) 477 12sased) 15 91 107it 91 107 145it 23 91 107 147it 23 it 2467 2467 243it 2467 2467 12,467 243it 2467 it 2467 243 it 145it 233 it 24it 233 it 24 it 2467 it 2$	14,890	17,977	12,233	8,604	16,348
tial 3,433 4,916 9 tial 9,905 19,989 3 1,087 1,6576 285 1,087 1,6576 285 1,087 1,376 (1 5,148 0,93 0.94 (1 75,895 103,813 127 137,552 258,299 421 137,497 $64,055$ 86 144 64,055 86 37,497 $64,055$ 86 145,619 $145come 88,418 16,125 283107$ 91 107 1 assed) 15 91 107 1 15,919 $107$ 145 2467 283 2477 12,467 283 477 107 165 145 91 107 107 145 91 107 116 145 91 107 117 116 145 91 107 117 117 145 91 107 117 117 147 91 107 1107 117 117 147 91 107 1107 117 117 117 117 117 117 117 1	13,121	22,192	12,861	12,350	18,120
ttal 9,905 19,989 33 nt $18,046$ 33,580 56 94,653 176,576 285 1,087 1,376 1,376 1,376 (5,148) $(9,073)$ $(1(5,148)$ $(9,073)$ $(1(3,148)$ $(3,03,813)$ $(25,13)$ $(1(3,838)$ $(15,519)$ $(25,13)$ $(25,13)(13,437)$ $(15,519)$ $(25,13)$ $(25,13)(12,467)$ $(25,13)$ $(25,13)$ $(25,13)(12,467)$ $(25,13)$ $(25,13)$ $(25,13)$ $(25,13)(25,13)$ $(25,13)$ $(25,13)$ $(25,13)$ $(25,13)$ $(25,13)(25,13)$ $(25,13)$	9,611	15,174	8,931	7,421	12,277
18,046         13,580         56           94,653         176,576         285           94,653         176,576         285           1,087         1,376         1,376           (5,148)         0,93         0,94           0,93         0,94         127           137,552         258,299         421           137,552         258,299         421           137,552         258,299         421           137,552         258,299         421           137,497         (15,519)         (25           144         429         86           37,497         64,055         86           :k         7,567         12,467         283           come         88,418         166,125         283           creased)         15         91         145           assed)         3         91         107         1	33,377	56,273	32,380	28,184	47,600
94,653         176,576         285           nt         1,087         1,376         285           (5,148)         (9,073)         (1           (5,148)         0.93         0.94         23           75,895         103,813         127           137,552         258,299         421           137,497         (15,519)         (25           144         429         86           37,497         64,055         86           :k         7,567         12,467         24           come         88,418         166,125         283           creased)         15         81,931         145           assed)         15         91         107           assed)         33         91         107         1	56,956	102,589	56,962	56,638	82,551
nt         1,087         1,376         1,376         1,376         1,376         1,376         1,376         1,376         1,27	285,789	481,136	279,891	254,869	406,168
(5,148) (9,073) (1 (5,148) (9,073) (1 75,895 103,813 127 137,552 258,299 421 (3,838) (15,519) (25 (3,838) (15,519) (25 (3,838) (15,519) (25 (15,519)	806	2,899	2,294	953	3,269
0.93         0.93         0.94         127           75,895         103,813         127           137,552         258,299         421           (374)         (560)         (1           (374)         (560)         (1           (374)         (560)         (1           (374)         (560)         (1           (560)         (15,519)         (25           (560)         144         64,055         86           (560)         12,467         24         24           come         88,418         166,125         283           creased)         (559)         81,931         145           creased)         15         107         1           cased)         3         91         07         1	(1,099)	(5,351)	(4,814)	(6,028)	(21,160)
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					
75,895     103,813     127 $75,895$ 103,813     127 $(3,74)$ $(55,19)$ $(25,19)$ $(3,74)$ $(3,74)$ $(560)$ $(1,5,519)$ $(37,4)$ $(37,4)$ $(560)$ $(1,2,19)$ $(37,4)$ $(37,4)$ $(560)$ $(1,2,19)$ $(25,19)$ $(25,19)$ $(25,19)$ $(25,19)$ $(27,12)$ $(37,4)$ $(429,16)$ $(1,25)$ $(28,118)$ $166,125$ $283$ ncome $88,418$ $166,125$ $283$ ncreased) $(659)$ $477$ $145$ ncreased) $15$ $107$ $145$ ncreased) $33$ $91$ $107$ ise $40,309$ $82,606$ $147$	0.99	0.98	0.97	0.97	0.94
income 137,552 258,299 421 e (net change) (3,838) (15,519) (25 b (15,519) (25 c (15,519) (25 c (15,519) (25 c (15,519) (25 c (15,519) (25 c (25 c (15,519) (25 c (25) (15 c (15,519) (25 c (25) (15 c (15) (25 c (28) c (107) (15 c (107) (17) (16 c (17) (17) (17) (16 c (17) (17) (17) (17) (16 c (17) (17) (17) (17) (17) (17) (17) (16) c (16) (17) (17) (17) (17) (17) (17) (17) (17	127,243	140,875	124,195	122,090	130,994
Control       Contro       Control       Control		697 690	000 100	0.46.074	
change)     (0,000)     (1,000)     (1,000)       1 44     429     64,055     86       ck     7,567     12,467     24       ncome     88,418     166,125     283       ncreased)     (659)     477     145       reased)     15     107     145       se     40,309     82,606     147	421,230 /25,400)	031,309 (75,376)	090,490 110 756	340,074	0#0'0ZC
144         429         429         86           ck         7,567         12,467         24           ncome         88,418         166,125         283           ncome         88,418         166,125         283           ncreased)         (659)         81,931         145           ncreased)         15         107         1           reased)         3         91         91           se         40,309         82,606         147	(1 283)	(1301)			
ck 7,567 64,055 ncome 88,418 166,125 2 ncreased) (659) 81,931 1 ncreased) (659) 477 reased) 15 107 se 40,309 82,606 1	950	1.781	912	222	1 698
ck 7,567 12,467 ncome 88,418 166,125 2 ncreased) (659) 81,931 1 ncreased) 15 107 se 40,309 82,606	86,656	109,816	79.622	64.521	84.617
ncome         88,418         166,125         2           40,950         81,931         1           Arreased)         (659)         477           nceased)         15         107           see         40,309         82,606	24,926	32,900	21,246	20,272	22,362
40,950         81,931         1           ncreased)         (659)         477           reased)         15         107           3         91           se         40,309         82,606	283,883	469,886	272,783	247,886	381,739
aased) (659) 477 sed) 15 107 3 91 40,309 82,606 1	145,278	247,146	139,888	120,235	204,843
sed) 15 107 3 91 40,309 82,606	1,194	1,875	914	1,501	(48)
40,309 82,606	231	883 300	334	81	1,090
40,309 82,606 1	419	/00/	303	1/8	/46
	147,121	250,669	141,500	121,996	206,630
	130,701	112,812	131,283	125,891	011,6/1
istment 1087 1 376	20 000 BUG	- 001-04	100,12	50'03 053	44,0/0
40.4E0 EE E84 4	ç	170 057	105 010	100 001	607.0
* 19.599 27.300	41,115	56 088	38 270	42,680	46.317
er operator 11 853 7 754	17 534	11 757	12 730	11 952	3 480
4.50 4.65	5.51	5.35	5.26	5.05	4.65

Table 21a. 1991 Average Operating Costs, Investments, and Land Use by Size and Months of Labor for Northern and Central Illinois Hog Farms with Soil Ratings from 86 to 100

WITH SOIL HALINGS ITOM OD TO TUU	80 10 100							
Range in size (total acres)	60-259	260–499	500-799	Over 799	Your Farm	All Farms	Months	Months of Labor
Management returns Number of farms	20	35	47	35		137	21-2/ 42	31–39 10
Some costs and returns per tillable acre	cre							
Soil fertility	28.69	30.37	37.69	31.46		33.31	32.75	32.50
Pesticides	26.35	20.64	26.44	26.40		25.54	22.42	29.41
Seed and other crop	17.73	19.73	18.59	19.90		19.33	18.22	22.13
Crop total	72.76	70.74	82.72	77.76		78.18	73.40	84.04
Light vehicle and utilities	16.18	15.81	12.65	11.64		12.82	9.70	11.50
Machinery repairs, supplies	21.22	26.48	24.96	26.91		25.92	24.17	25.46
Machinery hire	7.05	12.63	7.80	6.15	1	7.74	8.10	4.81
Fuel and oil	14.60	15.96	13.51	12.08		13.27	12.68	12.69
Machinery depreciation	33.71	31.75	25.74	24.36		26.37	25.31	31.08
Power and equipment total	92.76	102.64	84.66	81.13		86.12	79.97	85.54
Drying and storage	6.51	3.50	3.85	4.17		4.07	4.29	4.38
Building repair	10.32	10.74	9.72	8.04		9.13	7.13	8.38
Building depreciation	15.35	22.80	19.48	18.39		19.29	14.85	20.39
Building total	32.18	37.05	33.05	30.60		32.49	26.27	33.15
Labor, unpaid	94.11	59.58	35.48	23.57		36.27	40.89	28.11
Labor, hired	13.18	17.20	27.59	34.21		28.42	18.42	32.12
Labor total	107.29	76.78	63.08	57.78		64.69	59.30	60.23
Value of feed fed	283.69	283.68	245.13	185.99		225.44	196.30	183.70
Capital purchases	58.58	82.20	55.12	83.44		72.41	50.12	52.78
Operator interest paid	29.32	32.09	31.27	34.18		32.64	26.23	37.85
Crop returns	262.63	275.44	306.36	288.72		291.59	290.84	294.80
Livestock return above feed	210.06	184.82	162.29	136.95		156.16	121.49	138.96
Value of farm production	479.62	469.28	473.96	435.29		455.69	418.07	437.82
Total nonfeed cost	513.44	498.80	477.14	445.71		467.57	429.85	465.84
Management returns	-27.93	-25.63	-1.84	-4.96		-8.04	-10.17	-24.27
Farm investment								
Livestock inventory	35,986	69,293 70,045	109,260	162,646		101,992	89,705	143,840
	03,104	C+0'07	131,204	231,343		CU8'671	124,978	192,291
machinery and auto	14,315	32,981	42.393	85.194		46.824	41.270	82.686
buildings and fence	16,205	37,985	65,311	109,659		62,491	46,984	92,228
soil fertility	0	0		123		31	25	68
Value of land (current)	401,016	746,213	1,265,693	2,279,747		1,265,813	1,258,632	1,834,468
Total farm investment	506,686	956,515	1,619,921	2,868,712		1,606,955	1,561,592	2,346,240
Total investment per acre	2,639	2,550	2,556	2,491		2,529	2,455	2,487
Machinery invest, per till, acre	78	93	71	79		78	20	95
Percent tillable land in	67.0	ц сц	1			ľ	L T	t L
Southeans	90.6 90.6	0.20	1.00	04:Z		1.00	0.40 7 7 7 6	00.4 4.00
Wheat	1.1	1.8	0.0	5.10		4.1	4.1	2.8
Other small grain	1.9	1.2	0.4	0.1		0.4	0.8	0.4
Diverted acres	3.2	3.7	4.1	4.3		4.1	3.8	3.9
All hay and pasture	2.6	2.5	1.1	0.8		1 i2	1.8	9.1
Crop yields, bushels per acre		1						
Sovheans	211	111	124	121		121	121	134
Wheat	63	42	47	35		9 <del>1</del> 0	43	25
Note: Variations in totals due to rounding to the nearest	ding to the near		s with soil ratings	from 86 to 100	are those with	nearly level. we	dollar. Farms with soil ratings from 86 to 100 are those with nearly level. well-drained prairie soils	.
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Table 22. 1991 Average Return, Costs, and	
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60-259         260-499         500-799         Over 799         Your Farm         Al           46         83         373         527         1160         551         368         551         368         551         368         551         368         551         368         551         368         551         368         551         368         551         368         551         368         551         368         551         368         551         368         551         368         551         368         553         553         553         553         553         553         553         5116         553         553         553         5116         553         533         5116         553         533         51179         5116         51179         553         533         51179         51179         51179         51179         51179         51179         5113         533         51171         51171         51171         51171         51117         51117         51111         51111         51111         51111         51111         51111         51111         51111         51111         51111         51111         51111         51111         51111         51111	000 010 00						
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	cres) 60-259 260	500	-	Your Farm	All Farms	Months of I	abor
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			63		273	64	5
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	198		1,180		605	658	1,077
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			986		523	576	798
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	75		75		75	76	73
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	14.6		36.8		23.2	24.2	35.0
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0.7		19.0		- 070	4 200	0.01
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	2 373 2	4			442	202 4 616	6 766
m         m           above feed $47,769$ $83,686$ $144,476$ $280,300$ above feed $44,224$ $47,146$ $81,761$ $139,830$ above feed $44,224$ $47,146$ $81,761$ $139,830$ above feed $44,224$ $47,146$ $81,761$ $139,830$ above feed $44,224$ $47,125$ $41,106$ $42,248$ ment $23,030$ $132,226$ $41,106$ $47,248$ $20,1021$ $20,0361$ $43,296$ $77,426$ $42,446$ $10,221$ $20,0361$ $43,296$ $77,733$ $13,947$ $20,031$ $21,242$ $41,966$ $77,733$ $13,947$ $20,033$ $5336$ $10,221$ $10,231$ $10,231$ $41$ $109,314$ $47,723$ $290,081$ $14,4726$ $21,00$ $10,231$ $14,7226$ $240,037$ $146,160$ $21,00$ $12,2425$ $240,048$ $430,671$ $140,160$ $21,00$ <td></td> <td>r</td> <td>0</td> <td></td> <td>0</td> <td>0</td> <td>0</td>		r	0		0	0	0
above feed $47,769$ $83,686$ $14,476$ $280,300$ $14,776$ $280,300$ $17,761$ $280,330$ $17,761$ $132,925$ $5,116$ $39,330$ $12,926$ $77,161$ $132,925$ $25,3161$ $29,435$ $29,435$ $29,436$ $23,330$ $12,2925$ $22,9,4125$ $41,108$ $74,326$ $4,206$ $5,332$ $23,332$ $23,332$ $23,332$ $23,332$ $23,326$ $53,326$ <td>L</td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td>	L				1		
above feed 44.224 47.146 81.761 139.830 [1.796 4.65] 420 [1.796 5.116 139.830 [1.796 5.116 139.830 [1.796 5.116 1.796 5.116 1.796 5.116 1.796 5.116 1.796 5.116 1.796 5.116 1.796 5.116 1.796 5.116 1.796 5.116 1.796 5.110 [1.796 5.110 [1.796 5.110 [1.796 5.110 [1.796 5.110 [1.796 5.110 [1.796 5.110 [1.796 5.110 [1.796 5.106 [1.742 100 [1.745 100 [1.7	47,769	•			141,043	160,502	206,788
Image: Section bit of the s	44,224		÷.		78,312	81,066	119,002
Isis         910 $1,186$ $1,779$ $5,116$ $5,116$ $5,116$ duction $9,3390$ $132,925$ $229,812$ $42,435$ $23,326$ $5,3314$ $17,726$ $30,490$ $5,3314$ $14,722$ $30,490$ $5,3314$ $14,726$ $5,3314$ $14,7248$ $249,048$ $30,700$ $31,347$ $11,1422$ $11,452$ $21,000$ $30,301$ $21,223$ $11,1422$ $11,2426$ $11,1422$ $11,2426$ $11,11426$ $11,12426$ $11,12426$ $11,12426$ $11,160$ $11,160$ $11,160$ $11,12426$ $11,12426$ $11,12426$ $11,12426$ $11,12426$ $11,12426$ $11,12426$ $11,12426$ $11,12426$ $11,116$	486				1,862	2,214	2,615
duction $3330$ $132.925$ $229312$ $429,453$ $229,453$ duction $33,300$ $132,925$ $229,708$ $34,108$ $74,846$ e $11,212$ $10,221$ $10,081$ $11,715$ $30,306$ $35,736$ $63,229$ $36,326$ $21,012$ $10,021$ $10,229$ $33,615$ $55,339$ $33,615$ $52,740$ $37,426$ $52,391$ $3685$ $5,633$ $6,3590$ $11,242$ $18,539$ $37,426$ $52,740$ $3685$ $5,3391$ $14,72,338$ $430,871$ $445$ $52,740$ $31,000$ $0.85$ $0.900$ $11,242$ $14,72,238$ $430,871$ $445$ $31,000$ $0.85$ $0.900$ $114,7243$ $145$ $12,926$ $13,947$ $31,000$ $0.85$ $335,040$ $618,488$ $12,947$ $22,941$ $31,000$ $0.85$ $23,941$ $23,745$ $445$ $23,745$ $10003332$ $114,1,601$ $1$	910				2,222	2,614	4,706
ment $13,405$ $24,125$ $41,108$ $74,846$ ment $24,007$ $29,708$ $38,611$ $62,229$ $78,326$ and supplies $5,655$ $5,838$ $36,611$ $62,740$ $85,39$ and supplies $5,655$ $5,838$ $36,651$ $62,740$ $85,394$ and supplies $5,655$ $5,838$ $30,651$ $62,740$ $85,394$ and supplies $5,653$ $5,838$ $30,621$ $13,797$ $14,723$ $13,742$ att $109,314$ $14,729$ $26,388$ $30,704$ $1462$ $100$ att $109,314$ $14,723$ $28,904$ $30,766$ $140,160$ $1462$ att $109,314$ $14,7224$ $249,048$ $40,160$ $1462$ $100$ att $166,488$ $60,920$ $111,692$ $120,100$ $128,685$ $100$ att $166,488$ $60,920$ $108,67$ $140,160$ $100,221$ $100$ $100,221$	93,390	229	429,453		223,440	246,396	333,111
ment $24,037$ $24,125$ $41,106$ $74,232$ $74,246$ and supplies $5,663$ $6,356$ $1,7,1242$ $18,539$ $62,740$ $62,740$ s and supplies $5,663$ $6,356$ $1,7,1242$ $18,539$ $62,740$ $62,740$ s and supplies $5,663$ $6,356$ $1,7,1242$ $18,623$ $13,947$ $62,740$ $3,6863$ $5,838$ $10,210$ $17,723$ $13,947$ $62,740$ $62,740$ $3,683$ $5,838$ $10,202$ $11,7263$ $13,947$ $62,740$ $62,740$ $14,170$ $14,7243$ $249,048$ $33,063$ $35,5391$ $13,247$ $13,662$ $1100$ $147,243$ $249,048$ $43,562$ $11,1661$ $14,150$ $13,662$ $13,662$ $13,737$ $14,6101$ $14,243$ $1100$ $111,661$ $111,661$ $111,661$ $14,43$ $13,237$ $13,232$ $13,232$ $13,232$ $13,232$ $13,232$ $13,232$ $13,232$ <							
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			2		39,063	44.538	56.350
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	24,097				45,774	51,977	74,954
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	10,221				16,919	18,599	24,523
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	21,015				36,485	36,912	51,483
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5,663				10,499	11,857	17,886
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	3,685				9,446	11,030	12,619
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	ous 4,088				7,536	8,104	11,418
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	12,962				29,181	31,735	49,934
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	rent 14,179	ľ	79,169		41,609	45,915	61,247
	109,314 147	249	430,871		236,510	260,666	360,413
$ \begin{array}{c ccccc} (15,229) & (13,797) & (18,401) & 445 \\ \hline & 0.085 & 0.990 & 0.11,661 & 140,160 & 140,160 \\ \hline & 76,816 & 98,978 & 111,661 & 140,160 & 140,160 \\ \hline & 76,816 & 98,978 & 111,661 & 140,160 & 140,160 \\ \hline & 166,490 & 208,148 & 367,040 & 618,488 & \\ & 166,490 & 208,148 & 367,040 & 618,488 & \\ & (12,372) & (601) & (1,113) & (1,327) & (13,27) & \\ & 454 & 417 & 417 & 85,430 & 122,456 & \\ & 45,66 & 47,512 & 85,430 & 122,456 & \\ & 45,66 & 47,512 & 85,430 & 122,456 & \\ & 45,66 & 47,512 & 85,430 & 122,456 & \\ & 45,66 & 47,512 & 85,430 & 122,456 & \\ & 45,66 & 47,512 & 85,430 & 122,456 & \\ & 45,66 & 47,512 & 85,430 & 122,456 & \\ & 93,392 & 132,941 & 229,812 & 230,590 & \\ & 50,163 & 69,089 & 130,912 & 230,590 & \\ & 141 & 81 & 69 & 130,912 & 230,590 & \\ & 604 & 25,439 & 130,912 & 230,590 & \\ & 604 & 25,439 & 130,912 & 230,590 & \\ & 43,167 & 63,020 & 99,013 & 202,028 & \\ & 50,089 & 130,912 & 227,427 & \\ & 50,277 & 20,128 & 60,931 & \\ & 604 & 25,76 & 74,409 & 160,338 & \\ & 14,115 & 202,277 & 20,128 & 60,031 & \\ & 203,200 & 48,576 & 74,409 & 160,338 & \\ & 14,115 & 202,228 & \\ & 20,128 & 60,931 & \\ & 14,115 & 202,277 & \\ & 20,128 & 60,931 & \\ & 14,115 & 202,228 & \\ & 14,115 & 202,228 & \\ & 14,115 & 202,228 & \\ & 14,115 & 202,228 & \\ & 14,115 & 202,228 & \\ & 14,115 & 202,228 & \\ & 14,115 & 202,228 & \\ & 14,115 & 202,228 & \\ & 14,115 & 202,228 & \\ & 14,115 & 202,228 & \\ & 14,115 & 202,228 & \\ & 14,115 & 202,228 & \\ & 14,116 & \\ & 14,115 & 202,228 & \\ & 14,116 & \\ & 14,16 & .$	694		1,862		952	615	2,179
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	(15,229) (1	(18	445		(12,118)	(13,655)	(25,121)
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$							
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0.85				0.94	0.95	0.92
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	76,816	•	-		115,719	122,085	114,169
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	166 100		640 400			001 020	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	166,490	.,	618,488 /10,405/		342,966	3/0,428	555,249
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	(12,372) (D	-			(15,403)	(020, 11)	(39,433)
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	(240) AFA				(1001) 538	(0/0)	(009)
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	45 666 47		122		75 746	77 517	122,008
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	15,265		23		27,968	28,349	61,131
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	93,392		429,453		223,445	246,396	333,111
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	50,163	130	8		121,513	132,493	187,898
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$					(428)	148	(1,354)
50,225         69,921         130,801         227,427         1           43,167         63,020         99,013         202,028         1         1           43,167         63,020         99,013         202,028         1<	(nasen)				130	2 Z	(011'0) 202
43,167         63,020         99,013         202,028           14,711         14,964         25,439         43,552           694         520         835         1,862           29,150         48,576         74,409         160,338           14,115         20,217         20,128         60,931           29,150         48,576         74,409         160,338           14,115         20,277         20,128         60,931	nse 50.225	130	700		121 013	132 816	183 825
14,711         14,964         25,439         43,552         43,552           694         520         835         1,862         1,862           29,150         48,576         74,409         160,338         160,338           14,115         20,277         20,128         60,931         160,931           4500         20,277         20,128         60,931         160,338	43,167	•			102.433	113,580	149.287
694         520         835         1,862	14,711		Ф		24,626	28,623	38,155
29,150 48,576 74,409 160,338 14,115 20,277 20,128 60,931	694				952	615	2,179
14,113 ZU,Z/1 ZU,128 DU,331	29,150				78,759	85,572	113,312
	1113				0/0'97	29,204	40,901
3,012 (3,301) 12,967 3.88 4.32 5.80	1,522 2.65	<u>5</u> )	12,967 5.80		3,185 4.78	3,753 4.72	(6,422) 4.56
o rounding to the nearest	tals due to rounding to the nearest dolla	Farme with soil rati	nus from 56 to 85	are those with r	oorly drained	heavy-till and tim	oher enile
to the nearest dollar. Farms with soil ratings from 56 to 85 are those with poorly drained, heavy s share only.	Note: Variations in totals due to rounding to the nearest dolla * Interest expense deducted from operator's share only.	. Farms with soil rati	ings from 56 to 85 ¿	are those with <b>F</b>	oorly drained,	ź	eavy – till, and timber soils.

