





1991 67th annual summary of Illinois farm business records



COMMERCIAL FARMS: Production / Costs / Income / Investments

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN / COLLEGE OF AGRICULTURE / COOPERATIVE EXTENSION SERVICE

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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 participating	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
180-499. 500-999.	43.1	9.3 17.8	2,374 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 one-third 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 farm-produced inputs, depreciation, and charges for unpaid labor and interest including land charge. Purchased feeds and livestock are omitted.

The basic value of land (the current basis) is adjusted each year according to the 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

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

	•		·		
19	91		1990		
			n Southern Illinois		
ushel					
\$2.30	\$2.35	\$2.43	\$2.38		
2.37	2.37	2.38	2.40		
5.75	5.74	5.85	5.88		
		2.91	2.97		
er cwt					
\$48	3.52	\$53.69			
72	2.55		76.40		
		ļ			
. 85	5.94		85.42		
. 59	9.45		62.82		
42	2.82		58.62		
. 11	.70		13.80		
	Northern Illinois	### ### ### ### ### ### ### ### #### ####	Northern Southern Illinois Ill		

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 better-than-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 record-keeping 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	mber of acr	es per farm	
	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 16,619 -2,977 14,649 10,244	\$17,136 20,193 9,146 22,174 17,643	\$26,458 28,101 10,416 d 24,955	\$19,508 20,507 6,841 17,809 18,221
	-	Central I	llinois	
Acres of tillable land	255	490	938	679
Labor and managem				
Grain ^b Grain ^c Hog All	\$ 8,817 3,650 11,971 8,279	\$19,701 14,466 20,218 18,143		\$26,004 19,537 21,275 23,100
		Southern	Illinois	
Acres of tillable land	247	572	1,096	749
Labor and managem				
Grain	\$ 6,145 12,420 25,904 14,065	\$11,357 24,663 32,065 19,167	\$24,445 d 24,445	\$19,045 21,827 29,198 20,658

a Includes central Illinois.
 b Highly productive soils with soil-productivity ratings from 86 to 100.
 c 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, av	erage per farm		Family of 3	to 5, 1991ª
	1991	1990	1989	1988	High-third	Low-third
Number of farms	456	408	402	365	95	95
Tillable acres farmed. Acres owned. Farm assets, January 1 ^b Farm assets, December 31 ^b Liabilities, January 1 Liabilities, December 31 Net farm income	383,283 198,764 202,708	719 120 \$358,394 384,363 183,161 203,168 50,825	709 119 \$335,756 335,420 175,939 182,841 45,047	661 116 \$321,422 303,897 187,670 175,131 17,438	892 120 \$435,352 437,488 259,314 268,503 37,177	563 90 \$286,245 287,947 152,298 153,650 22,457
Source of dollars Net nonfarm income Money borrowed Farm receipts Total sources	118,446 177,832	\$ 12,624 116,122 180,737 \$309,483	\$ 10,502 90,394 156,717 \$257,613	\$ 9,654 91,872 163,138 \$264,664	\$ 15,504 179,209 233,982 \$428,695	\$ 11,537 85,461 149,306 \$246,304
Use of dollars Interest paid. Cash operating expenses Capital farm purchases. Payments on principal. Income and Social Security taxes. Net new savings and investment. Total living expenses. Living — capital purchases Total uses	\$ 15,550 111,037 22,829 113,510 11,326 -2,646 \$ 32,480 4,418	\$ 15,070 112,943 27,834 98,101 9,444 9,710 \$ 32,090 4,291 \$309,483	\$ 13,850 97,737 18,299 85,797 8,040 1,070 \$ 28,499 4,321 \$257,613	\$ 12,907 101,802 13,237 104,689 7,926 -5,739 \$ 26,439 3,403	\$ 21,438 150,975 27,770 168,916 13,213 -4,269 \$ 46,080 4,572 \$428,695	\$ 11,779 95,382 21,015 83,651 8,344 -2,457 \$ 23,283 5,307 \$246,304

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
- 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

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

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

	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	65	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	48,21			
1991	36,437	21,663	12,110	3,850	95	-6,907	-30,034	25,502			

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

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

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

		Grain farms				Н	og farms				Beef farms				
	1991	1990	1987-1991 average		1991		1990		987-1991 average		1991		1990		87-1991 average
Number of farms	787	832	80	7	203		208		219		52		49		50
Total acres	577	571	560		550		555		543		525		529		525
ratingCash operating	86	87	87		81		82		82		76		78		78
income\$ Less purchased	167,054	\$ 175,291	\$ 168,668	\$	332,478	\$	362,584	\$	331,042	\$	486,023	\$	592,017	\$	538,154
feed and livestock	759	2,563	8,30		96,515	_	106,361	_	103,690	_	289,894	_	370,808	_	339,630
Net cash operating income\$ Accounts receivable	166,295	\$ 172,728	\$ 160,36	\$	235,963	\$	256,223	\$	227,352	\$	196,129	\$	231,864	\$	198,524
change	-1,101 -10,777 247	2,961 2,546 259	-2,010 1,85 262	7	-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	154,664	,				\$	286,066	\$		\$	158,258	\$	238,593	\$	201,017
expenses Prepaid-unpaid	79,094	80,543	74,99		115,501		120,996		107,914		96,867		108,005		96,491
Annual depreciation	417 10,612	-820 11,112	-444 12,02		-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	\$ 73,89	\$	76,679	\$	140,355	\$	95,355	\$	37,237	\$	110,000	\$	79,484
(Operator's share) ^a Unpaid labor charge Returns to capital	(21,119) 16,759	(35,863 16,007			(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	47,782	71,652	58,47		56,829		120,319		76,557	,	17,780		92,918		62,594
capital	61,519	61,971	59,94	-	69,212	_	74,807	_	69,770		72,373		81,830		76,680
Management returns \$	-13,737	\$ 9,681	\$ -1,46	\$	-12,383	\$	45,512	\$	6,787	\$	-54,593	\$	11,088	\$	-14,086
Total cash income ^b Total cash	168,499	177,146	170,12		333,821		363,704		332,170		486,345		592,798		538,866
expenditures ^b	94,596	98,119	95,46		239,090	_	264,352	_	237,606	_	409,871	_	493,506	_	458,322
Cash balance \$ Capital purchases	73,903 14,974	\$ 79,027 15,259	\$ 74,65° 12,40°		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			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	19,39 18,25 6	3	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	\$1,004,193	\$	940,654	\$	949,170	\$	869,558	\$	815,506	\$	852,175	\$	787,495
Total farm investment	,238,153	\$1,220,016	\$1,140,98	\$	1,222,772	\$1	,252,192	\$	1,144,313	\$1	1,203,174	\$1	1,275,966	\$1	,172,753
Rate earned on investment, percent	3.86	5.87	5.13	3	4.65		9.61		6.69		1.48		7.28		5.34

a Interest expense deducted from operator's share only.

b 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 com-

pared 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

		Corn	Soyl	beans
	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	\$ 55	\$ 53	\$ 18	\$ 18
Soil fertility	φ 55 24	э ээ 22	25	په ۱۵ 22
Seed	23	23	13	13
Drying and storage	8	10	4	4
Machinery repairs, fuel,	Ū			•
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	\$226	\$232	\$160	\$163
Land costs				
Taxes	\$ 20	\$ 21	\$ 20	\$ 21
Adjusted net rent	98	96	98	96
Total, land costs	\$118	\$117	\$118	\$117
Total, all costs		\$349	\$278	\$280
Nonland cost per bu	\$ 1.7	3 \$ 1.56	\$ 3.48	\$ 3.47
Total, all costs per bu			\$ 6.04	\$ 5.96
Average yield,				
past 4 years		133	43	43
Total, all costs per bu	\$ 2.7	1 \$ 2.62	\$ 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 340to 799-Acre Northern Illinois Dairy Farms

	1991		1990		87-1991 average
Number of farms	65		60		58
Total acres Soil-productivity rating	479 71		468 71		475 71
Cash operating income\$ Less purchased feed and livestock	250,972 50,142	\$	262,824 49,015	\$	260,622 56,963
Net cash operating	00,142	_	40,010	-	- 00,000
income\$ Accounts receivable	200,830	\$	213,809	\$	203,659
changeInventory change	-681 -11,996		1,347 10,996		-592 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 Annual depreciation	775 18,791		-786 23,114		-387 22,720
Net farm income\$	64,208	\$	97,617	\$	84,564
(Operator's share) ^a Unpaid labor charge Returns to capital	(28,683) 25,825		(59,117) 25,403		(47,882) 23,970
and management	38,383 56,898		72,214 57,359		60,594 57,068
Management returns\$	-18,515	\$	14,855	\$	3,526
Total cash income ^b Total cash expenditures ^b	253,834 177,451		263,351 183,204		261,523 181,248
Cash balance \$ Capital purchases FARM INVESTMENT	76,383 21,951	\$	80,147 27,016	\$	80,275 22,146
Livestock inventory\$ Grain inventory	119,491 74,253	\$	106,712 69,595	\$	106,124 65,372
Remaining capital cost in: Machinery and auto Buildings and fence	40,523 50,108		36,556 57,152		35,431 60,727
Soil fertility	895		970	8	392
Value of land (current basis)	642,402		607,563		586,482
Total farm investment\$	927,672	\$	878,548	\$	854,528
Rate earned on investment, percent	4.14		8.22		7.09

^a Interest expense deducted from operator's share only.
b 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

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	987-1991 average	
Number of farms	224	254	259	83	82	86	39	39	44	
Total acres	591	579	582	559	548	551	525	528	514	
Soil-productivity rating	60	60	60	58	59	59	59	59	59	
Cash operating income	\$132,623	\$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	\$123,535	\$128,038	\$128,403	\$173,382	\$189,122	\$182,342	\$233,379	\$255,011	\$232,701	
change	-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	\$124,605	\$127,939	\$132,305	\$159,307	\$199,734	\$185,856	\$238,439	\$263,152	\$244,840	
Total cash operating expensesPrepaid-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) ^a Unpaid labor charge	(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	
Returns to capital 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 ^b Total cash	133,939	139,252	142,998	248,187	277,387	266,649	306,930	322,387	296,545	
expenditures ^b	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	26,152 7,446	22,832 8,138	21,614 9,569	29,721 23,269	26,110 27,750	28,113 33,185	61,839 33,864	50,366 31,541	46,461 32,473	
Soil fertilityValue of land	57	31	57	61	81	48	0	0	0	
(current basis)	650,945	623,279	594,023	566,733	568,479	540,853	572,338	561,949	522,924	
Total farm investment Rate earned on	\$762,900	\$733,029	\$702,464	\$758,441	\$772,178	\$746,287	\$892,731	\$844,660	\$791,679	
investment, percent	3.96	4.65	5.73	4.66	9.08	7.73	7.12	10.91	10.66	

a Interest expense deducted from operator's share only. b 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 decreased \$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

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. Fifteen-year 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 long-term 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 5-year 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 15-year period in the beef-cattle industry is difficult because this industry is more complex and adjusts more slowly than other livestock enterprises.

The returns above feed costs for dairy enterprises of \$1,064 per cow in 1991 were \$193 below the 5-year 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) ^a
Returns above c	nst of fee	d and nur	chased a	nimale	
1987		\$13.28	\$30.47	\$1,301	\$212
1988		6.63	20.56	1,116	196
1989		10.20	18.66		170
1990	27.15	15.79	25.74	1,471	230
1991	17.67	6.80	3.97	1,064	106
Five-year					
average	\$20.13	\$10.54	\$19.88	\$1,257	\$183
Nonfeed costs, 1		iah 1991			
Direct cash	\$ 6.35 ^b	\$ 4.20°	\$12.80°	\$ 420°	\$ 30°
Other costs	10.60 ^b	6.50°	11.30°	645°	175°
Total		\$10.70	\$24.10	\$1,065	\$205
Nonfeed cost for	future pr	roduction			
Direct cash		\$ 4.35 ^d	\$13.00 ^d	\$ 440	\$ 30
Other costs	16.00	7.00	15.00	800	200
Total	\$22.75	\$11.35	\$28.00	\$1,240	\$230

^a The feed cost for beef herds includes up to \$60 of hay equivalent from salvage

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 beef-cow 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

			-to-finis rprises	sh		
	All	farms	350 or litte per f	rs	Feed pi produ	g
Number of farms		618		110		21
Pork produced, pound Pork produced per litter, pound Total returns Value of feed fed	\$1	1,862 85,877 10,163	\$4	18,903 1,858 97,441 78,598	\$(93,928 530 65,455 32,732
Returns per \$100 of feed fed	\$	168	\$	178	\$	199
Number of litters farrowedPigs farrowed		230		602		177
per litter Pigs weaned per litter		9.57 8.00		9.73 8.26		9.87 7.90
Litters farrowed per 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	IOO pou	242 nds pro	nducad	48ª
Price received	\$	48.52	\$	49.43		90.59ª
Total return	\$	43.38 25.71	\$	44.45 24.90	\$	
Return above feed	\$	17.67	\$	19.55	\$	34.83
Farm grains, pound Commercial feed,		294		288		285
pound		_86		_86		116
Total concentrates, pound		380		374		401
Cost per 100 pounds of commercial feed Cost per 100 pounds	\$	14.98	\$	14.38	\$	19.38
of concentrates	\$	6.74	\$	6.64	\$	8.65

^a 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.

roughage.

^b 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 Manuals from 1987 to 1991.

d Includes interest on purchase cost: one-third year for feeder-pig finishing, and one-

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

	ι	Jnder 250 litte	rs	25	0 litters or mo	re
	1991	1990	1989	1991	1990	1989
Number of farms	52	48	58	101	89	126
Tillable acres Number of litters	255	231	243	564	607	513
	155	138	145	495	475	439
			per 100 pounds	of pork produced		
Total returns	\$ 42.88	\$ 53.55	\$ 43.13	\$ 44.46	\$ 53.81	\$ 44.43
Cash costs Feed Operating expenses: Maintenance and power ^a	\$ 26.61	\$ 28.30	\$ 28.62	\$ 25.02	\$ 25.46	\$ 26.36
	3.80	4.16	3.20	3.96	4.24	3.58
Livestock expenses	1.99	2.22	1.66	2.24	2.16	1.86
	1.05	.97	.97	1.02	1.02	1.01
Total operating expenses Total cash costs	\$ 6.84	\$ 7.35	\$ 5.83	\$ 7.22	\$ 7.42	\$ 6.45
	\$ 33.45	\$ 35.65	\$ 34.45	\$ 32.24	\$ 32.88	\$ 32.81
Other costs Depreciation ^b Labor Interest charge on all capital	\$ 1.84	\$ 2.52	\$ 2.16	\$ 2.34	\$ 2.68	\$ 2.58
	4.33	4.37	3.74	4.28	3.70	3.62
	3.20	3.64	3.49	3.25	3.55	3.61
Total other costs	\$ 9.37	\$ 10.53	\$ 9.39	\$ 9.87	\$ 9.93	\$ 9.81
Total nonfeed costs	\$ 16.21	\$ 17.88	\$ 15.22	\$ 17.09	\$ 17.35	\$ 16.26
	\$ 42.82	\$ 46.18	\$ 43.84	\$ 42.11	\$ 42.81	\$ 42.62
	\$.06	\$ 7.37	\$71	\$ 2.35	\$ 11.00	\$ 1.81

^a Includes utilities, machinery, equipment and building repairs, machine hire, and fuel.
^b 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. Feeder-Cattle and Feeder-Pig Finishing Enterprises, 1991 Averages per Farm

	Feeder cattle	Feeder-pig finishing
Number of farms	214	172
Total pounds produced	157,566 \$ 70,934 \$ 64,675 \$ 109	162,282 \$ 49,704 \$ 38,674 \$ 128
pounds produced	2.0 661 \$ 85.94 \$ 72.55 1,161	2.1 50 \$ 97.33 \$ 48.42 244
	per 100 pound	ls 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 Total concentrates, pound	605 45 650	286 80 366
Hay, pound	63 479 105 268	a a

a 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 feed-processing affect the individual cost items reported in Table 12. But the return above all costs should accurately reflect the relative efficiency of the 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-

Table 14. Average Costs and Returns for Beef-Feeding Enterprises, 1988 Through 1991

	1991	1990	1989	1988	1988-1991 average
Number of farms	34	36	40	41	38
Tillable acres Hundredweight beef produced	571	610	583	527	573
	3,069	3,585	3,446	2,845	3,236
	646	755	725	599	681
	665	654	658	655	658
	1,180	1,133	1,140	1,127	1,145
	\$ 72.66	\$ 76.77	\$ 72.32	\$ 68.76	\$ 72.63
	\$ 88.11	\$ 86.65	\$ 83.35	\$ 81.04	\$ 84.79
		per 100	pounds of beef pro	oduced	
Cash costs Feed ^a Operating expenses: Maintenance and power ^b Livestock expense Insurance, taxes, and overhead Interest on cattle ^c	\$ 41.17	\$ 40.09	\$ 39.67	\$ 40.46	\$ 40.35
	3.81	3.71	3.44	3.67	3.66
	2.32	2.25	2.60	2.80	2.49
	1.30	1.18	1.32	1.12	1.23
	7.46	8.47	9.06	7.69	8.17
Total operating expense Total cash costs	\$ 14.89	\$ 15.61	\$ 16.42	\$ 15.28	\$ 15.55
	\$ 56.06	\$ 55.70	\$ 56.09	\$ 55.74	\$ 55.90
Other costs Depreciation ^d Labor Interest on other capital	\$ 3.76	\$ 4.05	\$ 4.07	\$ 3.68	\$ 3.89
	2.61	2.20	2.31	1.95	2.27
	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
	\$ 45.65	\$ 67.23	\$ 58.60	\$ 58.78	\$ 57.57
Return above all costs	\$-19.22	\$ 2.63	\$ -6.41	\$ -4.12	\$ -6.78

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

d Includes machinery, equipment, and building depreciation.

