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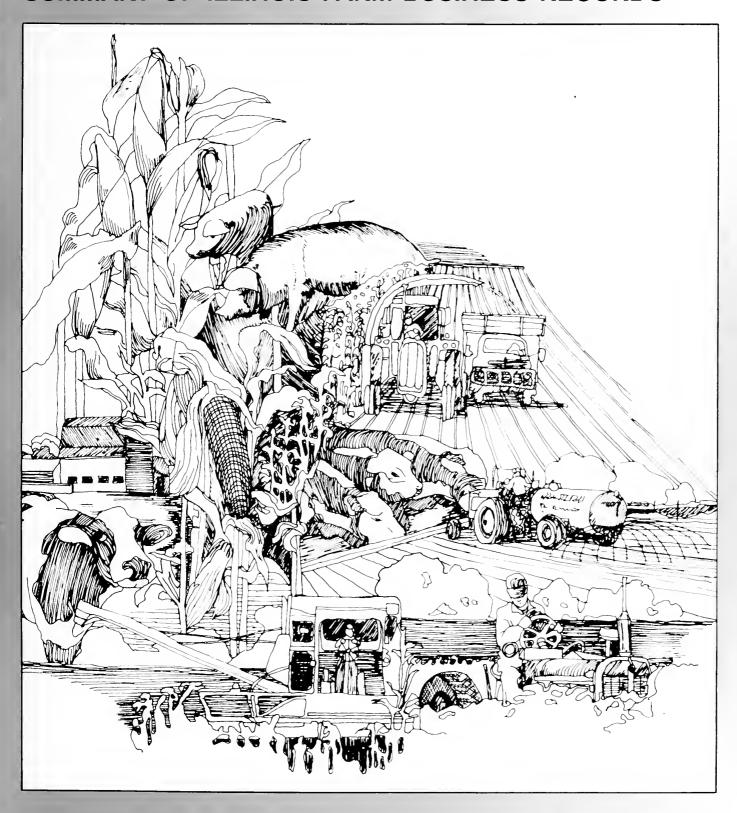


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1992 68th annual summary of Illinois farm business records



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 7,176 Illinois farms. It is the 68th 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 1993, 10 associations in 102 counties are being served by 68 full-time field staff and one half-time field staff specialist. Participation in this farm-business analysis program is voluntary; cooperating farmers pay a fee for the educational services.

The program's development since 1940 is shown below.

Year	Associa- tions	Counties partici- pating	Field staff employed	Farmers enrolled
1940	3	23	3	680
1950		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 1992 indicate that 90 percent of the 7,176 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	Percent of all	Percent of census farms	Number of farms
per	farms over	enrolled	enrolled
farm			
larm	50 acres	in FBFM	in FBFM
180-499	. 43.1	9.3	2,374
500-999	. 24.1	17.8	2,537
1,000+	. 8.5	19.6	983

Although most of the 1992 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 1992 was 759 acres, compared with an average of 352 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 selected 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 of the data used in the text are drawn from previous issues of this report.

The second section (Tables 9 to 18) presents data on livestock enterprises. 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 adjusted land values brings them to current market levels.

Hay equivalents, tons

To get the equivalents, we took the total of 1.0 multiplied by the pounds of hay, 0.45 multiplied by the pounds of hay silage, 0.33 multiplied by the pounds of corn silage, and 24 multiplied by the pasture days per feed unit (which are also multiplied by the total feed units per cow). This total 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, \$2.35; oats, \$1.52; and wheat, \$3.34. 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 1992 at \$1,500 a month.

Interest on nonland capital covers the interest charged at 7 percent on the sum of one-half the average of the January I and December 31 inventory values of grain, plus the average of the January I and December 31 inventories of remaining capital investment in livestock, machinery and light vehicles, buildings, and soil fertility, plus one-half the cash-operating expense, exclusive of interest paid. In Tables 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 \$15,194. 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 4.2 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 1992, using a base earning value of 1979 = 100, was 70.

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 1992

Illinois agriculture is based largely on crop production, especially corn and soybeans. In 1992, Illinois ranked first 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 18 percent of the total U.S. production for these crops. In 1991, the total value was 63 percent of the total value of production in Illinois from all crops and livestock and 90 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 1992 broke records and were considerably higher than the drought-reduced yields of 1991. In 1992, the average corn yield for Illinois was 149 bushels per acre, 42 bushels above 1991 and 14 bushels above the previous record set in 1985 and 1986. Recordkeeping farms averaged 153 bushels per acre in 1992, also 42 bushels above the 1991 yield. Soybean yields were 43 bushels per acre in 1992, compared with 37.5 in 1991. Recordkeeping farms averaged 46 bushels per acre in 1992. Crop yields on the 7,176 recordkeeping farms covered in this report averaged 3 to 7 percent above the average for all Illinois farms reported by the Illinois Crop Reporting Service.

This was the first year that crop sales have been divided between old and new crop sales. The prices received for old crop soybeans sold during the year averaged 10 to 13 cents per bushel below 1991 prices (Table 1). Corn prices received in 1992 averaged 4 to 5 cents less than those received in 1991. The price received for new crop corn averaged 31 cents lower than old crop, and the price received for new crop soybeans averaged 26 cents lower. Wheat sold for 77 to 92 cents more 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. Negative marketing margins on old-crop corn inventoried at the beginning of the year averaged about 2 cents. The average price received for old-crop soybeans was 13 cents above the beginning of year inventory price. The year-end, new-crop corn inventory price was 30

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

	19	92	19	91
	Northern Illinois	Southern Illinois	Northern Illinois	Southern Illinois
Grain prices per bus	hel			
Purchased — corn Sold — corn,	\$2.28	\$2.39	\$2.30	\$2.35
old crop	2.32	2.33	2.37ª	2.37ª
corn, new crop	2.02	2.01	_	_
soybeans, old crop	5.65	5.61	5.75ª	5.74ª
soybeans, new crop wheat		5.31 3.25	 2.43	 2.33
Livestock prices per		0.20	2.40	2.00
Hogs, all weights Fed cattle, all		1.83	\$48	3.52
weights Feeder cattle, all	73	3.41	72	2.55
weights, prices paid	81	.64	85	5.94
Dairy cattle, all weights	60).45	59	9.45
Sheep and wool, all weights	48	3.51	42	2.82
Milk per cwt	13	3.07	11	1.70

^a Average price for old and new crop combined.

cents lower than it was the year before, and the yearend, new-crop soybean inventory price was the same.

Production of the major crops in 1992 was considerably higher than 1991 and at record high levels. Compared to 1991, corn production was up 40 percent; soybean production was up 19 percent; oat production was up 20 percent; grain sorghum production was up 94 percent. Wheat production was up 39 percent with an average yield of 54 bushels per acre, second highest on record. Hay production was up 5 percent. The Illinois 1992 All Crop Production Index, using a base value of 1977 = 100, was 128. This figure was at a record high, breaking the previous high of 120 set in 1985. Acreages of corn harvested for grain was unchanged from 1991 to 1992, while soybean acreage was up 4 percent from 1991. The acreage planted to soybeans is the largest acreage planted to soybeans in Illinois. Wheat acreage harvested for grain decreased 18 percent. Normally, farmers harvest about 90 percent of the planted acreage. In 1992, only 79 percent of the planted acreage was harvested due to the extensive winter-kill damage.

Although 1992 produced record corn and soybean yields, weather conditions during the growing season were unusual. Planting of the 1992 corn crop progressed ahead of average in early April, was delayed by rain in later April, but finished rapidly in early May. Farmers planted the same amount of corn acres in 1992 as in 1991. Planting was complete by the third week of May, about two weeks ahead of normal.

Crop progress soon began to lag behind normal levels due to cool and dry weather in May and June. By July, the corn was well behind schedule and in danger of deteriorating due to lack of moisture. Rain began in July and continued throughout the month. This, combined with cool temperatures, resulted in an excellent corn crop, although behind in maturity. Corn harvest began later than usual and continued that way, resulting in the latest harvest in 20 years. The northern area of the state suffered the most problems due to the late harvest.

Soybean planting got off to a slow start in late April and early May due to cool and wet weather. Planting progressed rapidly as temperatures rose and soils dried. By late May, planting was two weeks ahead of normal. June was cool and dry but July rains improved the condition of the crop drastically. Harvest begin in early September but progressed slowly. Harvest was nearly complete by the end of October. Timely rains over most of the state resulted in record yields.

Livestock. A second major determinant in farm income is the price farmers receive for livestock and livestock products. In 1992, the average prices received by farm recordkeepers in the Illinois FBFM Association were 14 percent lower for hogs, 1 percent higher for fat cattle, and 12 percent higher for milk than they were in 1991 (Table 1). The prices paid for all weights of feeder cattle and feeder pigs averaged 5 percent below the 1991 price for feeder cattle and 24 percent below the 1991 price for feeder pigs. Higher returns due to higher prices received for fat cattle and higher year-end inventory values caused returns above feed and purchased animals for the feeder-cattle enterprise to increase from \$3.97 per hundredweight produced to \$25.40 (Table 10). Lower hog prices decreased returns above feed cost from \$17.67 per hundredweight produced to \$16.45. Returns above feed were below the 5-year average for 1988 through 1992 by \$1.95 per hundredweight produced. Higher milk prices in 1992 made dairy returns above feed cost per cow increase from \$1,064 in 1991 to \$1,398 in 1992 and 9 percent above the average for the 5-year period from 1988 through 1992.

Labor and management income

The average operator's share of labor and management income for the 5-year period from 1988 through 1992 on all northern Illinois recordkeeping farms (located north of a line from Kankakee to Moline) was \$19,546. Operators on 1,700 grain and hog farms in central Illinois had 5-year average earnings of \$26,977 (Table 2). Central Illinois occupies the area between the Kankakee-Moline line in the north and the Mattoon-Alton line in the south. Smaller

Table 2. Operator's Five-Year Average Share of Labor and Management Income by Size and Type of Farm, 1988 Through 1992

	Nur	mber of acr	es per farm	
	Under 340	340 to 649	650+	All
		Northern	Illinois	
Acres of tillable				
land	239	471	935	572
Labor and managem	ent earning	gs by type	of farm	
Grain	\$ 5,919	\$17,962	\$29,914	\$21,822
Hog	13,444	19,758	28,995	19,301
Beefa	830	6,086	10,898	6,482
Dairy	16,092	22,420	d	18,578
All	10,804	17,797	28,043	19,546
		Central I	llinois	
Acres of tillable				
land	266	499	958	701
Labor and managem	ent earning	gs by type	of farm	
Grain ^b	\$11,048	\$21,947	\$41.067	\$30,534
Grain ^c	5.386	17,136	30,837	23,795
Hog	12.575	19,709	31,501	21,778
All	9,967	20,029	36,273	26,977
		Southern	Illinois	
Acres of tillable				
land	256	584	1,132	771
Labor and managem	ent earning	gs by type	of farm	
Grain	\$ 8,864	\$14,704	\$27,309	\$21,914
Hog	11,392	25,047	d	21,863
Dairy	26,977	33,048	d	30,237
All	14,763	20,933	27,309	22,728

Includes central Illinois

highly productive soils with soil-productivity ratings from 86 to 100. Heavy-till and transition soils with soil-productivity ratings from 56 to 85.

d Data not available.

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, except for hogs, had higher earnings in 1992 compared to 1991. The difference in earnings between central and northern Illinois increased by \$2,552 in a comparison of the 5-year averages for the periods from 1987 through 1991 and from 1988 through 1992. The northern Illinois area in general suffered more from frost damage during the early growing season and a late, wet fall than central Illinois. The recordkeeping farms in northern Illinois averaged 572 tillable acres per farm, compared with an average of 701 tillable acres on farms in central Illinois.

The figure for labor and management income varies considerably, depending on the location and type of farm. For the period from 1988 through 1992, operators in southern Illinois averaged \$22,728 for labor and management. This average increased by \$2,070, compared with the average for the 5-year period from 1987 through 1991. When the average earnings for the 5-year period from 1988 through 1992 are compared with the earnings from 1987

through 1991, earnings increased in all areas of the

In 1992, the labor and management income for all areas of Illinois averaged \$37,965 per farm. This figure is \$27,512 above the 1991 state average. The higher returns were a result of record corn and soybean yields and higher returns to cattle and milk producers. The average corn yield for all farms in the study was 42 bushels per acre above 1991 and 11 bushels higher than the previous record. The average soybean yield tied the previous record high. Gross crop returns for grain farms were \$58 per tillable acre higher in 1992 than in 1991. Prices received for slaughter cattle and milk were higher while market hog prices were lower. Returns were unusually consistent across the central and southern Illinois areas and lower in northern Illinois.

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, 7 percent interest on nonland investment, and a land-use charge equivalent to the average net rent received by landowners for crop-share leases from 1988 to 1991.

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 \$35,000 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 \$5,000 and \$30,000 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 452 central Illinois, sole-proprietor, farm-operator families in 1992 averaged \$34,336 (Table 3). This figure is 6 percent higher than the 1991 average. Capital purchases for family living expenses of \$4,745 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 1992.

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		Family of 3	to 5, 1992 ^a	
1992	1991	1990	1989	High-third	Low-third
452	456	408	402	94	94
755 132 \$426,539 450,722 218,402 229,076 55,759	731 131 \$381,588 383,283 198,764 202,708 30,596	719 120 \$358,394 384,363 183,161 203,168 50,825	709 119 \$335,756 335,420 175,939 182,841 45,04 7	943 149 \$517,932 549,902 309,592 339,448 69,859	639 110 \$349,679 370,201 173,931 177,736 45,141
\$ 12,166 144,676 193,259	\$ 12,226 118,446 177,832 \$308,504	\$ 12,624 116,122 180,737 \$309,483	\$ 10,502 90,394 156,717 \$257,613	\$ 11,289 258,791 259,747 \$529,827	\$ 10,617 92,795 166,444 \$269,856
\$ 16,006 125.392 19,867 134,566 10,172 5,017 \$ 34,336 4,745	\$ 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	\$ 13,850 97,737 18,299 85,797 8,040 1,070 \$ 28,499 4,321	\$ 24,294 172,623 25,366 228,715 11,280 13,028 \$ 49,833 4,688	\$ 12,564 112,067 16,261 89,414 7,574 4,411 \$ 23,661 3,904
	452 755 132 \$426,539 450,722 218,402 229,076 55,759 \$ 12,166 144,676 193,259 \$350,101 \$ 16,006 125,392 19,867 134,566 10,172 5,017 \$ 34,336	1992 1991 452 456 755 731 132 131 \$426,539 \$381,588 450,722 383,283 218,402 198,764 229,076 202,708 55,759 30,596 \$ 12,166 \$12,226 144,676 118,446 193,259 177,832 \$350,101 \$308,504 \$ 16,006 \$15,550 \$12,392 111,037 \$19,867 22,829 \$13,510 10,172 \$0,172 11,326 \$0,17 -2,646 \$34,336 \$32,480 4,745 4,418	452 456 408 755 731 719 132 131 120 \$426,539 \$381,588 \$358,394 450,722 383,283 384,363 218,402 198,764 183,161 229,076 202,708 203,168 55,759 30,596 50,825 \$ 12,166 \$ 12,226 \$ 12,624 144,676 118,446 116,122 193,259 177,832 180,737 \$350,101 \$308,504 \$309,483 \$ 16,006 \$ 15,550 \$ 15,070 125,392 111,037 112,943 19,867 22,829 27,834 134,566 113,510 98,101 10,172 11,326 9,444 5,017 -2,646 9,710 \$ 34,336 \$ 32,480 \$ 32,090 4,745 4,418 4,291	1992 1991 1990 1989 452 456 408 402 755 731 719 709 132 131 120 119 \$426,539 \$381,588 \$358,394 \$335,756 450,722 383,283 384,363 335,420 218,402 198,764 183,161 175,939 229,076 202,708 203,168 182,841 55,759 30,596 50,825 45,047 \$12,166 \$12,226 \$12,624 \$10,502 \$144,676 \$118,446 \$116,122 \$90,394 \$193,259 \$177,832 \$180,737 \$156,717 \$350,101 \$308,504 \$309,483 \$257,613 \$16,006 \$15,550 \$15,070 \$13,850 \$125,392 \$111,037 \$12,943 \$97,737 \$19,867 \$22,829 \$27,834 \$8,299 \$13,510 \$9,101 \$5,797 \$10,172 \$11,326 \$9,444 \$	1992 1991 1990 1989 High-third 452 456 408 402 94 755 731 719 709 943 132 131 120 119 149 \$426,539 \$381,588 \$358,394 \$335,756 \$517,932 450,722 383,283 384,363 335,420 549,902 218,402 198,764 183,161 175,939 309,592 229,076 202,708 203,168 182,841 339,448 55,759 30,596 50,825 45,047 69,859 \$12,166 \$12,226 \$12,624 \$10,502 \$11,289 \$144,676 \$18,446 \$16,122 \$90,394 \$258,791 \$193,259 \$177,832 \$80,737 \$156,717 \$259,747 \$350,101 \$308,504 \$309,483 \$257,613 \$529,827 \$16,006 \$15,550 \$15,070 \$13,850 \$24,294 \$125,392 \$111,037 \$12,943

^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.

The average farmer in this sample paid \$16,006 in interest in 1992 on operating, machinery, and longterm real estate debts. This interest expense was 11 percent of total operating expenses (including interest paid) and 8 percent of total farm receipts, or \$21 per tillable acre farmed in 1992. The average amount of interest paid in 1992 was \$456 more than the amount paid in 1991. This is the fourth year in a row that the amount of interest paid exceeded the amount paid in the previous year.

The most significant financial facts about 1992 are as follows:

- · Net farm income, plus net nonfarm income, was \$18,672 more than the sum of family living capital purchases, total living expenses, and payments for income and Social Security taxes. This was the largest this margin has been since the 1970s;
- Liabilities of \$229,076 as of December 31, 1992, were 51 cents for each dollar of farm-only assets, including land at current value and machinery at depreciated value. The 51 cents was the same as 1989 and lowest of any year in the last decade;
- Capital purchases of \$19,867 dropped for the second year in a row, averaging \$26 per tillable acre. That compared to \$39 per tillable acre in 1990 and \$31 in 1991;
- The amount of money borrowed exceeded principal payments for the fourth year in a row, after three years in which principal payments exceeded money
- The amount of noncapital living expenses per till-

- able acre farmed was \$45, which was the highest amount in recent years;
- Income and Social Security taxes paid decreased by \$1,154 but the total amount of taxes paid, \$10,172, was the second largest amount since this study began.

The 1992 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 \$49,833, compared with \$23,661 for the low-third group. The high-third group farmed 304 more acres than the other group and owned 16 percent of the land farmed; the lowthird group owned 17 percent of the land farmed. The results indicate that the high-third group had more nonfarm taxable income. The high-third group had 91 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 \$5,272 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 452 farms contained 54 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 \$27,000 and \$29,000 or 15 to 20 percent below the average total living expenses of these 452 central Illinois farms. When the \$12,166 net nonfarm income for 1992 is used for living expenses, the remaining \$26,915 must be generated from the farm business to pay the \$39,081 used for total living expenses including family living capital purchases. The figure, \$26,915, amounts to \$36 per tillable acre farmed.

Income changes on Illinois farms

The average operator's net farm income for all farms in 1992 was \$54,097; it was \$25,502 in 1991 (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. Due to the higher incomes in 1992, a net farm income did not become negative until 30 to 35 percent of the gross farm returns were used to pay interest. Interest paid as a part of gross farm returns for all operators averaged 7.9 percent in 1992; 9.9 in 1991; 8.8 in 1990; 8.9 in 1989; and 9.8 in 1988.