Table 22a. 1991 Average Operating Costs, Investments, and Land Use by Size and Months of Labor for Northern and Central Illinois Hog Farms with Soil Ratings from 56 to 85

Range in size (total acres) 60-259	60-259	260-499	500-799	Over 799	Your Farm	All Farms	Months	Months of Labor
Management returns Number of farms	46	83	81	63		273	21-27 64	31–39 16
Some costs and returns per tillable acre								
Soil fertility	30.66	32.13	32.03	31.36		31.68	33.86	32.22
Pesticides	23.84	23.25	24.30	26.51		25.03	24.79	22.44
Seed and other crop	18.90	17.35	18.25	17.91		17.97	18.73	15.94
Crop total	73.39	72.73	74.59	75.78		74.68	77.38	70.61
Light vehicle and utilities	21.83	13.00	13.25	10.95		12.70	13.45	11.71
Machinery repairs, supplies	35.12	24.84	25.87	22.16		24.60	24.58	29.06
Machinery hire	14.14	9.32	8.40	6.74		8.19	8.04	5.90
Fuel and oil	18.43	13.65	13.71	13.03		13.68	13.98	16.20
Machinery depreciation	42.42	28.74	28.10	26.41		28.33	30.25	31.05
Power and equipment total	131.93	89,56	89.32	79.30		87.51	90.30	93.92
Drying and storage	4.58	4.08	3.71	3.18		3.60	4.10	2.53
Building repair	13.25	9.94	9.43	10.03		10.01	8.79	11.50
Building depreciation	38.13	16.37	18.02	17.67		18.73	19.43	16.70
Building total	55.96	30.39	31.16	30.87		32.34	32.31	30.73
Labor, unpaid	94.38	56.04	34.76	25.65		38.40	37.49	34.15
Labor, hired	20.67	13.26	35.42	37.87		31.35	26.64	30.36
Labor total	115.06	69,30	70.18	63.52		69.75	64.13	64.51
Value of feed fed	380.72	245.07	253.68	215.12		242.69	236.58	257.77
Capital purchases	161.84	50.72	53.34	69.79		66.39	75.48	63.06
Operator interest paid	41.49	28.17	39.33	31.77		34.01	33.10	29.91
Crop returns	261.53	252.28	262.14	283.79		269.64	278.85	259.11
Livestock return above feed	242.12	142.12	148.35	141.57		149.71	140.84	149.11
Value of farm production	511.30	400.71	416.98	434.79		427.16	428.08	417.40
l otal nonfeed cost	598.48	443.87	451.88	436.23		452.14	452.88	451.61
Management returns	-83.38	-41.60	-33.39	0.45		-23.17	-23.73	-31.48
Farm Investment								
Livestock Inventory Grain inventory	50,654 36 503	/0'60/ 67.630	112,324 07 834	198,839		109,214	114,223	219,683 1 E E O B E
	00,000	04,003	100'16	116'201		040'18	110,409	100,900
machinery and auto	16,006	22.842	41.720	79.531		40.374	47,975	75.617
buildings and fence	31,669	27,561	57,906	108,652		55,970	58,377	75,650
		168	132	48		101	115	184
Value of land (current)	315,093	586,403	968,200	1,759,303		924,637	1,020,325	1,361,042
Total farm investment	449,944	772,219	1,278,111	2,329,289		1,227,339	1,354,472	1,889,159
Total investment per acre	2,275	2,071	2,037	1,974		2,028	2,060	1,754
Machinery invest, per till, acre	88	69	76	81		17	83	95
Corn and corn silade	610	RO R	E7 6	E0 7		1 22	с с <u>л</u>	
Sovbeans	2.10	55 1 25	0.10	33.0		20.7	0.90 0.00	0.4C
Wheat	1.7	2.2	3.0	3.2		2.8	2.8	2.9
Other small grain	2.5	1.7	0.7	0.5		0.0	1.0	0.8
Diverted acres	3.8	4.4	4.9	4.8		4.7	4.4	4.5
All hay and pasture	5.0	5.6	3.5	3.1		3.8	2.9	7.8
Crop yields, pusnels per acre	101	901		0				00
Sovbeans	4	42	40	47		211	911	109 41
Wheat	46	36	351	36		36	38	35
Note: Variations in totals due to rounding to the nearest	ding to the neare	dollar.	Farms with soil ratings from 56 to 85	s from 56 to 85 a	are those with po	oorly drained,	are those with poorly drained, heavy -till, and timber soils	mber soils.
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Table 23. 1991 Average Return, Costs, and Financial Summary by Size and Management Returns for Southern Illinois Grain Farms with Soil Retinue from 36 to 85.

180-339	340-799	800-1199	Over 1100	Your Farm	All Farms	340 -	-799
			01010				Ę
30	224	149	143		546	56 56	1 IIGH 20%
279	591	67	1,829		1,001	609	604
252	545	891	1,706		928	557	575
56 10 1	60	60 18 2	59 20 0		60	57	64 1 0 0
8.0 0.8	- <del>-</del>	5.1	13.7		5 0 0 0	1.7	<u>, 0</u>
106	19	68	26		82	20	17
22	163	330	587		312	137	187
0	0	0	0		0	0	0
	440 670		212 000		206 200		166 600
22,014 2004	210'011	,,	10,200		5 7 1 2		
205	2010	1,965	4 074		1 988	737	4,003 975
804	1,539	3,341	6.199		3.211	1.418	1.368
56.047	124.601	208.350	403.048		216.615	106.228	161 937
					_		
16.059	35,285	58.916	114.614		61.454	40.910	36.383
13,002	27,778	43,241	84,461		46,032	32,933	26,698
1,540	3,102	5,191	11,329		5,741	3,508	2,213
17,632	19,741	26,171	43,190		27,521	20,894	19,260
480	516	988	1,752	8	939	469	491
1,820	4,856	7,265	13,370		7,576	4,495	6,012
212,2	3, 195	217,0	10,8/1		6,085	4,058	3,801
00000	20202	100'01	34,370 85 206		600'01	12,254	10,341 32 086
70.590	134 678	211 034	399,340		221 312	147 701	138 185
120	668	505	2.101		696	(1.082)	2.360
(14,421)	(6'408)	(2,178)	5,800		(3,728)	(42,555)	26,112
					•	•	
0.79	0.93	0.99	1.01		0.98	0.72	1.17
53,126	106,563	136,693	161,558		134,795	85,359	139,802
60 E00	120 600	719 710			207 706	105 600	154 400
(2 5 4 3)	136,020	211,041 RR5	472,440 1 055		CE 1, 122	(220'02)	104,400
(5,040)	(85)	(153)	(617)		(243)	(117'n1)	(83)
291	673	1,149	1.654		1.039	639	492
1,085	4,191	6,652	17,157		8,088	5,172	3,665
3,033	4,897	4,224	4,530		4,515	4,617	4,961
56,047	124,601	208,350	403,048		216,616	106,228	161,937
29,253	65,771	109,603	212,993		114,284	-	68,851
838	602 (FE)	2,150	6,337		2,539	1,608	21
174	(JU) 548	9696	1 430		873	(100)	383
30,515	66,863	112,772	220,666		117.676	72.980	69.268
25,532	57,740	95,581	182,381		98,941	33,248	92,669
5,275	10,791	15,853	35,757		18,408	15,379	8,872
120	668	505	2,101		696	(1,082)	2,360
20,378 4 432	47,617 14 246	80,233 21,602	148,726 37 180		81,502 21 721	16,786 (8.304)	86,157 37 140
1 887	7 282	14.328	17 900		11 680	(22,07)	42 002
1.02	•	5.02	5.53		4.94	-0.28	8.18
g to the near	est dollar.						
or's share on	۷.						
	106 22 22 22 22 3,004 3,004 15,002 15,002 15,002 17,632 15,002 17,632 15,002 17,632 17,632 17,632 17,632 17,632 17,632 17,633 17,632 17,633 17,633 17,633 29,253 838 838 838 29,253 29,253 29,253 29,253 29,253 29,253 29,253 29,253 29,253 29,255 29,253 29,174 1,002 17,630 17,630 17,632 29,253 29,253 29,253 29,255 29,174 1,002 17,632 17,632 17,632 29,253 29,174 1,002 17,630 17,630 17,630 17,630 17,630 17,632 29,175 20,79 20,77 20,77 20,775 20,77	118 35 35 35 35 35 35 35 1124 124 124 124 124 124 124 124 124 12	79 163 163 163 3,482 3,482 3,482 3,482 3,482 3,482 3,482 3,482 3,482 3,482 3,482 3,482 3,482 3,482 3,482 19,741 10,316 6,885 4,191 106,563 10,316 6,885 6,885 10,316 106,563 10,316 10,3316 10,316 10,316 10,316 10,316 10,3316 10,320 10,320 10	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$

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se by Size a	•
nd Land Us	
Investments, a	
perating Costs,	s from 36 to 85
a. 1991 Average O	with Soil Ratings
Table 23a. 1	8