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

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 1991.

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	Effici	ency
	farms	Higha	Lowb
Number of farms	165	54	56
Number of cows	66.3 13.4 129	12.7 139	61.0 14.0 118
Total returns	\$150,707 \$ 80,136		\$120,491 \$ 76,294
feed fed Returns above feed	\$ 188	\$ 214	\$ 157
per cow	\$ 1,064	\$ 1,385	\$ 724
100 pounds	10,976	12,851	9,157
Pounds of milk per cow	16,555	18,023	15,011
Pounds of butterfat per cow	604	652	552
Total beef produced, pound	42,973	51,299	37,112
Pounds of beef per cow	648		608
Death loss, percent of pounds produced	10.4	6.9	13.0
Price received for:			
100 pounds of milk 100 pounds of beef Per unit of milk and beef:°	\$ 11.70 \$ 59.45		\$ 11.46 \$ 58.99
Feed costGrain, pound	\$ 52.46 328		\$ 59.28 375
minerals, pound	104	104	<u>113</u>
Total concentrates, pound	432	401	488
roughage, pound Corn silage, pound Other silage, pound Pasture days	326 480 419	375 421	352 610 435
Pasture days per animal unit	6		8
Hay equivalent per cow, tons	7.9		8.1
Concentrates per cow, pound	9,951	10,110	10,292

^a High one-third return above feed per cow exceeds 1,200.
^b Low one-third return above feed per cow is below 930.
^c 1,000 pounds of milk or 100 pounds of beef.

d No significant pasture use.

Table 16. Average Milk Production Costs and Returns by Size of Herd, 1989 Through 1991

	40 t	to 79 cows in I	herd	80 or n	nore cows in h	erd
	1991	1990	1989	1991	1990	1989
Number of farms	80	102	101	59	57	53
Tillable acres	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 o	f 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 ^a Livestock expenseInsurance, 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 ^b 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

^a Includes utilities, machinery, equipment and building repairs, machine hire, and fuel.
^b 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

			<u> </u>
	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 returnsValue of feed fedReturns per \$100 of	\$21,469 \$16,587	\$14,121 \$11,069	\$31,119 \$22,520
feed fedReturns above feed	\$ 129	\$ 127	\$ 138
per cow Death loss, pound Percent of pounds		\$ 72 1,570	\$ 168 2,636
produced Price received per	5.8	8.3	4.7
100 pounds sold		\$ 77.83	\$ 69.37
	per 1	00 pounds pr	oduced
Feed cost Grain, pound Protein and minerals,	\$ 48.65 257	\$ 59.04 155	\$ 40.52 301
pound	36	37	_31
Total concentrates, pound	293	192	332
roughage, pound Corn silage, pound	681 364	1,024 245	410 399
Other silage, pound Pasture days	88	85 45	115 18
Pasture days per animal unit	142	150	125
cow, tons	5.7	4.9	5.6

herds averaged \$129 in 1991. The return for the 5-year 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 hundred-weight, 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.	6,905 \$2,256 \$3,479 \$ 64
Percent lamb crop Death loss, pound Percent of pounds produced	145 635 9.2
Price received	per 100 pounds produced \$42.82
Feed cost	\$50.38 385 724
Corn silage, pound	0 6 887

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.



Table 19. 1991 Average Return, Costs, and Financial Summary by Size and Management Returns for Northern and Central Illinois Grain Farms with Soil Ratings from 86 to 100

Dange in size (total acres)	180-330	340_700	800-1100	Over 4400	Volir Form	Alf Carmo	140	200
nalige III size (total acies) Manadement returns	SSS-001		661 - 000	SS - 120	וסמו רמוווו	All ralling	040. 1 0w 25%	ו קנו
Number of farms	68	486	221	112		887	122	122
Total acres in farm Acres of tillable land	281 269	572 552	979 941	1,546		774	567 549	612 591
Soil rating on tillable land	66	92	86	86		92	92	60
lotal months labor Months of hired labor	11.4	13.1	16.9 2.9	25.2		15.4	13.4	13.0
Beef produced, hundredweight	00) - (201			i	0	<u>.</u>
Pork produced, nundredweignt Dairy cows, number	00	00	-0	00		00	00	00
Dollar returns per farm Crop returns	75.971	160 970	282 234	451 852		221 397	125 107	200 R51
Livestock returns above feed	വ	14	2	54		16	9	45
Custom work	1,198	1,859	3,161	6,749		2,750	1,762	2,016
Other farm receipts	846	1,294	2,008	3,815		1,756	945	1,586
Value of farm production	78,024	164,138	287,406	462,471		225,919	127,819	206,499
Crop expenses	20,414	42.758	71.743	112.583		57.083	45.648	42.837
Power and equipment	15,315	26,284	44,901	06,550		35,166	28,116	26,530
Building and fence	4,269	6,248	9,613	13,318		7,827	6,927	5,333
Labor	16,260	18,557	24,628	37,086		22,233	19,121	18,297
livestoch services afra supplies Taxes	7 00 7 00 7	11 294	18 647	300 20 462		14 082	146	12 053
nsurance and miscellaneous	0 000	5.074	7,007	12,402		4,506	7,00,01	7,000
Interest on nonland capital	6.656	12,503	22.416	36,343		17,535	13.032	12,833
and charge or net rent	26,342	52,845	89,675	141,854		71,229	52,647	56,053
Total nonfeed cost	97,965	175,719	289,579	449,977		232,757	181,604	178,930
Capital account adjustment Management returns	636 (19304)	(10,500)	1,603 (569)	1,514		1,231	859	2,030
Farm production per \$1.00	(100'01)	(2001)	(000)	00.		(000,0)	(75,351)	660,67
of nonfeed costs	08.0	0.93	0.99	1.03		26.0	0.70	1.15
Farm production per man	81,846	150,741	203,547	219,835		175,522	114,353	191,266
Financial summary 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)		(069'9)	(32,645)	14,412
Accts. receivable (net change)	(742)	(1,179)	(1,771)	(3,612)		(1,600)	(1,583)	(952)
ess pirchased feed	09 767	371	440 7 80 F	7 240		361	200	344
Less purchased livestock	0	103	160	259		129	21.0	231
Adjusted gross farm income	78,024	164,138	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	319	179	635		348	575	(340)
Accis, payable (+ii increased) Farm - produced inputs	0 0	(139)	(10)	715		(//)	(142)	(126)
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	50 463	1,080	1,603	1,514		1,231	859	2,030
(operator's share) *	9,715	25,079	43,093	67,128		33,699	614	49,947
Labor & mgt. Income per operator Rate earned on investment %	(3,640)	6,003 4 15	16,138 4 93	27,230		10,469	(36,268)	46,012
N 000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1			8		2		70.1

Note: Variations in totals due to rounding to the nearest dollar. Farms with soil ratings from 86 to 100 are those with nearly level, well-drained prairie soils.

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

Number of times Number of	Management returns Number of farms						%50 WO	High 25%
68 486 221 112 887 122 34.42 35.72 36.03 34.35 35.43 38.71 123 17.58 17.42 16.53 17.72 2.35 23.53 23.57 14.66 18.02 16.53 17.72 2.64 3.64 45.57 14.66 18.02 16.53 17.72 2.64 3.67 4.55 14.66 18.15 18.26 13.6 12.56 13.17 12.56 16.59 17.71 18.35 18.06 14.46 4.70 12.56 16.59 17.71 18.17 18.06 17.71 2.06 13.71 2.06 13.71 2.06 13.71 2.06 13.71 2.06 13.72 2.06 13.72 2.06 13.72 2.06 13.72 2.06 13.72 2.06 13.72 2.06 13.72 2.06 13.72 2.06 13.12 2.06 13.12 2.06 13.12 2.06 <	Number of farms						202)
3442 3572 3600 3435 3543 3544 3877 7586 17.66 16.23 17.77 17.77 17.47 23.37 14.06 17.02 16.26 17.77 17.47 23.37 16.43 17.02 16.26 17.77 26.44 83.27 16.43 17.11 18.35 11.38 12.55 13.17 16.50 17.71 18.35 11.06 17.71 20.16 55.30 47.70 44.46 4.56 5.40 5.12 56.50 17.71 18.35 11.06 17.71 20.16 56.50 17.71 18.35 18.06 17.71 20.16 57.30 18.17 18.35 19.07 19.07 19.06 19.06 56.60 1.40 1.52 24.78 29.61 10.04 29.36 10.04 56.71 1.10 1.10 1.10 1.10 10.04 10.04 10.04 10.04		68	486	221	112	887	122	
44.2 26.0 24.35 26.4 26.4 26.5 26.4 26.5 <t< td=""><td>Some costs and returns per tiliable ac</td><td>re</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Some costs and returns per tiliable ac	re						
ties 6 4 4 1 2 2 8 6 2 3 6 6 2 3 6 6 2 3 1 7 7 5 7 7 4 4 7 2 7 6 2 1 7 7 7 7 7 7 7 7 7 2 7 6 2 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Soil fertility		35.72	36.03	34.35	35.43	38.71	32.92
The color of the	Pesticides	23.81	23.68	23.66	23.12	23.53	23.97	22.95
tiese 6.56 May 77.42 76.21 75.22 76.44 83.21 1.66 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Seed and other crop	17.66	18.02	16.53	17.75	17.47	20.53	16.57
Second Color	Crop total	75.88	77.42	76.21	75.22	76.44	83.21	72.45
1961 1968 1969	Light vehicle and utilities	6.43	4.01	3.15	2.64	3.46	4.50	3.69
on 10,33 5,30 5,09 4,38 5,14 5,14 5,13 nent total 15,90 17,11 18,35 18,06 17,71 20,16 nent total 56,33 5,30 5,22 4,36 5,12 1,27 20,16 7,26 5,30 47,35 10,21 3,28 4,36 5,74 5,12 6,55 3,39 3,72 1,09 3,74 20,16 5,74 5,74 6,54 3,32 7,10 2,26 1,09 3,71 3,28 3,03 4,55 5,86 3,02 2,61 20,00 0,11 0,13 0,03 4,55 1,77 1,131 1,02 2,96 2,97 0,03 0,04 0,03 1,10 2,10 2,10 2,10 2,10 2,10 0,04 0,04 1,10 1,10 1,10 2,10 2,20 0,04 0,04 0,04 1,10 1,10 1,10<	Machinery repairs, supplies	14.66	13.02	12.69	11.38	12.55	13.17	12.29
on 15.90 17.71 18.41 8.03 8.24 8.20 nent total 56.39 17.71 18.35 18.06 17.71 20.16 nent total 7.26 47.59 47.70 44.46 7.00 17.71 20.16 1.26 1.39 1.77 1.22 1.00 1.22 1.28 1.75 1.58 /r 1.139 1.17 1.02 1.04 4.55 5.04<	Machinery hire	10.33	5.30	5.09	4.36	5.14	5.13	5.05
on 17.11 18.35 18.06 17.71 20.16 nent total 56.92 47.89 47.87 18.06 17.71 20.16 2.06 1.40 1.72 4.59 5.20 4.59 5.74 5.74 2.06 1.40 1.73 1.02 1.60 1.02 5.74 5.78 5.86.7 3.32 2.71 3.26 2.71 2.20 2.74 5.74 5.74 60.44 3.32 2.71 2.90 3.21 2.37 3.34	Fuel and oil	9.61	8.15	8.41	8.03	8.24	8.29	7.87
nent total 56.93 47.59 44.46 47.09 45.75 2.06 5.93 47.70 44.46 47.09 51.25 2.06 5.96 3.99 3.71 1.02 1.09 5.66 3.99 3.71 1.02 1.09 1.28 5.66 3.02 1.07 1.57 1.02 1.04 5.66 3.02 7.70 1.07 1.03 1.06 6.64 3.02 7.70 1.04 3.00 0.04 0.03 0.06 0.11 2.06 0.01 0.04 0.04 0.03 0.03 0.03 0.03 0.04 0.02 0.04 1.06 2.20 0.04 0.04 0.02 0.04 0.02 1.06 2.20 0.04 0.04 0.02 0.04 0.02 1.07 1.08 3.05 3.05 3.04 3.06 3.04 1.06 2.20 3.04 3.04 <t< td=""><td>Machinery depreciation</td><td>15.90</td><td>17.11</td><td>18.35</td><td>18.06</td><td>17.71</td><td>20.16</td><td>15.97</td></t<>	Machinery depreciation	15.90	17.11	18.35	18.06	17.71	20.16	15.97
7.26	Power and equipment total	56.93	47.59	47.70	44.46	47.09	51.25	44.87
2.06 1.40 1.22 1.09 1.09 1.28 1.28 1.28 1.28 1.28 1.28 1.28 1.28	Drying and storage	7.26	5.92	5.28	4.53	5.40	5.61	5.22
1586 3.74 3.99 3.71 3.28 3.79 3.71 3.28 3.79 3.71 3.28 3.79 3.71 3.28 3.71 3.28	Building repair	2.06	1.40	1.22	1.09	1.28	1.28	0.97
15.87 11.31 10.21 8.90 10.48 12.63 1.83 33.2 7.10 15.78 23.87 30.28 1.83 33.2 7.10 24.78 23.87 34.86 0.03 20.86 22.478 29.61 29.27 31.87 21.00 22.87 30.25 29.61 29.27 31.97 17.75 18.17 17.65 16.70 17.62 16.88 efeed 282.41 291.46 299.81 301.88 296.74 228.67 efeed 290.04 297.20 305.30 308.97 302.52 223.70 tion 290.04 297.20 305.30 300.89 300.89 302.52 223.70 tion 290.04 297.20 305.30 308.97 31.68 31.68 tion 290.04 297.20 305.82 83.01 30.25 23.31 tion 10.895 23.345 33.48 31.68 31.64 <	Building depreciation	6.55	3.99	3.71	3.28	3.79	5.74	2.83
See 2	Building total	15.87	11.31	10.21	8.90	10.48	12.63	9.05
183 3.32 7.10 9.00 9.55 0.09 0.00 1.83 3.32 7.10 0.13 0.015 1.83 3.32 7.10 0.13 0.015 1.7.75 18.17 1.7.5 1.6.75 1.6.75 1.7.75 18.17 1.6.75 1.6.75 1.7.75 1.8.17 1.0.00 1.7.76 1.8.17 1.0.00 1.7.76 1.8.17 1.0.00 1.7.76 1.8.17 1.0.00 1.7.76 1.8.17 1.0.00 1.7.76 1.8.17 1.0.00 1.7.76 1.8.17 1.0.00 1.7.76 1.8.17 1.0.00 1.7.77 1.8.17 1.0.00 1.7.76 1.8.17 1.0.00 1.7.76 1.8.17 1.0.00 1.7.76 1.7.70 1.0.00 1.7.76 1.7.70 1.0.00 1.7.76 1.7.70 1.0.00 1.7.76 1.7.70 1.0.00 1.7.76 1.7.70 1.0.00 1.7.76 1.7.70 1.0.00 1.7.70 1.7.70 1.0.00 1.7.70 1.7.70 1.0.00 1.7.70 1.7.70 1.0.00 1.7.70 1.7.70 1.7.70 1.7.70 1.7.70 1.7.70 1.7.70 1.7.70 1.7.70 1.7.70	Labor, unpaid	58.62	30.28	19.07	15.78	23.87	30.31	28.20
60.44 33.60 26.16 24.78 29.77 34.86 0.03 0.03 0.04 0.03 0.05 0.01 0.03 0.05 0.01 0.03 0.05 0.01 0.05 0.03 0.05 0.01 0.05 0.00 0.04 0.00 0.00 0.04 0.00 0.00	Labor, hired	1.83	3.32	7.10	9.00	2.90	4.55	2.75
20.03 0.06 0.11 0.13 0.09 0.00 0.11 0.13 0.09 0.00 0.00 0.00 0.00 0.00 0.00 0.0	Labor total	60.44	33.60	26.16	24.78	29.77	34.86	30.94
17.75	Value of feed fed	0.03	90'0	0.11	0.13	60.0	0.04	0.05
17.75	Capital purchases	21.00	28.87	30.25	29.61	29.27	31,97	28.72
re feed	Operator interest paid	17.75	18.17	17.65	16.70	17.62	16.68	18.70
re feed 0.03 0.03 0.00 0.04 0.04 0.02 0.00 0.01 0.02 0.01 0.00 0.04 0.02 0.00 0.00 0.04 0.02 0.00 0.00	Crop returns	282.41	291.46	299.81	301.88	296.47	228.05	343.07
tion 290.04 297.20 305.30 308.97 302.52 233.00 10 836.16 318.16 307.61 300.62 311.68 331.04 130 168 33.45 193.885 312.683 150.818 10 895 23.451 50.662 83.012 36.789 197.668 10 895 23.451 50.662 83.012 36.789 197.668 10 895 23.451 50.662 83.012 36.789 197.668 10 895 23.451 50.662 83.012 36.789 197.668 11 852.37	Livestock return above feed	0.03	0.03	00.00	0.04	0.02	0.01	0.08
130 168 37,61 300,62 311,68 331,04 130 168 334 1,098 150,818 324 141 54,110 107,463 193,885 312,683 150,818 97,668 10,895 23,451 50,662 83,012 36,789 187,668 12,522 15,088 23,319 33,486 19,265 19,765 12,522 15,088 23,319 33,486 1,582,846 1,169,225 10,895 1,174,366 1,992,763 3,152,288 1,780,124 1,169,225 10,806 2,360 2,260,976 3,582,891 1,790,124 1,316,588 11,174,367 49,2 48,3 49,7 49,0 48,7 49,3 49,2 48,3 49,7 49,0 66,0 11,174,367 45,3 46,3 44,1 45,4 46,1 49,3 49,3 44,1 6,6 6,6 6,6 6,6 1,1,174,367 45,3	Value of farm production	290.04	297.20	305.30	308.97	302.52	233.00	349.24
10,895	Total nonfeed cost	364.16	318.16	307.61	300.62	311.68	331.04	302.61
130 168 334 1,098 15,088 15,088 312,683 15,083 15,088 15,088 23,319 33,486 15,088 23,319 33,486 15,088 15,088 23,319 33,486 15,088 11,0895 15,088 11,0895 15,088 11,0895 15,088 11,0895 15,088 11,0895 15,088 11,0895 15,088 11,092,763	Management returns	-71.76	-19.01	-0.61	96.96	-7.51	-96.48	20.06
10,895 23,451 50,662 83,012 36,789 28,942 15,028 15,088 23,319 33,486 15,025 15,088 23,319 33,486 15,025 15,088 23,319 33,486 15,025 15,088 1,174,326 1,992,76 3,522,891 1,790,124 1,316,538 1,174,326 2,309 2,310 2,317 2,317 2,319 2,323 3,522 3,317 2,318 2,323 3,523 3,522 3,317 2,318 2,323 3,523	Farm investment						•	
10,895 23,451 50,662 83,012 36,789 28,942 15,088 23,319 33,486 19,765 19,765 33 486 15,522 15,088 23,319 33,486 19,265 19,765 33 486 11,74,326 1,992,763 3,152,288 11,790,124 11,790,124 13,000 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Livestock inventory	130	168	334	1,098	324	141	235
10,895 23,451 50,662 83,012 10,895 19,765 19	Grain inventory	54,110	107,463	193,885	312,683	818,061	899'76	122,188
10,095 23,451 30,062 83,012 19,065 19,765 19,765 33,486 11,74,326 19,765 19,765 19,765 33,486 11,74,326 11,992,763 3,152,288 11,780,124 11,699,925 11,780,124 11,780,	Tellally cost III	0	00		0	0	0.00	700
1,322 15,026 25,319 35,486 15,222 15,025 15,025 15,025 15,025 15,025 15,025 15,025 15,025 15,025 17	machinery and auto	10,895	23,451	20,062	83,012	36,789	28,942	23,131
till. acre 2,378 1,174,326 1,992,763 3,152,288 1,582,846 1,169,925 1,790,124 1,320,560 2,309 2,317 2,319 2,317 2,313 2,323 49.2 48.3 49.7 49.0 48.7 45.3 45.6 46.3 44.1 45.3 45.6 0.6 0.6 0.6 0.8 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	soil fertility	220,21	000,C1 67	65,62	337	207,81	19,700	17,11
till. acre 2,357 1,320,560 2,260,976 3,582,891 1,790,124 1,316,558 acre 2,357 2,309 2,310 2,317 2,313 2,323 49.2 48.3 49.7 49.0 48.7 45.3 45.3 45.6 6.0 6 0.6 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	Value of land (current)	585.378	1 174 326	1 992 763	3 152 288	1 582 846	1 169 925	1 245 620
acre 2,357 2,309 2,310 2,317 2,313 2,323 2,323 (11). acre 49.3 49.2 48.3 49.7 49.0 48.7 45.3 49.0 48.7 45.3 49.0 48.7 45.3 45.3 45.3 45.3 44.1 60.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1	Total farm investment	663,067	1 320 560	2 260 976	3 582 891	1 790 124	1316558	1 402 916
till. acre 41 42 54 55 49.0 48.7 49.0 48.7 49.0 48.7 45.4 46.1 6.1 6.0 6.0 6.8 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0	Total investment per acre	2,357	2,309	2,310	2,317	2,313	2,323	2,292
49.3 49.2 48.3 49.7 49.0 48.7 45.4 46.1 45.3 45.4 46.1 45.4 46.1 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0	Machinery invest, per till, acre	41	42	54	52	49	53	39
49.3 49.2 48.3 49.7 49.0 48.7 48.1 48.1 48.1 48.1 60.6	Percent tillable land in							
45.3 45.6 46.3 44.1 45.4 46.1 6.1 0.4 0.6 0.6 0.8 0.6 0.5 0.0 0.1 0.0 0.1 0.1 3.7 3.6 4.0 3.7 3.5 0.1 0.1 0.2 0.1 0.1 121 126 130 128 93 42 44 46 46 46 50 54 50 51	Corn and corn silage	49.3	49.2	48.3	49.7	49.0	48.7	48.8
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Soybeans	45.3	45.6	46.3	44.1	45.4	46.1	45.5
3.5 3.7 3.6 4.0 3.7 3.5 3.5 3.7 3.5 3.5 3.7 3.5 3.5 3.7 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5	Other and Arein	4. 0	0.0	0.0	0.0	0.0	0 0	0.0
121 126 130 128 45 45 50 51 50	Divorted acres	Э 6 Э и	0.0			2.0	- u	- w
121 126 130 128 0.1 42 44 46 46 54 50 51	All have and machino		2.00	9 6	4; c	2.0		0.0
121 126 130 128 93 42 44 46 46 45 35 62 50 46 54 50 51	Crop vields bushels per acre	-		.	V.	- - -	- - -	.
aans 42 44 46 46 46 54 35 51 51	Corn	121	126	130	128	128	66	151
62 50 46 54 50 51	Soybeans	42	44	46	46	45	35	52
	Wheat	62	20	46	54	20	21	48