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 568 acres. Labor available on farms of this size averaged 13 months on grain farms, 24 months on hog farms, 18 months on beef farms, and 27 months on dairy farms. The data in the tables are presented as if the farms were all owner operated. For leased farms, the landlord and tenant shares of the business were combined. Depending on the location, between 55 and 75 percent of the land in Illinois is tenant operated, primarily under crop-share, some cash-rent, and a small number of livestock-share leases.

Size of farm, type of farm, quality of soil, and managerial inputs have been held reasonably constant by the sampling procedure used in selecting farms within each category. Variations among figures for 1990, 1991, and the 5-year average are due to changes in farm prices and to costs, weather, and internal farming adjustments. The data in Tables 5, 7, and 8 are particularly helpful for comparing types of farming and for evaluating changes in farm costs and returns for a particular size and kind of farm. The data do not reflect overall farming adjustments due

to the enlargement of farms or to major changes in the use of resources.

The figure for net farm income comprises returns to the farm family for all unpaid labor, interest on all invested capital, and the managerial inputs used in farming. Changes in the value of farm inventories and that of consumed farm products are included as income. Net farm income is calculated by accounting methods comparable to the accrual method used in calculating taxable farm income for the federal income tax. Two important differences in the accrual method of income tax accounting should be noted: the provision for capital gains on livestock sales, which was in effect until 1987, and the inclusion of interest paid as a farm expense. The operator's share of net farm income, which is listed below total net farm income in many tables, does have the interest expense deducted from it.

The figures for net farm income are the amount available from the farm business for living costs, income and Social Security taxes, debts, new investments, and savings. Interest must also be paid from total net farm income, but not the operator's share because it has already been subtracted. New capital investments for the farm business have been included with total cash expenditures. Although the cash balance reflects the cash position of the farm business, the figure is influenced by purchases and sales of feed and livestock and by changes in liabilities and borrowed funds.

The investment per farm is established as an average of the investments in farm inventory on January 1 and December 31. Physical quantities of grain and livestock are valued at farm market prices. Machinery, buildings, and soil fertility are valued at the remaining capital cost: original cost less depreciation as allowed for income tax deductions to date. Land is priced at current values, with the same value used for the beginning- and end-of-the-year land inventories. A base land value is established for each farm on the basis of a soil-productivity rating adjusted to a current value each year by using the February index of land prices in Illinois. The procedure used for adjusting the land value is described in the definitions of soil-productivity rating and of the value of land (the current basis) on pages 2 and 3. The annual change in land values represents an adjustment in accounting to bring land values to current market levels. The land adjustment index for 1992 was 6 percent above that of 1991.

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 \$97,655 in 1992, with the operator's and landlord's shares combined (Table 5). This income was \$33,114 above that of 1991 and \$19,779 above the 5-year average income

Table 4. Percent of Illinois Farms and Operator Net Farm Income by Interest Paid as a Percent of Gross Farm Returns, 1988 Through 1992

	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												
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				
1992	69	16	7	4	2	1	1	100				
Net farm income												
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				
1992	60,758	50,713	35,264	28,201	11,267	7,738	-19,068	54,097				

from 1988 through 1992. This income was the highest of any during the last decade. The next highest was \$87,883 in 1989. The value of farm production was also the highest of any of the last ten years, increasing by \$36,937 compared to 1991. The value of farm production increased due to a \$17,363 increase in inventory value and a \$8,342 increase in accounts receivable. Net cash operating income was actually slightly less than the year before. Total operating expenses increased only \$897. Depreciation expense increased from \$10,612 in 1991 to \$10,908 in 1992. The amount of annual depreciation of these farms is now about half of the depreciation these farms had eight years ago.

The main factor causing incomes on northern and central Illinois grain farms to increase as compared to the year before was the record-high corn and soybean yields. The average corn yield on these farms in 1992 was 162 bushels per acre, compared to 116 in 1991. The average soybean yield was 47 bushels per acre, compared to 41 the year before. Corn was inventoried 30 cents lower at the end of 1992 compared to the beginning, while soybeans were inventoried at the same price. The increase in accounts receivable was due to an increase in accounts receivable was due to an increase in accounts receivable was from the government farm program. Most farmers continue to participate in the government farm program, setting aside 5 percent of their corn acreage base.

The average price received in 1992 for corn and soybeans was slightly lower than the year before. The average price received for old crop corn was slightly lower than the inventory price at the beginning of the year while the soybean price was higher than the beginning-of-the-year inventory price. This resulted in a positive marketing margin for soybeans and a negative marketing margin for corn. Cash operating expenses increased by 3 percent and depreciation increased by 3 percent. Capital purchases of \$13,259 in 1992 were \$1,715 less than in 1991.

While accrual net farm incomes increased

\$33,114, net cash incomes decreased \$1,258. A major reason for the difference is due to a large inventory increase which only affects the accrual income. Cash operating income decreased \$638. Management returns were \$21,186, the highest in a number of years. The last five-year average is \$1,531. The rate earned on investment was 6.10 percent, compared with 3.86 percent in 1991 and the last 5-year average of 5.16 percent. This rate earned on investment for grain farms was the second lowest rate earned in 1992 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 97 percent of their tillable land to grow corn and soybeans, with 49.9 percent of the acres in corn and 46.6 percent in soybeans. The table compares 1992 costs per acre with the 1991 costs. In 1992, the total cost per acre averaged \$344 for corn and \$276 for soybeans. From 1991 to 1992, it decreased 1 percent for soybeans and did not change for corn.

Nonland costs of \$1.29 per bushel for corn and \$3.24 for soybeans in 1992 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 did not change much from 1991 to 1992, the total costs per bushel decreased due to higher yields. Total costs per bushel decreased 68 cents for corn and 41 cents for soybeans. If the 1992 yields had been 150 for corn and 48 for soybeans or the same as the average for the period from 1989 through 1992, the total cost per bushel would have been \$2.29 for corn and \$5.75 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 7 percent of

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

	Grain farms				Hog farms		Beef farms		
	1992	1991	1988-1992 average	1992	1991	1988-1992 average	1992	1991	1988-1992 average
Number of farms	744	787	803	177	203	216	46	52	49
Total acres	578	577	570	557	550	550	534	525	527
ratingCash operating	86	86	87	81	81	82	. 78	76	78
income\$ Less purchased	166,197	\$ 167,054	\$ 166,625	\$ 337,375	\$ 332,478	\$ 329,033	\$ 505,538	\$ 486,023	\$ 524,693
feed and livestock	540	759	4,111	112,758	96,515	103,188	335,305	289,894	333,941
Net cash operating income\$ Accounts receivable	165,657	\$ 166,295	\$ 162,514	\$ 224,617	\$ 235,963	\$ 225,845	\$ 170,233	\$ 196,129	\$ 190,752
change	8,342 17,363 239	-1,101 -10,777 247	-969 5,010 265	7,271 14,452 528	-941 -21,712 579	-568 4,849 582	9,044 23,283 955	-1,588 -37,390 1,107	-235 3,580 973
Value of farm production\$ Total cash operating	191,601	\$ 154,664	\$ 166,820	\$ 246,868	\$ 213,889	\$ 230,708	\$ 203,515	\$ 158,258	\$ 195,070
expenses Prepaid-unpaid	81,306	79,094	77,475	120,251	115,501	111,697	97,551	96,867	96,959
change	1,732 10,908	417 10,612	292 11,177	1,537 23,303	-20 21,729	-166 24,765	309 17,437	2,166 21,988	421 22,389
Net farm income \$	97,655	\$ 64,541	\$ 77,876	\$ 101,777	\$ 76,679	\$ 94,412	\$ 88,218	\$ 37,237	\$ 75,301
(Operator's share) ^a Unpaid labor charge Returns to capital	(42,895) 17,796	(21,119) 16,759	(31,009) 16,039	(47,112) 20,703			(40,560) 18,848	(-5,238) 19,457	(26,780) 17,413
and management Interest charge on	79,859	47,782	61,837	81,074	56,829	75,023	69,370	17,780	57,888
capital	58,673	61,519	60,306	63,858			65,368	72,373	74,761
	•	\$ -13,737	-		\$ -12,383	•	· ·	\$ -54,593	
Total cash income ^b Total cash	167,536	168,499	168,092	338,316	333,821	330,163	507,000	486,345	525,602
expenditures ^b	94,891	94,596	94,593	256,299	239,090		449,147	409,871	452,664
Cash balance \$ Capital purchases	72,645 13,259	\$ 73,903 14,974	\$ 73,499 13,254	\$ 82,017 23,448	\$ 94,731 27,232		\$ 57,853 16,341	\$ 76,474 23,128	\$ 72,938 21,825
Farm Investment: Livestock inventory \$ Grain inventory Remaining capital cost in:	172 107,182	\$ 232 102,803	\$ 199 100,686	\$ 103,241 98,576	\$ 97,374 98,349		\$ 224,131 92,376	\$ 206,184 93,796	\$ 219,294 87,531
Machinery and auto Buildings and fence Soil fertility	25,354 14,724 60	23,172 15,344 71	20,395 16,870 61	42,656 48,707 63	36,910 49,363 122	51,242	35,297 39,537 0	39,689 45,369 2,630	34,031 46,408 527
Value of land (current basis)\$1	,162,640	\$1,096,531	\$1,061,245	\$ 998,551	\$ 940,654	\$ 926,202	\$ 887,264	\$ 815,506	\$ 822,587
Total farm investment \$1	,310,132	\$1,238,153	\$1,199,456	\$1,291,794	\$1,222,772	\$1,204,758	\$1,278,605	\$1,203,174	\$1,210,377
Rate earned on investment, percent	6.10	3.86	5.16	6.28	4.65	6.23	5.43	1.48	4.78

^a Interest expense deducted from operator's share only. Shown in parentheses because it pertains to operator's net farm income only. ^b Includes sales or purchases of capital items.

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 1988 through 1992.

Hog farms. The net farm income in 1992 for northern and central Illinois hog farms having 340 to 799 acres averaged \$101,777, with the operator's and landlord's shares combined (Table 5). Net incomes were \$25,098 higher than net incomes in 1991, and \$7,365 higher than the average for the 5-year period from 1988 through 1992. The net farm incomes for this group in 1992 were the third highest for any year out of the last 10 years. Earnings for these type of farms were record-high in 1990. Incomes for this type of farm were the second highest for any type of farm in 1992 and for the average of 1988 through 1992. Higher grain yields resulted in a \$14,452 inventory increase in 1992 compared to a \$21,712 decrease in 1991. Net cash operating income was actually lower in 1992 than in 1991. The value of farm production increased 15 percent and cash operating expenses other than feed increased 4 percent.

Management returns were \$17,216, an increase of \$29,599 from 1991 returns and \$11,710 above the 5-year average from 1988 through 1992. Capital purchases decreased by \$3,784, compared with 1991's purchases, and were \$2,609 below the 1988 through 1992 average. Cash livestock sales increased by \$12,366 compared with 1991 figures. The average number of litters farrowed for this group was 266, the highest ever.

Higher earnings caused the rate earned on investment to increase to 6.28 percent in 1992, compared with 4.65 percent in 1991. This was the highest for any type of farm in northern and central Illinois. The 5-year average rate was 6.23 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 \$88,218 in 1992, with the operator's

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

C	orn	Soyt	peans
1992	1991	1992	1991
Number of farms 615	631	615	631
Acres grown per farm 403	368	377	352
Yield per acre, bu 176	131	49	46
Variable nonland costs Soil fertility	\$ 55	\$ 17	\$ 18
	24	25	25
	23	13	13
	8	6	4
Total, variable costs \$140	\$137	\$ 83	\$ 83
Other nonland costs Labor	\$ 29	\$ 28	\$ 27
	6	3	3
	19	16	15
	23	16	20
	12	13	12
	\$ 89	\$ 76	\$ 77
	\$226	\$159	\$160
Land costs Taxes	\$ 20	\$ 20	\$ 20
	<u>98</u>	<u>97</u>	<u>98</u>
	\$118	\$117	\$118
	\$344	\$276	\$278
Nonland cost per bu \$ 1.29	\$ 1.73	\$ 3.24	\$ 3.48
Total, all costs per bu \$ 1.95	\$ 2.63	\$ 5.63	\$ 6.04
Average yield, past 4 years	127	48	43
	\$ 2.71	\$ 5.75	\$ 6.47

and landlord's shares combined (Table 5). This figure was \$50,981 higher than the 1991 figure and \$12,917 higher than the average from 1988 through 1992.

Higher slaughter cattle prices and inventory values contributed to the higher earnings. The average price received for fat cattle increased 1 percent in 1992 compared with 1991. The average price paid to replace feeder cattle decreased 5 percent. Compared with 1991, the value of farm production increased by \$45,257, or 29 percent. It was \$8,445 above the 5-year average for 1988 through 1992. The 1991 value of production was the lowest of any in the last 10 years, and the 1990 value of farm production was the highest of any of the preceding 10 years. These farms produced 2,388 hundred-weight of beef per farm, or the weight-gain equivalents of 503 head, each gaining 475 pounds.

Management returns of a \$4,002 in 1992 for these farms were \$58,595 above 1991 returns and \$20,875 above the 5-year average from 1988 through 1992, which was a negative \$16,873. The 1992 management returns were the third highest of any year in the last 10 years. The only years that management returns have been positive in the last 10 years were in 1987, 1990, and 1992. Capital purchases were \$16,341 in 1992 compared to \$23,128 in 1991 and \$21,825 for the 1988 through 1992 average. Cash operating expenses, excluding purchases of feed and livestock, increased 1 percent. The net cash balance for these farms was \$57,853, or \$18,621 less than in 1991 and \$15,085 below the average for 1988 through 1992. The net cash balance for these farms in 1992 was the lowest for any year out of the last 10 years.

Cost and returns to produce beef from 1989 through 1992, based on a detailed breakdown of individual costs from a selected sample of beef farms, are shown in Table 14. Total returns exceeded total costs in 1992. This analysis is discussed in detail under the livestock section on feeder-cattle enterprises.

The average rate earned on investment increased from 1.48 percent in 1991 to 5.43 percent in 1992. The 5-year average rate earned on investment from 1988 through 1992 was 4.78 percent. The 1992 and the 1988 through 1992 average rate earned on investment is the lowest for any type of farm. The average total farm investment was \$1,278,605. The average investment in cattle of \$92,376 therefore represents the third highest of any year during the last eight 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. Lower feeder cattle prices along with stable feed costs helped increase returns in 1992 to feeder-cattle enterprises. 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.

ingli levels of management

Dairy farms. The net farm income for northern and central Illinois dairy farms having 340 to 799 acres averaged \$84,861 in 1992, with the operator's and landlord's shares combined (Table 7). This figure was \$20,653 above the 1991 figure and \$1,547 above the 5-year average from 1988 through 1992. The 1991 income was the lowest of any of the last 6 years. The average number of cows on these farms was 74, four above the average for 1991.

Higher milk prices which increased cash operating income and higher crop yields which increased the value of inventories resulted in higher value of production and net farm income. The value of farm production was \$220,358, 5 percent above the average for the 5-year period from 1988 through 1992. Cash operating expenses increased 7 percent in 1992 compared to 1991. A detailed breakdown of the cost of producing milk can be found in Table 16. Management returns of \$8,640 were \$27,155 above 1991 and \$5,116 above the average for the 5-year period from 1988 through 1992. For the last 10 years, management returns were positive 4 years. Capital purchases increased to \$26,432 compared to \$21,951 and the 1988 through 1992 average of \$23,215.

The 1992 rate earned on investment for these farms was 6.16 percent; the 1991 rate was 4.14 percent. The 5-year average rate earned on investment was 6.70 percent. The 1992 rate earned on investment was the second highest for any type of farm in central and northern Illinois. The average price received for milk in 1992 was 12 percent higher than the average price received in 1991. At the beginning of 1992, milk prices were above prices received in 1991 and continued to be higher until the last two months. Milk prices received for the first half of 1993 are similar to the first half of 1992. However, dairy producers may face higher feed costs due to a short supply of hay and other roughages caused by unseasonable wet conditions during the summer of 1993.

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 1992, the returns from beef accounted for 16 percent of the total returns to the dairy herd, in comparison with 17 percent in 1991.

Southern Illinois farms

Grain farms. The net farm income for southern Illinois grain farms having 340 to 799 acres averaged \$73,875 in 1992, with the landlord's and operator's shares combined (Table 8). This income is \$26,257 above net farm income in 1991 and \$14,054 above the average from 1988 through 1992. Higher corn

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

	1992		1991	ı	88-1992 average
Number of farms	62		65		60
Total acresSoil-productivity rating	470 71		479 71		472 71
Cash operating income \$ Less purchased feed and livestock	256,764 53,320	\$	250,972 50,142	\$	256,578 53,458
Net cash operating	00,020	-	- 00,142	-	30,430
income \$ Accounts receivable	203,444	\$	200,830	\$	203,120
change Inventory change Farm products used	5,552 9,153 2,209		-681 -11,996 2,272		-61 5,106 2,314
Value of farm production\$	220,358	\$	190,425	\$	210,479
Total cash operating expensesPrepaid-unpaid change	113,643 174		106,651 775		105,655 -35
Annual depreciation	21,680	-	18,791	-	21,545
Net farm income\$	84,861	\$	64,208	\$	83,314
(Operator's share) ^a Unpaid labor charge Returns to capital	(44,927) 26,661		(28,683) 25,825		(46,802) 24,453
and management Interest charge on capital	58,200 49,560	_	38,383 56,898		58,861 55,337
Management returns\$	8,640	\$	-18,515	\$	3,524
Total cash income ^b Total cash expenditures ^b	257,207 191,863	_	253,834 177,451	_	257,473 180,895
Cash balance\$ Capital purchases FARM INVESTMENT	65,344 26,432	\$	76,383 21,951	\$	76,578 23,215
Livestock inventory\$ Grain inventory	111,234 66,888	\$	119,491 74,253	\$	108,085 66,229
Remaining capital cost in: Machinery and auto Buildings and fence	45,006 49,102		40,523 50,108		37,303 54,603
Soil fertility	79		895		400
Value of land (current basis)	673,092		642,402		611,540
Total farm investment\$	945,401	\$	927,672	\$	878,160
Rate earned on investment, percent	6.16		4.14		6.70

^a Interest expense deducted from operator's share only b Includes sales or purchases of capital items.

and soybean yields resulted in increased cash operating income and a \$17,828 increase in inventories. These increases resulted in the value of farm production to increase \$28,293, or 23 percent in 1992 compared to 1991. Corn yields were 47 bushels per acre higher and soybean yields were 4 bushels per acre higher in 1992 compared to 1991. Farm operating expenses increased slightly while depreciation expenses dropped \$194. The cash balance of \$55,323 was \$8,337 above 1991 and the highest since 1989.

Capital purchases were \$11,007 in 1992, \$1,087 less than 1991 and \$2,190 below the 5-year average for 1988 through 1992. Capital purchases were the lowest since 1987. Capital purchases in 1992 equaled \$19 per tillable acre compared to \$43 per tillable acre in 1981.

Management returns for these farms of \$19,161 was the highest of any year during the last 10 years.