WITH SOIL HALINGS ITOM 30 LO 00	20 10 00							
Range in size (total acres)	180-339	340-799	800-1199	Over 1199	Your Farm	All Farms	340-799	
Management returns Number of farms	30	224	149	143		546	56 56	підп 23% 56
Some costs and returns per tillable acre	cre							
Soil fertility		30.95	31.25	31.24		31.17	35.54	31.34
Pesticides	18.31	18.62	19.29	19.88		19.40	21.00	17.23
Seed and other crop	14.00	15.14	15.56	16.06		15.68	16.90	14.66
Crop total	63.65	64.71	66.10	67.19		66.25	73.44	63.22
Light vehicle and utilities	6.58	4.27	4.06	3.33		3.80	3.95	3.93
Machinery repairs, supplies	12.11	14.99	15.13	15.54		15.25	15.82	14.33
Machinery hire	5.46	4.73	4.55	3.48		4.09	4.83	4.66
Fuel and oil	8.70	9.62	9.75	9.58		9.62	10.17	9.46
Machinery depreciation	18.70	17.32	15.03	17.58		16.86	24.35	14.00
Power and equipment total	51.53	50.94	48.51	49.51		49.62	59.12	46.39
Drying and storage	1.56	1.41	1.46	1.57		1.50	1.33	1.15
Building repair	2.34	1.84	1.60	1.69		1.71	1.82	1.28
Building depreciation	2.20	2.44	2.76	3.38		2.97	3.15	1.42
Building total	6.10	5.69	5.82	6.64		6.19	6.30	3.84
Labor, unpaid	67.21	31.94	21.05	13.58		20.77	33.94	29.05
Labor, hired	2.67	4.26	8.31	11.74		8.90	3.57	4.42
Labor total	69.88	36.20	29.36	25.32		29.67	37.51	33.47
Value of feed fed	17.49	14.21	14.72	11.49		13.08	12.45	13.52
Capital purchases	25.98	22.18	21.79	27.60		24.74	29.17	16.05
Operator interest paid	30.01	20.14	20.72	17.65		19.24	17.58	22.06
Crop returns	206.16	217.62	221.90	224.23		221.75	181.58	270.36
Livestock return above feed	11.91	6.39	5.89	6.01		6.16	5.26	6.97
Value of farm production	222.15	228.49	233.74	236.26		233.52	190.70	281.39
Total nonfeed cost	279.78	246.97	236.75	234.09		238.58	265.15	240.12
Management returns	-57.16	-17.26	-2.44	3.40		-4.02	-76.40	45.37
Farm investment								
Livestock inventory	11,336	11,457	15,417	21,258		15,098	11,838	10,512
Grain inventory Bemaining cost in	31,768	66,843	110,245	221,139		1/1/11	1/0'1/	79,281
machinery and auto	15.079	26.152	39.154	102 595		49.113	40.666	21.624
buildings and fence	3,496	7,446	12,592	28,355		14,109	9,512	4,323
soil fertility	с С	57	64	243		105	176	0
Value of land (current)	273,482	650,944	1,046,347	1,897,695	2	1,064,637	626,243	733,021
Total farm investment	335,164	762,897	1,223,817	2,271,267		1,260,227	759,503	848,759
Total investment per acre	1,200	1,290	1,265	1,242		1,259	1,247	1,406
Machinery invest. per till. acre	60	48	44	60		53	73	38
Percent tillable land in			r 07			0.01	107	007
Corri and Corri Silage	40	2.95	40.7	40.7		40.04 7 7 7	40.0 0 n o	40.04 1000
Wheat	9.70	12.2	12.8	12.1		12.3	13.5	10.4
Other small grain	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Diverted acres	4.8	5.4	4.7	4.8		4.9	6.0	3.5
All hay and pasture	6.1	2.1	1.6	1.4		1.7	2.2	1.1
Crop yields, bushels per acre	č	Ş		ľ		Ċ	0 T	
Soybeans	- 8 38 -	90 90 90	38	38		990 980	34	45
Wheat	34		32	32		32	31	40
Note: Variations in totals due to rounding to the nearest	ding to the near	est dollar.						

Table 24. 1991 Average Return, Costs, and Financial Summary by Size and Months of Labor for Southern Illinois Hog Farms with Soil Ratings from 36 to 85

60–259 20	260-499	500-799	Over 799	Your Farm	All Farms	Months	oflahor
20	i					21-27	-27 31-30
	52	49	45		166	30,	
195 170	382 320	653 580	1,177		655 582	699 583	903
61	67C	58	50		200	20	58
16.1 4.0	17.6	20.8 6.0	37.2		23.7	24.1 7 6	33.7
0.4 7 C	ן. מ	0.9 162	0.71		0.4 תת	0.7 10	90.61 20.4
2,962	2,664	3,899	7,150		4,281	4,283	5,210
0	0	0	N		-	0	0
2 626	70 757	4 1	244 772		127 363	130 300	165 607
6,673	40,314	68,796	135,891		75 397	73.572	87.377
742	540	739	2,262		1,090	1,262	1,849
3,113	2,114	3,062	7,245		3,905	5,062	8,183
3,155	-	186,793	390,170		207,755	210,295	263,016
2041	20 7AG	37 760	78 173		11 002	300 61	11019
24,675	28.084	39,897	91,155		41,023	49,020	62 096
5,968	7,174	10,690	23,873		12,594	14,145	15,832
23,039	24,783	29,676	54,822		34,160	34,279	48,051
5,769 0,006	5,431	8,799	15,734		9,259	11,796	12,864
2,090 3,426	0,040 0,007	4,9/U 6,348	9,185 11 083		102,C	0,103	6,947 6,800
3.051	13.915	21.381	46,517		24,853	25,544	32,961
9,840	18,323	29,646	57,298		31,209	30,410	40,008
100,905	128,034	189,176	387,791		213,229	221,818	286,780
126	137	370	844			381	1,024
(7,623)	(14,171)	(2,012)			(5,078)	(11,141)	(22,739)
		000	2				000
9.627	~	0.99	125.974		105.313	104 711	0.92
177,043	184,900	283,531	567,570		316,803	317,711	397,156
8,829) (23)	(18,017)	(11,592)	(39,970)		(20,965)	(21,371)	(32,758)
(22) 440	(00) 202	1013	(021,1)		(395)	(413)	(70)
63,802	46,041	67,939	113,199		72.850	74.382	84.442
11,672	7,645	17,991	24,769		15,826	12,197	18,182
93,155	113,725	186,793	390,170		207,755	210,295	263,016
48,927 20	64,540	99,744	216,859 (2,254)			119,344	162,745
n N	(202)	(121)	(3,204) 108		(770,1)	(1,486)	(2,303)
222	220	631	1,232		616	579	875
9,176	64,597	100,348	215,023		114,070	118,917	161,316
3,979	49,127	86,445	175,147		93,685	91,378	101,700
126 126	137	370	40,247 844		21,378	23,383 381	1.024
32,509	37,251	68,836	135,744		72.703	68.376	79.715
13,316	14,055	27,218	56,418		29,335	18,387	27,953
8,478 4.36	2,366 3.28	16,343 5.59	6.0		11,172 5.38	8,849 4.80	3,225 4.08
o the neares	9						
* Interest expense deducted from operator's share only.							
	42,626 46,673 742 742 33,113 93,155 5,769 5,769 5,769 5,769 5,769 5,769 5,769 5,769 5,769 5,769 5,769 5,769 6,840 00,905 13,051 9,840 6,827 6,840 6,829 (7,623) 6,840 6,905 12,623 12,626 12,623 12,623 12,625 12,623 12,626 12,623 12,623 12,625 12,625 12,625 12,625 12,625 12,625 12,625 12,625 13,625 12,625 12,625 13,625 12,625 13,625 12,655 12,555 12,5555 12,555 12,555 12,5		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$

Table 24a. 1991 Average Operating Costs, Investments, and Land Use by Size and Management Returns for Southern Illinois Hog Farms with Soil Ratings from 36 to 85

with Soil Ratings from 36 to 85	36 to 85						1	
Range in size (total acres)	60-259	260-499	500-799	Over 799	Your Farm	All Farms	Months	L .
Number of farms	20	52	49	45		166	21-2/ 30	31 – 39 13
Some costs and returns her tillable acre	-re							
Soil fertility	37.50	32.45	31.28	34.64		33.37	35.71	40.01
Pesticides	18.36	21.05	19 10	20 02		20.85	01 01	10.68
Seed and other crop	17.17	15.56	14.69	17.28		16.21	16.85	18.12
Crop total	73.04	69.07	65.07	73.94		70.43	73.77	77 BU
Light vehicle and utilities	22.57	13.59	11.17	11.04		11.95	13.63	10.53
Machinery repairs, supplies	41.65	29.34	20.33	25.14		25.08	25.32	31.04
Machinery hire	9.85	3.77	5.23	10.38		7.68	4.36	4.08
Fuel and oil	18.70	13.76	12.74	14.27		13.90	14.65	14.85
Machinery depreciation	45.44	24.82	19.27	25.44		24.25	26.09	18.43
Power and equipment total	138.20	85.28	68.74	86.27		82.85	84.05	78.93
Drying and storage	1.97	2.13	1.29	2.75		2.18	1.79	1.85
Building repair	11.95	. 8.07	5.42	7.20		7.01	8.55	7.45
Building depreciation	19.51	11.58	11.71	12.65		12.43	13.92	10.82
Building total	33.43	21.78	18.42	22.59		21.62	24.25	20.12
Labor, unpaid	96.57	58.26	34.15	27.17		37.29	40.40	37.48
Labor, hired	32.47	17.00	16.98	24.72		21.36	18.37	23.60
Labor total	129.04	75.25	51.13	51.88		58.65	58.77	61.07
Value of feed fed	455.03	240.80	183.74	187.27		205.60	200.90	190.00
Capital purchases	89.31	40.05	36.97	56.60		49.10	49.99	35.80
Operator interest paid	43.74	38.54	29.61	28.05		30.95	37.22	25.30
Crop returns	238.73	214.85	196.74	231.65		218.67	223.58	210.49
Livestock return above feed	261.40	122.41	118.52	128.61		129.45	126.14	111.06
Value of farm production	521.73	345.32	321.81	369.25		356.69	360.57	334.30
Total nonfeed cost	565.14	388.77	325.91	367.00		366.09	380.32	364.50
Management returns	-42.70	-43.03	-3.47	3.05		-8.72	-19.10	-28.90
Farm investment								
Livestock inventory	62,615	59,168	83,321	160,431		94,164	82,064	136,882
Grain inventory	29,693	47,174	72,350	172,102		86,365	86,647	131,205
machinery and auto	01 EGB	21 025	92048	00 750			000001	010 4 4
buildings and fence	17,390	16,620	00,940 07 953	61,20		41,912 20183	30,000	44,3/0
soil fertility	0	61	39	32		39	204	232'63
Value of land (current)	218,658	407,168	658,799	1,273,297		693,527	675,772	889,071
Total farm investment	349,924	551,223	876,408	1,750,956		948,187	932,864	1,230,756
Total investment per acre	1,791	1,444	1,343	1,488		1,448	1,395	1,363
Machinery invest. per till. acre	121	64	58	62		72	83	56
Percent tillable land in	e i							
	5.1.8	45.6	43.4	49.0		46.9	47.5	49.3
Suy bears Wheat	28.8	31 iS 2 i S	34.9	35.3 8 0		34.2	36.1 9 E	32.3
Other small drain				9. C		0.0	0.0	000
Diverted acres	202	0.0	40.0	0.0 0.0		0.0	0.0	c a
All hay and pasture	3.9	2.9	4.2	2.9		e.e	2.1	0.0
Crop yields, bushels per acre								
Corn	03 03	91	88	66		94	95	92
Wheat	36 36	31 0	0 0 0	41 32		31	88.00	90 90
Note: Variations in totals due to rounding to the pearest	ding to the pase	dollar		5		-	10	

Number of cows in herd Number of farms Total acres in farm Acres of tillable land Soil rating on tillable land Total months labor Months of hired labor	10-39 20	40-79 0	Over 70	All Farms	00 01	40-79 C		
Total acres in farm Acres of tillable land Soil rating on tillable land Total months labor Months of hired labor		7.A	0vel / 35 35	147		29	Uver /9 47	All Farms 85
Acres of tillable land Soil rating on tillable land Total months labor Months of hired labor	278	345	547	384	358	312	644	501
Soil rating on tillable land Total months labor Months of hired labor	226	292	472	326	317	281	596	459
lotal months labor Months of hired labor	75	72	75	73	62	60	59	60 22 0
	0 4. 0 4. 0	20.2 2	32.2 11 6	4. C 7.7 7.7 7.7	20.0 4.0 7.0	1.22 6.6	30.2 16.8	30.0
Beef nroduced hundredweight	338	460 460	202	501	201	349	769	575 575
Pork produced, hundredweight	266	132	165	158	137	94	145	127
Dairy cows, number	33	57	105	65	29	60	115	87
E								
	58,760	76,460	123,139	85,166	64,363	65,035	137,511	105,039
ırns above feed	30,042	66,042	125,134	75,214	60,083	54,600	124,007	93,558
	132	831	717	209	598	225	446	387
	2,414	1,361	6,002	2,609	10,032	7,503	17,229	13,149
duction	91,346	144,695	254,992	163,698	135,076	127,363	279,193	212,133
E								
	15,236	20,194	34,157	22,844	18,374	17,646	40,510	30,365
ent	23,967	35,335	61,514	40,022	29,983	34,803	66,932	52,058
ng and fence	4,826	8,702	20,401	10,960	3,494	5,401	9,364	7,390
	22,444	29,112	46,272	32,291	42,457	30,011	51,494	43,208
ock services and supplies	8,470	13,819	21,619	16,377	9,057	10,352	19,753	15,413
	202,4	0000	21410 71410	0,307	2,049	2///2	802'0	4,130
irisurarice artu rriscenarieous Interest on nonland canital			20 4 0E	- 60,4 20 007		100,4	210'7	040'0
	12,401 18,283	21 453	34,758	24,070	18,047	15,787	30,602	206,02
	112 865	158 608	280.678	181 448	142 236	138 510	266.260	200 543
stment	3,659	551	606	987	89	746	572	580
	(17,858)	(13,360)	(25,079)	(16,762)	(7,070)	(10,401)	13,505	3,170
00	•							
	0.81	0.91	0.91	06.0	0.95	0.92	1.05	1.01
er man	71,041	86,120	94,986	87,743	69,171	69,275	92,567	84,793
	128,6U3	188,156 /6 662)	339,661	210,120 /a 288)	159,759	1/3,643	346,262	267,621
Accts, receivable (net change)	(223)	(0,002) (496)	(100'01)	(0,200)	(78)	(31)	(030)	(151)
	66	1,664	2,749	1,832	1,394	1,149	2,244	1.780
	20,799	27,216	56,201	33,244	24,169	30,798	63,900	48,399
	13,705	9,818	13,600	11,247	897	15,572	6,400	8,947
	91,786	145,626	256,648	164,734	135,537	128,002	279,802	212,736
Cash operating expense	54,331	78,984	143,517	90,995	75,952	69,026	144,690	111,597
Prepaid expense (-II increased) Accts payable (±if increased)	10277	429	3,208	1,148	//n'L	(038)	503 203	1/4 275
Farm – produced inputs	453	938	1.680	1.049	659	758	1.144	961
nse	55,156	80,230	148,369	93,042	77.687	68.662	147,318	113,110
	36,630	65,396	108,278	71,693	57,850	59,339	132,483	99,626
	8,646	16,099	31,226	18,686	11,598	15,329	25,999	20,834
stment	3,659	551	606	987	88	746	572	580
Net farm income * (coerstor's chara) *	31,644	49,849	77,659	53,993	46,341	44,756	107,056	79,372
	10,132	22,122	20,010	24'42N	0/6'07	24,401	202'10	40,200
Labor & mgt. income per operator Rate earned on investment, %	(327) 2.42	4,754 4.17	3,009 4.18	3,647 4.01	8,747 4.57	8,798 4.34	23,419 7.71	16,877 6.74
Note: Variations in totals due to rounding to the nearest dollar. Northern Illingis includes both northern and central Illingis	to the neares	st dollar North	am Illinois include	se hoth northe	n and central III	indie		

Table 25. 1991 Average Return, Costs, and Financial Summary by Number of Cows in Herd for Illinois Dairy Farms