Table 20. 1991 Average Return, Costs, and Financial Summary by Size and Management Returns for Northern and Central Illinois Grain Farms with Soil Ratings from 56 to 85

with Soil Hatings from 56 to 85	CD 01 0							
Range in size (total acres)	180-339	340-799	800-1199	Over 1199	Your Farm	All Farms	340	-799
Management returns Number of farms	63	301	130	93		587	Low 25% 75	High 25%
Total acres in farm	274	584	967	1,708		814	577	620
Soil rating on tillable land	78	77	77	92		22	78	77
Total months labor	11.9	12.9	15.7	22.9		15.0	13.6	12.7
Reaf produced bundredweight		- 0) () ()			4.7	<u>.</u> 5 ⊂	Ö -
Pork produced, hundredweight	00	0.4	00) —		10	0	<u>. ਨ</u>
Dairy cows, number	0	0	0	0		0	0	0
Dollar returns per farm	700	000	900	000		0	40000	0 7
Crop returns	224'60	130,013	230,390	393,200		190,080	000,001	100,040
Custom work	(e) 798	1.952	2.736	6.286		2.688	1.737	3.428
Other farm receipts	942	1,351	2,519	3,968		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	9/	163
laxes	4,703	9,730	71/4	170,42		788,71	9,300	10,491
Institute and inscending	3,003 6,105	11 646	10,788	32,573		16,073	11 667	4,997
l and charge or net rent	21,187	43,687	72,527	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	96.0		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	77 044	150 764	000	454		7700	24 4 4 4 4 7 6	0 0 0
linyentow change	(0.044	(17.431)	020,002	(38 790)		(21,020)	147,176	183,616
Accts, receivable (net change)	(123)	(926)	(439)	(20,730)		(1 031)	(1851)	(200)
Farm products used	66	214	452	828		351	262	117
Less purchased feed	904	1,193	4,874	6,922		2,885	2,731	319
Less purchased livestock	0	25	173	522		134	0	24
Adjusted gross farm income	67,153	139,350	235,807	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	0/2	(663)	(2,361)		(73)	1,154	(517)
Fam - produced inside	(30) 03)	3 3 1 1	202	(964)		(92) 336	288	0 TO
Total operating expense	40 435	75 496	107 518	015 467		105 420	707	C01
Income before depreciation	26.717	63,855	108,292	188.074		89,391	980,07 089	111 158
Less depreciation	6,264	11,935	18,989	32,266		16,110	13,497	12,883
Capital account adjustment	1,082	1,263	642	1,221		1,099	623	2,792
Net farm income *	21,535	53,184	89,946	157,030		74,381	13,215	101,067
(operator's share) *	8,237	14,724	21,558	28,506		17,725	(12,796)	42,590
Labor & mgt. income per operator Bate earned on investment %	(5,582) 1.01	(2,000)	(624) 3 94	672		(1,656)	(42,220)	43,020
Note: Variations in totals due to rounding to the pearest	ing to the nea	doll of	points los divisions	4.30 of 92 mort	diver coods orc	Lociore Aroco	DO.O-	oliop rodmit
# Interest of a second of the	שווא נט נווע יוכע	dolla.	raillis will soil failligs Iloin so to os are those with poorly drained, neavy—till, and timber soils	S II OI II DO IO OO	מנב חוספב אוחו ל	poorly arallica	I, fleavy - IIII, and	III IDEI SOIIS.

* Interest expense deducted from operator's share only.

Table 20a. 1991 Average Operating Costs, Investments, and Land Use by Size and Management Returns for Northern and Central Illinois Grain Farms with Soil Ratings from 56 to 85

Manage III size (total acres)	600 - 001	040 - 040	881-1000	000		All railis	040 – 188	56.
VICE COLUMN					5		1000 050	201
Number of farms	63	301	130	86		587	LOW 25% 75	75 75
Some costs and returns nor tillable acre	orog							
Soil fertility	37.94	34 09	35.39	34 74		34 79	33.08	32 12
Pacticidae	24 74	22 GR	23.78	21 80		22 70	20.00	20.70
Seed and other crop	17.60	16.60	16.78	17.20		16.88	16.83	16.37
				200			8	0.0
Crop total	80.28	73.37	75.96	73.82		74.46	72.15	72.29
Light vehicle and utilities	9.79	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		2.06	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		0.11	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		249 10	181 16	316.36
Livestock return above feed	-0.04	0.06	0 17	20:052		20.0		0.00
Value of farm production	259.50	251 79	257 28	257.21		255.30	186.10	305 03
Total nonfeed cost	348.03	288.35	279.74	268.50		281.77	296.73	285.36
Management returns	-84.35	-34.27	-21.76	-10.52		-25.03	-109.50	44.62
Farm investment								
Livestock inventory	44	334	556	858		435	17	494
Grain inventory	46,617	95,268	152,592	222,614		122,917	90,888	109,940
machinery and auto	44 188	007 00	75000	0		0 0 0 0	000	000
buildings and fence	11,318	15,758	20,802	31,181		18,844	15 534	16 794
soil fertility	9	78	68	01		70	680	79
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	20	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	41.1	41.1	41.7	39.5		40.7	45.5	36.5
Other small grain	- C	- c	0 0	O. 4		Ö #	0. 0	_ c
Diverted acres	φ Ψ. α.	- W		- <		- «	- u	. r
All hay and pasture	9:0	0.0	- e	r 0) (n)	0.0	0.0
Crop yields, bushels per acre								
Corn	103	100	86	103		101	65	136
Soybeans	38	36	36	37		36	28	49
wheat		43	43	36		40	44	41

Note: Variations in totals due to rounding to the nearest dollar. Farms with soil ratings from 56 to 85 are those with poorly drained, heavy-till, and timber soils.

Table 21. 1991 Average Return, Costs, and Financial Summary by Size and Months of Labor for Northern and Central Illinois Hog Farms with Soil Ratings from 86 to 100

Soll Datings Iron oo to	200							
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/	31 – 39
Total acres in farm	192	375	634	1,152		636	636	943
Acres of unlable land Soil rating on tillable land	101 102	334 91) ()	6/0'-		200	5 G	8/2
Total months labor	14.0	19.2	26.8	40.0		26.4	24.4	35.0
Months of hired labor	4.8	4.4	11.9	22.2		11.1	7.4	17.8
Beef produced, hundredweight Pork produced, hundredweight	22 2 080 2 080	3 861	145 5.614	273 7 469		134	221	421 6.000
Dairy cows, number	0	0	0	0		0, 10	r o	0,00
Dollar returns per farm								
Crop returns	48,415	97,505	183,499	311,665		174,552	172,450	257,039
Livestock returns above reed	38,725 812	65,427	97,203	147,831		93,482	72,035	121,157
Other farm receipts	465	880	1,711	5,786		2,358	1,239	1,125
Value of farm production	88,418	166,125	283,883	469,886		272,783	247,886	381,739
Dollar costs per farm								
Crop expenses	13,414	25,042	49,547	83,942		46,799	43,518	73,272
Power and equipment	17,100	36,335	50,710	87,581		51,551	47,415	74,583
Building and fence	5,932	13,116	19,794	33,037		19,448	15,575	28,903
	9,7,8	6/1/7	20,702	2/8/30		38,727	35,164	52,515
Livestock services and supplies Taxes	7,007	0,388 8,68 8,6	14,890	17,977		12,233	8,604	16,348
Instrance and miscellaneous	3,433	4 916	0,121	15,132		12,001 8,031	7 421	10,120
Interest on nonland capital	9,905	19,989	33.377	56.273		32,380	28 184	47,600
Land charge or net rent	18,046	33,580	56,956	102,589		56,962	56,638	82,551
Total nonfeed cost	94,653	176,576	285,789	481,136		279,891	254,869	406,168
Capital account adjustment	1,087	1,376	806	5,899		2,294	953	3,269
Management returns	(5,148)	(6,073)	(1,099)	(5,351)		(4,814)	(6,028)	(21,160)
Farm production per \$1.00						,		,
of nonfeed costs	0.93	0.94	0.99	96.0		0.97	0.97	0.94
Farm production per man	75,895	103,813	127,243	140,875		124,195	122,090	130,994
Cash operating income	127 EEO	000 030	404 200	097 590		000	770 077	0.00
Inventory change	(3,838)	(15,519)	(25,490)	(92, 750)		393,490	345,074	025,040 (36,068)
Accts, receivable (net change)	(374)	(260)	(1,283)	(1 391)		(P66)	(586)	(1,049)
Farm products used	144	429	950	1.781		912	777	1.698
Less purchased feed	37,497	64,055	86,656	109,816		79,622	64,521	84,617
Less purchased livestock	7,567	12,467	24,926	32,900		21,246	20,272	22,362
Adjusted gross farm income	88,418	166,125	283,883	469,886		272,783	247,886	381,739
Cash operating expense	40,950	81,931	145,278	247,146		139,888	120,235	204,843
Prepaid expense (-if increased)	(629)	477	1,194	1,875		914	1,501	(48)
Accis, payable (+II increased)	<u>ა</u>) i	737	883		334	, d	1,090
Total Operating expense	20000	909 68	477 404	00/		303	1/0	740
Income before depreciation	40,009	83,500	126,121	210,009		14.000	125 804	475 440
Less depreciation	9,044	19,319	27,080	46,517		27,151	23,031	44.878
Capital account adjustment	1,087	1,376	908	5,899		2.294	620'53 626	3.269
Net farm income *	40.152	65.584	110.488	178.957		106.240	103.035	133,500
(operator's share) *	19,599	27,300	41,115	56,088		38,270	42,680	46,317
Labor & mgt. income per operator	11,853	7,754	17,534	11,757		12,730	11,952	3,480
Rate earned on investment, %	4.50	4.65	5.51	5.35		5.26	5.05	4.65
Note: Variations in totals due to rounding to the nearest dollar. Farms with soil ratings from 86 to 100 are those with nearly level, well -drained prairie soils	ling to the near	est dollar. Farm	s with soil rating	s from 86 to 10	0 are those with	nearly level, v	vell-drained prair	ie soils.