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		
	1992	1991	1988-1992 average	1992	1991	1988-1992 average	1992	1991	1988-1992 average
Number of farms	231	224	244	59	83	81	28	39	39
Total acres Soil-productivity	585 59	591 60	583 60	567 59	559 58	557 59	499 60	525 59	511 60
rating Cash operating	39	00	00	39	36	39	00	39	60
income Less purchased	\$141,545	\$132,623	\$140,713	\$274,925	\$247,854	\$264,471	\$319,735	\$306,596	\$306,134
feed and livestock	8,795	9,088	10,587	92,458	74,472	84,384	74,120	73,217	68,174
Net cash operating income	\$132,750	\$123,535	\$130,126	\$182,467	\$173,382	\$180,087	\$245,615	\$233,379	\$237,960
change	1,517	-85	-8	747	-161	-73	398	-125	136
Inventory change Farm products used	17,828 803	482 673	5,686 893	17,624 1,044	-14,759 845	4,073 974	22,042 2,694	3,228 1,957	10,789 2,507
Value of farm production Total cash operating	\$152,898	\$124,605	\$136,697	\$201,882	\$159,307	\$185,061	\$270,749	\$238,439	\$251,392
expenses Prepaid-unpaid	68,927	66,319	65,894	98,365	88,382	91,265	125,612	123,924	116,385
change	167	545	-86	1,271	-142	57	-3,798	1,836	-956
Annual depreciation	9,929	10,123	11,068	17,388	15,875	19,236	24,432	22,688	24,542
Net farm income	\$ 73,875	\$ 47,618	\$ 59,821	\$ 84,858	\$ 55,192	\$ 74,503	\$124,503	\$ 89,991	\$111,421
(Operator's share) ^a Unpaid labor charge Returns to capital	(38,531) 18,325	(14,246) 17,418	(25,550) 16,796	(42,903) 19,640	(21,770) 19,816		(89,481) 26,384	(55,246) 26,465	(77,281) 24,564
and management Interest charge on	55,550	30,200	43,025	65,218	35,376	55,839	98,119	63,526	86,857
capital	36,389	39,608	38,841	42,938	44,267	46,661	48,129	57,693	53,888
Management returns	\$ 19,161	\$ -9,408	\$ 4,184	\$ 22,280	\$ -8,891	\$ 9,178	\$ 49,990	\$ 5,833	\$ 32,969
Total cash income ^b Total cash	143,349	133,939	142,026	275,333	248,187	265,733	321,354	306,930	306,773
expenditures ^b	88,026	86,953	88,926	205,279	180,481	195,398	229,041	216,025	211,044
Cash balance Capital purchases	\$ 55,323 11,007	\$ 46,986 12,094	\$ 53,100 13,197	\$ 70,054 15,173	\$ 67,706 18,100	\$ 70,335 20,323	\$ 92,313 31,061	\$ 90,905 20,094	\$ 95,729 28,119
FARM INVESTMENT Livestock inventory Grain inventory	\$ 13,640 73,739	\$ 11,457 66,843	\$ 13,290 66,770	\$ 78,702 73,844	\$ 75,412 63,245	\$ 77,375 67,786	\$154,146 68,911	\$157,724 66,966	\$135,309 66,007
Remaining capital cost in:									
Machinery and auto Buildings and fence Soil fertility	25,449 8,438 55	26,152 7,446 57	22,525 8,896 50	30,664 30,734 62	29,721 23,269 61	28,584 31,510 59	59,299 28,489 0	61,839 33,864 0	50,505 30,894 0
Value of land (current basis)	662,908	650,945	622,700	638,043	566,733	540,853	568,599	572,338	545,123
Total farm investment	\$784,229	\$762,900	\$734,231	\$852,049	\$758,441	\$746,167	\$879,444	\$892,731	\$827,838
Rate earned on investment, percent	7.08	3.96	5.86	7.65	4.66	7.48	11.16	7.12	10.49

 $^{^{\}rm a}$ Interest expense deducted from operator's share only. $^{\rm b}$ Includes sales or purchases of capital items.

The second highest was \$11,439 in 1989. The 5year average from 1988 through 1992 for management returns was \$4,184. The rate earned on investment increased in 1992 to 7.08 percent; in 1991, this rate was 3.96 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 1988 through 1992 was 5.86 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

\$84,858 in 1992, with the landlord's and operator's shares combined (Table 8). This income was \$29,666 higher than net farm income in 1991 and \$10,355 higher than the average net farm income of \$74,503 earned from 1988 through 1992. Stable hog prices and higher corn and soybean yields were the main factors in the increase in earnings. The value of farm production was up \$42,575, or 27 percent, in 1992 compared to 1991.

Management returns for 1992 were \$22,280, compared to a negative \$8,891 in 1991 and \$9,178 for the 5-year period from 1988 through 1992. Management returns were at their third highest for any year during the last 10 years. Capital purchases were \$15,173 in 1992, \$2,927 lower than 1991 and \$5,150 lower than the 1988 through 1992 average. Cash operating expenses increased \$9,983, or 11 percent; depreciation increased \$1,513 but was still \$1,848 below the average for 1988 through 1992.

As with central and northern Illinois hog farms, the rate earned on investment by southern Illinois hog farms increased significantly. In 1992, the rate increased to 7.65 percent from 4.66 percent in 1991. The average rate earned on investment for the period from 1988 through 1992 was 7.48 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 1992 rate earned on investment was the second highest of any type of farm.

Dairy farms. The net farm income in 1992 for southern Illinois dairy farms having 340 to 799 acres averaged \$124,503, with the operator's and landlord's shares combined (Table 8). This figure is \$34,512 above the net farm income earned in 1991 and \$13,082 above the average for the period from 1988 through 1992. This net farm income was the highest earned by any type of participating farm of this size in Illinois in 1992. Higher milk prices and higher grain yields caused the value of farm production to increase by \$32,310 in 1992 compared to 1991. The 1992 value of farm production was the second highest for any year in the last decade. Net cash operating income increased by \$12,236 in 1992 compared to 1991, while the value of grain and livestock inventories increased by \$22,042. Cash operating expenses increased \$1,688.

Capital purchases of \$31,061 were \$10,967 above 1991 capital purchases and \$2,942 above the average

capital purchases for 1988 through 1992.

Management returns for this type of farm were \$49,990 in 1992; these returns were \$5,833 in 1991. The 5-year average from 1988 through 1992 was \$32,969. These types of farms had the highest management returns for any types of farms in 1992. The rate earned on investment of 11.16 percent was the highest in the state for this size of participating farm. The average rate earned on investment in 1991 was 7.12 percent, and the 5-year average from 1988 through 1992 was 10.49 percent. The average rate earned on investment by these southern Illinois dairy farms from 1988 through 1992 was the highest of any type of participating farm with 340 to 799 acres in Illinois. In 1992, the average value of bare land on these farms was \$1,241 per tillable acre. On northern Illinois dairy farms, this value was \$1,717 per tillable acre.

The average number of milk cows per farm in 1992 was 100, compared with 96 in 1991, and 93, the past 5-year average. The average of 100 cows in 1992 was 26 more than the average on farms of

similar size and type in northern Illinois. In 1992, southern Illinois farms increased the size of their herds by 4 cows over the 1991 herd size, while northern Illinois farms also increased theirs by 4.

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 for livestock, they only need to cover direct operating costs to continue production. However, when livestock production is a new or a long-term enterprise, farmers hope to cover all fixed and variable costs. Otherwise they should not undertake the enterprise.

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 \$166 in 1992 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. The return of \$146 per \$100 feed fed for the most recent 5-year period (1988-92) was slightly below the previous 5-year period but above the 15-year average of \$144 (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 \$1,398 per cow in 1992 were \$121 above the 5-

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				
dollars												
1978 1979 1980 1981 1982	138 138	151 106 122 115 165	255 194 153 174 237	170 149 111 107 147	217 220 207 200 205	199 183 144 100 115	159 148 131 84 83	2.13 2.44 2.80 2.98 2.43				
1983 1984 1985 1986 1987	155 166 215	118 140 129 178 168	163 170 170 254 232	134 141 121 149 196	178 188 202 210 237	115 105 101 125 168	78 102 130 156 141	3.06 3.12 2.54 2.01 1.61				
1988 1989 1990 1991 1992	162 206	127 141 165 128 140	158 167 247 199 167	150 145 162 109 164	198 209 220 188 211	150 144 165 129 142	115 96 98 64 116	2.32 2.48 2.44 2.41 2.35				
Averages 1978-1992 1978-1982 1983-1987 1988-1992	172 167 179 171	140 132 147 140	196 203 198 188	144 137 148 146	206 210 203 205	139 148 123 146	113 121 121 98	2.47 2.56 2.47 2.40				

Table 10. Variation in Returns to Livestock Enterprise Units, 1988 Through 1992

	-	•			
	Farrow- to-finish hogs (per cwt)	Feeder- pig finishing (per cwt)	Feeder cattle (per cwt)	Dairy cattle (per cow)	Beef herd calves sold (per cow) ^a
Returns above co	st of fee	d and pur	chased a	nimals	
1988		\$ 6.63	\$20.56	\$1,116	\$157
1989	16.71	10.20	18.66	1,334	144
1990	27.15	15.79	25.74	1,471	203
1991	17.67	6.80	3.97	1,064	88
1992	16.45	9.39	25.40	1,398	125
Five-year					
avérage	\$18.40	\$ 9.76	\$18.87	\$1,277	\$143
Nonfeed costs, 1	988 throu	ah 1992			
Direct cash		\$ 4.20°	\$13.10°	\$ 431°	\$ 30°
Other costs	10.21b	6.50°	11.05°	632°	175°
Total	\$16.81	\$10.70	\$24.15	\$1,063	\$205
Nonfeed cost for	future pr	oduction			
Direct cash		\$ 4.35 ^d	\$13.25 ^d	\$ 440	\$ 30
Other costs	16.00	7.00	15.00	800	200
Total	\$23.00	\$11.35	\$28.25	\$1,240	\$230

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

year average of \$1,277 (Table 10). These returns indicate that the average dairy enterprise has covered the total estimated cost of production of \$1,063 per cow from 1988 through 1992.

For the beef-herd enterprise, the average returns above the cost of feed for the period from 1988 through 1992 provided a margin over cash costs, but fell short of the return needed to cover all nonfeed costs (Table 10). The implication is that the beef enterprise competes most favorably on farms where the resources of labor, capital, and management are plentiful and have few alternate uses. In the beefcow enterprise, returns above the cost of feed per cow averaged \$143 during the last 5 years. The 1992 returns of \$125 were \$80 below the total costs, estimated at \$205 per cow. The 1992 returns to the beef-cow enterprise were the second lowest during the past 5-year period.

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 619 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 operations. (Information on feeder-pig finishing enterprises is given in Table 13.) The average size of farrow-to-finish enterprises on all recordkeeping farms was 227 litters in 1992. The 1992 records summarized here for the "all farms" group show that returns of \$16.45 above feed costs per 100 pounds of pork produced were \$1.22 below the 1991 return of \$17.67.

The 5-year average for returns above feed costs per 100 pounds produced was \$18.40 (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 \$16.81 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 \$1.59 (\$18.40 minus \$16.81) may still not be large enough to make a majority of farmers or lenders feel comfortable about expanding production with borrowed capital. Risk must be carefully assessed.

The farrow-to-finish enterprise records for 1992 reported in Table 11 were also sorted by the number of litters produced. One group farrowing 350 or more litters averaged 606 litters. Compared with the average feed cost for all farrow-to-finish enterprises, the feed cost per 100 pounds of pork produced was 89 cents lower for the 606-litter group. The large producers paid \$13.40 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 57 cents higher than the net received by all producers.

roughage.

Estimates of annual nonfeed costs are based on enterprise cost studies of operative

units from 1988 to 1992.

Includes veterinary costs, utilities, fuel, equipment repair costs, and depreciation, from Table 6 in the Farm Management Manuals from 1988 to 1992.

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

Table 11. Hog Enterprises, 1992 Averages per Farm

		Farrow ente	/-to-fin rprise:			
	All	farms	litt	or more ters farm	Feed pi produ	g
Number of farms		619		110		13
Pork produced, pound Pork produced per	4	42,841	1,	165,192		87,521
litter, pound	\$1 \$1	1,950 82,228 09,327		1,922 484,699 277,300		658 48,002 28,624
feed fed	\$	166	\$	174	\$	167
farrowed		227		606		133
per litter Pigs weaned per litter Litters farrowed per		9.70 8.18		9.72 8.34		10.02 8.83
female year		1.90		2.05		2.08
Pigs weaned per female year		15.68		17.19		18.33
Number of pigs weaned		1,857		5,054		1,174
Death loss, percent of pounds produced		1.9		2.0		1.7
Weight per market hog sold, pound		238		235		54
Price received—		per 1	00 po	unds pro	oduced	
market	\$	42.78	\$	43.35	\$	67.51
Total return	\$	41.14 24.69	\$ \$ \$	41.59 23.80	\$ \$	54.84 32.71
Return above feed	\$	16.45	\$	17.79	\$	22.13
Farm grains, pound Commercial feed,		284		273		273
pound		84		_85		111
Total concentrates, pound		368		358		384
Cost per 100 pounds of commercial feed Cost per 100 pounds	\$	15.03	\$	14.36	\$	18.86
of concentrates	\$	6.68	\$	6.62	\$	8.47

A summary of the feeder-pig production enterprises is also reported in Table 11. In 1992, the average enterprise in this group produced 133 litters with a return of \$167 per \$100 of feed fed. On an average, 8.8 pigs per litter were weaned and sold at 54 pounds per head. The 1992 average price received per 100 pounds of feeder pigs sold was \$67.51 or \$36.46 per head. The average feed cost per 100 pounds of pork produced (pigs and breeding stock) was \$32.71 for 384 pounds of concentrate.

A substantial profit margin is required to compensate for the risk and detailed management involved in hog production compared with other resource uses. Large-scale hog production in modern confinement facilities requires high capital investments. The future recovery of this capital investment is uncertain. The salvage value of confinement hog facilities is low. In addition, acquiring the managerial skills for the large-scale production of hogs in confinement may discourage any rapid expansion of large

hog-producing units. However, the level of profits in recent years has resulted in an increase in production. Pork production for 1993 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 1990, 1991, and 1992. 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 149 litters from 1990 to 1992; the group farrowing 250 or more litters averaged 479 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.

As reported in Table 12, cash costs of production in 1992 ranged from \$31.22 to \$31.73 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 1992. Total nonfeed costs decreased \$1.46 per 100 pounds of pork produced (9 percent) for the small enterprises and \$1.17 (7 percent) for the large enterprises from 1991 to 1992. For both groups, both total operating expenses and total other costs decreased. With slightly lower feed costs, the total cost of production decreased from 1991 to 1992 by \$2.14 per 100 pounds of pork produced for the group of small enterprises as compared to a decrease of \$1.80 for the large enterprise group.

Table 12. Average Costs and Returns for Farrow-to-Finish Hog Enterprises by Size of Enterprise, 1990 Through 1992

	ι	Jnder 250 litter	rs	25	0 litters or mo	ore
	1992	1991	1990	1992	1991	1990
Number of farms	41	52	48	92	101	89
Tillable acres	231 155	255 155	231 138	504 466	564 495	607 475
			per 100 pounds	of pork produced		
Total returns	\$ 40.36	\$ 42.88	\$ 53.55	\$ 42.01	\$ 44.46	\$ 53.81
Cash costs Feed	\$ 25.93	\$ 26.61	\$ 28.30	\$ 24.39	\$ 25.02	\$ 25.46
Operating expenses: Maintenance and powera Livestock expenses Insurance, taxes, and overhead	3.03 1.63 1.14	3.80 1.99 1.05	4.16 2.22 .97	3.18 2.38 1.27	3.96 2.24 1.02	4.24 2.16 1.02
Total operating expenses Total cash costs	\$ 5.80 \$ 31.73	\$ 6.84 \$ 33.45	\$ 7.35 \$ 35.65	\$ 6.83 \$ 31.22	\$ 7.22 \$ 32.24	\$ 7.42 \$ 32.88
Other costs Depreciation ^b Labor Interest charge on all capital Total other costs	\$ 2.23 4.18 2.54 \$ 8.95	\$ 1.84 4.33 3.20 \$ 9.37	\$ 2.52 4.37 3.64 \$ 10.53	\$ 2.74 3.84 2.51 \$ 9.09	\$ 2.34 4.28 3.25 \$ 9.87	\$ 2.68 3.70 3.55 \$ 9.93
Total nonfeed costs	\$ 14.75 \$ 40.68 \$32	\$ 16.21 \$ 42.82 \$.06	\$ 17.88 \$ 46.18 \$ 7.37	\$ 15.92 \$ 40.31 \$ 1.70	\$ 17.09 \$ 42.11 \$ 2.35	\$ 17.35 \$ 42.81 \$ 11.00

 $^{^{\}rm a}$ Includes utilities, machinery, equipment and building repairs, machine hire, and fuel $^{\rm b}$ Includes machinery, equipment, and building depreciation.

Table 13. Feeder Cattle and Feeder-Pig Finishing Enterprises, 1992 Averages per Farm

	Feeder cattle	Feeder-pig finishing
Number of farms	214	168
Total pounds produced	168,834 \$108,919 \$ 66,026 \$ 164	167,579 \$ 54,823 \$ 39,080 \$ 140
pounds produced	1.8 658 \$ 81.64 \$ 73.41 1,153	2.1 50 \$ 74.37 \$ 42.13 245
	per 100 poun	ds produced
Total returns	\$ 64.51 \$ 39.11 \$ 25.40	\$ 32.71 \$ 23.32 \$ 9.39
Farm grains, pound Commercial feeds, pound Total concentrates, pound	581 <u>42</u> 623	277 <u>81</u> 358
Hay, pound	65 479 110 273	a a a a

a Data not available

The most significant cost difference between the two groups of farms was the feed cost. The average feed cost for 1990, 1991, and 1992 per 100 pounds of pork produced for the large enterprises was \$1.99 lower than it was for the small enterprises. This difference in feed cost was an average of about \$18,000 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 1990 through 1992, the returns above all costs averaged \$2.37 per 100 pounds of pork produced for the small enterprises and \$5.02 for the large enterprises—a difference of \$2.65. Management practices, such as the choice of building systems, method of transporting hogs to market, type of market used, and on- versus off-farm systems for feedprocessing affect the individual cost items reported in Table 12. But the return above all costs should accurately reflect the relative efficiency of the two groups of hog enterprises.

Feeder cattle and feeder-pig finishing enterprises

Data for 1992 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 167,579 pounds in 1992 (Table 13). At 175 pounds of gain per head, this figure amounted to 958 head fed per farm in 1992, up from the 927 head fed per farm in 1991.

The return above the cost of feed and purchased animals from 1988 through 1992 averaged \$9.76 per 100 pounds of gain. This return was 94 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).