Area of state		Northern Illinois				Southern Illinois	llinois	
Number of cows in herd Number of farms	10-39 20	40-79 92	Over 79 35	All Farms 147	10-39 9	40-79 29	Over 79 47	All Farms 85
Some costs and returns per tillable acre	cre							
Soil fertility		31.07	33.06	31.57	30.59	30.97	32.65	32.15
Pesticides	20.93	19.98	21.72	20.67	13.91	16.87	19.26	18.37
Seed and other crop	17.53	18.07	17.57	17.85	13.52	14.91	16.03	15.61
Crop total	67.55	69.12	72.35	70.09	58.02	62.74	67.94	66.13
Light vehicle and utilities	14.15	18.53	21.47	19.13	15.68	21.01	15.16	16.42
Machinery repairs, supplies	31.83	35.92	38.56	36.44	28.80	33.63	33.63	33.28
Machinery hire	18.34	11.53	15.39	13.50	2.66	9.23	13.28	11.66
Fuel and oil	16.29	18.25	15.79	17.22	16.43	18.40	16.73	17.06
Machinery depreciation	25.64	36.71	39.10	36.49	31.12	41.49	33.46	34.97
Power and equipment total	106.26	120.94	130.30	122.79	94.68	123.75	112.25	113.37
Drying and storage	2.45	3.85	5.25	4.20	1.27	1.26	0.78	0.91
Building repair	6.25	7.55	10.95	8.60	4.26	4.93	4.79	4.78
Building depreciation	12.70	18.38	27.01	20.83	5.50	13.02	10.14	10.40
Building total	21.40	29.78	43,21	33.62	11.03	19.20	15.70	16.09
Labor, unpaid	83.08	72.96	62.18	70.19	68.75	78.19	46.31	54.61
Labor, hired	16.43	26.68	35.83	28.87	65.32	28.52	40.05	39.49
Labor total	99.51	99.64	98.02	20.06	134.07	106.71	86.36	94.10
Value of feed fed	231.77	273.12	295.05	276.79	193.52	263.39	234.11	237.27
Capital purchases	32.71	49.35	52.32	48.81	53.60	40.49	43.79	43.82
Operator interest paid	35.24	46.35	40.77	43.38	48.35	39.43	39.68	40.26
Crop returns	260.52	261.69	260.84	261.29	203.25	231.24	230.62	228.75
Livestock return above feed	133.19	226.04	265.07	230.76	189.74	194.14	207.98	203.75
Value of farm production	404.99	495.24	540.14	502.22	426.56	452.86	468.24	461.99
Total nonfeed cost	500.40	542.85	594.55	556.68	449.16	492.50	446.55	456.34
Management returns	-79.18	-45.73	-53.13	-51.43	-22.33	-36.99	22.65	6.90
Farm investment								
	50,881	83,250	158,086	96,665	56,947	83,599	166,878	126,826
Grain inventory Remaining cost in	31,379	286,06	91,990	58,895	47,219	38,073	81,631	63,127
machinery and auto.	14673	32 847	65 958	38 258	23 877	32 509	67 574	50 0R4
buildings and fence	24,486	39,460	78,533	46,726	7,544	19,070	34,687	26,485
soil fertility	0	588	203	416	0	0	0	0
Value of land (current)	406,296	476,732	761,280	534,898	402,087	350,824	680,036	538,287
Total farm investment	533,715	683,858	1,156,048	775,856	537,674	524,075	1,030,804	805,707
Total investment per acre	1,923	1,981	2,113	2,020	1,503	1,678	1,600	1,609
Machinery invest, per till, acre	65	112	140	117	75	116	113	111
Percent tillable land in	1						0.07	0.01
Southeans	- 20. I	0.45.0 7.6	04.0 12 6	0.40	30.0	29.V 7 2 2	40.04 0.04 0.04	40.2
Wheat	1.0	. C	0.0	0.5	111	 - 0 - 0	13.5	130
Other small grain	5.4	10 0	0.1	0.0	0.0	0.0	0.0	0.0
Diverted acres	3.6	4.0	3.5	3.8	4.5	3.3	3.8	3.7
All hay and pasture	20.8	28.9	24.1	26.5	17.4	26.7	17.0	19.1
Crop yields, bushels per acre		1						
Corn	112	108	105	107	85	97 20	91	92
Wheat	312	2 C	90	4 G	56	9 C C	8 g	9 g
								l

Area of state						Months	of Labor	Southern
Range in size (total acres)	180-339	340-799	Over 799	All Farms	Your Farm	21-27	31–39	Illinois
Number of farms	15	52	29	96		13	7	25
Total acres in farm	280	525	1,208	693		890	1,038	582
Acres of tillable land	243	459	026	580		539	915	437
Soil rating on tillable land	11	76	81	78		11	76	51
lotal months labor Months of hired labor	13.1	18.7	20.0	20.8 9.02		0.02	50.0 0 0 0	20.7
Beef produced, hundredweight	1.138	2.091	4.216	2.584		2.330	4.069	1101
Pork produced, hundredweight	23	761	1,082	747		1,311	1,867	469
Dairy cows, number	0	0	0	0		0	0	0
Dollar returns per farm								
Crop returns	70,010	139,254	286,502	172,916		157,406	286,575	81,614
Livestock returns above feed	4,062	14,509	32,347	18,265		27,893	58,146	17,327
Custom work	1,295	1,866	5,577	2,898		2,379	5,053	776
Other farm receipts	650	2,625	2,600			1,641	3,415	1,278
Value of farm production	76,018	158,255	327,026	196,388		189,318	353,189	100,994
Dollar costs per tarm								
Crop expenses	17,968	39,242	84,003	49,440		44,162	77,653	24,394
	21,6/3	41,282	/6,142	48,749		48,450	75,856	28,983
bullaing and lence	000'0	125,11	67/11	0/0'71		120,21		4,1U5
Labor Liveteck continee and cumulice	8/C'BL	676'17	43,031	050,15		000,05	20,748	27,819
Livestock services and supplies	2,240	79/'C	11,413	0,932		0,419	011,01	4,346 9 F 9 4
lakes Incluance and miscellaneous	107'0	0,920 6 058	13,402	070'II		200'8		- 00'0
Interest on nonland canital		0,000 95 675		000,7		0,019	75 960	2020
Land charge or net rent	18,931	36,698	83.531	43,133		41,030	70,885	19,240
Total nonfeed cost	111 158	213 121	410 348	250 487		240 263	A18 218	135 761
Capital account adjustment	1.471	272	4.968	1.878		115	0 4 0 4	3.283
Management returns	(33,668)	(54,593)	(87,352)	(61,219)		(59,829)	(65,028)	(31,483)
Farm production per \$1.00								
of nonfeed costs	0.68	0.74	0.78	0.76		0.76	0.84	0.74
Farm production per man	69,741	101,638	137,247	113,290		96,076	120,210	58,638
Financial summary								
Cash operating income	191,309	486,019	971,011	586,479		497,298	935,958	188,938
	(11,264)	(37,391)	(45,583)	(35,783)		(19,613)	(33,541)	(11,671)
Accts. receivable (net change)	(07C)	(995,1)	(1,813)	(1,490)		(285,1)	(3,220)	(693)
l ann products used I ace nurchasad faad	10 202	36 343	1,791 60 500	30 574		1000,1	1,914 60.643	101
Less purchased livestock	93.729	253,551	537.872	314.468		247.096	478,277	53,641
Adjusted gross farm income	76,018	158,255	327,026	196,388		189,318	353,189	100,994
Cash operating expense	44,217	96,849	195,675	118.479		113.280	193.583	67,808
Prepaid expense (-if increased)	934	2,161	8,159	3,781		489	7,619	(1,054)
Accts. payable (+if increased)	0	ъ	84	28		(19)	34	(386)
Farm – produced inputs	0	9	217	75		6	54	207
Total operating expense	45,151	99,032 50,032	204,135	122,363		113,757	201,289	66,574
Income before depreciation	30,867	527,90	122,891	74,025		195,67	151,900	34,421
Capital account adjustment	1.471	272	4 968	1 878		115	00'4  0 C	800's
Net farm income *	19.112	37.235	89.821	50.289		45.942	113.482	28.115
(operator's share) *	6,096	(5,238)	(69)	(1,906)		5,808	8,647	4,565
Labor & mgt. income per operator	(16,568)	(34,102)	(57,425)	(38,408)		(39,318)	(24,694)	(12,805)
Rate earned on investment, %	0.24	1.48	2.55	1.95		1.81	3.44	1.13
Note: Variations in totals due to rounding to the nearest dollar. Northern Illinois includes both northern and central Illinois	ding to the near	est dollar. North	ern Illinois includ	les both northe	rn and central	Illinois.		

Note: Variations in totals due to rounding to the nearest dollar. Northern Illin \* Interest expense deducted from operator's share only.

al acres) 18 turns per tillable acre utilities s, supplies s, supplies ciation de ge	340-799         340-799           52         38.61           38.61         27.49           85.48         9.35           9.35         9.35           9.35         9.35           9.35         9.35           9.35         9.35           9.35         9.35           9.35         9.35           9.35         9.35           9.35         9.35           9.35         9.35           9.32         9.35           9.32         9.35           9.32         9.35           9.32         9.35           9.32         9.35           9.33         9.35           9.33         9.32           9.32         9.33           9.32         9.33           9.32         9.33           9.32         9.33           9.45         11           15.49         11           16.45         11           175.49         11           18.45         11           19.45         11           11.10         11           11.10         11           11.10 </th <th>Over 799 29 29 29 29 29 29 21 29 20 29 29 29 20 45 20 20 45 20 20 45 20 20 45 20 20 45 20 20 20 20 20 20 20 20 20 20 20 20 20</th> <th>All Farms 96 36.86 27.89 20.53 85.28 85.28 85.28 85.7 7.43 13.80 30.83 84.09 84.09 2.86</th> <th>Your Farm</th> <th>21-27 13</th> <th>31–39 7 35.96</th> <th>Illinois 25</th>	Over 799 29 29 29 29 29 29 21 29 20 29 29 29 20 45 20 20 45 20 20 45 20 20 45 20 20 45 20 20 20 20 20 20 20 20 20 20 20 20 20	All Farms 96 36.86 27.89 20.53 85.28 85.28 85.28 85.7 7.43 13.80 30.83 84.09 84.09 2.86	Your Farm	21-27 13	31–39 7 35.96	Illinois 25
		35.46 29.22 29.22 86.60 7.73 86.60 4.75 4.75 22.30 29.87 29.87 29.87 29.87 29.87 29.87 29.87 29.87 29.87 29.87 29.45 20.45	36.86 27.89 27.89 85.28 85.28 8.57 7.43 7.43 7.43 7.43 7.43 7.43 8.57 7.43 8.57 23.47 7.43 8.57 23.80 30.83 2.86			35.96	
		35.46 29.22 21.92 21.92 7.73 7.73 4.75 13.85 22.30 22.30 22.30 23.4 9.34 9.34 9.34 9.34 20.45	36.86 27.89 20.53 85.28 8.57 7.43 7.43 7.43 7.43 7.43 7.43 7.43 7.4			35.96	
pplies nent total		22.22 21.92 7.73 7.73 7.73 7.73 4.75 7.85 7.30 22.30 22.30 23.49 6.64 9.34 23.91 23.91 23.91	27.89 20.53 85.28 8.57 7.43 7.43 13.80 30.83 84.09 2.86		37 79		28.07
pplies pn on nent total		21.92 86.60 7.73 22.30 22.30 4.75 7.85 23.30 29.87 29.87 29.87 29.87 29.87 29.87 20.45 20.45	20.53 85.28 8.57 8.57 23.47 7.43 7.43 10.83 30.83 84.09 2.86		24.33	28.87	14.30
pplies on nent total		86.60 7.73 22.30 4.75 4.75 13.85 29.87 29.87 29.87 6.64 6.64 9.34 9.34 23.91 23.91	85.28 8.57 8.57 23.47 7.43 7.43 13.80 30.83 84.09 84.09 2.86		19.87	20.06	12.59
pplies on nent total		7.73 22.30 4.75 4.75 29.87 29.87 29.87 6.64 6.64 9.34 9.34 23.91 20.45	8.57 23.47 7.43 7.43 13.80 30.83 84.09 84.09 2.86		81,99	84.89	55.86
pplies on nent total		22.30 4.75 13.85 29.87 29.87 78.49 6.64 9.34 9.34 9.34 20.45	23.47 7.43 13.80 30.83 84.09 2.86		8.86	8.22	8.47
on nent total		4.75 13.85 29.87 78.49 6.64 9.34 9.34 23.91 23.91 20.45	7.43 13.80 30.83 84.09 2.86		21.24	23.78	23.17
n nent total		13.85 29.87 78.49 6.64 9.34 9.34 23.91 20.45	13.80 30.83 84.09 2.86		11.44	4.36	3.13
on and and and and and and and and and an		29.87 78.49 6.64 9.34 9.34 23.91 20.45	30.83 84.09 2.86		12.88	14.48	13.85
nent total 8		78.49 2.30 6.64 9.34 18.28 23.91 20.45	84.09 2.86		35.54	32.09	17.75
F		2.30 6.64 9.34 18.28 23.91 20.45	2.86	0	89,95	82.93	66.36
-		6.64 9.34 18.28 23.91 20.45			2.78	2.82	0.86
1		9.34 18.28 23.91 20.45	6.52		5.30	9.27	4.34
		18.28 23.91 20.45	12.48		15.19	9.91	4.20
Building total 28.20		23.91 20.45	21.86		23.26	22.00	9,40
		20.45	35.03		36.43	34.72	47.97
			18.50		28.65	20.76	15.73
Labor total 76.41		44.36	53.53	ł	65.07	55.48	63.70
fed 2		217.04	229.48		239.50	244.08	158.37
Capital purchases 50.97		57.75	54.14		83.11	25.96	24.33
Operator interest paid 33.96		39.39	45.59		42.58	52.53	29.21
Crop returns 287.95		295.35	298.29		292.24	313.29	186.88
Livestock return above feed 16.71	31.60	33.35	31.51		51.79	63.57	39.67
uction		337.13	338.78		351.49	386.12	231.26
Total nonfeed cost 457.19	464.22	432.30	447.62		462.79	457.21	310.87
Management returns – 138.48	-118.92	-90,05	-105.61		-111.08	-71.09	-72.09
tory	206,184	404,064	246,576		222,793	486,889	122,901
Grain inventory 50,500		196,431	118,035		116,088	182,501	49,239
		91010					100 10
buildings and fence 30 461	45.368	58.370	221,25 46 967		20,230 45,108	09,437 41,206	000'17
		67	1.750		10.298	0	0
Value of land (current) 420,684	w	1,856,257	1,068,206		1,001,169	1,575,231	431,191
Total farm investment 599,966	1,20	2,609,204	1,533,658		1,453,712	2,375,365	633,115
2,1	2'2	2,160	2,213		1,633	2,287	1,087
Machinery invest. per till. acre 59	86	97	06		108	98	49
corn silage		65.2	66.6		64.1	66.7	36.2
Soybeans 11.3	15.5	21.7	18.4		18.5	16.1	20.2
imall grain		0. o - c			ה מ כי כי		00
		0.0	5 C		ה ס ס פי	7.4 7.4	2 U
All hav and pasture 17.3		6.7	8.0 2.0		114	2.4	30.5
ields, bushels per acre			1				
Corn 128	125	122	123		124	130	85
Soybeans 54 Wheat 77		43 75	44		40	54	38
		· · ·	<b>1</b>			- t	74

 Table 27.
 1991 Average Return, Costs, and Financial Summary by Size, Type, and Soil Rating for Part-time Illinois Farms that Use Less than