* Interest expense deducted from operator's share only.

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

Range in size (total acres)	60-259	260-499	500-799	Over 799	Your Farm	All Farms	Month	Months of Labor
Management retums Number of farms	20	35	47	35		137	21–27	31 – 39
Some costs and returns per tillable acre	acre							
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		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	109,260	162,646		101,992	89,705	143,840
Grain inventory	39,164	70,045	137,264	231,343		129,805	124,978	192,951
machinery and auto	0 7 4	10000	000	0 4		000	070	0
buildings and fence	14,515 16,205	37,985	47,080,080	100,194		40,024	0/2,14	02,000
soil fertility	0	000	0	123		31	10,00	92,28
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	62		78	20	95
Percent tillable land in								
Corn and corn silage	57.8	52.5	58.7	54.2		22.7	54.5	53.4
Soybeans	30.6	36.9	34.0	37.3		35.8	36.5	37.1
Otheremallarsin	- 0	- + o c	D) C	0		4. 0	4. 0	, N. C
Diverted acres	n o − e	7 6	o ∠ 4. ←	- œ		Q <	ο α ο α	4. 0
All hay and pasture	2.6	20.5	; ,) e		1 -	0, 40	n o
Crop yields, bushels per acre							!	
Corn	112	117	124	121		121	121	134
Soybeans	44	44 4	50	47		84 6	47	52
Note: Variations in totals due to rounding to the nearest dollar	ociona to the pear	`	Farme with coil ratings	from 86 to 100	r dtiw gacht orc	w jevel war	43	25 dio eoile
Note: Variations in totals due to roun	ding to the near		e with coil ratings	from 86 to 100	are those with r	w jevel w	1771	ained prair

Note: Variations in totals due to rounding to the nearest dollar. Farms with soil ratings from 86 to 100 are those with nearly level, well-drained prairie soils.

Table 22. 1991 Average Return, Costs, and Financial Summary by Size and Months of Labor for Northern and Central Illinois Hog Farms with Soil Ratings from 56 to 85

with Soil Ratings from 56 to 85	5 to 85							
Range in size (total acres)	60-259	260-499	500-799	Over 799	Your Farm	All Farms	Months 21 27	Months of Labor
Number of farms	46	83	81	63		273	64	16
Total acres in farm	198	373	627	1,180		605	658	1,077
Acres of tillable land	183	332	551	988		523	9/9	798
Soil rating on tiliable land	0 4	0 + 0	07 / 0	C 2 90		0 00	0 70	الار الار
Nonths of hired labor	5 70		11.3	0.00		9.1	9.1	15.9
Beef produced, hundredweight	107	169	230	480		249	252	720
Pork produced, hundredweight	2,373	2,791	4,818	7,579		4,427	4,616	992'9
Dairy cows, number	-	0	0	0		0	0	0
Dollar returns per farm	1	0				(() () () () () () () () () ()	
Crop returns	47,769	83,080	144,476	280,300		720,043	206,001	200,788
Livestock returns above reed	44,224 ARA	47,146	1 796	139,830		18,312	81,066	200,911
Other farm receipts	910	1.186	1.779	5,116		2,222	2,514	4,706
Value of farm production	93.390	132,925	229,812	429,453		223 440	246 396	333 111
Dollar costs per farm								
Crop expenses	13.405	24 125	41 108	74 846		39.063	44 538	56.350
Power and equipment	24,097	29,708	49,229	78,326		45.774	51,977	74,954
Building and fence	10,221	10,081	17,175	30,490		16,919	18,599	24,523
Labor	21,015	22,988	38,681	62,740		36,485	36,912	51,483
Livestock services and supplies	5,663	6,350	11,242	18,539		10,499	11,857	17,886
Taxes	3,685	5,838	10,210	17,426		9,446	11,030	12,619
Insurance and miscellaneous	4,088	4,369	7,753	13,947		7,536	8,104	11,418
Interest on nonland capital	12,962	17,396	30,083	55,391		29,181	31,735	49,934
Land charge or net rent	14,179	26,388	43,569	79,169		41,609	45,915	61,247
Total nonfeed cost	109,314	147,243	249,048	430,871		236,510	260,666	360,413
Capital account adjustment	694	520	835	1,862		952	615	2,179
Management returns	(15,229)	(13,797)	(18,401)	445		(12,118)	(13,655)	(25,121)
Farm production per \$1.00								
of nonfeed costs	0.85	06.0	0.92	1.00		0.94	0.95	0.92
Farm production per man	76,816	826'86	111,661	140,160		115,719	122,085	114,169
Financial summary	466 400	000	040	040		0.00	040	r r
Cash operating income	100,490	208,148	367,040	018,488		342,900	370,428	555,249
Inventory change Accts receivable (net change)	(12,372)	(p,69/2)	(28,630)	(12,425)		(15,483)	(17,620)	(39,453)
Farm products used	454	417	441	885		, 25 23 23 23 23 23 23 23 23 23 23 23 23 23	(0,0,1)	1 125
Less purchased feed	45.666	47.512	85.430	122.456		75.746	77.517	122,008
Less purchased livestock	15,265	20,816	22,490	53,711		27,968	28,349	61,131
Adjusted gross farm income	93,392	132,941	229,812	429,453		223,445	246,396	333,111
Cash operating expense	50,163	69'089	130,912	230,590		121,513	132,493	187,898
Prepaid expense (-if increased)	(10)	800	(348)	(2,455)		(428)	148	(1,354)
Accts. payable (+if increased)	(67)	(49)	169	(1,009)		(208)	, 25	(3,115)
Fairn - produced inputs	141	18	60	303		139	061	397
locare before depreciation	50,225	69,921	130,801	227,427		121,013	132,816	183,825
l ess depreciation	10,107	140,000	25,013	42,550		24,430	000,01	149,207 28 155
Capital account adjustment	694	520	835	1 862		020,42	615	2,179
Not farm income *	20 450	70 676	24 400	460 039		70 750	010	140 040
(operator's share) *	14,115	20,07	20,128	60,931		28.576	20,07.2	40,961
Labor & mot income per operator	1 500	3 0 1 2	(3 304)	12 067		0 C	2 753	(6 400)
Rate earned on investment, %	2.65	3.88	4.32	5.80		4.78	5,72 4.72	(0,422) 4.56
Note: Variations in totals due to rounding to the nearest dollar.	ling to the near	est dollar. Farm	Farms with soil ratings from 56 to 85 are those with poorly drained	s from 56 to 85	are those with p	oorly drained,	heavy-till, and timber soils	nber soils.

* Interest expense deducted from operator's share only.

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

TOO I AITHS WILL SON MANINGS HOLL SO	dalligs il Oli De	0						
Range in size (total acres)	60-259	260-499	200-799	Over 799	Your Farm	Ail Farms	Months	Months of Labor
Management returns Number of farms	46	83	81	63		273	27 – 27	31-39
Some costs and returns per tillable acre								
Soil fertility	30.66	32.13	32.03	31.36		31.68	33.86	32.22
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, nired	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	62.69		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
lotal 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	50,654	70,607	112,324	198,839		109,214	114,223	219,683
Remaining cost in	570,00	0,40	100'76	116,201		97,045	1.0,409	006,001
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
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	0 200 080		1 227 330	1 354 470	1 880 150
Total investment per acre	2,275	2 071	2 037	1 974		800, 122, 1	7,4,400,1	1,509,1
Machinery invest, per till, acre	i 0 0 0 0	69	76	- 60		2,250	, , , ,	, c
Percent tillable land in	}	}	2	5			8	0
Corn and corn silage	61.9	60.5	57.6	53.7		56.7	59.3	54.0
Soybeans	23.7	25.1	29.4	33.9		30.2	29.2	28.7
Wheat	1.7	2.2	3.0	3.2		2.8	2.8	2.9
Other small grain		1.7	0.7	O.5		6.0 9.1	1.0	0.8
Diversed acres	က်းက	4.1	9:4	8.0		4.7	4.4	4.5
Crop vields bushels per acre	0.0	0.0		3.1		89. 80.	2.9	8.7
Com	107	106	110	418		110	4	100
Soybeans	4	42	42	47		44	44	41
Wheat	46		35	36		36	38	35
Note: Variations in totals dise to rounding to the peares	Airo the the popular	of dollar Farm	Scripto a lice daires of	10 0+ 01 more	and albert and and and	Landan duning	Lange Aill and Ail	and the same of the

Note: Variations in totals due to rounding to the nearest dollar. Farms with soil ratings from 56 to 85 are those with poorly drained, heavy-till, and timber soils.

Table 23. 1991 Average Return, Costs, and Financial Summary by Size and Management Returns for Southern Illinois Grain Farms with Soil Ratings from 36 to 85

SOIL MAIINGS ITOM SO TO 60	0		;					
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	Low 25% 56	High 25% 56
Total acres in farm	279	591	796	1,829		1,001	609	604
Acres of unable land Soil rating on tillable land	232 56	945	09	65 29		09	57	5/5 64
Total months labor	12.7	14.0	18.3	29.0		19.3	14.9	13.9
Months of filled labor Reef produced by indredweight	0.0 9.0	0.7	- œ	13.7		0.00 0.00	7.7	2.2
Pork produced, hundredweight	22	163	330	587		312	137	187
Dairy cows, number	0	0	0	0		0	0	0
Dollar returns per tarm	52011	118 670	107 704	380 E16		205 703	101	177
Livestock returns above feed	3,004	3,482	5.250	10,260		5,713	0667	4 009
Custom work	225	206	1,965	4,074		1,988	737	975
Other farm receipts	804	1,539	3,341	6,199		3,211	1,418	1,368
Value of farm production	56,047	124,601	208,350	403,048		216,615	106,228	161,937
Dollar costs per farm	1	1						
Crop expenses	16,059	35,285	58,916	114,614		61,454	40,910	36,383
Power and equipment	13,002	27,778	43,241	84,461		46,032	32,933	26,698
Building and fence	1,540	3,102	5,191	11,329		5,741	3,508	2,213
Labor	250,71	19,741	171,02	43,190		125,12	20,894	19,260
Livestock services and supplies	480	516	3 888	1,752		939	469	491
laxes	0,820	4,836	7,205	13,370		9/5/	4,495	5,012
Insurance and miscellaneous	2,7,7	3,730	21/0	10,8/1		0,085	4,058	108°5
Interest on normand capital	2,330	015,01	100,01	34,370		18,059	12,254	10,341
Total popped cost	705,07	497 678	44,000	00,030		47,909	447 704	32,300
Capital account adjustment	120	04,070	400'E	099,048		215,122	147,701	20,100
Management returns	(14 421)	(9 409)	(2 178)	7,10		(3 7 28)	(42 555)	26,112
CO + & 100 100 100 100 100 100 100 100 100 1	(12,1,1)	(001,0)	(=, 1, 0)	0000		(0,15)	(15,000)	50,115
Farm production per \$1.00 of nonfeed costs	0.79	0.93	0.99	1.01		0.98	0.72	1.17
Farm production per man	53,126	106,563	136,693	161,558		134,795	85,359	139,802
Financial summary			!					
Cash operating income	62,502	132,620	217,347	422,445		227,795	125,633	154,430
Inventory change	(2,543)	481	882	1,255		628	(10,277)	15,735
Accis, receivable (net change)	(83)	(85)	(153)	(/19)		(243)	5 23	(66) (93)
l ann piodacis asea	1085	010	-,- 0,-49	400,1		90°, a	0000	492
Less purchased livestock	3,033 8,033	4,897	4.224	4.530		4.515	4,617	4 961
Adjusted gross farm income	56,047	124,601	208,350	403,048		216,616	106,228	161,937
Cash operating expense	29,253	65,771	109,603	212,993		114,284	71.058	68,851
Prepaid expense (-if increased)	838	602	2,150	6,337		2,539	1,608	21
Accts. payable (+if increased)	250	(26)	51	(66)		(19)	(156)	13
Farm - produced inputs	174	548	696	1,430		873	472	383
Total operating expense	30,515	66,863	112,772	220,666		117,676	72,980	69,268
Income before depreciation	25,532	57,740	95,581	182,381		98,941	33,248	92,669
Capital account adjustment	0,273	10,791	10,000 505	35,757		0,400	15,379	2/0/5
Not farm income *	878.00	47.647	000	4 40 706		909	7500(1)	2,000
(operator's share) *	4.432	14.246	21,602	37,180		21,721	(8,394)	37,140
Labor & mot income per operator	1 887	7 282	14.328	17 900		11 680	(07.670)	42,002
Rate earned on investment, %	1.02	3.96	5.02	5.53		4.94	(£4,0/3) -0.28	8.18
Note: Variations in totals due to rounding to the nearest dollar.	ling to the near	rest dollar.						