Table 14. Average Costs and Returns for Beef-Feeding Enterprises, 1989 Through 1992

	1992	1991	1990	1989	1989-1992 average
Number of farms	28	34	36	40	34
Tillable acres Hundredweight beef produced Number head @ 475-pound gain equivalents	625 3,694 778	571 3,069 646	610 3,585 755	583 3,446 725	597 3,448 726
Average weight purchased, pound	673 1,163 \$ 74.12	665 1,180 \$ 72.66	654 1,133 \$ 76.77	658 1,140 \$ 72.32	663 1,154 \$ 73.97
Price paid per 100 pounds purchased	\$ 82.79	\$ 88.11	\$ 86.65	\$ 83.35	\$ 85.23
Out house		per 100	pounds of beef pro	oduced	
Cash costs Feeda	\$ 38.44	\$ 41.17	\$ 40.09	\$ 39.67	\$ 39.84
Operating expenses: Maintenance and powerb Livestock expense Insurance, taxes, and overhead Interest on cattlec	3.25 2.38 1.15 6.09	3.81 2.32 1.30 7.46	3.71 2.25 1.18 8.47	3.44 2.60 1.32 9.06	3.55 2.39 1.24 7.77
Total operating expense Total cash costs	\$ 12.87 \$ 51.31	\$ 14.89 \$ 56.06	\$ 15.61 \$ 55.70	\$ 16.42 \$ 56.09	\$ 14.95 \$ 54.79
Other costs Depreciation ^d Labor Interest on other capital	\$ 3.18 2.66 2.37	\$ 3.76 2.61 2.44	\$ 4.05 2.20 2.65	\$ 4.07 2.31 2.54	\$ 3.77 2.44 2.50
Total other costs	\$ 8.21	\$ 8.81	\$ 8.90	\$ 8.92	\$ 8.72
Total all costs	\$ 59.52 \$ 63.50	\$ 64.87 \$ 45.65	\$ 64.60 \$ 67.23	\$ 65.01 \$ 58.60	\$ 63.51 \$ 58.75
Return above all costs	\$ 3.98	\$-19.22	\$ 2.63	\$ -6.41	\$ -4.76

a 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

Given that a 475-pound unit of gain equals one head of feeder cattle, the average of 168,834 pounds of beef produced per farm in 1992 (Table 13) equals 355 head of feeder cattle per farm. That figure is an increase of 23 from the average of 332 head fed per farm in 1991. The return per \$100 of feed for feeder-cattle enterprises was \$164 in 1992 in comparison with a 5-year average of \$146 and a 15-year average of \$144 (Table 9). This was the highest return per \$100 feed fed since 1987, when it was \$196.

The price paid for feeders was \$4.30 per 100 pounds lower in 1992 than it was in 1991; the price received for cattle sold in 1992 was 86 cents higher per 100 pounds than the price received in 1991. The average weight of purchased animals was 658 pounds; the average weight of animals sold was 1,153 pounds. Feed cost was \$39.11 per 100 pounds produced in 1992; it was \$41.05 in 1991.

Each 100 pounds of beef produced required 623 pounds of concentrates and 65 pounds of hay. The amount of corn silage used in 1992 averaged 479 pounds; other silage averaged 110 pounds, making a total of 589 pounds. Silage utilization by the feedercattle 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 589 pounds per 100 pounds of beef produced in 1992 was the second 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 facil-

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 \$18.87 per 100 pounds of beef produced from 1988 through 1992 (Table 10). During this period, returns ranged from \$3.97 in 1991, to \$25.74 in 1990. 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 1992 returns above feed cost of \$25.40 were the third highest since 1975. 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 1989 through 1992 on cost and returns to produce beef

assumed to have been market ble.

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

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

Interest is a charge on the average value of beginning and end-of-year inventories on hand. The rate was 11 percent for 1989, 10 percent for 1990, 9 percent for 1991, and 7 percent for 1992.

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.

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 726 feeders each year from 1989 through 1992. The 4-year average total cash cost including feed and interest charged on cattle was \$54.79 per 100 pounds of beef produced. The average total return of \$58.75 for the same period exceeded total cash costs by \$3.96 per 100 pounds produced, or about \$19 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 \$8.72 per 100 pounds of beef produced or \$41 per feeder (\$8.72 multiplied by 4.75 hundredweight of gain per feeder) include depreciation, labor, and interest. Adding the other costs to cash costs results in total costs of \$63.51 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 1992 was \$211. The average for the period from 1988 through 1992 was \$205 (Table 9). In 1992, milk prices per hundredweight increased 12 percent from 1991 but were 5 percent below prices received in 1990. Milk prices increased an annual average rate of 8 percent for 1989 and 1990. From 1991 to 1992, beef prices for all weights sold increased \$1.09 per hundred pounds, while feed costs decreased 2 cents 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 10 in 1992. 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 70 percent higher returns above feed per cow. Returns above feed per cow for the high-efficiency group were

Table 15. Dairy Cattle Enterprises, 1992 Averages per

		All -	-		Effici	enc	Э	
	1	farms		ł	ligha			Lowb
Number of farms		178			57			62
Number of cows		69.5 12.9 127			69.7 12.6 133			64.8 12.8 119
Total returns		184,611 87,431			12,984 91,058		\$1 \$	147,168 80,587
feed fed Returns above feed	\$	211	9	5	233		\$	182
per cow Total milk produced,	\$	1,398	\$	5	1,749		\$	1,027
100 pounds Pounds of milk		11,902			13,058			9,998
per cow Pounds of butterfat		17,125			18,734			15,429
per cow Total beef produced,		637			702			570
poundPounds of beef		47,686			57,309			37,494
per cow Death loss, percent of		686			822			578
pounds produced Price received for:		9.0			6.7			12.7
100 pounds of milk 100 pounds of beef Per unit of milk and beef:°	\$ \$	13.07 60.54	\$	5	13.29 63.57		\$ \$	12.89 56.59
Feed cost Grain, pound Protein and	\$	52.44 306	\$	5	48.46 297		\$	58.61 327
minerals, pound		<u>110</u>			102			125
Total concentrates, pound		416			399			452
roughage, pound Corn silage, pound Other silage, pound Pasture days		250 475 439			217 436 376			296 547 504
Pasture days per animal unit		10			11			12
Hay equivalent per cow, ton		7.4			7.4			7.7
Concentrates per cow, pound		9,978			10,755			9,586

 ^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, 1990 Through 1992

	40 1	to 79 cows in t	herd	80 or m	nore cows in h	nerd
	1992	1991	1990	1992	1991	1990
Number of farms	81	80	102	52	59	57
Tillable acres	269 58.9 16,883	259 57.6 16,789	295 57.3 16,625	426 106.2 17,807	522 107.9 17,056	468 108.4 17,012
			per 100 pound	s of milk produced		
Price received	\$ 13.25	\$ 11.82	\$ 13.87	. \$ 13.07	\$ 11.90	\$ 14.03
Cash costs Feed	\$ 6.35 1.20 1.18 .21 \$ 2.59	\$ 6.23 1.17 1.13 .26 \$ 2.56	\$ 6.38 1.42 1.11 .28 \$ 2.81	\$ 6.08 1.28 1.12 .21 \$ 2.61	\$ 6.02 1.35 1.13 .26 \$ 2.74	\$ 6.14 1.51 1.11 .23 \$ 2.85
Total cash costs	\$ 8.94	\$ 8.79	\$ 9.19	\$ 8.69	\$ 8.76	\$ 8.99
Other costs Depreciation ^b Labor Interest charge on all capital	\$.73 1.66 1.22	\$.61 1.59 1.34	\$.82 1.81 1.56	\$.63 1.36 .97	\$.67 1.49 1.30	\$.76 1.50 1.49
Total other costs	\$ 3.61	\$ 3.54	\$ 4.19	\$ 2.96	\$ 3.46	\$ 3.75
Total nonfeed costs	\$ 6.20	\$ 6.10	\$ 7.00	\$ 5.57	\$ 6.20	\$ 6.60
Total all costs	\$ 12.55	\$ 12.33	\$ 13.38	\$ 11.65	\$ 12.22	\$ 12.74
Return above all costs	\$.70	\$51	\$.49	\$ 1.42	\$32	\$ 1.29

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

\$1,749 and \$1,027 for the low-efficiency group. For the high-efficiency group, two factors were most significant: 21 percent higher milk production per cow—an average of 18,734 pounds, compared with an average of 15,429 pounds for the low-efficiency group—and a 17 percent lower feed cost per unit of milk and beef produced.

The average return above feed costs per cow for all dairy herds was \$1,398 in 1992 (Table 15). This figure compares with the 5-year average of \$1,277 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 \$1,063 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.

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 1990 through 1992. 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 1988 through 1992. 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 1990 through 1992 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 2 cents higher, while total nonfeed costs per 100 pounds of milk sold were 31 cents lower. The major cost difference was 24 cents less for labor on the large farms.

In 1992, feed costs per 100 pounds of milk produced increased slightly for both groups. The cost of feed averaged about 50 percent of total production costs in Illinois dairy enterprises. Total nonfeed costs increased 2 percent for the small dairy herds but decreased 10 percent for the large dairy herds when compared with costs in 1991. The total cost of producing 100 pounds of milk in 1992 was \$12.55 for the small herds and \$11.65 for the large herds. The average price received for milk in 1992 increased for both groups of dairy enterprises. This resulted in returns above total production costs of 70 cents and \$1.42, respectively, for both the small and large enterprise groups in 1992. 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 1990 through 1992.

Table 17. Beef-Cow Enterprises, 1992 Averages per Farm

All farms	Calves sold	Calves fed out
254	72	62
72 34,394	52 70 24,606 473	44 77 47,885 1,088
\$25,117	\$20,690 \$15,355	\$31,127 \$21,584
. \$ 142	\$ 134	\$ 144
\$ 158 1,562	\$ 102 1,788	\$ 216 1,511
4.5	7.2	3.1
806	608	1,051
	\$ 81.13	\$ 72.35
•	roo pounas p	roduced
\$ 51.39 268	\$ 62.40 204	\$ 45.07 311
	_34	_35
. 304	238	346
	983 317	446 371
		221
	73 47	19
. 144	166	120
. 5.7	5.3	6.1
	254 47 72 34,394 732 \$25,117 \$17,678 \$ 142 \$ 158 1,562 4.5 806 \$ 78.32 per \$ 51.39 268 304 651 355 134 30 144	All farms sold 254 72 47 52 70 34,394 24,606 732 473 \$25,117 \$20,690 \$17,678 \$15,355 \$ 142 \$ 134 \$ 158 \$ 102 1,562 1,788 4.5 7.2 806 608 \$ 78.32 \$ 81.13 per 100 pounds pt \$ 51.39 \$ 62.40 268 204 36 34 304 238 651 983 355 317 134 73 30 47 144 166

This amounts to \$10,779 more in returns per farm per year for herds in the large-size group. In general, returns to dairy farmers rebounded fairly well after the low returns experienced in 1991.

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 47 cows in 1992. Most Illinois farmers who maintain a beefcow herd do so as a supplemental enterprise to market nonsalable feeds and labor.

Table 18. Sheep Enterprises, 1992 Averages per Farm

	Native flocks
Number of farms	42
Wool and mutton produced, pound	6,751 \$3,344 \$2,868 \$ 116
Percent lamb crop Death loss, pound Percent of pounds produced	147 574 8.5
Price received	oduced \$48.51 \$42.48
Concentrates, pound	280 533 0
Pasture days Hay equivalent, pound	14 904

The return per \$100 of feed fed to beef-cow herds averaged \$142 in 1992. The return for the 5-year period from 1988 through 1992 averaged \$146, which is above the 15-year average of \$139 for the period from 1978 through 1992 (Table 9). Beef prices received in 1992 averaged \$78.32 per hundred-weight, an increase of 94 cents over beef prices in 1991. Feed costs per 100 pounds of beef produced increased by \$2.74 to \$51.39 in 1992.

Since 1988, the return above feed cost per cow for the average farmer to feed out calves rather than to sell them at weaning has been about \$82 per cow. Additional returns are needed for the added costs of labor, buildings, and the capital required to feed out the calves. In 1992, return above feed cost for feeding calves to market weight was \$114 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 1992 was \$116 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 increased from \$42.82 per hundredweight in 1991 to \$48.51 in 1992, while feed costs per hundredweight produced decreased by \$7.90 to \$42.48. Most Illinois farmers who keep sheep do so as a supplemental enterprise in order to market nonsalable feeds and labor.

			·	
Costs, returns, yields for diffe in Tables 19 to	erent sizes and	maries, invest d types of Ill	ments, land u inois farms a	se, and crop are reported

Table 19. 1992 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

with Soil Ratings from 86 to 100 Range in size (total acres) 180-339 Management returns	n 86 to 100 180-339	340-79	<u> </u>	← (Your Farm	- 18 -	Low 25%	340-799 High 25%
	09	4∥	← -	13		4	9	' 11
	278 268	572 551	969 937	1548 1500		803	503 478	645 629
Soil rating on tillable land Total months labor	92 11.5	92 13.0	92 16.5	92 25.0		92 15.6	92 13.1	93 12.7
Months of hired labor Beef produced, hundredweight	0. 4.L	4.	4 w	o.		8. 4.0	2.0	1.0
veight	00	.00	ı-0	0		1-0	000	0
	, C	6	0				0	0
Crop returns Livestock returns above feed	69,527 (16)	192,034	79	4 L		Ωα	150,302	230,838 51
	1,052	86	2	,78		3	2	4
Other farm receipts Value of farm production	923	1,581	339.225	3,798		1,929		1,588
Crop expenses Power and equipment	20,343 14,611	_ <	97	27		90	2 5	43,171
	5,192	8,84	2,71	9,54		1,23	9,68	8,61
:	17,166	50	5,32	8,89		3,83	78	5,
Livestock services and supplies Taxes	7 9 9 9 9	72	77	იი იი ი		27	ე გ	20
Insurance and miscellaneous	3.247	5,38	8,45	3,08		7,35	32	5,0
Interest on nonland capital	5,311	0,19	7,76	30,12		4,86	23	0,73
Land charge or net rent	25,501	\sim $ \sigma $	99	90		7,7	6,03 2,77	78
Capital account adjustment	837	923)	2,045		1,029		1,315
0	(4,884)	_	0	41		99	D.	0,
\$1.00	0.94	1.11	1.18	1.22		1.16	0.91	1.29
Farm production per man	95,615	180,994	246,229			214,948	140,712	228,227
Financial summary Cash operating income	83.603	1,65	3	1.39		4.34	S	8
	4,405	\sim	31,1	52,30		24,35	3,05	88
Accts. receivable (net change)	3,456	ور د 80 د	5,1	3,92 6,2		12,481	2 ₀	1,13
Less purchased feed	22		541	210		- m	536	-0
Less purchased livestock	21	4	3	39		7	3	1
Adjusted gross farm income	91,485	~ ~	339,225	\sim		280,306	3,75	1,41
Cash operating expense Prepaid expense (-if increased)	44,509	2,08	37,7 1,0	19,10 0,10		14 α΄ τ	S {	ي 20 د
Accts. payable (+if increased)	123	2,7	ó 4	55.		-໌ ເນ	- 4	9,8
Farm-produced inputs	56	22	7	61		401	7	39
Total operating expense	44,260	<u> </u>	140,805	29		117,701	\sim	8
licollie belore depreciation	47,445 5,462	1 Q	ν ο υ 4 σ	20,02 20,03		17,0	7,6 0,6	ら,ひ 4 ひ, 1
Capital account adjustment	837	S	1 2ُ ه	2,04		, L	46	1,31
*	42,600 18,464	100,399	177,113 74,068	295,009 120,374		146,016 61,581	58,824 21,304	143,125 65,135
Labor & mgt. income per operator	11,537	Oc	8,	02,66		ကို	2,43	3,49
Note: Variations in totals due to rou	5.70	- i =	Forms with soil	_ I `	to 100 are tho	Virgon dtive oo	^! -	ומ

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.

* Interest expense deducted from operator's share only. Shown in parentheses because it pertains to operator's net farm income only.

Table 19a. 1992 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

GIAILLI MILLS WILL SOIL BALLIGS HOLL	III nauigs iidii	001 01 001						
Range in size (total acres)	180-339	340-799	800-1199	Over 1199	Your Farm	All Farms		340-799
Management returns							Low 25%	High 25%
Number of farms	09	441	214	132		847	110	110
Some costs and returns per tillable acre								
Soil fertility	33.83	34.39	33.61	32.58		33.59	36.95	31.35
Pesticides	23.66	23.46	23.91	23.80		23.71	26.39	20.35
Seed and other crop	18.53	18.44	18.46	17.90		18.29	19.96	16.94
Crop total	76.02	76.29	75.99	74.29		75.59	83.27	68,64
Light vehicle and utilities	6.39	4.08	3.23	2.58		3.43	4.36	3.76
Machinery repairs, supplies	16.89	13.74	13.04	12.04		13.09	15.38	12.68
Machinery hire	7.48	4.98	4.51	4.32		4.70	66.9	4.21
Fuel and oil	9.29	7.87	7.91	99'.		7.85	8.19	7.72
Machinery depreciation	14.55	18.08	19.76	19.29		18.87	22.88	16.09
Power and equipment total	54.60	48.74	48.45	45.89	-	47.94	57.79	44,46
Drying and storage	11.53	11.22	8.59	7.89		9.45	12.21	10.22
Building repair	2.00	1.26	1.27	1.08		1.23	2.34	06.0
Building depreciation	5.87	3.59	3.71	4.06		3.83	5.70	2.57
Building total	19,40	16.07	13.57	13.03		14.47	20.25	13,69
Labor, unpaid	62.30	31.54	19.93	14.55		23.63	34.75	27.87
Labor, hired	1.84	3.88	7.11	11.38		7.07	6.62	2.50
Labor total	64.14	35.41	27.04	25.93		30.71	41.37	30.37
Value of feed fed	0.12	0.09	0.16	0.20		0.14	0.05	0.08
Capital purchases	21.57	24.27	24.04	25.58		24.53	35.34	20.29
Operator interest paid	16.73	15.73	15.88	15.87		15.84	17.06	14.43
Crop returns	334.53	348.71	356.55	362.18		354.81	314.30	376.54
Livestock return above feed	(0.06)	0.16	0.28	0.32		0.24	0.05	0.08
Value of farm production	341.85	355.35	362.21	368.89		361.19	321.53	383.82
lotal nonfeed cost	363.23	319.59	306.66	301.98		311.41	351.89	296.76
Management returns	(18.25)	37.44	26.27	68.28		51.11	(29,38)	89.15
Faim Investment	į	,	1					1
Livestock Inventory	451	148	728	1,239		486	120	125
Grain inventory	26,807	5///311	781,881	331,815		166,327	100,529	137,825
	7					70,	000	
macrimery and auto	12,70	20,000	52,450 000	95,605		42,421	29,239	23,549
soil fertility	9,20	- 70,4 - 70,0	850,22 38	30,753		180,81	0,000	4,4 ע א
Value of land (current)	607 162	1 243 347	2 095 009	3 348 726		1 741 569	1 095 943	1 399 660
Total farm investment	686 499	1 399 865	2 370 209	3814277		1 970 767	1 244 219	1 575 684
Total investment per acre	2.467	2.449	2.445	2,465		2,453	2 474	2 443
Machinery invest, per till, acre	48	47	56	64		1 22		37
Percent tillable land in	!			•		}	;	5
Corn and corn silage	52.0	51.0	49.7	50.7		50.5	51.6	50.7
Soybeans	45.2	45.2	46.7	45.2		45.7	43.7	46.5
Wheat	0.0	0.1	0.2	0.1		0.1	0.2	0.0
Other small grain	0.0	0.1	0.0	0.1		0.1	0.4	0.0
Diverted acres	2.3	2.5	2.5	2.7		2.6	2.6	2.5
All hay and pasture	0.2	0.2	0.1	0.1		0.2	0.5	0.1
Crop yields, bushels per acre	1		. !	į			,	
Con	165	169	174	177		173	153	182
Soybeans	747	4 c	40 0	20		04.4	46	20
VVIIcal	40	000	ဂိ	25		24	4	က်

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 20. 1992 Average Return, Costs, and Financial Summary by Size and Management Returns for Northern and Central Illinois Grain Farms

340-799	Low 25% High 25%	76	540 677 497 654	~ C	· ·				8 231,46	84	7,62	17 73	04'00'3	3,289 43,20	,572 26,99	9,899 7,59	,141 20,73	290 9 21	,493 6,37	9,782 9,99	39,864 49,450	1,504	285) 62,67	1 2	126 448 201 882		8-7	Ť	114		7777	, œ	364		89	7,307		1,000	49,366 141,451	
All Farms	2 1	თ∥•	842 797	17 77 17 5	2.7	4 -	-0	,	2	97	ז ני	266,193	2	9,10	7,49		3,74 10	$\frac{1}{2}$	7,38	3,44	61,770	10,0	38	-	206.108			1 —	32		66 19	7	,42	603	29	4՝ - ն գ	17,03	1,20	135,813	֡ ֡ ֡ ֡ ֡ ֡
Your Farm	5																																							
Over 1199	-	ກ∥∙	1,714 1,609	97 %	, ,	<u>o</u> -	-0	;	521,173	א מ	۰ ک	532 154	, ,	7,56	2,53	٦ م	ر ا ا	3.57	2,87	26,60	122,600	2,10	63	1 23	1 4		0,0 0,0	- 4	74	ω <	32,15	9	9	4 (73	ວັດ ວັດ	33,47	2,94	276,010	
800-1199		ດ∥o	964 916	15,6	 	nc	00	,	ΩL	<u>ე</u> (1α	310,792		8,46	3,51	۷,	رد 10,0	2.1	8,68	5,80	70,836	66 00 00	6	1 20	239.645		って	, (က	1,207	10.7	129,167	2,1	251	4	-α ,α	20,2	တ	159,071	
340-799			വയ വയ വ	13.7		7-	0	Ĺ	~ C	25	~ 0	185 633		41	2,	4 r	5 5	75	3	32	43,893	36	—	-	165.190		νс	7,403	228	316	185.634	ເດ	_	252	195	4 4	11,658	ത	93,652	
m 56 to 85 180-339	, , , , , , , , , , , , , , , , , , ,	45	272 256	12.1	0.2	70	00	,	84,/11	27-C	1000	86,668		20,967	14,919	3,972	066,	3.976	3,035	4,874	20,794	533	(3,414)	96 0	86.285	000 62	9,468	4,191	39	<u>ი</u> (86.668	40,450	809	(49)	11 025	45,643	6.206	533	39,969	!!
with Soil Ratings from 56 to 85 Range in size (total acres)	Management returns	Number of farms	Total acres in farm Acres of tillable land	Soil rating on tillable land Total months labor	Months of hired labor	beet produced, nundredweight Pork produced, hundredweight	Dairy cows, number	Dollar returns per farm	Crop returns	Livestock returns above reed	Custom work	Value of farm production	Dollar costs per farm	Crop expenses	Power and equipment	Building and fence	Labor Livestock services and supplies	Taxes	Insurance and miscellaneous	Interest on nonland capital	Land charge or net rent	Capital account adjustment	Management returns	Farm production per \$1.00	Farm production per man	Financial summary	Cash operating income	Accts. receivable (net change)	Farm products used	Less purchased feed	Adjusted gross farm income	Cash operating expense	Prepaid expense (-if increased)	Accts. payable (+ if increased)	Total constating expense	Income before depreciation	Less depreciation	Capital account adjustment	Net farm income * (operator's share) *	מביים כי מיים מיים

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.