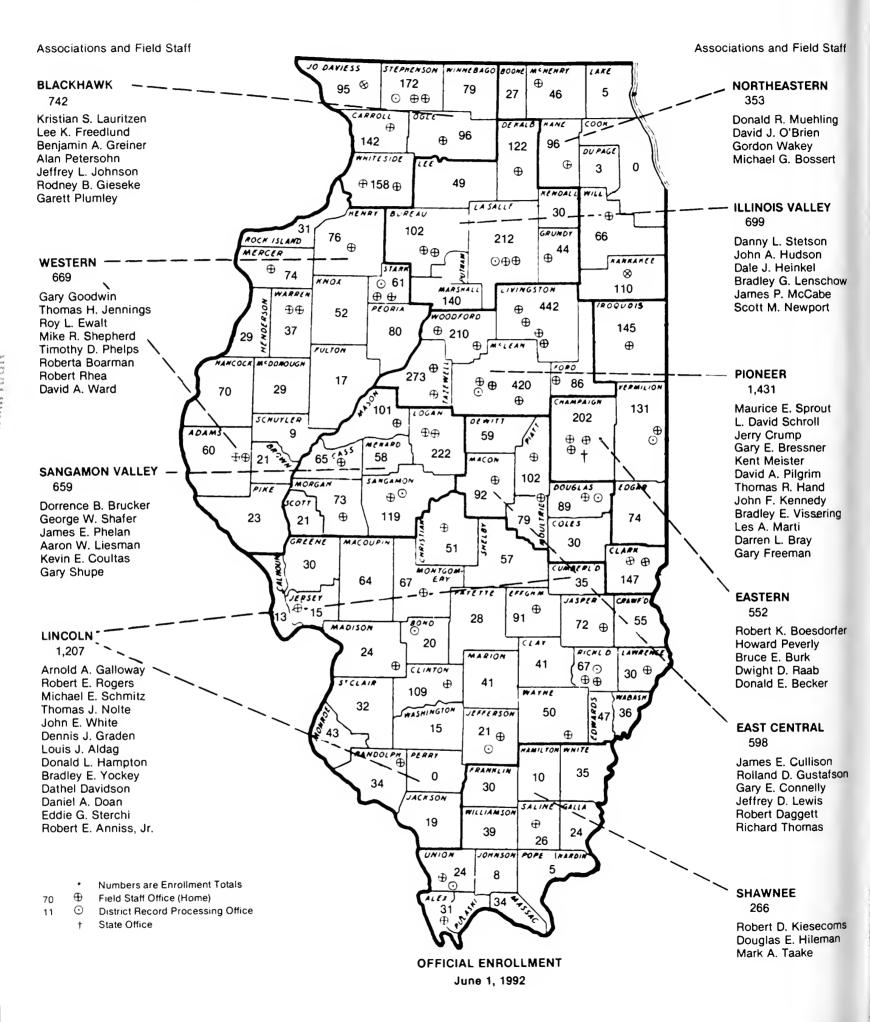
 10 Months of Labor

Southern 36–85         Lives $n<260$ Grain>260         Grain>260         All Fa $27$ $27$ $255$ Lives $27$ $27$ $256$ All Fa $110$ $0.0$ $0.55$ $116$ $454$ $110$ $0.0$ $0.55$ $116$ $454$ $111$ $0.0$ $0.55$ $116$ $116$ $0.0$ $0.0$ $0.55$ $116$ $1126$ $239$ $807$ $81,551$ $26$ $56$ $2392$ $1,424$ $81,551$ $26$ $56$ $2392$ $1,424$ $81,551$ $26$ $51$ $1,712$ $28,17$ $807$ $452$ $51$ $1,712$ $23,272$ $807$ $45$ $45$ $1,720$ $2,811$ $81,551$ $26$ $51$ $1,720$ $2,811$ $807$ $22,212$ $111$ $1,712$ $2,1486$ $6,213$ $300$ $1$	Monthern Size – Size         Nonthern Size – S	10 Months of Labor								
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Clain > 260         Grain > 260         All Famps         Crain > 260         Grain > 260         All Famps         Crain > 260         All Famps         Crain > 260         All Famps         Crain > 260         Grain > 260         All Famps         Crain > 260         Grain > 260         Gra	Area of state	Northern	56-8	Northern	36-100	Livestock	Southern	38	Livestock
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	459         166         402         212         138         454           78         94         52         65         72         96         60           74         0         0         0         100         100         157         385         454           78         94         52         65         72         0.6         60         60           0.4         0         0         0         0.03         0<	Range in size (total acres) Number of farms	Grain <260 34		Grain <260 51		All Farms 9	Grain<260 27	Grain>260 25	All Farms 10
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	430         137         130         137         130         14         15         1         14         15         1         160         100         0 <th0< th=""> <th0< th=""></th0<></th0<>	Total acres in farm	183	459	166	402	212	186	454	198
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Acres of tillable land	163	430	157	377	183	150	385	114
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0.2 $0.2$ <t< td=""><td>Soil rating on tillable land</td><td>26</td><td>78</td><td>76</td><td>60</td><td><u></u></td><td>909</td><td>en en</td><td>- u</td></t<>	Soil rating on tillable land	26	78	76	60	<u></u>	909	en en	- u
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Total months labor	5.1	6.4	5.2	9.9 9.9	7.2	48	0.9	) 1 8
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Months of hired labor	0.3	0.4	0.2	0.5	0.3	0.0	0.5	0.1
$ \left( \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Beef produced, hundredweight	15	14	S	9	263	1	16	169
$ \left( \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Pork produced, hundredweight	4	4	0	0	1,093	10	81	223
m         m         38,260         94,277         42,774         107,166         50,837         27,800         7,652         190           above feed         1,045         1,000         349         107,166         50,837         27,800         7,652         166         166         1           duction         40,351         96,210         43,277         109,578         22,39         90,7         7,652         166         166         1           and supplies         7,155         3,152         10,250         3,157         10,351         23,917         90,49         23,377         66         73         86         11,251         23,92         11,251         23,93         11,262         36,17         10,351         23,66         23,66         23,66         23,66         24,06	94.237         42.774         107.186         50.837         27.800         77.652         18 $(231)$ $(174)$ $326$ $10.00$ $330$ $1.015$ $202$ $1065$ $300$ $1.424$ $550$ $526$ $5087$ $526$ $5087$ $526$ $5087$ $1.424$ $5172$ $10657$ $226$ $526$ $526$ $526$ $526$ $526$ $5272$ $107$ $526$ $5272$ $52685$ $1172$ $52685$ $1172$ $52685$ $1172$ $52685$ $1172$ $52733$ $8556$ $1172$ $8576$ $1172$ $8157$ $22833$ $52733$ $81517$ $29466$ $52766$ $52766$ $52733$ $81517$ $1172$ $1172$ $1172$ $1172$ $1172$ $1172$ $1172$ $1172$ $1172$ $1112$ $1172$ $11172$ $11172$ $11172$ $11172$ $11172$ $11172$ $11172$ $11172$ $11172$ $11172$ $11112$ $11112$ $11122$ <	Dairy cows, number	0	0	0	0	0	0	0	4
But bound feed $332 \pm 50$ $94,237$ $42,774$ $107,166$ $50,337$ $77,800$ $7,652$ $196$ $1036$ $12,42$ $551$ $226$ $12,62$ $330$ $10,552$ $242$ $12,662$ $31,625$ $12,642$ $51$ $1000$ $7,652$ $12,662$ $31,522$ $11,726$ $3000$ $7,7652$ $12,662$ $31,622$ $12,612$ $33,612$ $12,612$ $33,612$ $12,612$ $33,612$ $12,612$ $33,612$ $12,612$ $33,612$ $12,612$ $33,612$ $12,612$ $33,612$ $12,612$ $33,612$ $12,612$ $33,612$ $12,612$ $33,612$ $12,612$ $33,612$ $12,612$ $33,612$ $12,612$ $33,612$ $12,612$ $33,612$ $12,612$ $33,612$ $12,612$ $33,612$ $12,612$ $33,612$ $12,612$ $33,612$ $12,612$ $33,612$ $12,612$ $12,612$ $12,612$ $12,612$ $12,612$ $12,612$ $12,612$ $12,612$ $12,612$ $12,612$ $12,612$	94.237         42.774         107.186         50.807         27.800         77.552         18           96.210 $4.3$ $2.77$ $1.055$ $1.056$ $1.055$ $1.056$ $1.055$ $1.056$ $1.056$ $1.0255$ $1.0265$ $1.0265$ $1.1202$ $1.056$ $1.0265$ $1.1202$ $1.0266$ $1.1202$ $1.0256$ $1.0266$ $1.0266$ $1.0266$ $1.0266$ $1.0266$ $1.0266$ $1.0266$ $1.0266$ $1.0266$ $1.0266$ $1.0266$ $1.0266$ $1.0266$ $1.0266$ $1.0266$ $1.0266$ $1.0266$	Dollar returns per farm								
above fead $1.045$ $(231)$ $(174)$ $326$ $1000$ $300$ $1.044$ $551$ $1200$ $300$ $1.044$ $551$ $1200$ $300$ $1.044$ $551$ $1200$ $300$ $1.011$ $5005$ $2232$ $1001$ $5005$ $1001$ $5005$ $1001$ $5005$ $1001$ $5005$ $1001$ $5005$ $1001$ $5005$ $11251$ $2005$ $11251$ $2005$ $11251$ $2005$ $11261$ $2005$ $11261$ $2005$ $11261$ $2005$ $112612$ $2005$ $112612$ $2005$ $112612$ $2005$ $112612$ $2005$ $110057$ $2005$ $21100$ $2005$ $21100$ $2005$ $21100$ $2005$ $21100$ $2005$ $21100$ $2005$ $21100$ $2005$ $21100$ $2005$ $21100$ $2005$ $21100$ $2005$ $21100$ $2005$ $211000$ $2005$ $211000$ $2005$ $2110000$ $2005$ $21000$	(231)         (174)         326         10,900         308         1,424         5           1,000         349         1,011         325         10,900         308         1,511         226           1,000         349         1,011         865         13,917         805         233         807         1           31,522         12,089         28,265         13,917         804         23,327         26           20,514         3,202         1,095         8,474         81,551         26           31,522         1,093         3,516         1,071         1,728         8,576         2,801         1,041         2,965           8,4617         1,925         3,616         7,843         3,811         1,712         3,356         1,171         2,936         6,773         8,556         8,567         1,1           8,4617         1,9253         3,7166         1,0,201         8,516         8,668         4,567         1,1           1,2733         3,7166         1,9201         8,516         8,667         1,1         1,712         1,1         1,712         1,1         1,1         1,712         1,1         1,712         1,1         1,1         <	Crop returns	38,260	94,237	(V		50,837		77,652	18,641
Ist $261$ $1.206$ $330$ $1.015$ $222$ $1.266$ $1.051$ $2.024$ $1.561$ $2.0685$ $1.066$	1206         330         1,055         242         126         1,668         1,051         262         1,055         242         126         1,668         1,051         266         1,051         266         1,015         266         1,015         266         1,015         266         1,011         266         1,011         266         1,011         266         1,011         266         1,011         266         1,011         266         1,011         266         1,011         266         1,011         266         1,011         266         1,011         266         1,011         266         1,011         266         1,011         27,120         3,316         1,17,120         3,316         1,17,120         3,436         26,111         1,17,120         3,436         26,111         1,400         2,316         6,131         1,112         3,436         21,430         3,510         1,17,120         3,436         21,430         1,112         21,440         21,430         21,430         21,430         21,430         21,430         21,430         21,430         21,430         21,440         21,430         21,440         21,430         21,440         21,430         21,440         21,430         21,440         21,430	Livestock returns above feed	1,045	(231)	(174)	326	10,900	308	1,424	5,683
Is         1000         349         1011         005         705         1000         349         1011         005         239         007         1           duction $10,351$ $96,210$ $43,277$ $109,576$ $53,056$ $45,27$ $10,317$ $90,49$ $23,3272$ $66$ nent $112,632$ $31,522$ $120,66$ $3,306$ $4,552$ $10,220$ $61,773$ $21,5$ $90,49$ $23,572$ $66$ $10,220$ $61,773$ $21,95$ $33,611$ $21,573$ $21,56$ $20,861$ $21,952$ $34,617$ $117,200$ $41,702$ $23,896$ $21,876$ $21,966$ $51,736$ $117,701$ $22,12$ $34,962$ $2601$ $11,410$ $21,896$ $51,736$ $117,501$ $21,226$ $45,17$ $21,386$ $51,170$ $21,226$ $45,172$ $21,486$ $52,44$ $51,170$ $51,1301$ $11,220$ $11,210$ $21,246$ $51,1301$ $12,120$ $11,120$ $21,1301$ $21,1700$ $21,246$ $51,1301$ $11,2501$ <	1,000 $349$ $1,011$ $805$ $233$ $807$ $1$ $36,210$ $43,277$ $109,578$ $62,784$ $28,474$ $81,551$ $20$ $20,514$ $33,222$ $18,714$ $17,220$ $6,733$ $316$ $23,222$ $16,714$ $81,551$ $26$ $4,066$ $3,366$ $7,175$ $9,539$ $10,220$ $6,773$ $3456$ $346$ $4,109$ $3,516$ $7,843$ $3,811$ $1,720$ $6,736$ $3,556$ $346$ $4,106$ $1,323$ $1,17,800$ $10,226$ $8,617$ $2,346$ $23,436$ $45$ $3,4617$ $119,288$ $3,616$ $7,137$ $14,00$ $13,11$ $17,737$ $14,206$ $6,131$ $111$ $1,273$ $113,233$ $11,1,264$ $11,1,264$ $11,126$ $11,126$ $11,11$ $11,728$ $11,11$ $11,728$ $11,11$ $11,728$ $11,11$ $11,728$ $11,11$ $11,220$ $11,116$ $11$	Custom work	261	1,206	330	1,055	242	126	1,668	657
duction $40,351$ $96,210$ $43,277$ $109,578$ $62,734$ $23,72$ $11,320$ $12,317$ $20,49$ $23,372$ $16,571$ $12,511$ $20,948$ $23,372$ $16,571$ $12,511$ $20,948$ $23,372$ $11,5200$ $10,311$ $20,332$ $7,175$ $9,5595$ $11,7200$ $10,311$ $23,372$ $11,7200$ $10,311$ $23,372$ $23,377$ $23,361$ $12,772$ $23,361$ $12,772$ $23,372$ $34,56$ $45,372$ $13,312$ $13,312$ $13,312$ $13,312$ $13,321$ $13,321$ $13,321$ $13,321$ $13,321$ $13,321$ $13,321$ $13,321$	96.210         43.277         109.578         6.2.784         28,474         81,551         26           20554         3,705         4,562         13,917         9,049         23,272         6           2,055         1,055         1,520         16,773         8,556         11,720         6,773         8,556         11           8,939         7,175         9,559         10,220         6,773         8,556         11           8,939         3,617         1,925         3,610         7,172         9,499         23,436           8,416         4,109         1,925         3,610         1,7212         3,439         2,939         2,533         1,1720           8,416         4,109         1,925         3,610         1,1720         2,949         2,445         45           1,1773         1,12,233         3,617         16,255         8,617         2,1486         45         45           1,1773         (13,059)         (5,013)         (19,057)         (11,269)         6,131         16           1,1773         1,11841         115,012         (10,4640         2,133         (11,295)         6,144         42           1,17241         478         <	Other farm receipts	785	1,000	349	1,011	805	239	807	1,351
ment         12.652         31.522         12.099         28.265         13.917         9.049         23.377         6.586         13.917         9.049         23.377         9.559         13.917         20.856         13.917         20.856         13.917         20.856         13.91         20.856         13.91         20.856         13.91         20.856         13.91         20.856         13.91         20.856         13.95         13.956	31,522         12,089         28,265         13,917         9,049         23,272         6           20,514         9,722         18,714         17,280         13,917         9,049         23,272         6           8,939         7,175         9,559         10,220         1,041         29,885         11           8,939         7,175         9,559         10,220         1,712         3,436         11           8,416         7,195         3,557         10,255         3,617         1,712         2,336         1           8,416         1,19,283         3,617         1,718         3,416         1,772         3,436         1           1,19,283         1,7180         1,7283         10,255         3,617         1,413         1         1,712           1,17,241         1,413         117,801         10,255         2,817         42         42           1,17,241         1,17,801         1,17,801         1,143         11,501         1,112         42         44         46           1,17,241         1,17,801         1,1434         1,1501         1,057         1,034         45         44         45           1,17,241         1,0349	Value of farm production	40,351	96,210	43,277	109,578	62,784	ß	81,551	26,331
The form the form of the form	31,522         12,089         28,265         13,917         9,049         23,272         6           4,066         3,306         4,555         4,555         1,021         6,773         8,556         2           8,056         3,555         1,020         1,512         0,021         0,041         2,0855         1           8,798         3,516         7,736         1,7280         1,712         8,456         3,436         1,712         8,556         1         1,712         8,436         1,712         8,436         5,533         1,556         8,117         2,998         6,733         8,556         8,11         1,712         8,436         5,533         10,255         3,436         5,533         10,257         1,410         2,533         10,257         1,410         2,533         11,120         1,11,23         1,11,233         11,120         1,11,233         11,120         1,11         1,11         2,11         1,11 <td>Dollar costs per farm</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Dollar costs per farm								
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	20514 $9,722$ $18,714$ $17,280$ $8,316$ $20,885$ $11$ 8,936 $7,175$ $9,552$ $10,220$ $6,773$ $8,556$ $1,1400$ $2,988$ $2$ 8,936 $3,616$ $7,175$ $9,552$ $10,226$ $6,773$ $8,556$ $1,1400$ $2,893$ $2,198$ $2,233$ $4,199$ $3,6766$ $2,801$ $10,255$ $3,611$ $6,131$ $(18,626)$ $4,190$ $8,523$ $3,6766$ $2,801$ $2,833$ $5,17,38$ $10,255$ $8,611$ $6,131$ $(18,626)$ $4,190$ $8,513$ $8,528$ $45,173$ $10,255$ $8,611$ $6,131$ $(18,61)$ $6,131$ $(18,162)$ $10,272$ $10,$	Crop expenses	12,632	31,522	12,089	28,265	13,917	9,049	23,272	6,049
2646         4,066         3,306         4,562         4,700         1,041         2,988         2           cupplies         2,175         8,033         7,175         3,559         1,004         5,566         1,95           reous         2,084         4,109         3,516         7,764         3,811         1,400         2,830         2,831         1,400         2,833         1,17         1,233         1,17         2,846         2,801         2,833         1,17         1,233         1,17,801         8,554         39,889         2,831         6,273         8,365         4,55         1,17         1,17         1,17         2,1486         5,634         5,738         1,17,801         8,554         39,889         8,893         4,55         1,17         2,1486         5,6         4,50         2,11         1,11         2,11         2,13         3,210         1,17,33         1,11         1,401         2,123         4,56	4,066         3,306         4,562         4,700         1,041         2,988         2           6,798         3,616         7,375         9,559         10,220         5,713         8,556         8           8,416         1,925         3,6781         10,220         3,614         1,712         3,436         5,513         10,255         2,811         6,733         8,556         4           8,416         1,925         3,6781         16,266         8,617         2,1330         2         3,436         5,5133         11,712         3,436         5,5133         16,753         3,556         45         1         1         1,712         3,436         5,2133         11,722         3,436         5,2133         10,257         2,1330         1,356         5,133         1,13         2,133         11         2,133         11         2,143         1,11         2,134         1,11         2,134         2,133         1,11         2,142         1,143         1,753         1,11         2,141         1,17         2,141         1,17         2,141         1,17         2,141         1,17         2,141         1,17         2,141         1,17         2,142         4,11         4,121         1,17	Power and equipment	10,598	20,514	9,722	18,714	17,280	8,316	20,855	11.272