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

Table 23a. 1991 Average Operating Costs, Investments, and Land Use by Size and Management Returns for Southern Illinois Grain Farms with Soil Ratings from 36 to 85

with Soil Ratings from 36 to 85	36 to 85				1			
Range in size (total acres)	180 – 339	340-799	800-1199	Over 1199	Your Farm	All Farms	340-799	.799
Management returns Number of farms	30	224	149	143		546	Low 25%	High 25%
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	attractivities framework for the develop of twenty distribution of the development	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		1	1					1
Livestock inventory	11,336	11,457	15,417	21,258		15,098	11,838	10,512
Grain inventory . Bemaining cost in	31,788	00,843	110,245	981,155		ואר,אור	١٧٥,٢٨	182,87
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	က	22	64			105	176	0
Value of land (current)	273,482	650,944	1,046,347	1,897,695		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	09	48	44	09		53	73	38
Percent tillable land in	7	0	1	1		0	C T	4
Corn and corn sliage	40.1	3.65	40.7	40.7		20 to 0	40.5 5.05	24.00 25.00 25.00
Wheat	7.6	10.0	20.7	12.72		10.7		10.4
Other small grain	0.0	0.0	0.0	00		0.0	0.0	0.0
Diverted acres	4.8	5.4	4.7	4.8		4.9	0.9	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	i						i	
Corn	9 1	თ დ თ დ	100	97		80 K	76	124
Wheat	34	34	32	32		32	31	4 4
Note: Variations in totals due to rounding to the neares	nding to the near	est dollar.						
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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

SOLITOR SOLITOR HOLD SOLO OS	2							
Range in size (total acres)	60-259	260-499	500-799	Over 799	Your Farm	All Farms	Months	Months of Labor
Number of farms	20	52	49	45		166	21–21	31 - 39
Total acres in farm Acres of tillable land	195	382	653	1,177		655	669	903
Soil rating on tillable land	01	09	288	20		29	200	288
Total months labor Months of hired labor	16.1 4.0	17.6	20.08 8.00	37.2 17.0		23.7	24.1 7.6	33.7 13.0
Beef produced, hundredweight	37	85	162	280		155	91	304
Dairy cows, number	0	0	000	200		102,4	0,502,	0.4.0
Dollar returns per farm	0	Î	7	0				
Crop returns	42,626	70,757	114,196	244,772		127,363	130,399	165,607
Custom work	40,073 742	40,314 540	06/00	2.262		1,090	1.262	1,849
Other farm receipts	3,113	2,114	3,062	7,245		3,905	5,062	8,183
Value of farm production	93,155	113,725	186,793	390,170		207,755	210,295	263,016
Dollar costs per farm								
Crop expenses	13,041	22,746	37,769	78,123		41,023	43,026	61,214
Power and equipment	24,675	28,084	39,897	91,155	The state of the s	48,258	49,023	62,096
building and fence	23,968	7,174	10,690	23,873		12,594	14,145	15,832
l ivestock services and supplies	5 769	5.431	8 799	15,734		04, 0	11 796	10,00
Taxes	2,096	3,343	4,970	9.185		5.257	6.163	6.947
Insurance and miscellaneous	3,426	4,237	6,348	11,083		6,618	7,432	608'9
Interest on nonland capital	13,051	13,915	21,381	46,517		24,853	25,544	32,961
Land charge or net rent	9,840	18,323	29,646	57,298		31,209	30,410	40,008
Total nonfeed cost	100,905	128,034	189,176	387,791		213,229	221,818	286,780
Capital account adjustment	126	13/	3/0	844		396	381	1,024
Management returns	(7,623)	(14,171)	(2,012)	3,222		(9/0/9)	(11,141)	(22,739)
Farm production per \$1.00 of nonfeed costs	0.92	0.89	66'0	1.01		0.97	0.95	0.92
Farm production per man	69,627	77,582	107,533	125,974		105,313	104,711	93,634
rinancial summary Cash operating income	177 043	187 900	283 531	567 570		216 BO2	217 711	307 4EE
Inventory change	(8,829)	(18,017)	(11,592)	(39,970)		(20.965)	(21,371)	(32.758)
Accts. réceivable (net change)	(23)	(65)	(227)	(1,125)		(362)	(413)	(92)
Farm products used	440	595	1,013	1,663		989	949	1,319
Less purchased leed Less purchased livestock	11,672	7.645	17,939	24,769		15,850	12 197	18 182
Adjusted gross farm income	93,155	113,725	186,793	390,170		207,755	210,295	263,016
Cash operating expense	48,927	64,540	99,744	216,859	Variation of the last of the l	114,342	119,344	162,745
Prepaid expense (-if increased)	23	(502)	(127)	(3,264)		(1,077)	(1,486)	(2,303)
Accis, payable (+ii increased) Farm produced inputs	222	341	102 631	198		191	482	975
Total operating expense	49.176	64.597	100.348	215,023		114 070	118917	161 316
Income before depreciation	43,979	49,127	86,445	175,147		93,685	91,378	101,700
Less depreciation	11,596	12,014	17,979	40,247		21,378	23,383	23,009
Capital account adjustment	126	137	370	844		396	381	1,024
Net Tarm Income *	32,509	37,251	68,836	135,744		72,703	68,376	79,715
I abor 8 mat income nor age	0.0.0	4,000	27,72	00.4.00		70,000	100,001	000,17
Labor & rigt. Income per operator Rate earned on investment, %	8,478 4.36	2,366 3.28	16,343 5.59	16,913 6.11		11,172	8,849 4.80	3,225 4,08
Note: Variations in totals due to rounding to the neares	ing to the near	tdol						

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

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

Number of farms	with Soil Hatings from 36 to 85	n 36 to 85							
52 49 45 166 21–27 8 21.45 31.28 34.64 33.37 35.71 30.60 30.71 30.60 30.71 30.71 30.71 30.71 30.71 30.71 30.71 30.71 30.71 30.71 30.71 30.72 30.82	Range in size (total acres)	60-259	260-499	500-799	Over 799	Your Farm	All Farms	Months	of Labor
32.45 31.28 34.64 33.37 35.71 21.05 19.10 22.02 10.28 20.85 21.17 15.56 14.69 17.28 16.21 16.21 16.85 99.07 65.07 73.44 70.43 73.77 16.85 25.32	Number of farms	20	52	49	45		166	21-27	31 – 39
22.45 31.28 34.64 33.37 35.71 21.05 19.10 22.06 20.85 21.12 15.56 1469 17.28 16.21 16.21 16.50 11.12 11.08 16.21 16.85 29.34 20.33 25.14 17.04 17.36 13.65 29.34 20.33 25.14 14.27 14.36 13.65 13.65 13.65 13.65 14.36 <	Some costs and returns per tillable								
15.05	Soil fertility	37.50	32.45	31.28	34.64		33.37	35.71	40.01
19.20	Pesticides	18.36	21.05	19.10	22.02		20.85	21.21	19.68
69.07 7(3)49 7(0)43 7(0)44 7(0)44 7(0)44 7(0)44 7(0)44 7(0)44 7(0)44 7(0)44 7(0)44 7(0)44 7(0)44 7(0)44 7(0)44 7(0)44 7(0)44 7(0)44 7(0)44 </td <td>Seed and other crop</td> <td>11.11</td> <td>10.00</td> <td>14.09</td> <td>07.71</td> <td></td> <td>10.21</td> <td>10.83</td> <td>21.81</td>	Seed and other crop	11.11	10.00	14.09	07.71		10.21	10.83	21.81
1935 11.17 11.04 11.04 11.95 13.63 1937 23.3 25.13 25.23 25.32<	Crop total	73.04	69.07	65.07	73.94		70.43	73.77	77.80
25.34 25.34 25.34 25.32 13.76 12.74 10.34 7.66 4.86 13.77 12.73 10.39 14.65 4.86 24.82 16.74 46.27 2.42 26.09 21.3 12.4 2.72 2.18 44.05 21.76 11.56 11.71 12.69 4.75 21.76 11.56 11.71 12.69 4.75 21.76 11.56 11.71 12.69 4.75 21.76 11.60 22.59 22.16 24.25 21.76 11.60 22.59 24.75 24.25 21.76 11.60 24.75 24.25 24.25 21.76 22.59 24.75 24.25 24.25 21.24 11.85.2 24.75 24.25 24.25 21.24 11.85.2 24.75 24.25 24.25 21.24 11.85.2 24.25 24.25 24.25 21.24 22.25	Mochine and utilities	22.57	13.59	11.17	11.04		11.95	13.63	10.53
1,3,7 1,0,38 1,0,08 1,0,08 24,82 19,27 10,38 14,56 24,82 19,27 25,44 24,25 26,09 85,28 68,14 66,27 82,85 14,05 11,58 11,71 12,65 12,43 13,92 21,158 11,71 12,65 12,43 13,92 21,158 11,71 12,65 12,43 13,92 21,168 12,13 21,13 21,62 24,25 240,06 36,37 24,12 21,62 24,25 240,05 36,37 24,12 21,68 28,17 240,06 36,37 26,05 30,95 30,95 240,05 36,37 128,61 20,56 30,95 240,16 183,74 36,50 36,05 36,05 388,77 325,91 36,04 36,05 36,05 388,77 325,91 36,04 36,05 36,05 40,16 33,34	Machinery repairs, supplies	41.65	29.34	20.33	25.14		25.08	25.32	31.04
15.76 16.77 14.76 14.09 85.28 68.74 86.27 24.25 26.00 85.28 68.74 86.27 2.75 2.18 1.79 2.13 1.29 2.75 2.18 1.79 1.79 2.17 1.26 1.24 1.29 1.70 8.55 2.17 1.26 1.24 1.39 1.39 1.39 2.17 1.26 22.59 22.59 24.25 24.25 24.25 2.40.6 16.88 24.72 27.36 18.37 19.35 19.35 19.35 2.40.6 16.89 24.72 27.36 18.37 19.35 28.05<	Enel and oil	9.00 0.00 0.00	3.77	5.73	10.38		7.68	4.36	4.08
85.28 68.74 86.27 62.85 84.05 7.01 84.05 7.01 84.05 7.01 8.55 84.05 7.01 8.55 84.05 7.01 8.55 84.05 7.01 8.55 84.05 7.01 8.55 84.05 7.01 8.55 1.72 7.20 7.01 8.55	Machinery depreciation	77.77	07.70	10.74	14.27		08.50	14.65	0.4.00
2.13 05.74 05.27 2.75 2.18 44.05 7.01 45.25 1.2.43 1.7.91 1.7.91 1.7.91 1.7.92 1.7.91 1.7.92 1.7.93	Machinely acplication	1 0	20.42	19.27	44.00		C2.42	60.02	10.43
2.13 1.29 2.75 2.18 1.79 11.50 1.29 7.75 1.70 1.79 11.50 11.71 12.65 7.70 1.79 21.78 11.71 12.65 7.70 13.95 1 58.26 34.15 22.59 21.62 24.72 24.25 <td>Power and equipment total</td> <td>138.20</td> <td>85.28</td> <td>68.74</td> <td>86.27</td> <td></td> <td>82.85</td> <td>84.05</td> <td>78.93</td>	Power and equipment total	138.20	85.28	68.74	86.27		82.85	84.05	78.93
11.58 11.74 1.20 7.01 18.55 21.78 11.74 12.65 12.43 13.92 1 21.78 11.78 11.72 22.59 21.62 24.25 24.25 58.26 34.15 27.17 21.62 24.25 40.40 24.25 75.25 51.18 51.86 24.72 20.56 200.90 16.37 66.00 40.05 36.97 56.60 30.95 30.95 30.22 200.90 16.37 16.37 16.37 66.00 16.00	Drying and storage	76.1	2.13	1.29	2.75		2.18	1.79	1.85
21.78 18.42 22.59 21.62 24.25 58.26 34.15 27.17 37.29 40.40 75.25 51.13 51.88 28.65 58.77 40.05 34.15 27.17 37.29 40.40 40.05 36.97 56.60 49.10 49.99 40.05 36.97 28.05 20.96 20.90 40.05 36.97 28.05 20.90 49.10 345.32 196.74 23.165 129.45 126.44 345.32 38.74 36.25 36.05 36.05 345.32 38.75 36.96 36.06 36.05 47.174 72.350 172.102 86.365 86.064 11.20 47.174 72.350 172.102 86.365 86.366 86.366 86.366 40.105 88.3750 41.912 41.910 41.910 41.910 40.105 88.3750 11.248 11.248 11.248 11.29 <t< td=""><td>Building depreciation</td><td>19.51</td><td>11.58</td><td>11 71</td><td>12.50</td><td></td><td>10.7</td><td>8 8 8 8 8</td><td>7.45</td></t<>	Building depreciation	19.51	11.58	11 71	12.50		10.7	8 8 8 8 8	7.45
21.00 16.42 22.59 24.25 <th< td=""><td></td><td>0.00</td><td>2 2</td><td></td><td>00.31</td><td></td><td>24.7</td><td>26.01</td><td>10.02</td></th<>		0.00	2 2		00.31		24.7	26.01	10.02
75.26 34.15 27.17 37.29 40.40 75.26 51.13 51.88 58.75 58.65 58.77 240.80 183.74 187.27 27.25 205.60 200.90 1 240.80 183.74 187.27 26.65 30.95 30.25 200.90 1 240.85 36.97 26.60 30.95 30.95 37.22 200.90 1 214.85 196.74 231.65 20.66 30.95 37.22 20.36 30.35 20.36 30.35 30.57 30.35	Dunding total	54.50	21.78	18.42	22.59		29.12	24.25	20.12
7.52 51.13 51.18 51.18 51.13 51.18 51.13 51.18 51.13 51.22 50.00 49.99 37.22 200.90 49.99 37.22 200.90 49.99 37.22 200.90 49.99 37.22 200.90 49.99 37.22 200.90 49.99 37.22 38.0.57 38.0.57 38.0.57 38.0.57 38.0.52 38.0.57 38.0.52 38.0.52 38.0.52 38.0.52 38.0.52 38.0.52 38.0.52 38.0.52 38.0.52 38.0.52 38.0.52 38.0.52 38.0.	labor hired	90.57	17.00	34.15	27.17		37.29	40.40	37.48
20.25 13.14 51.88 51.88 58.65 58.77 40.08 38.74 187.27 20.60 20.30 149.99 40.08 38.74 183.74 187.27 28.05 20.30 49.99 40.08 38.97 56.05 30.95 37.22 20.36 37.22 21.4.85 196.74 231.65 128.67 223.58 126.14 129.45 126.14 126.14 345.32 321.81 366.09 360.57 360.5		1000	00.7-1	00.00	24.12		06.12	10.01	73.00
240.80 183.74 187.27 205.60 200.90 38.54 28.61 28.65 30.95 37.22 38.54 28.61 28.65 30.95 37.22 214.85 196.74 231.65 128.61 27.22 214.85 196.74 231.65 28.66 36.59 38.73 325.31 128.61 36.09 36.09 43.03 -3.47 3.05 -8.72 -19.10 -43.03 -3.47 3.05 -8.72 -19.10 -43.03 -3.47 3.05 -8.72 -19.10 -43.03 -3.47 3.05 -8.72 -19.10 59,168 83.321 160.431 86.365 86.365 16.47 47,174 72,350 172,102 86.365 16.47 11 47,174 72,350 1,750,956 1,748 1,348 1,385 407,168 658,799 1,748 1,448 1,348 1,448 1,444 <	Labor total	129.04	75.25	51,13	51.88		58.65	58.77	61.07
40.05 36.97 56.60 49.10 49.99 21.485 29.61 28.05 30.95 37.22 21.485 196.74 231.65 218.67 223.58 122.41 118.52 128.61 129.65 360.57 345.32 321.81 369.25 366.09 360.57 360.57 388.77 325.91 30.5 -8.72 -19.10 -19.10 -43.03 -3.47 3.05 -8.72 -19.10 -19.10 59,168 83,321 160,431 86,365 86,647 11 47,174 72,350 172,102 86,365 86,647 11 47,174 72,350 17,273,297 693,527 675,772 86 407,168 658,799 1,750,956 948,187 932,864 1,28 551,223 876,408 1,750,956 948,187 1,444 1,343 1,448 1,345 551,223 876,408 1,750,956 948,187 946,9 976	Value of feed fed	455.03	240.80	183.74	187.27		205.60	200.90	190.00
28.54 29.01 28.05 30.95 37.22 214.85 196.74 231.65 129.45 126.14 345.32 118.52 128.61 129.45 126.14 345.32 321.81 369.25 360.57 360.57 388.77 325.91 367.00 366.09 380.57 47,174 72,350 172,102 86,365 86,647 1 21,035 33,948 83,750 41,912 48,688 16,620 27,953 61,347 32,183 204 407,168 658,799 1,273,297 693,527 675,772 551,223 876,408 1,750,956 948,187 932,864 1,395 45,6 43,4 4,98 1,488 1,448 1,395 54 43,4 4,98 1,488 1,448 1,395 64 43,4 4,98 1,488 1,448 1,395 64 43,4 40.0 0.0 0.0 0.0 60 0.0 0.0 0.0 0.0 0.0 40 40 35 34,0 47,5 40 40 35 34,0 36,1 40 40	Capital purchases	89.31	40.05	36.97	56.60		49.10	49.99	35.80
214.85 196.74 231.65 218.67 223.58 122.41 118.52 128.61 360.95 360.57 345.32 321.81 369.25 360.95 360.57 388.77 325.91 367.00 -8.72 -19.10 -43.03 -3.47 3.05 -8.72 -19.10 59,168 83,321 160,431 86,365 86,647 11 47,174 72,350 172,102 86,365 86,647 11 21,035 33,948 83,750 41,912 48,688 16,20 27,953 61,347 32,183 39,490 61 83,750 41,912 48,688 16,20 27,953 61,347 39,490 61 83,750 41,912 48,688 16,20 27,953 61,347 39,481,87 407,168 658,799 1,273,297 693,527 51,223 876,408 1,750,956 1,448 1,395 44 1,343 1,488 79 46.9 51,23 34.9 34.2 36.1 13,3 11.6 89 40.0 30.0 40 30 30 40.0 30.0 <td>Operator Interest paid</td> <td>43.74</td> <td>38.54</td> <td>29.61</td> <td>28.05</td> <td></td> <td>30.95</td> <td>37.22</td> <td>25.30</td>	Operator Interest paid	43.74	38.54	29.61	28.05		30.95	37.22	25.30
122.41 118.52 128.61 129.45 126.14 345.32 321.81 369.25 366.09 360.57 386.72 325.91 360.25 360.05 360.57 43.03 -3.47 3.05 -8.72 -19.10 59.168 83,321 160.431 86,365 86,647 11 21,035 33,948 83,750 41,912 48,688 46,647 11 21,035 27,953 61,347 32,183 39,490 86,647 11 407,168 658,799 1,273,297 693,557 675,772 8 407,168 658,799 1,273,297 693,557 675,772 8 551,223 876,408 1,780,956 948,187 932,864 1,235 444 1,343 1,488 72 693,557 675,772 8 51,223 876,408 1,750,956 948,187 932,864 1,235 45,6 43,9 34,9 34,5 34,5	Crop returns	238.73	214.85	196.74	231.65		218.67	223.58	210.49
345.32 321.81 369.25 356.69 360.57 388.77 325.91 367.00 366.09 380.32 -43.03 -3.47 3.05 -8.72 -19.10 59,168 83,321 160,431 84,164 82,064 11 47,174 72,350 172,102 86,365 86,477 1 21,035 33,948 83,750 41,912 48,688 1 16,620 27,953 61,347 32,183 39,490 39,490 407,168 658,799 1,273,297 693,527 675,772 8 407,168 1,750,956 948,187 932,864 1,23 41,444 1,343 1,488 1,448 1,395 44 58 79 46,9 8.5 45,6 43,4 49,0 8.9 46,9 47.5 47,5 40 36,0 40,0 40,0 40,0 49 40 36,0 40,0 40,0	Livestock return above feed	261.40	122.41	118.52	128.61		129.45	126.14	111.06
388.77 325.91 366.09 380.32 -43.03 -3.47 3.05 -8.72 -19.10 -43.03 -3.47 3.05 -8.72 -19.10 47,174 72,350 172,102 86,365 86,647 11 21,035 33,948 83,750 41,912 48,688 46,647 11 16,620 27,953 61,347 32 39,490 32,483 48,688 1,273,297 693,527 675,772 8 407,168 658,799 1,273,297 693,527 675,772 8 551,223 876,408 1,750,956 948,187 932,864 1,23 1,444 1,343 1,488 1,488 1,488 1,488 1,395 45.6 43.4 1,488 1,488 1,488 1,488 1,488 45.6 43.4 43.4 49.0 64.0 46.9 47.5 31.3 47.5 33.3 33.3 34.1 33.3 4	Value of farm production	521.73	345.32	321.81	369.25		356.69	360.57	334.30
-43.03 -3.47 3.05 -8.72 -19.10 59,168 83,321 160,431 94,164 82,064 11 47,174 72,350 172,102 86,365 86,647 11 21,035 33,948 83,750 41,912 48,688 12 16,620 27,953 61,347 32 39,490 <td< td=""><td>lotal nonfeed cost</td><td>565.14</td><td>388.77</td><td>325.91</td><td>367.00</td><td></td><td>366.09</td><td>380.32</td><td>364.50</td></td<>	lotal nonfeed cost	565.14	388.77	325.91	367.00		366.09	380.32	364.50
59,168 83,321 160,431 94,164 82,064 1 47,174 72,350 172,102 86,365 86,647 1 21,035 33,948 83,750 41,912 48,688 16,620 27,953 61,347 39 204 407,168 658,799 1,273,297 693,527 675,772 8 551,223 876,408 1,750,956 948,187 932,864 1,2 407,168 1,343 1,488 1,448 1,395 47.5 84 1,343 1,488 1,448 1,395 47.5 85 43,4 49,0 46.9 47.5 83 81,2 11,6 8,9 10,6 8.5 81,3 11,6 8,9 10,6 8.5 82,9 40 40,0 40,0 40,0 83,9 40 8,9 40,0 40,0 84,0 35 41 36 33 84,0 36 36 31 31 89 40 40,0	Management returns	-42.70	-43.03	-3.47	3.05		-8.72	-19.10	-28.90
29,168 83,321 160,431 86,365 82,064 1 21,035 33,948 83,750 41,912 48,688 16,620 27,953 61,347 32,183 39,490 61 39 1,273,297 693,527 675,772 8 407,168 658,799 1,750,956 948,187 932,864 1,294 551,223 876,408 1,750,956 948,187 932,864 1,395 1,444 1,343 1,488 1,448 1,395 47.5 64 58 43.4 49.0 46.9 47.5 83 47.5 83 47.5 83 91 88 99 40.0 60.0 60.0 40 3.9 4.0 4.5 4.5 40 3.9 4.0 4.5 4.5 40 4.0 4.0 6.0 6.0 4.9 6.0 6.0 6.0 6.0 4.9 6.0 6.0 6.0 6.0 4.9 8.5 6.0 6.0 6.0 4.0 8.5 7.0 6.0 6.0 4.0 8.5 7.0 6.0 6.0 <td< td=""><td>Farm investment</td><td>0 0 1</td><td>0</td><td>0</td><td></td><td></td><td>(</td><td></td><td></td></td<>	Farm investment	0 0 1	0	0			(
21,035 33,948 83,750 41,912 48,688 16,620 27,953 61,347 39,490 39,490 407,168 658,799 1,273,297 693,527 675,772 8 407,168 658,799 1,273,297 693,527 675,772 8 551,223 876,408 1,750,956 948,187 932,864 1,2 1,444 1,343 1,488 1,448 1,395 45.6 43.4 49.0 46.9 47.5 31.2 34.9 35.3 34.2 36.1 13.3 11.6 8.9 47.5 4.9 4.0 4.0 4.5 4.9 4.0 4.0 4.5 4.9 4.0 4.5 4.5 2.9 4.0 4.0 4.5 4.0 4.0 4.5 4.5 4.0 4.0 4.0 4.5 4.0 4.0 4.5 4.5 4.0 4.0 4.5 4.5 4.0 4.0 4.5 4.5 4.0 4.0 4.0 4.5 4.0 4.0 4.0 4.5 4.0 4.0 4.5 4.5	Livestock Inventory	62,615	59,168	83,321	160,431		94,164	82,064	136,882
21,035 33,948 83,750 41,912 48,688 16,620 27,953 61,347 32,183 39,490 61 39 32 32 39,490 407,168 658,799 1,273,297 693,527 675,772 8 551,223 876,408 1,750,956 948,187 932,864 1,235 1,444 1,343 1,750,956 948,187 932,864 1,235 45.6 43.4 1,343 1,488 1,448 1,395 45.6 43.4 49.0 46.9 47.5 83 31.2 34.9 35.3 34.2 36.1 47.5 31.3 41.6 8.9 40.0 40.0 40.0 40.0 4.9 4.0 3.9 4.0 4.0 4.5 4.5 4.5 2.9 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40	Remaining cost in	280,82	t/-'/t	066,27	172,102		000,000	00,047	502,151
16,620 27,953 61,347 32,183 39,490 61 39 32 32 39,490 407,168 658,799 1,273,297 693,527 675,772 8 551,223 876,408 1,750,956 948,187 932,864 1,235 1,444 1,343 1,488 1,448 1,395 1,395 45.6 43.4 49.0 46.9 47.5 83 45.6 43.4 49.0 6.9 47.5 85.5 31.2 34.9 35.3 34.2 36.1 85.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.9 4.0 3.9 4.0 4.5 4.5 4.5 2.9 4.0 3.3 3.3 2.1 3.2 3.3 40 35 41 39 39 38 38 40 35 41 39 39 32 31 33 <td>machinery and auto</td> <td>21,568</td> <td>21,035</td> <td>33,948</td> <td>83,750</td> <td></td> <td>41.912</td> <td>48.688</td> <td>44.378</td>	machinery and auto	21,568	21,035	33,948	83,750		41.912	48.688	44.378
61 39 32 39 204 407,168 658,799 1,273,297 693,527 693,527 677,722 8 551,223 876,408 1,750,956 948,187 932,864 1,235 1,448 1,395 1,235	buildings and fence	17,390	16,620	27,953	61,347		32,183	39,490	29,222
407,10x 655,79 407,70 88 551,223 876,408 1,750,956 948,187 932,864 1,295 1,444 1,343 1,488 1,448 1,395 1,395 45,6 43.4 49.0 46.9 47.5 83 45,6 43.4 49.0 46.9 47.5 83 31.2 34.9 35.3 34.2 36.1 85 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.9 4.0 3.9 4.0 4.5 2.1 2.1 2.9 4.1 3.3 2.1 3.3 2.1 3.3 40 35 41 39 38 38 38 40 35 31 31 32 31 32	Soll fertility	0 0	61	39	32		900	204	0
551,223 876,408 1,750,956 948,187 932,864 1,23 1,444 1,343 1,488 1,448 1,395 1,395 64 58 79 72 83 45.6 43.4 49.0 46.9 47.5 83 31.2 34.9 35.3 34.2 36.1 85 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Total farm in content	210,030	407,100	620,050	1,273,297		120,580	2///2/9	170'688
1,444 1,343 1,488 1,448 1,395 64 58 79 72 83 45.6 43.4 49.0 46.9 47.5 31.2 34.9 35.3 34.2 36.1 13.3 11.6 8.9 47.5 13.3 11.6 8.5 0.0 4.9 4.0 3.9 4.0 4.9 4.0 4.0 4.5 2.9 4.0 4.5 4.5 40 35 41 38 31 32 31 32 31 32	Total languages and Total	349,924	527,155	8/6,408	1,750,956		948,187	932,864	1,230,756
45.6 43.4 49.0 46.9 47.5 83.1 31.2 34.9 35.3 34.2 36.1 36.1 33.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Machinery invoct per acre	18/1	1,444	ار 1,443	1,488		1,448	1,395	1,363
45.6 43.4 49.0 46.9 47.5 31.2 34.9 35.3 34.2 36.1 13.3 11.6 8.9 10.6 85.5 0.0 0.0 0.0 0.0 0.0 4.9 4.0 4.0 4.5 2.9 4.0 4.0 4.5 91 88 99 41 38 40 35 41 38 38 31 30 32 31 32	Dercent tillable land in	171	40	00	6		7,7	SS SS	26
31.2 34.9 35.3 34.2 36.1 36.1 36.1 36.1 36.1 36.1 36.1 36.1	Corn and corn silage	27.00	45.6	43.4	49.0		76.0	77.5	70.3
13.3 11.6 8.9 10.6 8.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	Sovbeans	28.8	31.5	34.0			34.0	36.1	1 K
0.0 0.0 0.0 0.0 0.0 4.0 5.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	Wheat	17.	13,3	11.6	0 0		10.6	. KO) o
4.9 4.0 3.9 4.5 4.5 2.9 4.2 2.9 4.5 2.1 91 88 99 94 95 40 35 41 39 38 31 30 32 32 dollar.	Other small grain	0.0	0.0	0.0	0.0		0.0	0.0	0.0
2.9 4.2 2.9 3.3 2.1 8 91 88 99 94 95 40 35 41 39 38 dollar.	Diverted acres	2.0	6.4	4.0	9.9		4.0	4.5	3.5
91 88 99 94 95 40 35 41 39 38 dollar.	All hay and pasture	<u>ත</u> ල	2.9	4.2	2.9		B.S.	2.1	5.5
91 85 94 95 95 94 95 95 95 95 95 95 95 95 95 95 95 95 95	Crop yields, bushels per acre	c	č	C	C		(i c	(
31 30 32 31 32 dollar.	Sovbeans	3 6	- 0 - 0	9 QQ	9 4		9 00	വ വ	200
dollar.	Wheat	36	31	300	32		3.03	3 co	90 90 90
	Note: Variations in totals due to rour	nding to the near							