* Interest expense deducted from operator's share only. Shown in parentheses because it pertains to operator's net farm income only.

Table 20a. 1992 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

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Hange in size (total acres)	180-339	340 – 799	800-1199	Over 1199	Your Farm	All Farms	340-799	
Management returns	!		į	,			Low 25%	High 25%
Number of farms	45	303	150	97		295	76	9/
Some costs and returns per tillable acre								
Soil fertility	37.23	31.72	32.42	33.61		32.68	37.58	27.71
Pesticides	25.58	23.46	24.52	22.31		23.44	27.36	21.36
Seed and other crop	19.08	18.93	17.81	17.13		18.02	22.22	17.04
Crop total	81.89	74.11	74.74	73.05		74.13	87.15	66.10
Light vehicle and utilities	6.64	4.60	3.79	3.14		3.93	2.09	4.01
Machinery repairs, supplies	14.57	13.26	11.98	11.89		12.47	17.35	11.39
Machinery hire	10.08	5.26	4.74	4.04		4.83	7.12	4.62
Fuel and oil	7.24	7.74	7.70	8.26		7.89	8.60	7.40
Machinery depreciation	19.73	16.81	19.29	17.73		17.90	21.38	13.88
Power and equipment total	58.27	47.67	47.51	45.07		47.03	59.54	41,30
Drying and storage	8.87	9.73	9.05	8.26		9.03	10.49	8,15
Building repair	2.13	1.71	1.47	1.31		1.52	2.97	0.78
Building depreciation	4.51	4.02	3.31	3.07		3.52	6.47	2.68
Building total	15.51	15.46	13.83	12.64		14.06	19.93	11.61
Labor, unpaid	69.19	32.96	20.45	14.40		24.11	38.26	29.57
Labor, hired	1.07	2.95	5.33	7.36		5.05	4.30	2.15
Labor total	70.26	35.91	25.78	21.76		29.15	42.56	31.72
Value of feed fed	0.07	0.11	0.16	0.25		0.17	0.13	0.08
Capital purchases	22.01	23.45	26.37	24.63		24.65	33.01	15.78
Operator interest paid	12.28	18.12	16.65	19.58		18.03	17.14	16.80
Crop returns	330.84	325.97	332.94	323.83		327.40	291.41	354.16
Livestock return above feed	0.49	0.20	0.17	09:0		0.33	0.17	0.14
Value of farm production	338.49	332.17	339.28	330.66		333.88	296.38	360.27
Total nonfeed cost	353.91	294.39	281.65	268.09		283.49	337.23	265.64
Management returns	(13.34)	39.39	58.62	64.40		51,91	(38.83)	95.90
Farm investment	,		1					
Livestock inventory	203		815	1,409		226	193	21
Grain inventory	52,300	94,669	153,390	254,003		132,244	82,159	115,779
Hemaining cost in	;							
machinery and auto	11,464	24,900	53,616	88,916		41,559	30,738	24,456
buildings and tence	8,330	14,510	19,195	32,982		18,235	20,455	10,439
soli rerdiity	21	4/	88	6		9/	134	53
Value of land (current)	495,099	1,045,068	1,686,570	2,919,057		1,470,704	949,146	1,177,381
Total rarm investment	567,408	1,179,423	1,913,666	3,296,453		1,663,368	1,082,826	1,328,131
Moshings into the street	2,088	2,006	986,r	529, r		1,975	2,005	1,961
Macrifically Invest: per till; acre	4	1	60	22		25		3/
Corn and corn silage	0.74	4	0	4		r c	0 0	7 7 7
Southerns	2 6	5. CA					0.00	1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
Wheat	. 0	5.0) e	9 0		† @ †	- œ	5.0
Other small grain	9.0	0.1	0.1	0.0		0.0	0.0	
Diverted acres	3.6	3.4	2.9	3.4		3.0	3.1	89
All hay and pasture	1.0	4.0	0.5	0.4		4.0	0.7	0.2
Crop yields, bushels per acre								
Corn	153	153	154	155		154	138	163
Soybeans	46	46	47	46		46	42	48
Note: Vorietions in tatals due to communications to the	03		40	75. 57		43	55.	/9
	שמו מנו כו כעור	TOP TO THE PERSON	T OPERATOR TO SERVE OF	TOUGHT OF STREET	THE POST OF THE POST OF THE PARTY OF THE PAR	2000 00000	TOCCULA COC IIIO	

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. 1992 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

Soil Ratings from 86 to 100 Range in size (total acres) 60-25	to 100 60-259	260-499	500-799	Over 799	Your Farm	All Farms	Σį	oge
SL	16	38	40	34		128	21-27 32	\sim
Total acres in farm Acres of tillable land	191	377	635 602				663 617	782
Soil rating on tillable land	92	0	91	0000		91	90	ന
Months of hired labor		¿۲.,	22.1	20.0 20.0		15.0	; ത്!	
Beet produced, hundredweight Pork produced, hundredweight Dairy cows, number	2,396 2,396 0	4,849 838 0	101 6,569 0	299 8,428 0		6,028 0	2/0 5,342 0	7,150
Dollar returns per farm	•	1 						
Crop returns	58,883	111,784	201,048	345,337		195,104	200,161	264,977
2000	106	7,0	1,14	3,05		1,51	1,45	1,59
Other farm receipts	401	72	8	3,91		2,49	2,33	1,92
Value of farm production	97,878	ת	310,911	Ď		ď	28	ည်
Crop expenses	13,879	6,02	2.76	0,44		4.19	4.91	0.26
Power and equipment	20,695	6,64	1,24	5,67		2,23	9,11	6,57
Building and fence	7,370	13,680	23,629	34,292		21,475	17,819	31,531
Labor Livestock services and supplies	4 781	0,7	, , , ,	4,0 0,0) ((((, t	20,00
soundance of the sound	4,153	7,037	3,86	2,6		3,43	2.62	5,53
insurance and miscellaneous	3,767	99	9,72	6,57		9,59	7,99	2,38
Interest on nonland capital	8,929	7,56	7,01	5,01		6,72	4,99	4,96
Land charge or net rent	17,324	0,0	64	7,98		က္လ	41	69,60
Capital account adjustment	104,40 104,40	, t , t	ν, α Δα	4,47 2,76		0,0 11	2,43	0 0 0 0
Management returns	(6,584)	-8	76	27		- 8	2,02	4,7
Farm production per \$1.00	0 0						٠,	
Farm production per man	81.914	114 891				125 120	143 336	139 692
Financial summary) (/)		
ng income	150,370	٥ 4	418,678	ω, ω,		2,4	82	4 (
inventory change Accts. receivable (net change)	2,662	8,400	$\supset \infty$	ነገ ጥ		۵,7 74) 0 0 0 0	6,249 9,735
Farm products used	168	3	649	1,02		58	9	. 0
Less purchased feed	46,962	4	100,135	17		0	Ψ.	0
Less purchased livestock	15,493	2,63		44,72		6,10	31,64	9,7
Adjusted gross rarm income	97,828	2,23	1 C	8,63		3,66	9,78	ກຸດ
Cash operating expense	1,557	ນ,ນ ນຸດ ນຸດ	` -	44,35 25,00		ر 4 ز	2/,/8	'nς
Accts, payable (+if increased)	765,- 666	\circ	(103)	24 46		<u>,</u> –	ນ ແ	א ני
Farm-produced inputs	0	1	274	1		- 0	າເດ	571
Total operating expense	52,908	2,84	49	7,56		6,51	0,08	9'9
Income before depreciation	44,920	LO 0	161,871	61,06		5,	20	10,2
Less depreciation Capital account adjustment	8,803 51	2,5	ກຕ	8,03 2,46		9,7 9,1	7,07 2,08 2,08	
Net farm income * (operator's share) *	36,168	90,033	135,259	216,797		131,104	135,171	166,037
Labor & mgt. income per operator	9,259	7,35	$^{\circ}$	52,83		2,75	4,64	, , ,
אפצוווופווו, יי	0.7.5	、 □	0.83	+		Ωl	~ I	0.8

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.
* Interest expense deducted from operator's share only. Shown in parentheses because it pertains to operator's net farm income only.

Table 21a. 1992 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

	010	000	1	1		L		
Manage in size (total acres)	607-09	200-499	88/-00c	Over 799	Tour Farm	All rarms		_
Management retuins		;					17-17	95 I IS
Number of farms	16	38	40	34		128	32	11
Some costs and returns per tillable acre	1							
Soil fertility	29.23	30.03	28.63	33.04		30.95	30.73	35.04
Pesticides	26.20	22.22	25.10	26.34		25.21	23.79	27.81
Seed and other crop	20.28	20.85	17.31	18.39		18.56	18.30	19.80
Crop total	75.71	73.10	71.04	77.77		74.72	72.82	82.65
Light vehicle and utilities	24.23	16.55	13.14	13.26	,	14.23	10.40	13.96
Machinery repairs, supplies	34.09	25.86	23.44	22.03		23.63	21.45	23.46
Machinery hire	7.41	11.37	7.39	8.32		8.53	8.02	6.47
Fuel and oil	18.62	15.13	13.63	11.09		12.91	11.52	11.26
Machinery depreciation	28.55	34.03	27.54	28.11		29.00	28.22	36.15
Power and equipment total	112.89	102.93	85.13	82.82		88.31	79.62	91.30
Drying and storage	11.91	8.68	8.97	7.33		8.27	7.70	8.71
Building repair	8.83	90'9	8.88	7.51		7.74	5.59	7.45
Building depreciation	19.47	23.65	21.41	18.31		20.30	15.60	27.08
Building total	40.21	38.42	39.26	33.15		36.31	28.89	43.24
Labor, unpaid	90.01	57.32	32.96	24.82		35.74	36.86	28.43
Labor, hired	38.55	31.87	35.15	35.93		35.06	21.81	52.38
Labor total	128.56	89.19	68.11	60.75		70.80	58.67	80.81
Value of feed fed	363.62	328.54	277.71	209,66		258.51	234.57	236.17
Capital purchases	31,36	53.55	48.74	54.96		51.81	44.95	51.16
Operator interest paid	48.26	38.42	32.12	29.01		32.43	29.59	27.30
Crop returns	321.22	212 08	334 01	222 87		320 RS	22A 40	26.3.20
livestock return above feed	200 68	240.64	174.28	151 12		176 75	138.34	189.81
Value of farm production	533.67	559.78	516.53	491.12		513.39	468 98	558.03
Total nonfeed cost	569.87	517.96	466.83	448.81		471.59	421.91	504.79
Management returns	(35.92)	53.37	54.43	46.53		47.07	51.92	55.87
Farm investment	•							
Livestock inventory	46,599	81,007	118,474	170,177		112,100	110,423	130,534
Grain inventory	36,811	80,199	128,149	233,377		130,448	133,926	164,573
Remaining cost in								
machinery and auto	15,046	35,606	47,464	88,932		20,906	48,784	73,790
buildings and fence	18,640	41,419	69,854	121,193		68,648	54,095	107,812
soil fertility	0	63	0	286		174	512	254
Value of land (current)	412,474	786,979	1,324,935	2,332,906		1,318,914	1,319,450	1,657,216
Total farm investment	529,570	1,025,273	1,688,877	2,947,171		1,681,190	1,667,191	2,134,178
Total investment per acre	2,766	2,716	2,659	2,441		2,566	2,513	2,728
Machinery invest, per till, acre	82	100	62	98		98	6/	101
Percent tillable land in	i.	Ċ	I	i		l L		C C
Corn and corn snage	00.0 0.0	50.1	57.7	54.3		55.7	28.8	52.2
Soybeans	υ. Σ. α	36.3	36.7	38.2		87.8	32.1	42.3
Wileal Other ome! arein	O 4	ا ان	2.0	0.0		4. 4	ο •	0.0
Other strian grain	- 0		- 0	0 0		- 1	- c	0.0
Diverted acres	7.7	4.0	80.00	8 V		7.7	9 0	9 10
Crop violds bushols por sore	7:7	0.0	9. 9.	<u>ο</u> .		<u>}:</u>	0.7	7.7
	150	153	4.	163		150	157	177
Sowbeans	36-	5 6	2 5	3 8		65	2 5	ָב על ב
Wheat	1 €	6 4 0 4	4 (Q	2 to		4 r.	4 4 9 6	000
Note: Westigations in totals due to remains to	+	01100000	it and it is a state of the sta	, -4 00 mm		Are on Hei	of Local case Inches In	oli o oli o

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. 1992 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	m 56 to 85							
Range in size (total acres)	60-259	260-499	200-799	Over 799	Your Farm	All Farms	≥r	Ιōα
Number of farms	42	69	71	58		240		21-23
Total acres in farm Acres of tillable land	189 173	375 331	641 557	1,136 966		605 524	668 575	
Soil rating on tillable land	4 ⁷ 2	77	75	_		27.6	~	74
Months of hired labor	2.6	0++	11.5	,		10.5	24.7 8.5	19.6 19.6
Beet produced, hundredweight Pork produced, hundredweight Dairy cows, number	3,069 1	3,112 0	238 5,693 0	448 7,469 0		4,921 0	240 5,422 0	8,580 0
Dollar returns per farm	6	,	1					
Crop returns Livestock returns above feed	52,220 49,216	α σ	ა, გ	,37 64		11,	ر 120	બ્α
Custom work	421	1,23	2,05	3,99		2,00	1,76	1,6
Other farm receipts Value of farm production	102 549	154 980	270.341	4,546		2,840	2,708	8,904
Dollar costs per farm)	}			1))	:
Crop expenses	13,566	4,35	1,80	0,18 18		8,70	1,53	26,0
Power and equipment Building and fence	26,793 11 567	ر د د د د د	ν.α - 'α	7,25		ο V V V	2,23	4, 4 7, 4
Labor	23,118	25	SS	6,84		36		4,4
Livestock services and supplies		7,09	2,54	6,60		76,0	65	8,89
Laxes	0,0,0 ORI-	٥	, כ ס'ס	, א ני ק		o์ ส บัก	2,7 2,0	- r v c
Instruction nonland capital	11,272	4,59	3,61	0,70		3,00	3,83	4.88
Land charge or net rent	13,226	26,559	43,491	76,726		41,359	44,844	50,252
Capital account adjustment	540	2,5	ນ ວັດ	3,43 1,53		, 2, 7,), 7,7	5,7 2,2
Management returns	(11,035)	· (n)		်ဆို		, 4	tω	2 (1
Farm production per \$1.00	06 0					C		
Farm production per man	79,933	. ^		140,617		122.032	. ~	124.165
Financial summary	169 997	. 0		ď		, 0	C	, 6
Inventory change	3.116	90,0	71,18	0,73 0,43		50,00 00,00	ς ο ο	טֿ ת
Accts. receivable (net change)	2,643	5,743	7,79	4		~	6,873	,''
Farm products used	243	41,	51	92		54	<u>ب</u> کا	7 10
Less purchased feed	58,804 14 541	0,7 0,7 7,0	χ, - Σ α),),),),		7,07	ے د کے د	_`C
Adjusted gross farm income	102,551	155,001	70,34	37,57		·m	68,1	71,7
Cash operating expense	53,559	3,07	4,66	0,43		3,49	5,4	ر فر
Prepaid expense (-if increased)	594	8	55	5,87		2,57	2,9	3,4
Accts, payable (+If increased) Farm-produced inputs	37	102	ソイ	Ωα			84	846
Total operating expense	54,196	4,36	7.80	26.75		6.43	28.6	6.5
Income before depreciation	48,355	80,639	3	_		\sim	139,505	175,162
Less depreciation	16,290	6,53	4,63	5,45		5,88	O,r	် ဝ
Net farm income * (operator's share) *	32,605	64,377	107,991	166,915		96,499	110,978	137,062
0	7,640	2,0	2,0	, 4 , 8		7,43	כ סס	י טׄמ
Rate earned on investment, %	2.91	5,2	6.5	6.0		5.8	ა, ი,	ر'ہ 0'ہ
Mister Western State of				١.	10			

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 so * Interest expense deducted from operator's share only. Shown in parentheses because it pertains to operator's net farm income only.