T125         6,798         7,175         9,559         10,220         6,773         8,556         9           ielous         2,115         6,798         3,616         7,843         3,011         1,772         8,556         6,773         8,556         6,733         8,556         1           ielous         2,138         3,417         1,5623         3,6,781         1,672         3,466         5,346         5,44         1,11         1,11         1,11         1,11         1,11         1,11         1,11         1,11         1,11         1,11         1,11 <t< td=""><td>8.333         <math>7,175</math>         9,559         <math>10,220</math> <math>6,773</math> <math>8,556</math> <math>8</math>           8,109         3,617         1,925         3,617         1,1712         3,495         1,1712         3,495         1,1712         3,495         1,1712         3,495         1,1712         3,495         1,1712         3,495         45         1,1712         3,495         45         1,1712         3,495         45         1,1712         3,495         45         1,1712         2,1486         5,131         1,1712         2,1486         5,131         1,1712         2,1486         5,131         1,1712         2,1486         5,131         1,1712         2,1486         5,131         1,1712         2,1486         5,131         1,1712         2,1486         5,131         1,171         2,1486         5,131         1,171         2,1486         5,131         1,171         2,1486         5,131         1,171         2,1486         5,131         1,111         2,1486         5,141         1,143         1,173         1,111         2,148         5,131         2,121         1,11         1,111         1,173         1,111         1,173         1,111         1,173         1,111         1,173         1,111         1,173         1,1</td><td>Building and fence</td><td>2,646</td><td>4,066</td><td>3,306</td><td>4,562</td><td>4,700</td><td>1,041</td><td>2,988</td><td>2.827</td></t<>	8.333 $7,175$ 9,559 $10,220$ $6,773$ $8,556$ $8$ 8,109         3,617         1,925         3,617         1,1712         3,495         1,1712         3,495         1,1712         3,495         1,1712         3,495         1,1712         3,495         1,1712         3,495         45         1,1712         3,495         45         1,1712         3,495         45         1,1712         3,495         45         1,1712         2,1486         5,131         1,1712         2,1486         5,131         1,1712         2,1486         5,131         1,1712         2,1486         5,131         1,1712         2,1486         5,131         1,1712         2,1486         5,131         1,1712         2,1486         5,131         1,171         2,1486         5,131         1,171         2,1486         5,131         1,171         2,1486         5,131         1,171         2,1486         5,131         1,111         2,1486         5,141         1,143         1,173         1,111         2,148         5,131         2,121         1,11         1,111         1,173         1,111         1,173         1,111         1,173         1,111         1,173         1,111         1,173         1,1	Building and fence	2,646	4,066	3,306	4,562	4,700	1,041	2,988	2.827
upplies         215         0.02         84         109         4,004         150         195         1           ieous         2,084         4,109         1,925         3,766         2,801         1,400         2,800         2           ieous         2,084         4,109         1,925         3,766         2,801         1,400         2,803         45           ii         13,138         3,416         1,529         3,766         2,601         1,400         2,803         45           ii         56,542         119,283         5,7738         117,801         63,254         2,913         1,401         2,212         45           ii         (16,127)         (21,799)         (13,059)         (5,013)         (10,617         (10,914)         (11,913         110           ii         (16,127)         (21,799)         (13,059)         (5,013)         (10,617         (10,914)         (11,76)         (11,795         6,113         (11,91         119           ange         (231)         (13,610         11,1601         11,1601         2,130         11,173         119         119           ange         (231)         (136)         (14,601         2,130	302         84         109         4,004         150         195         1           4,798         3,616         7,843         3,811         1,712         3,436         2,801         6,280         2,801         6,280         2,803         2,813         1,11         2,803         2,813         1,11         1,11         1,11         1,11         1,11         1,11         1,11         1,11         1,11         1,11         1,11         1,12         2,133         13,93         13,93         13,93         13,93         13,93 </td <td>Labor</td> <td>7,125</td> <td>8,939</td> <td>7,175</td> <td>9,559</td> <td>10,220</td> <td>6,773</td> <td>8,556</td> <td>8,215</td>	Labor	7,125	8,939	7,175	9,559	10,220	6,773	8,556	8,215
tell $\frac{3.277}{6.542}$ $\frac{6.798}{6.542}$ $\frac{3.616}{1.3203}$ $\frac{7.843}{3.736}$ $\frac{3.811}{1.0.255}$ $\frac{1.712}{2.8011}$ $\frac{1.712}{1.0.255}$ $\frac{3.436}{5.512}$ $\frac{3.617}{1.1720}$ $\frac{3.436}{3.617}$ $\frac{3.261}{1.5623}$ $\frac{3.617}{3.210}$ $\frac{1.6.266}{3.612}$ $\frac{6.278}{9.9995}$ $\frac{6}{5.514}$ $\frac{1.6.278}{1.0.253}$ $\frac{1.6.266}{3.611}$ $\frac{6.278}{1.0.253}$ $\frac{6.1311}{1.209}$ $\frac{6.2146}{6.1311}$ $\frac{6.278}{1.000}$ $\frac{6.1311}{2.013}$ $\frac{1.6.266}{1.205}$ $\frac{6.1311}{1.000}$ $\frac{1.6}{2.013}$ $\frac{1.6.266}{1.0007}$ $\frac{1.6.266}{3.000}$ $\frac{6.1311}{2.000}$ $\frac{1.6}{2.013}$ $\frac{1.6.266}{1.0007}$ $\frac{1.6.266}{1.0007}$ $\frac{1.6.266}{1.0007}$ $\frac{1.6.266}{1.0007}$ $\frac{1.6.266}{1.0007}$ $\frac{1.6.266}{1.0007}$ $\frac{1.6.214}{1.0007}$ $\frac{1.6.266}{1.0007}$ $\frac{1.6.214}{1.0007}$ $\frac{1.6.266}{1.0000}$ $\frac{1.6.1311}{2.011}$ $\frac{1.6}{1.0007}$ $\frac{1.6.126}{1.0007}$ $\frac{1.6.1311}{1.0007}$ $\frac{1.6}{1.0007}$ $\frac{1.6.1311}{1.0007}$ $\frac{1.6}{1.0007}$ $\frac{1.6.1311}{1.0007}$ $\frac{1.6.1311}{1.0007}$ $\frac{1.6}{1.0007}$ $\frac{1.6.1311}{1.0007}$ $\frac{1.6}{1.0007}$ $\frac{1.6.1311}{1.0007}$ $\frac{1.6.131}{1.0007}$ $\frac{1.6.1311}{1.0007}$ $\frac{1.6.131}{1.0007}$	6,796         3,616         7,843         3,811         1,712         3,436         5           8,410         1,925         3,766         2,801         1,712         3,436         5           8,410         1,925         3,766         10,255         2,801         1,712         3,436           1,172         1,19283         5,7,738         117,801         8,617         2,1486         5           1,273         (13,09)         (5,013)         (19,057)         (19,057)         (11,295)         6,131)         (18           (21,793)         (13,09)         (5,013)         (19,057)         (14,050)         6,131)         (18           (21,793)         (13,093)         (5,013)         (19,057)         (14,050)         6,131)         (18           (117,241         47,831         111,841         115,012         (0,71         0.91         11         2,1486         5,44         1         1         2,512         45         1	Livestock services and supplies	215	302	84	109	4,004	150	195	1,696
leeous         2.084         4,109         1,925         3.766         2.801         1,400         2.830         2           ital         4,823         8,416         4,193         1,925         3,7738         1,7601         8,3254         39,869         86,17         21,486         5         45           it         (16,127)         (1,127)         (1,129)         (13,039)         (13,031)         (13,057)         (13,131)         (13         22,148         6         5           it         (16,127)         (21,739)         (13,059)         (13,057)         (14,130)         (13,057)         (14,130)         (13,057)         (14,164)         71,737         163,429         54           ange/         (331)         (13,761)         (14,164)         (14,176)	4,109         1,925         3,766         2,801         1,400         2,830         2,830         2,831         6,131         2,140         2,833         6,573         6,131         1,413         1,273         3,210         1,413         1,000         2,831         6,131         2,136         5,573         6,131         2,136         5,57,738         1,17,801         83,254         39,869         89,895         45         1,273         1,13,059         (5,013)         (19,057)         (11,295)         (6,131)         (18         6,131)         (18 </td <td>Taxes</td> <td>3,277</td> <td>6,798</td> <td>3,616</td> <td>7,843</td> <td>3,811</td> <td>1,712</td> <td>3,436</td> <td>819</td>	Taxes	3,277	6,798	3,616	7,843	3,811	1,712	3,436	819
tal $4.829$ $8.416$ $4.199$ $8.203$ $10.255$ $2.811$ $6.212$ $6.3866$ $6.334.51$ $1.273$ $1.7801$ $8.2.232$ $1.17.801$ $8.2.232$ $1.17.801$ $8.2.232$ $1.17.801$ $8.2.232$ $1.17.801$ $8.2.232$ $1.17.801$ $8.2.232$ $1.17.801$ $8.2.232$ $1.17.801$ $8.2.232$ $1.17.801$ $1.1.295$ $(6,131)$ $(18$ $6,131)$ $(18$ $6,131)$ $(18)$ $1.1.295$ $1.1.292$ $1$	8,416         4,199         8,203         10,255         2,811         6,278         5,278         5,578         5,573         117,801         13,273         100         2,272         45         46         4	Insurance and miscellaneous	2,084	4,109	1,925	3,766	2,801	1,400	2,830	2,070
13,138         34,617         15,623         36,781         16,266         8,617         21,486         5           nt $(16,127)$ $(21,739)$ $(13,059)$ $(5,013)$ $(19,057)$ $(11,295)$ $(6,131)$ $(18)$ noge $0,77$ $(0,71)$ $(0,81)$ $(13,059)$ $(5,013)$ $(19,057)$ $(11,295)$ $(6,131)$ $(18)$ $94,779$ $181,622$ $100,743$ $200,107$ $104,640$ $7,1737$ $163,429$ $54,429$ $94,779$ $181,622$ $100,743$ $200,107$ $104,640$ $71,737$ $163,429$ $54,429$ $117,237$ $163,429$ $54,429$ $117,237$ $163,429$ $54,429$ $11,729$ $117,231$ $117,237$ $163,429$ $54,429$ $11,1729$ $110,257$ $100,272$ $100,271$ $109,221$ $100,272$ $110,273$ $100,272$ $110,273$ $110,273$ $110,272$ $110,272$ $110,272$ $110,272$ $110,272$ $110,272$ $110,272$ $110,272$ $110,272$ $110,272$ $11$	34,617 $15,623$ $36,781$ $16,266$ $8,617$ $21,486$ $55$ $119,283$ $57,738$ $117,801$ $83,224$ $39,605$ $89,695$ $45$ $(12,73)$ $1,401$ $(5,013)$ $(19,057)$ $(1,295)$ $(6,131)$ $(18,61)$ $(11,73)$ $(13,029)$ $(13,021)$ $(19,057)$ $(11,295)$ $(6,131)$ $(18,61)$ $117,241$ $47,831$ $111,841$ $115,012$ $0,71$ $0.91$ $42$ $(1,099)$ $(433)$ $(790)$ $(606)$ $(1,176)$ $(2,722)$ $(12,31)$ $(19,4)$ $(10,099)$ $(433)$ $(779)$ $(606)$ $(11,295)$ $(13,41)$ $1,753$ $42$ $(10,099)$ $(433)$ $(779)$ $(606)$ $(123)$ $(194)$ $1,753$ $429$ $111$ $28,039$ $111$ $28,474$ $81,551$ $12$ $429$ $1117$ $23,222$ $57,147$ $40,986$ $54,474$ $81,551$ <t< td=""><td>Interest on nonland capital</td><td>4,829</td><td>8,416</td><td>4,199</td><td>8,203</td><td>10,255</td><td>2,811</td><td>6,278</td><td>6,267</td></t<>	Interest on nonland capital	4,829	8,416	4,199	8,203	10,255	2,811	6,278	6,267
nt $56,542$ $119,288$ $57,738$ $117,801$ $83,254$ $39,869$ $89,895$ $45$ nt $63$ $1,273$ $1,401$ $3,210$ $1,413$ $100$ $2,212$ $45$ $(16,127)$ $(21,799)$ $(13,059)$ $(5,013)$ $(19,057)$ $(11,285)$ $(6,131)$ $(19$ $94,779$ $181,622$ $100,743$ $200,107$ $104,640$ $71,737$ $163,429$ $54,44$ $1.7$ $94,779$ $181,622$ $100,743$ $200,107$ $104,640$ $71,737$ $163,429$ $54,44$ $1.7$ $94,779$ $181,622$ $100,743$ $200,107$ $104,640$ $71,737$ $163,429$ $54$ $71,737$ $181,622$ $100,743$ $200,107$ $104,640$ $71,737$ $163,429$ $54$ $71,737$ $181,622$ $100,743$ $200,107$ $104,640$ $71,737$ $163,429$ $54$ $71,737$ $113,791$ $117,291$ $1116,729$ $100,743$ <	119,283         57,738         117,801         83,254         39,869         89,895         45 $1,273$ $1,401$ $3,210$ $1,413$ $100$ $2,212$ $45$ $1,273$ $1,401$ $3,210$ $1,413$ $10,057$ $(6,131)$ $(18$ $2(1,799)$ $(13,059)$ $(5,013)$ $(19,057)$ $(0.71)$ $0.91$ $2,212$ $44$ $117,241$ $0.75$ $0.93$ $0.75$ $0.93$ $0.71$ $100$ $2,173$ $16,131$ $111,241$ $115,012$ $0,0196$ $62,11$ $42,92$ $111,264$ $64,423$ $111,264$ $64,423$ $111,264$ $64,44$ $11,253$ $111,264$ $64,44$ $11,253$ $111,264$ $11,253$ $111,253$	Land charge or net rent	13,138	34,617	15,623	36,781	16,266	8,617	21,486	5,836
nt         6.3         1.273         1.401         3.210         1.413         100         2.212         (13)           (16,127)         (21,799)         (13,059)         (5,013)         (19,057)         (11,295)         (6,131)         (18)           0.71         0.81         0.75         0.033         0.75         0.71         0.91         0.91         42           94,779         181,622         100,743         200,107         104,640         71,737         163,429         54           94,779         181,622         100,743         200,107         104,640         71,737         163,429         54           11         267         (13,31)         (11,76)         (17,76)         (12,264)         64,44         1           201         2031         (14,31)         (14,32)         (17,76)         (12,264)         64,44         1           21         246         111         28,009         504         133         300         134         1         175           246         1267         165         146         111         156         155         300         134         1         1753         194         1         1753         300		Total nonfeed cost	56,542	119,283	57,738	117,801	83,254	39,869	89,895	45,052
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		Capital account adjustment	63	1,273	1,401	3,210	1,413	100	2,212	150
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	0.81         0.75         0.73         0.71         0.91 <th0.91< th="">         0.91         0.91         <th< td=""><td>Management returns</td><td>(16,127)</td><td>(21,799)</td><td>(13,059)</td><td>(5,013)</td><td>(19,057)</td><td><b>T</b></td><td>(6,131)</td><td>(18,570)</td></th<></th0.91<>	Management returns	(16,127)	(21,799)	(13,059)	(5,013)	(19,057)	<b>T</b>	(6,131)	(18,570)
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	0.81         0.75         0.033         0.75         0.031         0.71         0.01	Farm production per \$1.00								
er man $94,779$ $181,622$ $100,743$ $200,107$ $104,640$ $71,737$ $163,423$ $54$ income $43,421$ $117,241$ $47,831$ $111,841$ $115,012$ $30,906$ $82,817$ $42$ e (net change) $(201)$ $(1,099)$ $(4,021)$ $(1,176)$ $(2.792)$ $(1,23)$ $(194)$ $1-1$ e (net change) $(201)$ $(1,099)$ $(433)$ $(790)$ $(606)$ $(123)$ $(194)$ $1-1$ e (net change) $(201)$ $(1,099)$ $(450)$ $(606)$ $(123)$ $(1194)$ $1-1$ i (nestock $1,719$ $62.6$ $117$ $372$ $21,294$ $617$ $117$ $372$ $21,294$ $617$ $117$ $10,573$ $300$ $111$ $1,773$ $111$ $1,773$ $111$ $1,773$ $111$ $1,773$ $111$ $1,773$ $111$ $1,773$ $111$ $1,773$ $111$ $1,773$ $111$ $117$ $211294$	181,622         100,743         200,107         104,640         71,737         163,429         54           117,241         47,831         111,841         115,012         30,906         82,817         42           (19,141)         (4,021)         (11,176)         (2,792)         (1264)         644         1           (19,141)         (4,021)         (11,176)         (2,792)         (1264)         6241         1           (19,141)         (4,021)         (11,160)         (5792)         103         504         142           (1,099)         (433)         (1790)         (606)         135         300         141           267         165         111         28,039         1,111         1,753         10           261         372         21,294         62,1784         28,474         81,551         26           1,433         1,43         757         40,968         18,753         261         91           1,433         167         28,287         25,441         81,551         26         944           40         56,335         151         143         167         2222         9460         944           28,857         26	of nonfeed costs	0.71	0.81	0.75	0.93	0.75	0.71	0.91	0.58
income 43,421 117,241 47,831 111,841 115,012 30,906 82,817 42 (991) (19,141) (1,099) (433) (790) (606) (1,264) 644 11 (1009) (19,141) (1,176) (2,792) (12,64) 644 11 (1000) (19,141) (1,176) (2,792) (10,164) (10,111) (1,753) (19,4) (19,4) (111) (1,753) (19,4) (111) (1,753) (19,4) (111) (1,753) (19,4) (111) (1,753) (19,4) (111) (1,753) (19,4) (111) (1,753) (19,4) (111) (1,753) (19,4) (111) (1,753) (19,4) (111) (1,753) (111) (111) (112) (111)	117,24147,831111,841115,01230,90682,81742 $(19,141)$ $(4,021)$ $(1,176)$ $(2,792)$ $(1,264)$ $644$ 1 $(19,141)$ $(4,021)$ $(1,176)$ $(790)$ $(606)$ $(1,264)$ $644$ 1 $267$ $165$ $165$ $111$ $28,039$ $111$ $1,753$ $11$ $267$ $146$ $1117$ $28,039$ $1,111$ $1,753$ $11$ $96,211$ $43,277$ $109,578$ $62,784$ $81,551$ $266$ $57,145$ $26,294$ $55,747$ $40,968$ $18,216$ $81,551$ $266$ $57,145$ $26,294$ $55,747$ $40,968$ $18,216$ $45,478$ $19$ $1,433$ $49$ $55,747$ $40,968$ $18,216$ $45,478$ $19$ $23,232$ $56,444$ $41,899$ $18,348$ $46,950$ $19$ $23,353$ $16,955$ $53,134$ $20,966$ $1,413$ $20,885$ $20,441$ $11$ $23,352$ $56,444$ $41,899$ $18,348$ $46,950$ $19$ $23,357$ $1,401$ $3,210$ $1,413$ $20,285$ $3,337$ $7,372$ $5,534$ $29,660$ $13,813$ $48,569$ $17,247$ $6,888$ $29,441$ $1,126$ $23,660$ $13,813$ $45,555$ $53,134$ $20,126$ $24,601$ $25,212$ $21,232$ $1,247$ $5,050$ $1,413$ $100$ $2,212$ $10,126$ $2,9660$ $1,3813$ $4,45569$ $17,413$	Farm production per man	94,779	181,622	100,743	200,107	104,640	71,737	163,429	54,291
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	117,241 $47,631$ $111,641$ $115,012$ $30,906$ $82,617$ $42$ $(10,99)$ $(266)$ $(123)$ $(1,23)$ $(194)$ $1,753$ $11$ $267$ $165$ $111$ $28,039$ $1,111$ $1,753$ $119$ $96,211$ $43,277$ $109,578$ $62,784$ $28,474$ $81,551$ $26$ $57,145$ $26,294$ $55,747$ $40,968$ $18,216$ $81,551$ $26$ $57,145$ $26,294$ $55,747$ $40,968$ $18,216$ $45,478$ $19$ $1,433$ $49$ $55,747$ $40,968$ $18,216$ $45,478$ $19$ $27,145$ $26,2784$ $41,899$ $16,72$ $336$ $10$ $222$ $37,353$ $16,72$ $33,134$ $41,899$ $16,126$ $34,691$ $66,955$ $33,732$ $25,44$ $10,126$ $6,956$ $34,691$ $10,126$ $25,224$ $10,126$ $12,413$ $12,123$ $12,413$	Financial summary								
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Lasn operating income	43,421	11/,241	47,831		115,012	30,906	82,817	42,088
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	(1,03) $(13)$ $(12)$ $(13)$ $(13)$ $(13)$ $(13)$ $267$ $146$ $111$ $28,039$ $(111)$ $28,039$ $(111)$ $1,753$ $11$ $626$ $117$ $372$ $21,294$ $67$ $28,474$ $81,551$ $26$ $96,211$ $43,277$ $109,578$ $62,784$ $28,474$ $81,551$ $26$ $57,145$ $26,294$ $55,747$ $40,968$ $18,216$ $45,478$ $19$ $1,433$ $49$ $55,747$ $40,968$ $18,216$ $45,478$ $19$ $1,433$ $49$ $55,747$ $40,968$ $18,216$ $45,478$ $19$ $239$ $35$ $167$ $24$ $41,899$ $18,216$ $46,950$ $19$ $37,353$ $16,72$ $26,444$ $41,899$ $18,348$ $46,950$ $19$ $37,353$ $16,955$ $53,134$ $20,885$ $10,126$ $34,601$ $6$ $37,353$ $16,955$ $53,134$ $20,885$ $10,126$ $34,601$ $6$ $37,353$ $16,955$ $53,134$ $20,885$ $10,126$ $3,4601$ $6$ $37,353$ $16,00$ $3,327$ $1,413$ $10,126$ $3,4601$ $6$ $1,273$ $1,401$ $3,210$ $1,413$ $10,126$ $2,2212$ $5,141$ $1,223$ $13,496$ $(10,222)$ $1,413$ $10,00$ $2,2212$ $5,5244$ $6,688$ $2,617$ $(13,611)$ $(6,091)$ $3,415$ $(10,222)$ $(10,222)$ $2,612$ $1,400$ $1,00$ </td <td>Arcts receivable (net chance)</td> <td>(106)</td> <td></td> <td>(120,4)</td> <td></td> <td>(261,92) (606)</td> <td>(1,204)</td> <td>1044</td> <td>(12) (172)</td>	Arcts receivable (net chance)	(106)		(120,4)		(261,92) (606)	(1,204)	1044	(12) (172)