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Area of ctate	5 (2)	Northern Illinois	Illinois			Southern Illinois	sionill	
Number of cows in herd	10-39	40-79	Over 79 35	All Farms	10-39	40-79	Over 79 47	All Farms 85
Total acres in farm	278	345	547	384	358	312	644 506	501
Soil rating on tillable land	75	72	75	73	62	09	20	09
Total months labor Months of hired labor	15. 2.3 4. 6.	20.2 5.2.2	32.2 11.6	22.4 6.3	23.4 8.2	22.1 6.6	36.2 16.8	30.0 12.4
Beef produced, hundredweight	338	460	702	501	291	349	769	575
Pork produced, includedweight Dairy cows, number	33	132	105	65	29	94 60	115	121
Dollar returns per farm	(((1	0		1	0	l d	1	
Crop returns Livestock returns above feed	58,760 30,042	76,460 66,042	123,139	85,166 75,214	64,363 60,083	65,035 54,600	137,511	105,039 93,558
Custom work	132	831	717	709	208	225	446	387
Value of farm production	91,346	144 695	554 992	2,609 163,698	135,076	127.363	979 193	212,149
Dollar costs per farm		1,000	100,100	0,00	2	20,121	2	212,100
Crop expenses	15,236	20,194	34,157	22,844	18,374	17,646	40,510	30,365
Power and equipment	23,967	35,335	61,514	40,022	29,983	34,803	66,932	52,058
Building and fence	4,826	8,702	20,401	10,960	3,494	5,401	9,364	7,390
Livestock services and supplies	8 470	13,819	27,619	16.377	9,057	10,001	19,434	15 413
Taxes	4,252	5,699	9,417	6,387	2,649	2,778	5,258	4,136
Insurance and miscellaneous	2,907	3,853	7,914	4,691	4,581	4,351	7,014	5,848
Interest on nonland capital	12,481	20,441	39,125	23,807	13,547	17,381	35,334	26,902
Tatal named or net rent	18,283	21,453	34,258	24,070	18,094	15,787	30,602	24,223
Canital account adjustment	112,805	138,606	280,087	161,448	142,230	138,510	200,200	209,543
Management returns	(17,858)	(13,360)	(25,079)	(16.762)	(7.070)	(10.401)	13.505	3.170
Farm production per \$1.00								
of nonfeed costs Farm production per man	0.81	0.91 86.120	0.91	0.90	0.95	0.92	1.05	1.01
Financial summary		00,150	6,4	2	- '.	0.8,60	32,301	25.
Cash operating income	128,603	188,156	339,661	216,126	159,759	173,643	346,262	267,621
Inventory change Accts receiveble (net change)	(3,035)	(6,662)	(15,561)	(8,288)	(470)	(388)	1,835	832
Farm products used	997	1,664	2.749	1.832	1.394	1.149	2.244	1.780
Less purchased feed	20,799	27,216	56,201	33,244	24,169	30,798	63,900	48,399
Less purchased livestock	13,705	9,818	13,600	11,247	897	15,572	6,400	8,947
Adjusted gross farm income	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)	851 (470)	429	3,208	1,148	//o'L	(638) (482)	503	1/4 278
Farm – produced inputs	453	938	1,680	1,049	629	758	1,144	961
Total operating expense	55,156	80,230	148,369	93,042	77,687	68,662	147,318	113,110
Income before depreciation	36,630	65,396	108,278	71,693	57,850	59,339	132,483	99,626
Capital account adjustment	3,040 0,050	10,099 551	37,18 606	18,686	298 080	15,329	988,62	20,834
Net farm income *	31,644	49 849	77 659	53 993	46 341	44 756	107 056	79.372
(operator's share) *	10,152	22,122	38,615	24,420	28,978	24,461	61,202	45,255
Labor & mgt. income per operator Rate earned on investment. %	(327)	4,754	3,009	3,647	8,747	8,798	23,419	16,877
Note: Variations in totals due to rounding to the neares	ing to the near	t dolla	ern Illinois includ	es both northe	<u>ra</u>	Illinois.		

Note: Variations in totals due to rounding to the nearest dollar. Northern Illinois includes both northern and central Illinois. * Interest expense deducted from operator's share only.