Table 22a. 1992 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

TOUR PAITINS WILLI SOIL PAITINGS HOITI	nathigs if of	וכ						
Hange in size (total acres)	60-22	260-499	667-006	Over 799	Your Farm	All Farms		Months of Labor
Management returns							21-27	31 – 39
Number of farms	42	69	71	58		240	52	21
and returns per tillable	acre							
Soil fertility	29.20	30.06	32.92	29.16		30.51	29.18	30.50
Pesticides	28.28	24.83	22.98	23.57		23.88	24.07	23.83
Seed and other crop	20.92	18.64	19.08	19.89		19.47	19.00	19.66
Crop total	78.40	73.53	74.98	72.62		73.86	72.25	73.98
Light vehicle and utilities	28.31	15.02	15.21	11.25		14.17	13.21	16.84
Machinery repairs, supplies	41.32	24.93	25.53	22.06		24.79	25.31	25.25
Machinery hire	13.67	9.26	7.34	5.69		7.32	5.62	9.35
Fuel and oil	20.17	13.51	12.98	12.92		13.46	14.91	12.36
Machinery depreciation	51.38	32.57	27.06	28.02		29.90	31.91	25.39
Power and equipment total	154.85	95.29	88.12	79,93		89.63	96.06	89.19
Drying and storage	9.48	8.05	8.01	6.45		7.41	7.57	5.99
Building repair	14.68	8.86	7.18	8.92		8.69	60.9	13.07
Building depreciation	42.70	17.37	17.09	19.00		19.47	18.65	31.09
Building total	66.85	34.28	32.29	34.36		35.57	32.31	50.15
Labor, unpaid	110.64	61.25	36.42	24.41		39.86	42.31	35.56
Labor, hired	22.98	15.02	37.20	44.76		35.72	25.20	58.33
Labor total	133.61	76.27	73.62	69.16	1	75.58	67.52	93.89
Value of feed fed	486.97	279.13	278.11	210.47		260.22	258.88	328.83
Capital purchases	64.84	45.70	44.85	62.26		53.92	41.90	57.41
Operator interest paid	47.66	25.36	39.72	30.34		33.39	31.86	48.06
Crop returns	301.81	307.97	300.20	304.60		303.67	303.00	305.16
Livestock return above feed	284.45	152.18	173.61	139.33		160.84	155.69	218.97
Value of farm production	592.68	467.99	484.93	452.77		473.74	466.47	539.49
Total nonfeed cost	626.29	459.96	448.19	427.65		453.39	436.18	501.04
Management returns	(63.78)	8.87	36.91	26.73		21.46	31.24	39.80
rarm investment	i c	0				1	1	
Livestock inventory	52,190	72,870	113,193	161,387		102,572	109,853	158,932
Grain inventory	35,258	68,548	98,563	182,084		99,040	109,087	126,047
Hemaining cost in	,		1					
machinery and auto	22,146	29,465	45,787	81,982		45,704	52,824	60,149
Dulidings and lence	040,000	10,82	128,16	091'CLL		58,422	51,767	103,263
	50.00	0 000	124	- 6		9/	//	371
Value of land (current)	314,916	632,366	1,035,499	1,826,810		984,730	1,067,721	1,196,460
Total large most per per	400, 17	032,000	984,486	2,367,548		1,290,545	925,195,1	1,645,224
Machinery invest not till acro	7,430 ac t	7,727	880,2 00,0	2,084		2,133	2,083	2,00,2
Deroent tillable land in	031	60	70	00		/0	36	0
Corn and corn silage	68.2	505	9	73		57.7	9	
Sovbeans	16.6	27.1	6.00	0.26		- a	0.00 0.00	0.00 8.70
Wheat	0.1	0.7	9	5 6) -	1.4	5.7
Other small grain	0		-	5 -		. L) -
Diverted acres	2.7	σ i α	3.7	. A		3.7	2 A A) - 6
All hav and pasture	. G	i 6	- e	- 00 r 01		. 4	ָּדְ דְּמָ	- 0
Crop vields, bushels per acre		r S	9	9) ř	-	J. t
Corn	140	141	144	151		146	148	147
Sovbeans	45	47	45	47		47	46	47
Wheat	55	52	44	54		20	65.4	23
Note: Variations in totals due to rounding to the nearest dollar	ding to the ne		Farms with soil ratings from		2	vith poorty dra	1=	and timber soils

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. 1992 Average Return, Costs, and Financial Summary by Size and Management Returns for Southern Illinois Grain Farms with Soil Ratings from 36 to 85.

	340-799	5,	642 610	ω_	200 <u>†</u>	459 459		,17	7,597	ا د در	28		21	8,47	1,13	8	5	55	1,50	30	3,296	۷, ۲۵	1.37	169,856	7	31,89	2,88	96		8,78	52	26	(A P	4 77	3,56	11,09	3,29	96	74,016	?
		58	554 481	Φ,	25.	93 166	0	က	1,345	\sim	16		4 4	ر بر بر بر بر بر بر بر بر بر بر	1,12	57		ഹ ~	6,65	49	193	٥, ٥		99,233	Č	\circ	82	1,2	∞	5,91	43	21	\circ	0.05	9	1,0	0.0	ကထ	(604)	٧l
	All Farms	552	1,002	ഥപ	; '	408 93	0	94	7,331	0,00	02		9	, v v v v	98	96	,32	6,56 5,77	9,	4,64	1,492	00′	1.25	177,192	0	39,7	3,6	ر درز	10,344	81,0	121,306	4	122	22,0	رص	0,0	4,0	140,363 68,385		2.5
	Your Farm																																							
	Over 1199	4	1,839	9,	3-1	106 633	0	6,24	11,698	33,4	75	1	22,5	0,0 0,0 0,0	4,25	1,50	3,19	7.7	6,7	6,57	1,789	00,1	1.32		7 F.G	77.14	7,64	1,96	na	36,75	90	1,46	450	27.68	90	8,72	2/,0	28		2
	800-1199	149	976 905	59		4 833 94	0	~ (777	0,4	93	i	7	6,34	43	1,01	1	6,29 4,29	90	6,24	1,583	77'0	1.26		ď	41,70	53	ພ໌ ເ	9,0/4 6/4	72.93	90	5	4 1	19,02	91	8,25	1,58	40	71,128	JI.
	340-799	സ	585 534	_ کیا	20	81 264	0	66	5,158	24	83		\sim	7,7	9,0	57	4 (32	7,84	93	1,300	,		130,931	1 54	ŀÑ	12	300	3,172	2,89	22	_ (Ó	60.6	3,80	ã	ر ا ا	~ m	36,308	2 =
to 85	180-339	28	275 250	127	1.1	132 132	0	60,914	3,383	972	65,881	(15,935	1774	18,287	310	1,976	2,184	12,408	73,051	1,061	(0), (0)	06.0	64,801	65 812	6,055	351	340	2,0 2,0 2,0 3,0 3,0 3,0 3,0 3,0 3,0 3,0 4,0 4,0 4,0 4,0 4,0 4,0 4,0 4,0 4,0 4	65,881	33,387	(1,268)	0 600	32,345	33,536	6,813	1,001	14,398	10,868	- 1
Soil Ratings from 36 to 85	Range in size (total acres)	Number of farms	Total acres in farm Acres of tillable land	Soil rating on tillable land	Months of hired labor	Beef produced, hundredweight Pork produced, hundredweight	Dairy cows, number Dollar returns per farm	Crop returns	Livestock returns above feed	Other farm receipts	Value of farm production	Dollar costs per farm	Crop expenses	Building and fence	Labor	Livestock services and supplies	laxes	Insurance and miscellaneous Interest on nonland capital	Land charge or net rent	Total nonfeed cost	Capital account adjustment	Earn production per \$1.00	of nonfeed costs	Farm production per man	Financial summary Cash operating income	Inventory change	Accts. receivable (net change)	Farm products used	Less purchased leed Less purchased livestock	Adjusted gross farm income	Cash operating expense	Prepaid expense (-if increased)	Accts. payable (+it increased)	Total operating expense	Income before depreciation	Less depreciation	Capital account adjustment	(operator's share)	Labor & mgt. income per operator Rate earned on investment %	Note: Variations in totals due to accept

Note: Variations in totals due to rounding to the nearest dollar.
* Interest expense deducted from operator's share only. Shown in parentheses because it pertains to operator's net farm income only.

Table 23a. 1992 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	n 36 to 85							
Range in size (total acres)	180-339	340-799	800-1199	Over 1199	Your Farm	All Farms	340	340-799
Management retums							Low 25%	High 25%
Number of farms	28	231	149	144		552	58	58
Some costs and returns per tillable acre	cre							
Soil fertility		30.85	31.77	31.43		31.38	34.64	28.40
Pesticides	18.21	21.06	20.54	20.49		20.61	25.46	19.68
Seed and other crop	14.48	16.36	16.98	17.02		16.82	17.98	16.05
Crop total	63.79	68.27	69.29	68.94		68.80	78.08	64.13
Light vehicle and utilities	5.94	4.75	3.86	3.30		3.83	5.32	4.58
Machinery repairs, supplies	15.53	15.78	15.84	15.54		15.68	17.44	14.67
Machinery hire	8.29	4.43	4.23	4.24		4.34	4.41	4.23
Fuel and oil	68.6	9.64	9.50	9.12		9:36	11.15	8.64
Machinery depreciation	24.69	17.69	17.41	19.21	·	18.44	19.79	14.56
Power and equipment total	64.35	52.30	50.83	51.41		51.65	58.11	46.67
Drying and storage	2.01	2.46	2.56	3.08		2.78	2.33	2.70
Building repair	2.51	2.02	1.69	1.52		1.70	2.58	1.49
Building depreciation	2.58	3.34	2.76	3.30		3.15	3.12	3.62
Building total	7.10	7.81	7.01	7.89		7.63	8.02	7.81
Labor, unpaid	69.59	34.34	21.71	14.39		21.87	38.38	29.22
Labor, hired	3.61	4.96	8.60	11.35		8.98	5.56	5.45
Labor total	73.20	39.30	30,31	25.74		30.85	43.93	34.64
Value of feed fed	22.38	19.29	17.49	12.11		15.39	21.22	20.57
Capital purchases	16.60	20.63	24.81	23.77		23.19	21.19	18.27
Operator interest paid	20.28	18.63	21.03	17.16		18.58	19.94	20.66
Crop returns	243.83	271.74	288.58	300.29		289.57	234.04	306.76
Livestock return above feed	13.54	29.6	7.98	6.80		7.89	2.80	12.45
Value of farm production	263.71	286.55	301.55	312.22		302.58	241.07	324.97
Total nonfeed cost	292.41	253.07	238.91	236.50		241.88	279.71	236.49
Management returns	(24.45)	35.91	64.39	76.76		62.31	(38.24)	93.88
Farm Investment	000	070	0.7	0		1	1	
Grain inventory	0000	13,040	16,642	22,818		7,042	16,733	315,11
Remaining cost in	000,67	601'01	122,233	610,662		8 0, 1	20,112	90,340
machinery and auto	14.955	25.449	44 913	110.378		52.326	73.87	70000
buildings and fence	3,656	8,438	12,568	29,324		14.759	8.625	8.748
soil fertility	0	52	25	452		147	95	21
Value of land (current)	295,424	906'299	1,073,005	020'		1,116,884	634,640	750,020
Total farm investment	350,597	784,229	1,271,388	2,466,851		1,332,675	743,593	889,573
Machinery investment per till acre	5/2,-	045,1	20°, r	1,341		088,r	1,341	1,385
Percent tillable land in	3	P	8	5		9	ò	Ď
Corn and corn silage	38.5	39.4	40.5	41.0		40.5	35.4	42.0
Soybeans	37.2	39.8	39.7	38.5		39.1	38.2	40.9
Wheat	13.5	12.0	12.0	12.2		12.1	14.6	11.0
Other sitiali grain		o o	r. 0	0.0		0.0	0.0	0.0
All hav and pasting	, , , , ,	0.0 0.0	S C	80 v		v	4. п	9. -
Crop vields, bushels per acre)	7:5	7.7	<u>†</u>		<u>.</u>	-	-
Corn	136	146	149	156		151	131	160
Soybeans	40	43	43	45		44	68	47
Wheat	53	55	56	59		22	55	54
Note: Variations in totals due to rounding to the nearest dollar	iding to the nea	rest dollar.						

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Table 24. 1992 Average Return, Costs, and Financial Summary by Size and Months of Labor for Southern Illinois Hog Farms with

Months of Labo	21-27 31-39 23 10	8 80	0 2 34.	8.4 004 338 8	D	6,431 214,551 1,587 124,224	,151 3,61	,440 344,62	700	,3/4 4/,90 ,593 67,06	923 21,02	0,483 20,165	792 13.70	582 29,62	220 40,39 058 302,35	474 1,22	55 43,48	1.12 1.14	2 119,93	393 479.50	32,38	104 2.48	73 154,17	,089 ,440 344,62	,914 172,50	1,492 3,709	67 2.14	39 178,17	,501 166,44	474 1,22	135,86	47.10 777.
All Farms	116	658 608	23.9	9.4 167 148	- (169,774 156 78,773 71	452	,408 24		2,465 8,369 4	1 1 1 1	0,180	536	0,679	457 3 958 21	3888	38 2	1.17	3 12	0,169	22,572	310	0,073	55,408 24	9,864 12		952	12	33,839	388	111,712 99	
Your Farm																																
Over 799	30	1,217	97.5 37.5	18.3 388 8,293		336,207 141,584	2,94	48	(2,02 8,63	2,23	19,189	3,02	9,34	9 5	74	_	1.23		4.58	51,48	64	0,73	36,18 96,48	8,04	OR	5	100	55,93	74	224,364	
500-799	37	658 609	21.7	8.3 111 4,696		158,354 68,408	28	03	,	6,25	95,	9,121	2,0	8,67	24	35	N	1.11	127,113	5.12	16,98	$\frac{1}{2}$	3,79	20,49 30,03	3,50	26	- ~	15,66	4,د کرد		93,728	֡
260-499	37	364 335	60 17.8	5.2 72 3,597		89,625 53,799	20	<u>, 1, 1</u>	C	ور 5	7,93	6,078	16	2,0	7,48	242	ת	1.15	98,818	1,43	13,63	4 1	7,46	4 00	5,36	~ ~		$ \infty $	2, c 2, c	2,2 24	67,134 38,861	
to 85 60-259	12	163	15.5 15.5	3.5 83.5 96.	> !	36,036 30,704	292 706	67,737	,	17,925	5,513	3,566	2.605	7,878	8,629	25, 25,	(11,404)	0.85	52,414	128,309	(4,916)	334	52,473	67,737	37,087	269	124	37,480	30,257	25,725	22,979	
Soil Ratings from 36 Range in size (total acres)	Number of farms	Total acres in farm Acres of tillable land	Soil rating on tillable land Total months labor	Months of hired labor Beef produced, hundredweight Pork produced, hundredweight	Dairy cows, number Dollar returns per farm	Crop returns Livestock returns above feed	Custom work	Value of farm production	Dollar costs per farm	Crop expenses Power and equipment	Building and fence	Livestock services and supplies	raxes Insurance and miscellaneous	Interest on nonland capital	Land charge or net rent Total nonfeed cost	Capital account adjustment	Management returns	raint production per \$ 1.00 of nonfeed costs	Farm production per man	Financial summary Cash operating income	Inventory change	Accts, receivable (net change) Farm products used	Less purchased feed	Less purchased livestock Adjusted gross farm income	Cash operating expense	Prepaid expense (-if increased) Accts payable (+if increased)	Farm-produced inputs	Total operating expense	Income before depreciation Less depreciation	Capital account adjustment	Net farm income * (operator's share) *	

Note: Variations in totals due to rounding to the nearest dollar. * Interest expense deducted from operator's share only. Shown in parentheses because it pertains to operator's net farm income only.

Table 24a. 1992 Average Operating Costs, Investments, and Land Use by Size and Management Returns for Southern Illinois Hog Farms with Soil Ratings from 36 to 85

Hande in eige (total acree)	020	260-400	500-700	Over 700	Voir Earm	All Earme	A+CCA4	Months of Labor
	2	2)	5	3	21–27	31 – 39
Number of farms	12	37	37	30		116	23	10
Some costs and returns per tillable acre	acre							
Soil fertility		31.50	30.25	29.99		30.34	29.30	22.67
Pesticides	13.45	19.42	21.99	24.11		22.36	23.85	23.35
Seed and other crop	18.04	16.75	15.37	18,46		17.16	17.09	16.94
Crop total	61.64	67.68	67.61	72.57		69.87	70.24	62.95
Light vehicle and utilities	25.52	14.28	13.66	9.83		12.20	14.15	16.28
Machinery repairs, supplies	34.78	26.48	23.93	21.94		23.68	21.86	28.61
Machinery hire	13.96	4.07	4.00	7.24		584	3.91	1 5
Fuel and oil	19.72	14.25	12.91	13.05		13.37	14.78	15.37
Machinery depreciation	36.46	23.68	21 41	26.32		24.52	22.70	20.00
Power and equipment total	130.44	82.75	75.90	78.40		79.58	77 40	88 13
Diving and storage	308	275	266	405		98.8	1 07	2.6
Building repair	20.00	01.9		. A		. r	16.1 90.7	
Building depreciation	16.68	17.75	40.04	7		0 0	0.00	0.00
Brilding total	10.00	04.70	24.00	40.66		12.30	16.21	19.00
Jahor Japaid	100.12	07.07	27.12	00.00		05.120	40.24	27.03
Labor, dilpaid	20.55	20.30	32.30	20.02		33.70	4.04.04.04.04.04.04.04.04.04.04.04.04.04	28.37
labor totat	165.03	78.18	56.63	54.07		60.47	C2.12	11.10
Value of food food	20.00	07.000	0,00	60.900		2000	00.00	20,000
Capital purchases	044.30 04.40	209.70	21.2.13	200.23		200.7	223.09	230.23
Operator interest paid	65.13	37.52	20.00	23.62		31.00	30.97	37.09
Crop returns	70.090	25.15	70 070	20.700		0 0 0	1000	5. 50
Livestock return above feed	202.24	160.68	239.03 112.25	105.00		420.60	702.27	201.93
Value of farm production	492.93	436.60	377 47	439 11		420.22	414 98	452.84
Total nonfeed cost	576,55	380.29	339.14	356.44		360.25	371.89	397.31
Management returns	(83.44)	57.04	38.92	83,33		60.61	43.90	57.14
Farm investment	•							
Livestock inventory	56,635	63,362	87,869	164,853		96,731	80,273	136,474
Grain inventory	23,170	49,272	84,580	188,109		93,740	81,154	130,930
nernaling cost in						1		
machinery and auto	13,131	23,833	35,063	99,134		45,782	39,622	54,073
soil fertility	5 † 1	ש כי ס'ס	40,040	0 5		00000	00,110	0000
Value of land (current)	205 449	416 272	743 888	1 475 101		770 706	768 877	061 860
Total farm investment	310,830	571,666	991 468	1 008 078		1 047 719	080,080	1 352 010
Total investment per acre	1,906	1,569	1,506	1,000,1		505	150,000	1,000,015
Machinery invest, per till, acre	96	71	28	88		75	67	7.
Percent tillable land in								
Corn and corn silage	46.3	44.2	42.6	45.3		44.3	43.2	42.1
Soybeans	17.8	31.8	34.5	37.2		35.0	38.1	32.5
Wheat	14.1	0.8F	11.0	10.9		1.6	<u>ල</u> ල	11.6
Other small grain	0.0	0.0	0.1	0.0		0.0	0.0	e.0
Diveried acres	D. C	3.5	2.8	2.5		2.7	3.0	3.5
All hay and pasture Crop vields, bushols per sere	D.	ж ж.	4.5 C	ი. ი.		4.1	2.8	3.4
Corn	9.7	7.70	**	127			•	,
	04.	3 5	4-	151		D 1	143	921
Wheat	ֆ դ Տ Հ	3 G	4 u	94 n		4 Մ Հ	4. ი ა ი	7 4 4
WIGHT	1	10	1	7				