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	429 $146$ $111$ $28,039$ $1,111$ $1,753$ $11$ $626$ $117$ $372$ $21,294$ $67$ $261$ $5$ $96,211$ $43,277$ $109,578$ $62,784$ $28,474$ $81,551$ $26$ $57,145$ $26,294$ $55,747$ $40,968$ $18,216$ $45,478$ $19$ $1,433$ $49$ $55,747$ $40,968$ $18,216$ $45,478$ $19$ $1,433$ $26,94$ $55,747$ $40,968$ $18,216$ $45,478$ $19$ $239$ $167$ $224$ $41,899$ $18,248$ $46,950$ $19$ $37,353$ $16,955$ $53,134$ $20,885$ $10,126$ $34,601$ $6$ $37,353$ $16,955$ $53,134$ $20,885$ $10,126$ $34,601$ $6$ $37,353$ $1,401$ $3,210$ $1,413$ $100$ $2,212$ $10$ $29,660$ $13,813$ $48,569$ $17,247$ $871$ $2,524$ $(6)$ $1,294$ $3,387$ $13,415$ $(10,222)$ $(4,751)$ $1,449$ $(10)$ $2,47$ $1,294$ $3,315$ $(10,222)$ $(2,72)$ $(4,751)$ $1,449$ $(10)$ $2,247$ $1,729$ $3,415$ $(10,222)$ $(4,751)$ $1,449$ $(10)$ $2,47$ $1,294$ $3,415$ $(10,222)$ $(4,751)$ $1,449$ $(10)$ $2,247$ $1,202$ $0,066$ $17,202$ $(4,751)$ $1,449$ $(10)$ $2,477$ $1,294$ $0,066$ $17,202$ $(10,222)$ <	Farm products used	62		165	189	504	135	300	224
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	62611737221,2946726196,21143,277109,57862,78428,47481,55157,14526,29455,74740,96818,21645,4781,4334955,74740,96818,21645,4781,43340(56)9315109442393516724118,21646,95037,35316,95553,13420,88510,12634,60137,35316,95553,13420,88510,12634,60137,35316,95553,13420,88510,12634,60137,35316,95553,13420,88510,12634,60137,35316,95553,13420,88510,12634,60137,3531,4013,2101,41310,12634,60129,66013,81348,56917,2476,88829,4411,2943,38713,496(978)(10,222)2,5241,2943,3871,415(10,222)(4,751)1,4491,2943,3871,6013,415(10,222)2,5242,471,2721,6013,415(10,222)4,002,471,7720,0664,004,002,471,7720,0664,004,002,471,7720,0664,004,002,471,7720,0664,004,002,471,7220,0664,401,6022,470,066 </td <td>Less purchased feed</td> <td>246</td> <td>429</td> <td>146</td> <td>111</td> <td>28,039</td> <td>1,111</td> <td>1.753</td> <td>11.683</td>	Less purchased feed	246	429	146	111	28,039	1,111	1.753	11.683
40,35196,21143,277109,578 $62,784$ $28,474$ $81,551$ 1751,4334955,74740,96818,21645,47826,32057,14526,29455,74740,96816,21645,4783540(56)93151094435239351672441,89918,24846,9503826,56758,85726,32256,44441,89918,34846,9503826,56758,85726,32256,44441,89918,34846,95037,35316,95553,13420,88510,12634,60137,3531,4013,2101,41310,12634,601631,2731,4013,2101,4131002,212631,2943,381348,56917,2476,88829,4412,5511,2943,381348,56917,2476,88829,4412,5511,2943,381348,56917,2476,88829,4412,5511,2943,381348,56917,2476,88829,4412,533(13,611)(6,091)3,415(10,222)4,7511,449(0,542,471,7224,6012,2474,006,064,7611,449(1,0442,57410,2224,1051,7224,7051,449(1,449(1,0552,471,7224,1651,7224,001,749	96,21143,277109,57862,78428,47481,55157,14526,29455,74740,96818,21645,4781,4334955,74740,96815,13061,43340(56)9315109442393516724118241182393556,44441,89918,34846,95037,35316,95553,13420,88510,12634,60137,35316,95553,13420,88510,12634,60137,35316,95553,13420,88510,12634,60137,35316,95553,13420,88510,12634,60137,35316,95553,13420,88510,12634,60127,331,4013,2101,4131002,21229,66013,81348,56917,2476,88829,4411,2943,38713,496(978)(17,2171,4491,2943,3871,501,6013,415(10,222)2,471,7221,6013,415(10,222)4,002,471,7721,6011,601,6014,002,471,7721,6011,609,0664,002,471,7221,6013,415(10,222)4,002,471,7721,6011,609,0664,002,471,7221,6013,415(10,222)4,002,471,7221,601 <td< td=""><td>Less purchased livestock</td><td>1,719</td><td>626</td><td>117</td><td>372</td><td>21,294</td><td>. 67</td><td>261</td><td>5,407</td></td<>	Less purchased livestock	1,719	626	117	372	21,294	. 67	261	5,407
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	57,145 $26,294$ $55,747$ $40,968$ $18,216$ $45,478$ $1,433$ $49$ $55,747$ $757$ $757$ $15$ $306$ $40$ $(56)$ $93$ $151$ $757$ $15$ $306$ $40$ $(56)$ $93$ $151$ $118$ $222$ $239$ $35$ $167$ $24$ $118$ $222$ $58,857$ $26,322$ $56,444$ $41,899$ $18,348$ $46,950$ $37,353$ $16,955$ $53,134$ $20,885$ $10,126$ $34,601$ $37,353$ $1,401$ $3,210$ $1,413$ $10,126$ $34,601$ $8,966$ $4,543$ $7,775$ $5,050$ $3,337$ $7,372$ $1,273$ $1,401$ $3,210$ $1,413$ $10,126$ $34,601$ $229,660$ $13,813$ $48,569$ $17,247$ $6,888$ $29,441$ $1,294$ $3,387$ $13,496$ $(978)$ $(978)$ $27,524$ $(13,611)$ $(6,091)$ $3,415$ $(10,222)$ $(1,751)$ $1,449$ $2.47$ $1.72$ $1,601$ $3,415$ $(10,222)$ $20,066$ $2.47$ $1.72$ $0.066$ $4.00$ $4.00$ $2.47$ $1.72$ $0.066$ $4.00$ $4.00$ $2.47$ $1.722$ $1.602$ $1.602$ $4.00$ $2.47$ $0.0166$ $0.066$ $4.00$ $2.47$ $0.066$ $0.066$ $4.00$ $2.47$ $0.066$ $0.066$ $4.00$ $2.47$ $0.066$ $0.066$ $4.00$	Adjusted gross farm income	40,351	96,211	43,277	109,578	62,784	28,474	81,551	26,331
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1,43349 $437$ $757$ $757$ $15$ $306$ $40$ $(56)$ $93$ $151$ $0$ $944$ $239$ $35$ $167$ $24$ $118$ $222$ $28,857$ $26,322$ $56,444$ $41,899$ $18,348$ $46,950$ $37,353$ $16,955$ $53,134$ $20,885$ $10,126$ $34,601$ $37,353$ $1,401$ $3,210$ $1,413$ $10,126$ $34,601$ $8,966$ $4,543$ $7,775$ $5,050$ $3,337$ $7,372$ $29,660$ $13,813$ $48,569$ $17,247$ $6,888$ $29,441$ $1,273$ $1,401$ $3,210$ $1,413$ $100$ $2,212$ $29,660$ $13,813$ $48,569$ $17,247$ $6,888$ $29,441$ $1,273$ $1,401$ $3,415$ $(10,222)$ $(4,751)$ $1,449$ $(13,611)$ $(13,611)$ $(6,091)$ $3,415$ $(10,222)$ $(4,751)$ $1,449$ $(1,749)$ $2.47$ $1.72$ $4.40$ $1.60$ $0.06$ $4.00$ $(10,01)$ $2.47$ $0.06$ $0.06$ $0.06$ $4.00$	Cash operating expense	26,320	57,145		55,747	40,968	N	LΩ.	19,835
33         40         (36)         93         151         0         944           38         26,567         58,857         26,322         56,444         41,899         18,348         222           13,784         37,353         16,955         56,444         41,899         18,348         46,950           5,114         8,966         4,543         7,775         5,056         3,337         7,372           63         1,273         1,401         3,210         1,413         10,126         34,601           8,733         29,660         13,813         48,569         17,247         6,888         29,441           2,551         1,294         3,387         13,496         (10,222)         (4,751)         1,449           (9,233)         (13,611)         (6,091)         3,415         (10,222)         (4,751)         1,449         (           0.554         2.47         Northorn lilinois included but backbackbackbackbackbackbackbackbackback	40(50)9315110944239351672411822258,85726,32256,44441,89918,34846,95037,35316,95553,13420,88510,12634,6018,6664,5437,7755,0503,3377,3728,66613,81348,56917,2476,88829,4411,2731,4013,2101,4131002,21229,66013,81348,56917,2476,88829,4411,2943,38713,496(10,222)(4,751)1,4492,477(6,091)3,415(10,222)(4,751)1,4492,477(1,222)4,40(1,601)0,064,001,723,416(10,222)(4,751)1,449(12,4771,723,6111,6013,6111,6401(1,721)1,723,3871,6023,405(10,222)(4,751)1,4491,724,401.600.064,00(12,4771,720.064,00(10.062,4771,720.064,00(12,4771,720.064,00(12,4771,6500.064,00(12,4771,720.064,00(12,4771,6500.064,00(12,4771,6601,6601,640(13,4761,6601,6601,640(1<	Prepaid expense (-if increased)	175	1,433	40 10	437	757	15 5	306	(279)
26,567         58,857         26,322         56,444         41,899         18,348         46,950           13,784         37,353         16,955         55,444         41,899         18,348         46,950           5,114         8,966         4,543         7,775         5,0885         10,126         34,601           63         1,273         1,401         3,210         1,413         20,337         7,372           8,733         29,660         13,813         48,569         17,247         6,888         29,441           2,551         1,294         3,387         13,496         (10,222)         100         2,212           2,551         1,294         3,387         13,496         (10,222)         1,449         (10,222)           9,233         (13,611)         (6,091)         3,415         (10,222)         1,449         (10,222)           0,554         2,47         1,722         1,6,01         1,449         (10,222)         4,00         (1,449         (10,222)	58,857         26,322         56,444         41,899         18,348         46,950           37,353         16,955         53,134         20,885         10,126         34,601           37,353         16,955         53,134         20,885         10,126         34,601           37,353         16,955         53,134         20,885         10,126         34,601           8,966         13,813         1,401         3,210         1,413         100         2,212           29,660         13,813         48,569         17,247         6,888         29,441           1,294         3,387         13,496         (978)         871         2,524           (13,611)         (6,091)         3,415         (10,222)         (4,751)         1,449         (           2.47         1.72         4.40         1.60         0.06         4.00         (           2.47         1.72         4.40         1.60         0.06         4.00         (	Farm – produced inputs	n er	230	(00) 35	93			944	901
13,784       37,353       16,955       53,134       20,885       10,126       34,601         5,114       8,733       1,273       1,401       3,210       1,413       100       2,372 $63$ 1,273       1,401       3,210       1,413       100       2,212 $8,733$ 29,660       13,813       48,569       17,247       6,888       29,441 $2,551$ 1,294       3,387       13,496       (10,222)       17,247       6,888       29,441 $2,551$ 1,294       3,387       13,496       (10,222)       17,247       6,888       29,441 $2,551$ 1,294       3,387       13,496       (10,222)       1,7247       6,888       29,441 $0,233$ (13,611)       (6,091)       3,415       (10,222)       (4,751)       1,449       ( $0.54$ 2.47       1,722       1,6,01       1,602       4,400       (       (       4,00       (       (       4,00       (       (       0,06       4,00       (       (       4,00       (       (       4,00       (       (       0,06       4,00       (       0,06       (	37,533       16,955       53,134       20,885       10,126       34,601         8,966       4,543       7,775       50,500       3,337       7,372         29,660       13,813       48,569       17,247       6,888       29,441         1,294       3,387       13,496       17,247       6,888       29,441         1,294       3,387       13,496       (10,222)       (4,751)       1,449         (13,611)       (6,091)       3,415       (10,222)       (4,751)       1,449       (         2.47       1.72       4.40       1.60       3,415       (10,222)       (4,751)       1,449       (         2.47       1.72       4.40       1.60       0.06       4.00       (		26 567	58 857	26 222	EE AAA	11 800	812.81	AE OED	10 711
5,114         8,966         4,543         7,775         5,050         3,337         7,372           63         1,273         1,401         3,210         1,413         100         2,337         7,372           8,733         29,660         13,813         48,569         17,247         6,888         29,441           2,551         1,294         3,387         13,496         (978)         871         2,524           (9,233)         (13,611)         (6,091)         3,415         (10,222)         (4,751)         1,449         (           0.54         2.47         1.72         4.40         1.60         2160         4.00         (	8,966         4,543         7,775         5,050         3,337         7,372           1,273         1,401         3,210         1,413         100         2,212           29,660         13,813         48,569         17,247         6,888         29,441           1,294         3,387         13,496         (978)         17,247         6,888         29,441           1,294         3,387         13,496         (978)         17,247         871         2,524           (13,611)         (6,091)         3,415         (10,222)         (4,751)         1,449         (13,611)           2,47         1,72         4,405         (10,222)         0,066         4,00         (1,409         (1,601)           2,47         1,72         4,405         1,602         0,066         4,00         (1,400)         (1,600)         1,449         (1,761)         1,449         (1,761)         1,449         (1,761)         1,449         (1,761)         1,449         (1,761)         1,449         (1,761)         1,449         (1,761)         1,449         (1,761)         1,449         (1,761)         1,449         (1,761)         1,449         (1,761)         1,449         (1,761)         1,449         (1,	Income before depreciation	13 784	37,353	16 955	53 134	20,885	10126	34 601	6.618
63         1,273         1,401         3,210         1,413         100         2,212           8,733         29,660         13,813         48,569         17,247         6,888         29,441           2,551         1,294         3,387         13,496         978)         871         2,524           9,233)         (13,611)         (6,091)         3,415         (10,222)         (4,751)         1,449         (           0.54         2.47         1.72         4.40         1.60         2,524         (         4.00         (         1,449         (         (         1,600         2,524         (         1,449         (         (         1,500         0.06         4.00         (         4.00         (         (         1,600         1,600         2,524         (         1,449         (         (         1,449         (         (         1,600         1,600         4.000         (         4.00         (         1,600         1,600         (         0.06         4.000         (         1,000         1,000         1,000         1,000         (         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000 <td>1,273         1,401         3,210         1,413         100         2,212           29,660         13,813         48,569         17,247         6,888         29,441           1,294         3,387         13,496         (978)         871         2,524           (13,611)         (6,091)         3,415         (10,222)         (4,751)         1,449           2,47         1.72         4.40         (10,222)         0.06         4.00         (1,400)           2,47         1.72         4.40         (10,222)         0.06         4.00         (1,400)           2,47         1.72         4.40         (10,222)         0.06         4.00         (1,400)         (1,400)         (1,400)</td> <td>Less depreciation</td> <td>5,114</td> <td>8,966</td> <td>4.543</td> <td>7.775</td> <td>5.050</td> <td>3.337</td> <td>7.372</td> <td>5,113</td>	1,273         1,401         3,210         1,413         100         2,212           29,660         13,813         48,569         17,247         6,888         29,441           1,294         3,387         13,496         (978)         871         2,524           (13,611)         (6,091)         3,415         (10,222)         (4,751)         1,449           2,47         1.72         4.40         (10,222)         0.06         4.00         (1,400)           2,47         1.72         4.40         (10,222)         0.06         4.00         (1,400)           2,47         1.72         4.40         (10,222)         0.06         4.00         (1,400)         (1,400)         (1,400)	Less depreciation	5,114	8,966	4.543	7.775	5.050	3.337	7.372	5,113
8,733         29,660         13,813         48,569         17,247         6,888         29,441           2,551         1,294         3,387         13,496         (978)         871         2,524           (9,233)         (13,611)         (6,091)         3,415         (10,222)         (4,751)         1,449         (           0.54         2.47         1.72         4.40         1.60         0.06         4.00         (	29,660       13,813       48,569       17,247       6,888       29,441         1,294       3,387       13,496       (978)       871       2,524         (13,611)       (6,091)       3,415       (10,222)       (4,751)       1,449       (         2.47       1.72       4.40       1.60       0.06       4.00       (       4.00       (         2.47       1.72       4.40       1.60       0.06       4.00       (       4.00       (         2.47       1.72       4.40       1.60       (       0.06       4.00       (       (       4.00       (       (       4.00       (       (       4.00       (       (       4.00       (       (       4.00       (       (       4.00       (       (       4.00       (       (       4.00       (       (       4.00       (       (       (       (       (       (       (       4.00       (	Capital account adjustment	63	1,273	1,401	3,210	1,413	100	2,212	150
2,551 1,294 3,387 13,496 (978) 871 2,524 (9,233) (13,611) (6,091) 3,415 (10,222) (4,751) 1,449 ( 0.54 2.47 1.72 4.40 1.60 0.06 4.00	1,294         3,387         13,496         (978)         871         2,524           (13,611)         (6,091)         3,415         (10,222)         (4,751)         1,449         (           2,47         1.72         4.40         1.60         0.06         4.00         (           2,47         1.72         4.40         1.60         0.06         4.00         (           2,47         1.72         0.06         4.00         (         1.60         1.60         (           2,47         1.60         1.60         1.60         1.60         (         0.06         4.00         (           2,47         1.60         1.60         1.60         1.60         0.06         4.00         (	Net farm income *	8,733	29,660	13,813	48,569	17,247	6,888	29,441	1,655
(9,233)         (13,611)         (6,091)         3,415         (10,222)         (4,751)         1,449         (           0.54         2.47         1.72         4.40         1.60         0.06         4.00         (	(13,611)         (6,091)         3,415         (10,222)         (4,751)         1,449         (           2.47         1.72         4.40         1.60         0.06         4.00         (           2t dollar.         Northern Illinois includes both northern and central Illinois.         3,415         0.06         4.00         (	(operator's share) *	2,551	1,294	3,387	13,496	(978)	871	2,524	(6,345)
	t dollar. Northern Illinois includes both northern and central Illinois.	Labor & mgt. income per operator Rate earned on investment. %	(9,233) 0.54	(13,611) 2.47	(6,091) 1.72	3,415 4,40	(10,222) 1.60	(4,751) 0.06	1,449 4,00	(10,448) -3.35
NOIC. Valialioits ifi loiais uue to munimine to me nearest contar income in miners, invinere remanimente and central minors.	* Interest expense deducted from operator's share only.	Note: Variations in totals due to roun	iding to the neg	arest dollar Nort	hern Illinois inclu	dec hoth northe	rn and central	llinois		