Area of state		Northern Illinois	Northern Illinois Southern Illino			Southern Illinois	Illinois	
Number of cows in herd Number of farms	10-39	40–79 92	Over 79 35	All Farms	10-39	40–79 29	Over 79 47	All Farms 85
Some costs and returns per tillable acre								
Soil fertility	29.10	31.07	33.06	31.57	30.59	30.97	32.65	32.15
Pesticides	20.93	19.98	21.72	20.67 17.85	13.91	16.87	19.26	18.37
Seed and Other Crop	00.7	0.01	10.71	00.71	20.01	10.1	20.02	10.01
Crop total	67.55	69.12	72.35	60.02	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 donocionion	6.25	7.55	10.95	8.60	4.26	4.93	4.79	4.78
building depreciation	12.70	10.30	10.72	20.03	02.00	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, nired	16.43	20.68	35.83	28.87	65.32	28.52	40.05	39.49
Labor total	99.51	99.64	98.02	20.66	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	06.9
Farm investment	(1			
Livestock inventory Grain inventory	50,881	83,250	158,086 91 990	96,665	56,947 47,219	83,599	166,878	126,826 63 127
Remaining cost in))))	
machinery and auto.	14,673	32,847	65,958	38,258	23,877	32,509	67,574	50,984
soil fertility	24,400	29,460 788	000'0'	40,720	7,044	0,0,6	54,007	20,403
Value of land (current)	406,296	476,732	761,280	534,898	402,087	350,824	980'089	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	92	112	140	117	22	116	113	111
Percent tillable land in	r G	a V	7	0	900	C	0	0
Sovbeans	12.3	7.6	13.6	10.1	0.000	17.3	0.00 0.00 0.00	40.0
Wheat	0.	0.2	0.7	0.5	11.1	12.2	13.5	13.0
Other small grain	5.4	9.0	0.1	e.e.	0.0	0.0	0.0	0.0
Diverted acres	3.6	4.0	က္သ	3.8	4.5	က္	က (လ	3.7
All hay and pasture Crop vields bushels per acre	20.8	58.9	24.1	26.5	17.4	7.92	0.71	r.61
Corn	112	108	105	107	85	26	91	92
Soybeans	42	42	68	4	36	36	38	38
Wheat	31	35	34	33	32	28	29	29

Note: Variations in totals due to rounding to the nearest dollar. Northern Illinois includes both northern and central Illinois.

Area of state	מומ וווע וווע	A I I Call Call I I I I I	Northern Illinois	וסוווווא סו בשמ		Months of Labo	fLabor	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	59	96		13	7	25
Total acres in farm	280	525	1,208	693		890	1,038	582
Acres of tillable land	243	459	920	280		539	915	437
Soil rating on tillable land	77	92	8 (78		77	92	51
lotal months labor	13.1	18.7	28.6 12.3	20.8 8.6		23.6	35.3	20.7
Beef produced bundredweight	1 138	2.00	4 216	0.0 584		9.8	7 000	101
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	029	2,625	2,600	2,309		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 farm								
Crop expenses	17,968	39,242	84,003	49,440		44,162	77,653	24,394
Power and equipment	21,673	41,282	76,142	48,749		48,450	75,856	28,983
Building and fence	6,856	11,527	17,729	12,670		12,531	20,121	4,105
Labor	18,578	27,929	43,031	31,030		35,050	50,748	27,819
Livestock services and supplies	2,240	5,787	11,413	6,932		6,419	15,115	4,346
Taxes	5,261	8,923	19,432	11,525		9,582	17,747	3,531
Insurance and miscellaneous	3,471	6,058	13,618	7,938		6,919	14,223	3,932
Interest on nonland capital	16,180	32,675	70,449	43,133		41,098	75,869	19,248
Land charge or net rent	18,931	36,698	83,531	48,069		45,053	70,885	19,404
Total nonfeed cost	111,158	213,121	419,348	259,487		249,263	418,218	135,761
Capital account adjustment	1,471	272	4,968	1,878		115	0	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		920'96	120,210	58,638
Financial summary								
Cash operating income	191,309	486,019	971,011	586,479		497,298	935,958	188,938
Inventory change	(11,264)	(37,391)	(45,583)	(35,783)		(19,613)	(33,541)	(11,671)
Accts, receivable (net change)	(526)	(1,588)	(1,813)	(1,490)		(1,582)	(3,220)	(63)
Farm products used	533	1,107	1,791	1,224		1,000	1,914	780
Less purchased reed	10,303	30,343	527 B72	39,574		40,687	69,643	23,317
Adjusted gross farm income	76,018	158.05E	307,026	106 388		180 318	353 180	100,001
Control of the contro	2 0,0	00,000	1000	130,000		010,011	000,100	100,00
Cash operating expense Prepaid expense (—if increased)	44,217	90,049	193,673 8 150	116,479		113,280	193,583	67,808
Acots payable (+if increased)	7	, 5 - rc	, 5 8 8	20,10		103	0, 0	(400) (986)
Farm - produced inputs	0	9 2	217	75		6	52	202)
Total operating expense	45.151	99.032	204.135	122.363		113.757	201 289	66.574
Income before depreciation	30,867	59,223	122,891	74,025		75,561	151,900	34,421
Less depreciation	13,227	22,260	38,039	25,615		29,734	38,418	9,589
Capital account adjustment	1,471	272	4,968	1,878		115	0	3,283
Net farm income *	19,112	37,235	89,821	50,289		45,942	113,482	28,115
(operator's share) *	960'9	(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)
Hate 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	ding to the near	est dollar. North	dollar. Northern Illinois includes both northern and	es both norther	n and central Illinois	llinois.		

Note: Variations in totals due to rounding to the nearest dollar. Northern Illinois includes both northern and central Illinois.

* Interest expense deducted from operator's share only.

in size (total acres) 160–339 340–799 Over 799 All Fair rof farms 15 52 29 22 29 22 20 34 20 34 20 34 20 34 20 34 20 34 20 34 20 34 35 36 36 36 36 36 36 36 36 36 36 36 36 36	Area of state		6	Northern Illinois Months of La			Months	Months of Labor	Southern
15 52 29 96 113 115 11	Range in size (total acres)	180-339	340-799	Over 799	All Farms	Your Farm	21-27	31–39	Illinois
96.28 39.61 35.46 36.86 36.77 36.96 20.34 29.22 27.89 27.79 35.96 20.34 29.22 27.89 24.37 20.06 390 9.35 77.9 8.77 20.06 2305 23.40 1.24 23.76 23.76 11.47 14.08 1.380 23.47 11.48 4.38 2305 23.0 2.84 86.64 8.23 8.23 8.23 4.46 3.27 2.30 2.86 5.30 2.37 8.23 4.46 3.27 2.30 2.86 5.30 8.23 14.48 4.46 3.27 2.30 2.86 5.30 2.86 5.30 4.46 3.27 3.44 1.246 3.55 3.47 1.48 4.56 6.64 4.36 5.35 2.36 2.30 2.86 5.30 5.44 8.36 2.34 1.246 3.27 3.47 <th>Number of farms</th> <th>15</th> <th>52</th> <th>59</th> <th>96</th> <th></th> <th>13</th> <th>7</th> <th>25</th>	Number of farms	15	52	59	96		13	7	25
17.28 29.46 29.86 29.86 29.46 29.8	Some costs and returns per tillable ac								
1728 1728 1248 2192 2158 1918	Soli Tertility	36.28	38.61	35.46	36.86		37.79	35.96	28.97
these 29.0	Seed and other crop	17.28	19.38	23.22	20.53		19.87	20.06	12.59
Property	Crop total	73.90	85.48	86.60	85.28		81.99	84.89	55.86
pipiles 2305 2491 2230 7347 11144 436 1106 1106 1206 1308 11147 11106 1308 11144 436 11144 11146 1146 11	Light vehicle and utilities	06.6	9.35	7.73	8.57		8.86	8,22	8.47
nemt total 89.47 14.75 7.43 11.44 4.36 14.48	Machinery repairs, supplies	23.05	24.91	22.30	23.47		21.24	23.78	23.17
on 3147 14,08 19,85 18,80 16,80 on 3267 14,08 19,85 18,80 16,80 16,48 nent total 89,14 39,92 76,49 94,09 96,96 99,95 92,09 nent total 89,14 327 5,30 6,89 6,89 99,95 2,82 62,09 89,95 99,1 folia 6,68 6,33 6,34 12,48 6,89 20,26 2,82 2,83 3,84 3,8	Machinery hire	12.05	9.89	4.75	7.43		11.44	4.36	3.13
on 3267 3169 2987 30.83 35.54 32.09 nemt total 4.48 3.27 76.49 64.09 6.52 2.78 32.09 nemt total 4.48 3.27 76.49 6.40 6.52 2.78 2.78 3.20 17.02 15.49 6.44 6.52 6.44 6.28 6.44 6.28 2.20 28.20 17.02 15.24 18.28 23.91 23.91 23.92 22.20 2.20 28.20 2.54 18.50 23.63 23.64 22.83 22.20 22.00 22.00 3.74 18.28 2.436 2.35.03 2.35.03 2.244.08 83.17 2.20 2.244.08 83.17 2.20 <td>Fuel and oil</td> <td>11.47</td> <td>14.08</td> <td>13.85</td> <td>13.80</td> <td></td> <td>12.88</td> <td>14.48</td> <td>13.85</td>	Fuel and oil	11.47	14.08	13.85	13.80		12.88	14.48	13.85
nent total 89,14 89,92 78,49 84,09 89,95 82,93 1,02 6,53 6,54 6,56 6,56 6,56 27,8 82,93 1,02 15,49 9,34 12,48 15,19 9,27 15,19 9,27 2,82 25,21 18,26 6,54 6,55 22,82 22,82 22,82 2,82 25,13 18,45 20,45 23,91 25,94 23,45 34,72 2,70 26,53 27,75 29,48 53,15 26,50 24,67 55,46 2,04 20,34 20,46 20,48 20,44 22,44 22,44 22,56 16,71 30,50 34,77 39,39 45,59 22,24 313,29 25,59 16,60 31,26 34,77 33,47 33,47 33,47 33,87 42,59 22,24 33,13 42,59 42,59 42,59 42,59 42,59 42,59 42,59 42,59 42,59	Machinery depreciation	32.67	31.69	29.87	30.83	## The state of th	35.54	32.09	17.75
6 6 6 6 6 3 2 7 8 2 8 2 8 2 8 2 8 2 8 2 8 2 8 2 8 2	Power and equipment total	89.14	89.92	78.49	84.09		89.95	82.93	66.36
15.69	Drying and storage	4.48	3.27	2.30	2.86		2.78	2.82	0.86
17.02 15.49 9.34 12.48 12.48 15.19 9.91 12.66 42.36 42.36 23.11 18.26 23.26	Building repair	69.9	6.35	6.64	6.52		5.30	9.27	4.34
28.20 25.11 18.28 21.86 22.00 22.00 3.74 42.88 23.91 53.53 65.07 22.00 22.00 7.641 60.83 24.36 23.94 53.53 65.07 25.46 20.47 7.641 60.83 24.36 20.29.48 53.53 65.07 25.40 25.40 7.047 20.38 57.73 54.44 24.36 229.48 33.15 25.40 25.20 25.20 25.20 25.20 25.20 25.20 25.20 25.20 25.20	Building depreciation	17.02	15.49	9.34	12.48		15.19	9.91	4.20
1,000 1,00	Building total	28.20	25.11	18.28	21.86		23.26	22.00	9.40
Total 1845 20.45 18.50 28.65 20.76 Total 60.83 217.04 229.48 25.98 20.97 243.03 277.75 295.35 265.07 25.98 20.97 243.03 277.75 295.35 265.07 245.08 20.97 243.03 277.75 295.35 295.25 20.97 243.23 245.67 293.35 292.24 313.29 20.97 24.71 33.713 338.78 292.24 313.29 20.97 24.71 33.713 338.78 251.79 457.21 20.97 24.71 33.713 338.78 252.79 20.97 20.05 20.05 20.05 20.05 20.97 20.05 20.05 20.05 20.97 20.05 20.05 20.05 20.97 20.05 20.05 20.05 20.97 20.05 20.05 20.98 20.05	Labor, unpaid	72.68	42.38	23.91	35.03		36.43	34.72	47.97
76.41 60.83 44.36 53.53 65.07 55.48 75.04 50.97 55.48 75.09 75.04 50.97 50.34 8 57.75 54.18 75.94 8 53.50 75.50 75.09 75.03 57.75 54.14 83.11 25.96 75.09 75.03 75	Labor, hired	3.74	18.45	20.45	18.50		28.65	20.76	15.73
210.47 247.03 217.04 229.48 239.50 244.08 33.96 54.64 39.39 45.29 48 56.38 57.75 50.38 57.75 50.38 57.75 50.38 57.75 50.38 57.75 50.38 57.75 50.39 55.75 50.39 55.75 50.39 55.75 50.39 55.75 50.39 55.75 50.39 55.75 50.39 55.75 50.39 55.75 50.30 3.32 598.29 598.29 59.24 313.29 55.70 50.50 5	Labor total	76.41	60.83	44.36	53.53		65.07	55,48	63.70
Feed 16.71 33.96 57.75 54.14 83.11 55.96 83.11 55.96 10.00 efeed 16.71 31.60 33.35 298.29 29.24 313.29 16.71 31.60 33.35 31.51 55.79 39.89 29.20 16.71 31.60 33.35 31.51 55.79 39.89 39.71 39.88 39.87 39.87 39.87 39.87 39.89 17.10 82.123 206.184 404.084 246.576 -105.61 -111.08 -71.09 18.20 19.51 59.968 39.70 46.967 16.00 1.951 2.22.793 4986.89 11.350 11.351 6.8 14.248 39.689 94.016 52.125 45.75 116.08 18.551 116.08 14.248 39.689 94.016 52.125 45.70 110.298 18.250 14.248 39.689 94.016 52.125 58.258 89.437 14.248 39.689 94.016 52.125 14.248 39.689 94.016 52.125 15.292 1.009.204 1.353.688 14.206.84 81.562 1.856.257 14.292 2.160 2.213 14.53 6.8 4 6.5 5 6.6 6 6 6 6 6 7 1.55 14.53 7.3 14.53 7.3 14.53 7.3 15.5 16.1 17.3 15.5 16.1 17.3 17.3 18.4 18.4 18.4 18.4 18.4 18.4 18.4 18.4 18.4 18.5	Value of feed fed	210.47	247.03	217.04	229.48		239.50	244.08	158.37
18.39.6 54.67 39.39 45.59 42.58 52.53 287.35 2285.35 2286.35 238.29 287.31 31.50 338.78 287.13 31.60 338.78 287.19 464.22 492.30 47.62 288.29 47.62 492.79 457.21 282.123 206,184 404,084 246,576 282.123 206,184 404,084 246,576 282.123 206,184 404,084 246,576 282.123 206,184 404,084 246,576 39.689 94,016 52,125 39.689 94,016 52,125 39.689 94,016 52,125 39.689 94,016 52,125 39.681 39.682 39.682 39.401 420,684 815,502 1,856,257 1,951 2,838 5,837 420,684 815,502 1,856,257 1,951 2,838 2,839 1,575,231 420,684 815,502 2,146 2,292 2,160 2,213 1,951 1,531 2,146 2,292 2,160 2,213 1,13 15,5 1,0	Capital purchases	50.97	50.38	57.75	54.14		83.11	25.96	24.33
refed 16.71 31.60 33.35 298.29 292.24 313.29 313.29 313.29 315.01 31.60 33.35 31.51 31.51 31.52 31.52 31.52 31.51 31.50 31.51 31.50 31.51 31.51 31.50 31.51 31.51 31.52 31.52 31.51 31.52 31.52 31.51 31.51 31.52 31.51 31.51 31.52 31.51 31.52 31.51 31.52 31.51 31.52 31.51 31.51 31.52 31.51 31.51 31.52 31.51 31.51 31.52 31.51 31.51 31.52 31.51 31.51 31.51 31.52 31.51 31.51 31.51 31.52 31.51	Operator interest paid	33.96	54.67	39.39	45.59		42.58	52.53	29.21
Feed 16.71 31.60 33.35 31.51 51.79 63.57 63.57 100	Crop returns	287.95	303.32	295.35	298.29		292.24	313.29	186.88
tion 312.66 344.71 337.13 338.78 338.78 351.49 386.12 457.19 464.22 432.30 447.62 465.76 -111.08 -71.09 82,123 206,184 404,064 246,576 -111.08 -71.09 14,248 39,689 94,016 52,125 58,258 89,437 45,108 182,501 14,248 39,689 94,016 52,125 58,258 89,437 45,108 182,501 14,248 39,689 94,016 52,125 58,258 89,437 45,108 182,501 1,951 2,630 67 1,856,257 1,086,206 1,001,169 1,575,231 1,099,966 1,203,168 2,609,204 1,533,658 1,633,712 2,375,365 86 1,13 15,5 2,17 184 185 16,1 18,5 16,1 11,4 17,3 17,4 17,5 17,4 17,3 18,4 130 1,00 0,7 1,0 0,8 0,9 0,9 0,9 0,9 0,2 0,2 0,4 17,3 1,4 1,4 1,4 1,4 1,4 1,4 1,4 1,4 1,4 1,4	Livestock return above feed	16.71	31.60	33.35	31.51		51.79	63.57	39.67
14.246	Value of farm production	312.66	344.71	337.13	338.78		351.49	386.12	231.26
## 128.48	Total nonfeed cost	457.19	464.22	432.30	447.62		462.79	457.21	310.87
82,123 206,184 404,064 246,576 116,088 182,501 1 18,035	Management returns	-138.48	-118.92	-90.05	-105.61		-111.08	-71.09	-72.09
82,123 206,184 404,064 246,576 116,088 182,501 1 18,035 116,088 182,501 1 18,035 116,088 182,501 1 18,035 116,088 182,501 1 196,431 118,035 116,088 182,501 1 116,088 182,501 1 116,088 182,501 1 116,088 182,501 1 116,088 182,501 1 10,034 1 1,035 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Farm investment								
14,248 39,689 94,016 52,125 58,258 89,437 41,306 102,301 103,000 102,301 103,000 102,301 103,000 102,301 103,000 102,301 103,000 102,000 102,301 103,000 102,0	Livestock inventory	82,123	206,184	404,064	246,576		222,793	486,889	122,901
14,248 39,689 94,016 52,125 58,258 89,437 750 46,967 750 10,298 41,306 1,951 2,630 67 1,856,257 1,068,206 1,001,169 1,575,231 2,287 30,966 1,203,168 2,609,204 1,533,658 1,453,712 2,375,365 64.5 68.4 65.2 2,160 2,213 1,633 2,287 1,681,713 15.5 21.7 18.4 11.3 15.5 21.7 18.4 18.5 17.3 9.8 6.7 17.3 9.8 6.7 17.3 9.8 6.7 1.0 0.8 0.9 0.2 1.2 1.3 1.5 1.5 1.5 1.0 0.8 0.9 0.9 0.2 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	Bemaining cost in	000,00	93,730	190,431	CSO,011		10,000	182,501	48,239
30,461 45,368 58,370 46,967 10,298 41,306 10,298 1,575,231 10,298 1,298	machinery and auto	14 248	30 680	94 016	TO 10E		78 058	80 437	21 805
t 599,966 1,203,168 2,609,204 1,533,658 1,001,169 1,575,231 4,5 1,068,206 1,203,168 2,609,204 1,533,658 1,633 2,287 1,663 2,213 1,633 2,287 1,68 2,213 1,633 2,287 1,68 2,213 1,633 2,287 1,68 2,146 2,292 2,160 2,213 1,68 3 1,633 2,287 1,68 3 1,633 2,287 1,68 3 1,633 2,287 1,68 3 1,633 2,287 1,68 3 1,633 2,287 1,68 3 1,633 2,287 1,68 3 1,63 3 1,63 3 1,63 3 1,63 3 1,63 3 1,63 3 1,63 3 1,63 3 1,63 3 1,63 3 1,63 3 1,63 3 1,63 3 1,63 3 1,63 3 1,63 3 1,63 3 1,63 3 1,63 4,6 4,6 4,6 4,6 4,6 4,6 4,6 4,6 4,6 4,6	buildings and fence	30,461	45,368	58,370	46.967		45,108	41,306	8.179
t 599,966 1,203,168 2,609,204 1,533,658 1,453,712 2,375,231 431 431 431 431 431 431 431 431 431 4	soil fertility	1,951	2,630	. 67	1,750		10,298	0	0
t 599,966 1,203,168 2,609,204 1,533,658 1,453,712 2,375,365 633 acre 2,146 2,292 2,160 2,213 1,633 2,287 1 till. acre 59 86 97 90 90 1,08 98 11.3 15.5 21.7 18.4 18.5 16.1 10 0.7 1.0 0.8 0.9 0.9 0.2 18.4 17.3 9.8 6.7 8.7 11.4 7.7 18.4 130 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5	Value of land (current)	420,684	815,502	1,856,257	1,068,206		1,001,169	1,575,231	431,191
acre 2,146 2,292 2,160 2,213 1,633 2,287 1 till.acre 59 86 97 90 108 98 108 98 108 98 108 98 113 15.5 21.7 18.4 113.1 15.5 21.7 18.4 113.1 15.5 16.1 10 0.8 0.9 0.2 0.9 0.2 0.9 0.2 0.9 0.9 0.2 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	Total farm investment	299,966	1,203,168	2,609,204	1,533,658		1,453,712	2,375,365	633,115
till. acre 59 86 97 90 108 98 108 98 118.3 15.5 21.7 18.4 18.5 16.1 16.1 10.0 0.2 1.0 0.8 0.9 0.2 0.9 0.2 0.9 0.2 0.9 0.2 0.9 0.2 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	Total investment per acre	2,146	2,292	2,160	2,213		1,633	2,287	1,087
64.5 68.4 65.2 66.6 64.1 66.7 11.3 15.5 21.7 18.4 65.7 16.1 16.1 16.1 16.1 16.1 16.1 16.1 16	Machinery invest, per till, acre	29	86	26	06		108	86	49
11.3 16.5 21.7 18.4 16.1 11.3 15.5 21.7 18.4 16.1 1.0 0.7 1.0 0.8 0.9 2.6 0.8 0.9 0.9 2.4 3.2 4.3 3.7 3.9 4.6 17.3 9.8 6.7 8.7 11.4 7.7 128 125 122 123 124 130 44 45 44 44 54 44 40 54	Percent tillable land in	(7	(C L	6		•	1	
1.3 15.3 21.7 16.1 16.1 16.1 16.1 16.1 16.1 16.1 1	Covhogae	0.4.0	00.4 10.4	00.5	9.09		64.1	66.7	36.2
2.6 0.8 0.8 0.9 2.4 3.2 4.3 3.7 3.9 8.7 11.4 7.7 11.2 12.8 12.5 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8	Wheat	5.0	0.0	101	0 0 0 0 0		n. σ 0 ⊂	- 00	7.00
3.2 4.3 3.7 3.9 4.6 17.3 9.8 6.7 8.7 11.4 7.7 128 125 122 123 124 130 54 45 43 44 40 54	Other small grain	2.6	8.0	80.0	0.0) ()	2.5	0.4
17.3 9.8 6.7 8.7 11.4 7.7 128 125 122 123 124 130 54 45 43 44 40 54 40 43 44 40 54	Diverted acres	3.2	4.3	3.7	3.9		<u>ග</u>	4.6	5.3
128 125 123 124 130 54 45 43 44 40 54 77 40 54	All hay and pasture	17.3	8.6	6.7	8.7		11.4	7.7	30.2
ans 128 125 123 124 130 125 125 125 127 124 130 124 13	Crop yields, bushels per acre		1						
alls 43 44 40 54 40 54 41 40 54 41 41 55 41	Corn	128	125	122	123		124	130	82
	Wheat	47	4 4	5 5 7 7	444		0 K	0.04 1.04	38