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Area of state	COSts, and r	Northern II	iary by ivumber	O COWS III		Southe Souther	hern Illinois	
Number of cows in herd Number of farms	10-39	40-79 101	Over 79 35	All Farms 155	10-39	23	Over 79 33	All Farms 59
Total acres in farm Acres of tillable land	239 197	346 298	482	363 311	237 192	338 310	588 548	473
Soil rating on tillable land Total months lahor	75 14.8	~	^ -	73	57 19.0	ω _~	60 37 6	900
Months of hired labor	2.7	4.	14.4	1Φ;	90.5	909	17.4	12.7
Beet produced, nundredweight Pork produced, hundredweight	326 87 31	141	<u> </u>	526 119	727	433 0.0	0 1 1 2 8 8 8 8 8	988 988 988
Dairy cows, number Dollar returns per farm	5	Ö C	S O O	GO	33	ō	60 -	80
Crop returns	53,276	7	80,0		0	20	20	დ -
Custom work	/±c,'+ 68						Ô	7
Other farm receipts	754	N Q	ຕິດ	4	2,41	91	3,34	2,34
Value of family production Dollar costs per farm	30,040	05'/	90,00	4,0 0,4	Ď,		304,828	7,
Crop expenses	12,851	60	0,16	2,13	86	,18	,54	2,15
Power and equipment Building and fence	22,119 5,670	α α Ο α Ο α	85° 23°	72 72	7,34 2,55	0,75	3,78	2,44
Labor	22,224	83	0,03	3,33	źω	3,40	, 8 , 8 , 9	90
Livestock services and supplies	7,061	5,68	9,33	7,70	4,52	6	76	5,25
raxes Insurance and miscellaneous	2,952	4 0	y 0	გ გ	χĆC	φ 4 π	ر ا ا	96
Interest on nonland capital	9,794	16,520	27,391	18,150	6,118	14,248	26,527	20,702
Land charge or net rent	102 620	2,17	2 0	200	9,93	6,39	27,77	22,43
Capital account adjustment	550	02,13 (64	1,07	8, 11	ó	ر 1 2 4	9,0 2,0	2, اح 79
Management returns	(6,433)	ω	41	3	6,194	98	2	2
Farm production per \$1.00	0			- (•		•
Farm production per man	77,743	101,619	102,340	99,907	59,393	91.847	102.751	98.148
Financial summary		, I)
Cash operating income Inventory change	114,943 3,997	95	ور د	ھ د ھ د		ოσ	വ ധ	70
Accts. receivable (net change)	2,048	93	3,66	64	54	15	46	34
Farm products used	995	1,59	2,70	1,77	9	1,30	3,23	2,37
Less pulchased reed Less purchased livestock	10,048		വ മ	ഠത	87 7	$\infty \infty$	∞	- 6
Adjusted gross farm income	96,344	8,33	2,25	5,23	4,12	9,31	97	1,93
Cash operating expense	48,969	1,14	49,95	2,73	,79	48,	43,37	14,13
Accts, payable (+if increased)	(64)		- ٣	Ω ←	~	۵,6	n a	ກ໌ ຜູ້ເຄ
Farm-produced inputs	717	97	36	5	၁၈	52	250	, 4 5 4
Total operating expense	49,508	83,175		94,658	48,320	58	110	112,020
Less depreciation	8,672	8,17	28,53	9,0	4,05 0.50	9,73	26.41	22,55
Capital account adjustment	550	(64	1,07	(11		1,14	,62	79
Net farm income * (operator's share) *	38,715 18,107	66,341 35,160	102,486	71,116 39 113	41,749	72,452	139,076 99 185	108,155
Labor & mgt. income per operator	11,550	2,55	1,4,1	3,20	6, 4 9, 19	4,44	1.95	9,7,0
Rate earned on investment, %	3.81	5.8	7.0	6.0	7.0	8.7	1.7	10.4
Note: Variations in totals due to rounding to the neare	nding to the r	st dollar.	Northern Illinois i	ncludes both nor	thern and centra	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. Shown in parentheses because it pertains to operator's net farm income only.

Area of state		Northern Illinois	Hlinois			Southern Illinois	Illinois	
Number of cows in herd Number of farms	10–39 19	40–79 101	Over 79 35	All Farms 155	10–39 3	40-79 23	Over 79 33	All Farms 59
Some costs and returns per tillable acre	re							
Soil fertility	27.53	30.59	30.49	30.32	25.83	43.45	34.36	36.68
Pesticides	18.53	21.21	22.04	21.25	20.34	17.93	19.12	18.81
Seed and other crop	19.15	19.09	21.06	19.68	16.38	16.72	18.71	18.11
Crop total	65.21	70.89	73.59	71.25	62,55	78.09	72.19	73.60
Light vehicle and utilities	17.31	18.85	23.30	20.06	23.20	17.71	14.96	15.90
Machinery repairs, supplies	30.79	37.29	46.71	39.59	32.86	36.52	37.33	37.01
Machinery hire	19.21	11.43	21.06	14.90	3.64	8.56	11.18	10.29
Fuel and oil	15.04	16.82	18.57	17.20	18.81	16.28	16.47	16.47
Machinery depreciation	29.88	43.61	43.70	42.57	12.01	52.49	36.51	40.38
Power and equipment total	112.25	128.00	153.34	134.33	90.52	131.57	116.44	120.05
Drying and storage	5.07	6.27	5.55	96'5	76'0	1.00	1.08	1.06
Building repair	9.58	7.92	15.45	10.29	3.23	5.99	5.37	5.49
Building depreciation	14.12	17.38	25.92	19.67	9.13	10.22	11.71	11.24
Building total	28.77	31.57	46.92	35.92	13.33	17.21	18.16	17.79
Labor, unpaid	96.55	77.51	67.44	75.99	101.74	73.69	49.87	57.61
Labor, hired	16.23	22.09	54.63	31.33	56.44	34.14	39.38	38.32
Labor total	112.78	09.66	122.07	107.32	158.18	107.83	89.26	95.93
Value of feed fed	220.41	280.49	355.20	298.08	175.98	233.84	252.94	245.95
Capital purchases	76.56	77.39	58.83	71.80	19.72	79.31	45.98	54.61
Operator interest paid	42.20	38.30	38.01	38.52	62.68	35.31	32.32	33.83
Crop returns	270.36	291.93	289.29	289.47	232.71	262.22	268.95	266.29
Livestock return above feed	210.84	263.37	385.19	295.59	243.46	279.80	281.21	279.98
Value of farm production	485.38	562.44	683.95	592.66	489.77	546.11	556.50	552.14
Total nonfeed cost	520.82	544.87	644.10	572.57	457.46	488.50	452.75	462.73
Management returns	(32.65)	15.40	42.48	19.74	32.32	61.30	104.89	91.22
Farm investment	6	1			1			
Livestock inventory	53,808	85,878	141,368	94,477	29,727	81,607	164,072	125,094
Remaining cost in	55,15	000,20	100'11	04,40	120,00	41,100	740'70	000'00
machinery and auto	13,195	37,033	56,804	38,575	6,468	34,489	62.858	48.932
buildings and fence	29,487	40,109	70,840	45,746	12,081	20,155	28,983	24,682
soil fertility	0	69	222	95	0	0	0	0
Value of farid (current)	366,794	527,903	// L'GL/	553,139	230,600	390,234	661,413	534,098
Total investment	516,539	743,880	1,055,977	786,486	315,197	567,673	999,672	796,462
Total Investment per acre	2,103	2,130	161,2	2,104	055,1	6/0'1	9 'I	1,004
Machinery Invest, per till, acre	/9	124	139	124	34	ווו	411	112
Corn and corn silade	0 22	0 7 0	0.70	7 7 7	a C.V.	a	7 00	a
Sovbeans	33.0 10.0	ე გ. დ გ. დ	0 9, 0 7, 10	о 7. о	97.0 27.5	0.00	30.7 23.5	0.00 0.00
Wheat	0.1	0.0	0.0	0.00	13.2	14.6	14.0	14.2
Other small grain	5.3	5.0	3.1	4.4	0.0	0.2	0.0	0.1
Diverted acres	2.1	2.4	1.7	2.5	2.1	1.7	2.5	2.3
All hay and pasture	26.2	27.8	29.9	28.3	14.4	25.0	19.0	20.6
Corn	120	101	107	101	110	700	130	408
Sovbeans	42	4 4	46	43	34	40	40	40
Wheat	43	0	0	43	52	20	20	57
Mindon Manipulation in the Land of the Lan	- 14 - 4 1	14 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		14 1 1			i	

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

			= {		- 1	MONTHS	<u>ء</u> اء	
Range in size (total acres) Number of farms	180-339	340-799	Over 799 24	All Farms 81	Your Farm	21-27	31-39 6	Illinois 18
Total acres in farm Acres of tillable land	295	534	1,234	709		836 766	1,108	610 458
Total months labor	13.2	18.1 0.1.1	31.0	21.2		യം		22.9
Months of hired labor Beef produced, hundredweight Pork produced, hundredweight	1.7 1,482 220	5.5 2,388 609	15.6 5,328 1 188	3,136 728		11.0 4,534 1,683	18.7 4,256 796	1,200,8
Dark cows, number	0	80		0		5	•	
Dollar returns per tarm Crop returns	84,861	97,	36	9,4		26	86,	∞ <
Custom work	505	1,104		2,088				1,09
Uther tarm receipts Value of farm production	114,626	50,	90	200		20	2 6	2,475
Dollar costs per farm								
Crop expenses Power and equipment	22,250 24.449	90,8	8,52	17,7		3,19	0,94	Óυ
Building and fence	7,525	1,95	1,07	40,4		7,86	0,42	, (0,0)
Livestock services and supplies	3,244	7,10	4,02	2,02 8,63		9,8	1,69	Áιδί
Taxes	5,104	7,	9,43	ξ. 6		6,43	3,95	Θĺ
Insurance and miscellaneous Interest on nonland capital	3,601 17,752 22,940	5,917 28,103 37,265	13,993 65,048	7,995 37,644 50,470		9,694 54,390 65,993	13,274 56,270 60,523	19,33
Total nonfeed cost	126,769	7,40	0,03	7,4		2,00	0,07	2 K
Capital account adjustment	434	280	3,98	1,73		73	5,76	ر ان س د
Earm production nor \$1.00	(00/,11))	2,02	? .		Ω	Σ,	86'/)
of nonfeed costs Farm production per man	0.90 103,991	1.02 134,968	1.11 196,076	1.06		1.13 199,172	1.12	0.97
Financial summary Cash operating income	281.810	55.5	1 113 990	. R		ζ	999	261 24
Inventory change	· co	23,28	62,357	31,8		68,03	75,98	1,7
Accts, receivable (net change) Farm products used	5,214	و 4 و	18,490 1 780	ر ر در ر		₹ 10	0,26	1,24
Less purchased feed	23,792	44,95	80,0	52,4		52	50,14	၁ ယ
Less purchased livestock	150,414	0,34	10,7	66,2		8,79	45,78	416
Adjusted gross tarm income Cash operation expense	114,626	03,51 97 50	505,781	Óι		\sim		147,01
Prepaid expense (-if increased)	1,607	(57	6,07 (6)	6,67 (2)		1,14	0,00 4,89	11
Accts. payable (+if increased) Farm-produced inputs	292	∞ $\overline{\Omega}$	450 429	676 156		4,0	0	12
Total operating expense	53,907	97,86	6,2	29,9		6,01	6,55	0,5
Income betore depreciation Less depreciation	60,719 14,852	S	79,5 51,4	151,065 27,666		22,18 37,58	33,35 40,89	66,47
Capital account adjustment	434	88	3,9	1,7		73	5,76	, (1)
Net farm income * (operator's share) *	46,301	~ (C	232,034 99,955	125,138 56,449		4 6	3	53,284
Labor & mgt. income per operator	5,063	20,822	55,714			ຸຕຸ	28,637	, 7,
Kate earned on investment, %	3.64	4	96.9	6.10		\circ	S	4.2

Area of state			Northern Illinois				Months of Labor	Southern
Range in size (total acres) Number of farms	180–339 11	340–799 46	Over 799 24	All Farms	Your Farm	21–27 12	31–39 6	Illinois 18
Some costs and returns per tillable acre	Sre							
Soil fertility	37.94	36.42	34.01	35.26		36.32	30.40	24.53
Pesticides	25.78	25.72	28.47	27.16		25.76	26.55	15.63
Seed and other crop	18.67	20.36	20.62	20.39		20.43	20.28	14.48
Crop total	82.38	82.50	83.09	82.80		82,52	77.23	54.64
Light vehicle and utilities	9.18	8.63	7.25	7.95		9.21	6.57	9.37
Machinery repairs, supplies	21.25	23.15	23.18	23.05		25.37	28.86	25.64
Machinery hire	9.82	9.80	6.25	7.95		11.57	11.54	4.95
Fuel and oil	11.52	13.64	14.39	13.90		16.88	15.03	15.62
Machinery depreciation	38.74	28.25	36.44	33.15		35.08	37.88	23.50
Power and equipment total	90.52	83.46	87.52	86.00		98.11	99.88	79.09
Drying and storage	5.12	6.93	4.35	5.47		4.12	5.19	2.93
Building repair	6.50	7.10	3.53	5.20		5.21	6.76	5.14
Building depreciation	16.25	12.70	11.86	12.48		13.99	13.94	5.75
Building total	27.86	26.73	19.73	23.16		23,32	25.89	13.83
Labor, unpaid	64.12	42.13	21.65	32.80		25.46	30.73	47.87
Labor, hired	9.57	18.27	25.81	21.67		24.11	35.90	22.62
Labor total	73.69	60.41	47.46	54.47		49.57	66.63	70.49
Value of feed fed	258.81	265.13	226.09	244.43		286.74	223.05	204.46
Capital purchases	46.35	36.53	30.98	34.23		30.29	34.99	32.23
Operator interest paid	30.29	45.83	47.25	45.63		58.63	81.66	46.93
Crop returns	314.19	312.92	326.05	319.83		334.62	332.10	247.27
Livestock return above feed	106.57	136.80	141.88	137.62		180.45	185.37	65.80
Value of farm production	424.40	454.93	474.74	463.40		519.96	532.10	320.87
Total nonfeed cost	469.36	447.95	426.36	438.01		461.57	477.07	338.97
Management returns	(43.35)	8.95	52.12	28.26		59.36	62.33	(17.43)
Farm investment								
Livestock inventory	138,694	224,131	467,982	284,780		441,244	410,596	154,524
Grain inventory Remaining cost in	54,390	92,376	222,461	125,761		1/2,56/	164,096	29,730
machinery and auto	27 R50	35 207	130 070	998 69		80,680	1 1 3 1 1 1 1	04 671
buildings and fence	27,983	39,537	78.211	49.427		64,382	76,192	15,318
soil fertility	246	0	0	33		0	0	541
Value of land (current)	546,190	887,258	2,104,718	1,201,668		1,571,264	1,631,465	476,310
Total farm investment	795,353	1,278,600	3,003,442	1,724,038		2,339,134	2,395,501	738,075
Total investment per acre	2,697	2,395	2,433	2,432		2,799	2,163	1,209
Machinery invest. per till. acre	103	62	122	103		117	143	69
Percent tillable land in								
Corn and corn silage	64.6	69.2	69.4	0.69		70.5	70.3	40.8
Wheat	0. C	<u>-</u>	- e	D.0		7.71	0.0	70.00
Other small grain	2.0	5.4) ()	. t		9.0	† -	
Diverted acres	2.6	4.0	9 4 5 C	i 4		9 E	. 4	ο ε. 5 4
All hay and pasture	15.7	10.7	6.1	8.6		7.1	7.2	31.5
Crop yields, bushels per acre								
Corn	143	136	148	143		145	133	126
Soybeans	74		9 9 9	47		9 5	47	47
Note: Verification of the following of the first of the f	2	rollop	Northern Illinois includes both	1 5	0 0 0		70	2