Table 27a. 1991 Operating Costs, Investments, and Land Use by Size, Type, and Soil Rating for Part-time Illinois Farms that Use Less than 10 Months of Labor

Area of state	Northern 56	56-85	Northern 86	R6-100	l ivectock	Southern 36_85	3685	l ivectock
Range in size (total acres) Number of farms	Grain <260 34	Grain >260 37	Grain <260 51	Grain >260 59	All Farms 9	Grain<260 27	Grain>260 25	All Farms
Some costs and returns per tillable acre	acre 24.07	80 CC	00.00	14	07 00	00 E 4	10.00	
Desticides	04.97	00.00	00.00 23 60	00.10 00.57	20.42	40.22 72 4 4	18.82	30.05
Seed and other crop	17.13	16.45	17 29	17.31	20.03 16.85	14 41	14.33	11 54
Cron total	77.38	73.26	76.92	75.04	75 96	60 19	60.38	50 07
Light vehicle and utilities	8.39	5.03	8.37	4.09	13.43	8.57	5.80	21.17
Machinery repairs, supplies	14.78	11.20	12.50	12.55	24.99	15.18	14.10	27.68
Machinery hire	9.42	6.37	14.37	11.01	29.79	5.81	9.82	5.98
Fuel and oil	8.62	7.40	8.09	6.71	13.53	7.82	8.72	13.45
Machinery depreciation	23.70	17.68	18.54	15.32	12.58	17.93	15.68	30.41
Power and equipment total	64.92	47.67	61.85	49.68	94.31	55.32	54.11	98.70
Drying and storage	5.31	4.30	6.43	4.70	4.41	1.18	2.83	0.42
Building repair	3.28	2.00	4.24	2.09	7.57	1.48	1.47	9.98
Building depreciation	7.62	3.16	10.37	5.32	13.67	4.27	3.45	14.36
Building total	16.21	9.45	21.03	12.11	25.65	6.92	7.75	24.76
Labor, unpaid	42.24	19.58	44.87	22.83	53.41	44.94	20.26	71.13
Labor, hired	1.41	1.19	0.78	2.55	2.38	0.12	1.94	0.81
Labor total	43.65	20.77	45.65	25.38	55.78	45.05	22.20	71.94
Value of feed fed	7.14	2.28	2.11	1.51	237.01	5.57	7.66	173.91
Capital purchases	33.51	31.24	43.22	33.88	28.55	6.82	26.93	17.68
Operator interest paid	15.67	20.72	22.33	17.68	34.84	13.08	29.05	44.73
Crop returns	234.39	219.00	272.14	284.56	277.46	184.92	201.48	163.23
Livestock return above feed	6.40	-0.54	-1.12	0.87	59.49	2.05	3.70	49.76
Value of farm production	247.19	223.59	275.34	290,91	342.66	189.40	211.60	230.57
Total nonfeed cost	346.38	277.21	367.35	312.74	454.39	265.21	233.25	394.51
Management returns	-98.80	-50.66	-83.09	-13.31	-104.02	-75.14	-15.91	-162.62
Farm investment								
Livestock inventory	4,128	2,448	1,131	1,724	43,361	2,177	3,235	31,478
Grain inventory Remaining cost in	22,965	56,814	27,355	64,347	30,278	12,842	37,447	10,059
machinery and auto	11 676	18 050	5 857	13 101	8 105	8 400	17 510	10 448
buildings and fence	10.631	10.824	10,639	12,101	23 133	000	5.508	11 120
soil fertility	0	0	0	15	820	142	202	0
Value of land (current)	291,953	769,272	347,173	817,367	361,460	191,498	477,470	129,690
Total farm investment	341,353	858,315	392,155	908,612	467,157	219,059	541,333	192,795
Total investment per acre	1,870	1,871	2,366	2,261	2,207	1,178	1,194	974
Machinery invest. per till. acre	72	44	37	35	44	57	45	91
Percent tillable land in		ц Г	Ц С 7		L Q	0		
COLLIAID COLLI SILAGE	0.40	C. / 4	44.0	40.4	0.04 0.0	0.1.0	0.0 0.0	47.4
Wheat	3.4	4.0.4 4.0.4	0.04 0.0	4 0 4 0 4	0,4,0 0	44.0	4. Q A. A	0.1
Other small grain		i c	i C		- c			6.0 0
Diverted acres	0.0	19 19	0.0	3.2	2.5	6.0 1.4	13.0	10.2
All hay and pasture	2.1	1.7	0.3	0.8	7.3	2.6		29.5
Crop yields, bushels per acre								
Corn	93 03	88	113	122	121	87	94	69
Wheat	37 52	99 99 98	42 25	44 52	50 45	65 67 67	34 34	32
Note: Variations in totals due to rounding to the nearest	nding to the nea	dollar	arn Illinoie inclu	Northern Illinois includes both northern and central Illinois	and central			
	יוחויות וכיובי ויכי			חבא התוויותויוים	ון מוות רבוווומו ו	.elolli		

## ASSOCIATIONS, FIELD STAFF, AND COOPERATORS ENROLLED





An Illinois native, Professor Kesler received a B.S. degree from the University of Illinois College of Agriculture in 1955 and an M.S. degree in 1965. He became an assistant professor in the University of Illinois Department of Agricultural Economics in 1965. He was promoted to associate professor in 1970 and professor in 1978. In 1979, he became Assistant Head and Director of Extension Programs for the Department of Agricultural Economics, a position he held until his retirement in 1991.

## HONORED RETIREE

**Richard P. "Dick" Kesler** served Illinois agriculture for 36 years before his retirement in 1991. His early experiences teaching vocational agriculture at Lexington High School and working as a fieldman for the Illinois Farm Business Farm Management Service (FBFM) laid the foundation for his career in the Department of Agricultural Economics at the University of Illinois and in the Cooperative Extension Service.

As an Extension specialist in farm management, he made major contributions to the department's Extension programs. His work on the changing economic structure of the hog industry and his evaluation of profitability and financial feasibility have been widely recognized.

Kesler has been a leader in the farm management profession. Alert to changing conditions in Illinois agriculture, he developed a computer program to test the financial feasibility of a farm plan and assist the farm operator with financial planning during the transition to the new plan. He provided leadership in organizing the Rural Route program to deal with the financial crisis faced by many farmers in the mid-1980s, and he served on more than three dozen department, state, regional, and national committees and task forces.

Kesler has been an active member of many professional and honorary organizations. He has also received many awards and much recognition during his career, including the Illinois Cooperative Extension Service's Sustained Excellence Award and the Silver Plow Award from the American Society of Farm Managers and Rural Appraisers.

Kesler and his wife Evelyn have four married children and five grandchildren.

Prepared by D.H. Lattz, C.E. Cagley, Clark Roberts, and Irene Chow of the Department of Agricultural Economics

Urbana, Illinois

September 1992

Issued in furtherance of Cooperative Extension Work, Acts of May 8 and June 30, 1914, in cooperation with the U.S. Department of Agriculture. DONALD L. UCHTMANN, *Director*, Cooperative Extension Service, University of Illinois at Urbana-Champaign. The Illinois Cooperative Extension Service provides equal opportunities in programs and employment.