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

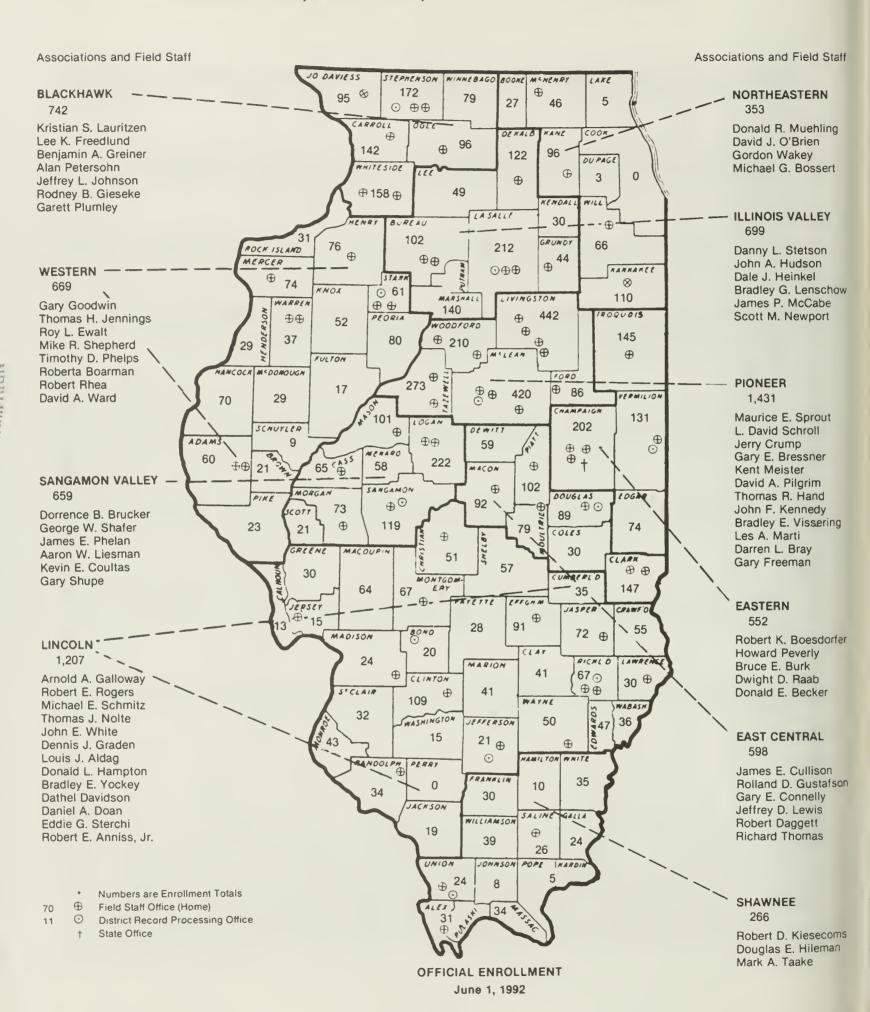
Area of state	Northern 56	56-85	Northern 86	36-100	Livestock	Southern	36-85	Livestock
Range in size (total acres) Number of farms	Grain <260 34	Grain >260 37	Grain <260 51	Grain >260 59	All Farms	Grain<260 27	Grain>260 25	All Farms
Total acres in farm	183	459	166	402	212	186	454	198
Acres of tillable land	163	430	157	377	183	150	38.5	114
Soil rating on tillable land	26.	78	76	0	2	<u> </u>	8	- 6
Total months labor	, rc	0.0	, rc	9 9	7.2	4 8	9 9	, rc
Months of hired labor	6.0	0.4	0.5	0.5	0.0	0.0	0.5	0.1
Beef produced, hundredweight	15	14	വ	10	263	Ŧ	16	169
Pork produced, hundredweight	4	4	0	0	1,093	10	81	223
Dairy cows, number	0	0	0	0	0	0	0	4
Dollar returns per farm								
Crop returns	38,260	94,237	42,774	107,186	50,837	27,800	77,652	18,641
Livestock returns above feed	1,045	(231)	(174)	326	10,900	308	1,424	5,683
Custom Work	261 785	1,206	330	1,055	242 242	126	1,668	1 251
Value of farm production	40.351	96.210	43.277	109.578	62 784	28 474	81 551	26 331
Dollar costs per farm								20,00
Crop expenses	12,632	31,522	12,089	28,265	13,917	9.049	23.272	6.049
Power and equipment	10,598	20,514	9,722	18,714	17,280	8,316	20,855	11.272
Building and fence	2,646	4,066	3,306	4,562	4,700	1,041	2,988	2,827
Labor	7,125	8,939	7,175	6,559	10,220	6,773	8,556	8,215
Livestock services and supplies	215	302	84	109	4,004	150	195	1,696
laxes	3,277	0,798	3,010 4,00	7,843	0,00 0,00 0,00 0,00 0,00 0,00 0,00 0,0	2007	3,436	818
Interest on nonland capital	4,829	8,103	4 199	20,48	10,001	2,400	6,030	6,067
Land charge or net rent	13,138	34,617	15,623	36,781	16,266	8,617	21,486	5,836
Total nonfeed cost	56,542	119,283	57,738	117,801	83,254	39,869	89,895	45,052
Capital account adjustment	63	1,273	1,401	3,210	1,413	100	2,212	150
Management returns	(16,127)	(21,799)	(13,059)	(5,013)	(19,057)	(11,295)	(6,131)	(18,570)
Farm production per \$1.00	0 71	C 80	0.75	000	75.0	0.74	600	c C
Farm production per man	94,779	181,622	100,743	200,107	104,640	71,737	163,429	54,291
Financial summary	:							
Cash operating income	43,421	117,241	47,831	111,841	115,012	30,906	82,817	42,088
Acote recognized (2010)	(1881)	(19,141)	(4,027) (428)	(9/1,1)	(2,792)	(1,264)	644	581,1 (25)
Farm products used	(102)	(960,1)	(455) 165	(790)	(000)	135	(1994)	(72)
Less purchased feed	246	429	146	11	28.039	1.111	1.753	11 683
Less purchased livestock	1,719	626	117	372	21,294	29	261	5,407
Adjusted gross farm income	40,351	96,211	43,277	109,578	62,784	28,474	81,551	26,331
Cash operating expense	26,320	57,145	26,294	55,747	40,968	18,216	45,478	19,835
Prepaid expense (-if increased)	175	1,433	ტ <u>(</u>	437	757	<u>†</u>	306	(279)
Accts, payable (+11 litereased) Farm - produced inputs	ဂ ထိ	08.0 08.0	(00) (35)	167	151	1180	944 2000	96 C
Total operating expense	26,567	58,857	26,322	56,444	41,899	18,348	46,950	19,714
Income before depreciation	13,784	37,353	16,955	53,134	20,885	10,126	34,601	6,618
Less depreciation	5,114	996'8	4,543	7,775	5,050	3,337	7,372	5,113
Capital account adjustment	63	1,273	1,401	3,210	1,413	100	2,212	150
Net farm income *	8,733	29,660	13,813	48,569	17,247	6,888	29,441	1,655
(operator's snare)	2,551	1,294	3,387	13,496	(978)	871	2,524	(6,345)
Labor & mgt. Income per operator Bate earned on investment %	(9,233)	(13,611)	(6,091)	3,415	(10,222)	(4,751)	1,449	(10,448)
ומנס כמו ווכם כון וווי כשל ווכן וני	10.0	71.7	7/	24.4				

* Interest expense deducted from operator's share only.

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

וס ואוסוומופ סו רשמסו			:					
Area of state	Northern 5	6-85	Northern 86–100	- 1 -	Livestock	Southern 36 – 85	36-85	Livestock
Number of farms	Grain < 200	Grain >260	Grain < 260	Grain >260 59	All rarms	Grain<260	Grain>260 25	All Farms
Some costs and returns per tillable acre	acre			and the state of t				
Soil fertility	34.97	33.98	36.03	35.15	38.42	22.64	29.97	28.59
Pesticides	25.29	22.83	23.60	22.57	50.69	23.14	16.09	12.85
Seed and other crop	17.13	16.45	17.29	17.31	16.85	14.41	14.33	11.54
Crop total	77.38	73.26	76.92	75.04	75.96	60.19	60.38	52.97
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	9.45	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	64.95	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	5.09	7.57	1.48	1.47	96.6
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 Bemaining cost in	22,965	56,814	27,355	64,347	30,278	12,842	37,447	10,059
machinery and auto	11.676	18 959	5 857	13 101	8 105	8 499	17 512	10 448
buildings and fence	10,631	10,824	10,639	12,059	23,133	3,902	5,598	11,120
soil fertility	0	0	0	15	820	142	20	0
value of land (current)	291,953	7/2/69/	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
lotal 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	25	45	91
Percent tillable land in	1	!	1					
Corn and corn sliage	5.45 5.00	47.5	49.5	49.1	48.5	83.18	36.9	42.4
Wheat	0.00	4.0.4	4. 	ე. ე. ←	ο. τ ο. α	0.44	00 4.00	ο σ - α
Other small grain	0	0 :0	3.0	- c	- e	<u>i</u> c	0.0	6 C
Diverted acres	ງ ຫຼ	. 4 i 60) o	0.00	i c	5.4	13.0	10.0
All hay and pasture	2.1	1.7	0.3	0.8	7.3	2.6	1.7	29.5
Crop yields, bushels per acre								
Corn	8 8 1	88	113	122	121	87	94	69
Soybeans	3/	E &	4 c ር	44 7	50	35	38	37
	20	3		30	2) V	5	40

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

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