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

Table 27. 1992 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

Northern 56-8 Northern 56-8 179	30, 131, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	Northern rain <260 64 64 172 172 172 150 94 4.7 0.1 6 14 0.1 6 1273 642 50,806 11,534 9,240 3,699 7,063 7,063 3,123 3,123 3,123 16,055 56,576	86-100 Grain > 260 68 422 392 392 393 6.6 0.3 1,33,960 1,308 1,117 1,308 1,117 1,308 2,35 1,117 1,308 2,35 1,117 1,308 2,35 1,117 1,308 2,35 1,117 1,308 2,35 1,48 4,085 7,485 38,745 126,564	Livestock All Farms 246 212 212 82 6.9 0.7 365 1,370 1,275 96,870 14,878 21,334 8,969 13,208 3,291 4,517 4,401 10,941	Southern 260 Grain < 260 170 143 57 57 50 0 106 104 738 37,354 8,907 8,761 1,736 7,740 8,761 1,736 1,801 1,820 2,340 8,018	Grain > 260 Grain > 260 446 372 372 6.0 0.2 29 32 95,064 891 1,386 97,466 97,466 97,466 97,466 32 32 32 891 1,386 31 32 32 32 32 32 32 32 32 32 32	All Farms All Farms 7 195 120 523 6.23 747 (1,161) 23,747 (1,161) 23,744 6,283 9,354 3,648 7,929 730
Grain < 260 Grain < 290 Grain < 290 Grain < 290 Grain	2.26 2.46 4.26 4.26 6.4 4.7 6.4 6.4 6.4 6.4 6.4 6.4 6.4 6.4	269 271 170 170 170 170 170 170 170 1	2 × 3 × 3 × 3 × 3 × 3 × 3 × 3 × 3 × 3 ×	Faranta (1) 24 (36,38 36,38 37,35	262 33 35 35 36 36 37 44 89 97,46 89 18,35 18,	73.00 3. 13. 13. 13. 13. 13. 13. 13. 13. 13.
179 1499 1499 76 5.3 0.2 0.2 11 11 11 12 265 540 13 10,730 3 10,730 3,282 12,266 13 10,730 3,282 12,740 3,282 11,740 3,282 11,740 3,286 11,310 24,290 565 6d) 6d) 64,066 13 64,285 12,740 3,286 11,310 24,290 566 6d)	8	0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	392 392 60.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.	244 243 243 243 243 243 243 243	7.1 1.2 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	344 344 35 36 36 36 37 37 38 38 37 38 38 38 38 38 38 38 38 38 38 38 38 38	m ← m 60m − c
14.5 5.3 0.2 1.1 1.1 1.1 1.2 1.2 1.2 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	8	9 0 1987 83 83 83 84 85 85 85 85 85 85 85 85 85 85 85 85 85	8.00.0 0.00.0 0.00.0 0.00.0 0.00.0 0.00.0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	6,38 6,38 7,74,77 7,38 7,48 7,48 7,48 7,48 7,48	2, 0.0 2, 2, 2, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,	n − n n n n n n n n n n n n n n n n n n
5,3 0.2 11 11 12 6 44,285 12 540 45,066 13 10,730 10,730 10,379 10,379 10,379 11,310 11,310 11,310 10,85 10,	8	9 0 1987 8789 9 V 20 88 2 2 3 9 0 1 2 5 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	6.0 0.0 1,300	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	6,38 6,38 7,38 7,38 1,82 1,82 1,82 1,82 1,82 1,82 1,82 1,8	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	m − m m m m − m
ed) ed) ed) ed) ed) ed) ed) ed)	8	9 0 1987 8,28,99 7 2 8 8 2,99,7 8,26,89	0.0 1 3.96 0.0 1 2.33 0.0 2.33 0.0 2.33 0.0 2.33 0.0 2.33 0.0 3.96 0.0 3.96 0.	0.00 0.00	6,38 6,38 7,735 7,735 7,74 7,735 7,74 7,735 7,74 7,74 7,74 7,74 7,74 7,74 7,74 7,7	0.00 0.00	m − m 00m − c
11 5 6 6 6 10,730 10,730 10,730 10,730 10,730 10,730 10,730 10,730 112,740 12,998 12,266 13,282 12,266 13,282 12,266 13,282 12,740 11,310 10,85 10	8	0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	36 6,73 6,73 6,87 6,87 6,87 6,87 6,87 6,87 6,94 6,94 6,94 6,94 6,94 6,94 6,94 6,94	6,38 6,38 1,235 7,355 7,355 7,355 1,809 1,820 1,820 1,820 1,820 1,820 1,820 1,820 1,820	25 80,0 1,32 1,32 1,32 1,32 1,32 1,46 1,	m − m 00m − c
sd 265	8 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9, 1,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,	2	1,37 (6,79 (7,97 (8,71 (8,71 (8,73 (9,94 (6,38 102 103 103 103 103 103 103 103 103 103 103	2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2	m − m 00m − c
teed (23) (23) (23) (23) (24) (23) (24) (23) (25) (25) (25) (25) (25) (25) (25) (25	8	9	3,96 23,96 3,96 3,97 3,97 3,98 3,97 3,98 3,97 3,98 3,98 3,98 3,98 3,98 3,98 3,98 3,98	6,73 6,73 6,87 6,87 7,87 7,87 1,33 1,33 1,33 1,00 1,00 1,00 1,00 1,00	6,38 1,20 1,35 1,80 1,80 1,80 1,80 1,80 1,80 1,80 1,80	2,500 8,17 8,27 1,28 1,28 1,28 1,44 1,46 1,44 1,46 1,46 1,46 1,46 1,46	m − m m m − m
steed (23) 265 265 265 265 265 13 240 45,066 13 10,730 3 10,379 1 10,730 3,282 135 2,266 113 112,740 3,282 112,740 3,968 110 11,310 24 110 3,968 113 2,079 24,290 5 reased) 24,290 5 reased) 24,290 5 reased) 24,290 5 reased)	8, 12 8, 12 1, 14 1, 14	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3,96 2,11 3,23 3,23 3,23 3,00 3,00 3,00 3,00 3,00	8,73 8,25 6,87 1,27 1,27 1,23 1,33 1,33 1,20 1,40 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,5	6,38 102 102 103 103 103 103 103 103 103 103 103 103	5,06 8,1 3,2 3,2 3,2 4,4 6,0 7,4 8,3 1,4 1,4 1,4 1,4 1,4 1,4 1,4 1,4 1,4 1,4	13,74 1,16 1,16 1,16 1,16 1,16 1,16 1,16 1,1
steed (23) 265 265 265 240 45,066 13 10,730 3,292 10,379 10,379 10,379 10,379 110,379 110,379 110,379 110,379 110,379 110,379 110,379 110,310 12,740 110,310 12,740 110,310 12,740 110,310 12,440 110,310 12,079 12,079 13,968 110 14,72 10 12,079 10 12,079 110 12,079 110 12,079 110 12,079 110 12,079 110 12,079 110 110 110 110 110 110 110 110 110 11	62 62 64 64 64 64 64 64 64 64 64 64	20	23 6,62 1,11 1,30 6,62 1,30 8,43 8,43 8,43 8,43 8,43 8,56 8,43 8,43 8,56 8,56 8,67 8,77 8,78 8,78 8,78 8,78 8,78 8,7	8,25 6,1,27 6,87 7,20 8,96 8,96 9,94 9,94 9,94 9,94 9,94	1,809 1,822 1,822 1,822 1,822 1,822 1,822	2, 2, 53 2, 1, 89 3, 2, 53 3, 2, 53 3, 4, 4, 6, 6, 7, 7, 8, 9, 5, 1, 7, 8, 9, 5, 8, 9, 5, 8, 9, 5, 8, 8, 9, 5, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8,	3,34 23,34 4,32 7,92 7,92 7,92 7,92 7,92 7,92
265 540 45,066 130 10,730 10,730 10,730 10,730 10,730 10,730 13,988 112,740 3,282 112,740 12,740 112,740 112,740 112,740 112,740 112,740 112,740 113,091 110,730 112,740 112,740 113,091 110,730 112,740 113,091 114,310 116,008 117,872 118,888 119,988 110,398 110,398 110,398 110,310 12,079 13,968 14,72 18,472 19,066	14,1 10,1,1 10,1,1 10,1,1 10,1	0 1399 7899 899 899 899 899 899 899 899 899	1,30 6,62 1,11 7,18 7,03 1,31 1,31 1,30 1,43 1,30 1,30 1,30 1,30 1,30 1,30 1,30 1,3	6,87 6,87 7,83 1,33 1,33 1,33 1,33 1,33 1,33 1,33 1	7,35 7,35 7,35 8,90 8,76 7,74 1,82 1,82 1,82	1,38 3,46 2,53 8,34 1,46 1,44 1,44 1,44 1,44 1,44 1,44 1,4	23 3,34 52 7,95 7,95 7,95 7,95 7,95 7,95 7,95
supplies 10,730 3 10,730 3 10,730 3 10,730 3 10,730 1 2,998 7,972 1 12,740 3 53,091 11 12,740 3 53,091 11 101,310 24 10 3,968 1 10 3	46,000,000,000,000,000,000,000,000,000,0	0 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,	7,2,1 6,8,1 7,33,2 7,33,2 7,33,2 7,5,1 7,5	7,35 8,90 8,76 8,76 7,74 1,80 1,82 1,82 1,82	32,46 22,53 22,53 26,14 26,95 26,05	3,34 6,28 7,92,4 7,92,4 7,92,4 7,92,4 7,92,4
10,730 13 10,379 13 10,379 13 10,379 13 10,379 13 135 135 135 135 11 11 11 11 11 11 11 11 11 11 11 11 11	0, 4,00,00,00,00,00,00,00,00,00,00,00,00,00	8, 1,8,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,	6,62 0,03 0,03 1,03 1,08 1,08 1,08 1,08 1,08 1,08 1,08 1,08	6,87 7,83 1,33 1,33 1,33 1,33 1,34 1,54 1,54 1,54 1,54 1,54 1,54 1,54 1,5	7,35 8,90 8,76 7,73 1,80 1,80 1,80 1,80	7,46 8,23 8,34 1,44 1,62 1,44	8, 9,8,7 4, 8,8,2,7 7,0,0,7 7,0,0,7 7,0,0,7 7,0,0,7 7,0,0,7 7,0,0,7 7,0,0,7 7,0,0,7 7,0,0,7 7,0,0,7 7,0,0,7 7,0,0,7 7,0,0,7 7,0,0,0,7 7,0,0,0,7 7,0,0,0,7 7,0,0,0,7 7,0,0,0,7 7,0,0,0,7 7,0,0,0,7 7,0,0,0,7 7,0,0,0,7 7,0,0,0,7 7,0,0,0,7 7,0,0,0,0
10,730 10,379 10,379 12,998 7,972 135 2,589 leous 2,266 ital 12,740 3,282 112,740 12,740 112,740 112,740 113,282 112,740 113,282 113,968 113,968 113,968 113,968 114,72 116,079 118,472 118,472 119,066 119,06	14,0 9,22,0 17,0 17,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1	7,007 8,007 8,007 8,009 8,009 8,009	0,63 0,31 0,31 0,31 0,87 13 14,08 6,74 6,56	4,84 3,296 3,296 4,51 6,94 0,94 0,94	06,00,000,000,000,000,000,000,000,000,0	2,53 8,34 1,44 1,62 1,62	82,00,00 82,00,00 82,00,00
supplies 2,589 eous 135 2,589 eous 2,266 ital 12,740 3,282 112,740 3,282 112,740 12,740 112,740 112,740 113,091 114,310 114,310 114,310 115,079 118,472 119,006 119,	6,666 6,666 6,666 6,666 7,10 7,10 8,10 8,10 8,10 8,10 8,10 8,10 8,10 8	- 0 8 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0,000 0 0,000 0,000 0,000 0,000 0,000 0,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 - 88.84 4 0 8 6 6 6 6 7 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,	23,057 20,03 3,057 1,62 1,62	, να φον ο ς να 4 2 κ ν ς
supplies 2,589 leous 135 2,589 leous 2,266 ital 12,740 3 12,740 3 12,740 11 53,091 11 (7,872) 1 (7,872) 1 hange) 2,079 hange) 2,079 13,968 1 39,694 10 39,694 10 39,696 13 472 13 84,290 5 14,290 5 14,290 5 14,290 5 14,290 5 14,290 5	96,559 96,559 96,666 97,120 97,160 97,160	18,0 18,0 18,0 18,0 18,0 18,0 18,0 18,0	8,78 9,87 13,78 1,08 1,08 1,43 1,08 1,43 1,65 1,65 1,65 1,65 1,65 1,65 1,65 1,65	-888,440 200,2440 200,640 100,440 100,440	67,7 88,8 80,8 90,8	3,020 8,020 14,020 1,020 1,020	1,40,00,00 4,40,00,00
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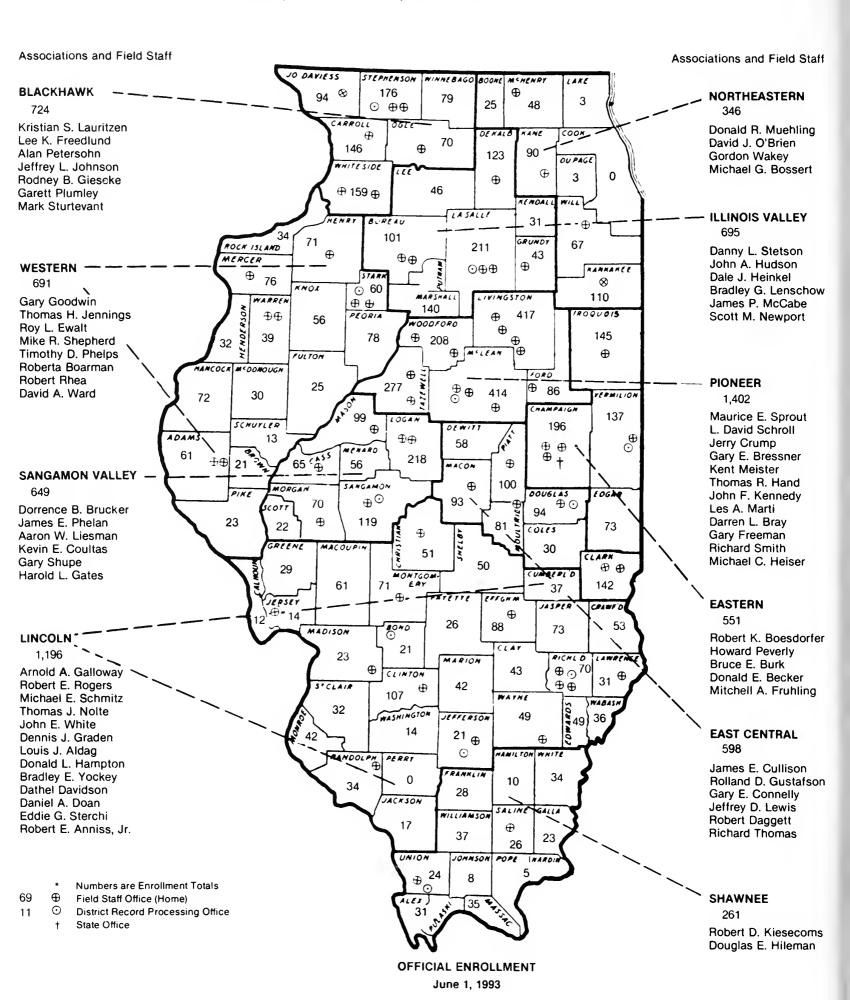
Note: Variations in totals due to rounding to the nearest dollar. Northern Illinois includes both northern and central Illinois.
* Interest expense deducted from operator's share only. Shown in parentheses because it pertains to operator's net farm income only.

Table 27a. 1992 Operating Costs, Investments, and Land Use by Size, Type, and Soil Rating for Part – time Illinois Farms that Use Less than 10 Months of Jahor

10 Months of Labor								
Area of state	Norther	Northern 56-85	Norther	Northern 86-100	Livestock	Southern	ന	Livestock
Range in size (total acres) Number of farms	Grain <260 29	Grain > 260 54	Grain <260 64	Grain > 260 68	All Farms 12	Grain<260 24	Grain>260 32	All Farms
Some costs and returns per tillable acre	acre							
Soil fertility		29.85	32.32	37.98	28.32	29.22	27.76	28.10
Pesticides	24.78	23.26	26.55	22.55	22.37	18.37	17.83	00.6
Seed and other crop	18.69	18.38	18.04	17.57	19.46	14.75	14.94	15.39
Crop total	71.87	71.49	76.90	78.10	70.15	62.34	60.54	52.48
Light vehicle and utilities	11.08	4.49	8.04	4.26	15.29	9.95	4.77	18.67
Machinery repairs, supplies	17.73	11.91	17.19	11.91	19.16	13.40	14.28	29.93
Machinery hire	9.38	5.21	16.73	12.12	17.26	10.68	7.74	4.59
Fuel and oil	8.32	66.9	7.05	6.28	12.01	8.75	8.62	10.23
Machinery depreciation	23.01	16.70	12.60	17.23	36.87	18.54	13.90	14.72
Power and equipment total	69.51	45.30	61.61	51.79	100.59	61.32	49.30	78.13
Drying and storage	9.63	10.90	11.63	9.59	11.63	2.38	2.46	5.21
Building repair	3.47	1.54	3.26	2.80	11.98	4.79	1.33	8.29
Building depreciation	6.98	3.07	9.77	5.93	18.68	4.98	2.04	16.97
Building total	20.08	15.51	24.66	18.32	42.29	12.15	5.83	30.47
Labor, unpaid	51.20	20.43	46.49	24.02	43.56	54.02	23.43	66.23
Labor, hired	2.19	2.03	09.0	1.16	18.72	0.15	0.63	0.00
Labor total	53.39	22.46	47.09	25.18	62.28	54.17	24.06	66.23
Value of feed fed	7.61	5.34	4.49	1.83	249.77	3.56	6.35	128.37
Capital purchases	27.27	20.70	21.94	18.40	42.92	26.68	32.36	16.13
Operator interest paid	17.35	20.01	17.75	16.93	54.60	14.53	20.17	10.95
Crop returns	296.60	301.13	332.00	341.52	314.95	254.67	255.44	198.36
Livestock return above feed	(0.16)	1.47	0.64	09.0	133.24	0.88	2.39	(9.70)
Value of farm production	301.82	308.13	338.74	348.30	456.75	261.45	261.90	195.00
Total nonfeed cost	355.57	280.07	377.21	322.66	469.84	288.47	222.05	350.13
Management returns	(52.73)	29.81	(31.75)	27.02	(12.27)	(25.53)	43.27	(152.02)
Farm investment								
Livestock inventory	2,104	3,100	1,227	945	49,141	1,369	4,534	23,921
Grain inventory Remaining cost in	24,853	62,523	28,047	74,750	42,378	15,369	41,825	14,159
machinent and auto	9	46 506	4 959	47 000	730 70	7 557	0	71.
buildings and fence	9,821	10,186	4,555	15,763	33,098	7,007	5,630	19,774
soil fertility	0	126	13	148	0	240	24	0
Value of land (current)	303,341	836,233	382,262	922,510	431,141	190,866	461,124	149,800
Total farm investment	349,499	928,766	426,257	1,031,440	580,625	221,300	529,703	213,863
Total investment per acre	1,952	1,986	2,472	2,443	2,364	1,299	1,188	1,099
Machinery invest, per till, acre	99	39	59	44	117	53	44	22
Percent tillable land in								
Corn and corn silage	52.4	51.3	49.5	20.0	64.2	29.7	33.8	39.7
Soybeans	42.1	42.5	44.3	46.1	20.6	41.0	41.4	15.9
Wileal Other small grain	8 9.00	- c	50	0 0	0.4	0.5.0	0.0	თ დ დ
Diverted acres	. c	<u>ن</u> د	- u	o c	- c	. c) ,) •
All hav and pasture	2, 1		 	7.0	5.0.0 5.0.0	0.00	- 6.	- K
Crop yields, bushels per acre	!	2		9)	3	<u>;</u>	9
Corn	138	147	163	167	129	145	149	134
Soybeans	43	44.0	47	49	46	43	36	35
wnear	27	١	37	09		26	54	41
Note: Variations in totals due to rounding to the nearest dollar	nding to the nea		Northern Illinois includes both northern and	ides both norther	n and central III	sion		

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

ASSOCIATIONS, FIELD STAFF, AND COOPERATORS ENROLLED



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

Urbana, Illinois September 1993

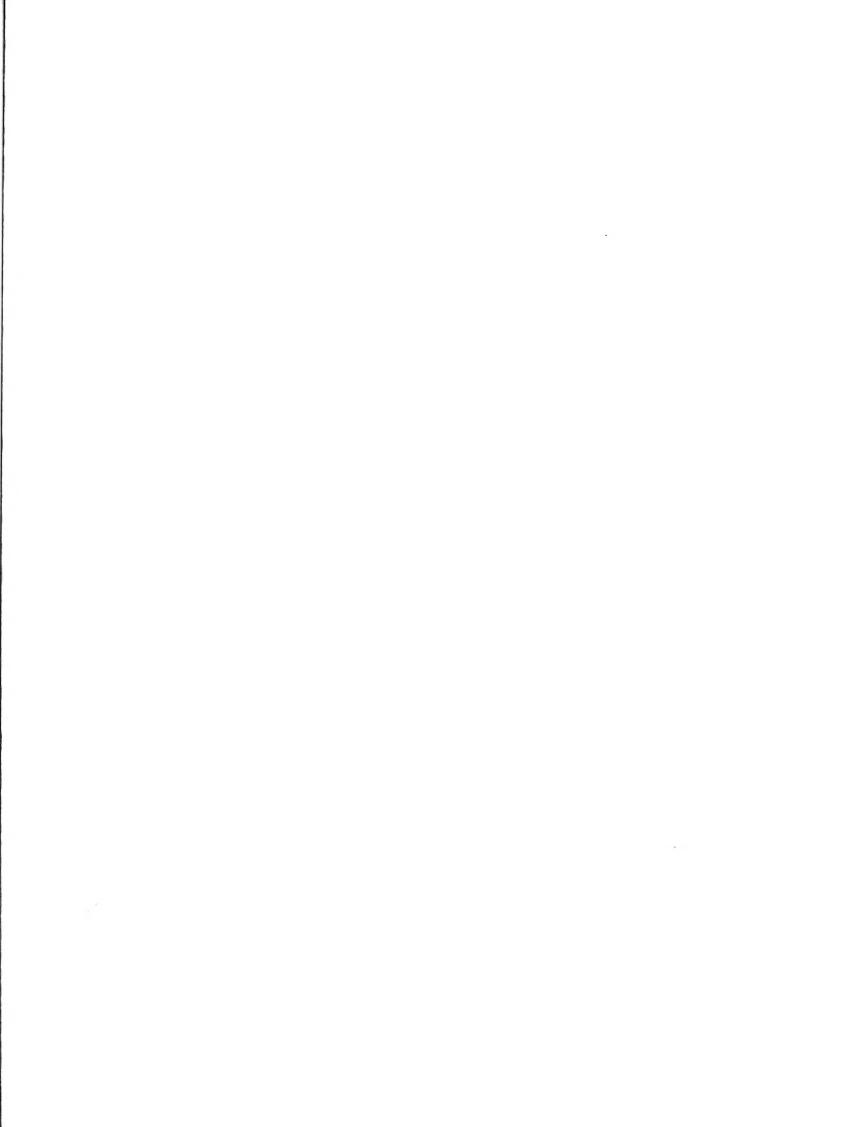
University of Illinois at Urbana-Champaign College of Agriculture Cooperative Extension Service 69 Mumford Hall 1301 West Gregory Drive Urbana, Illinois 61801

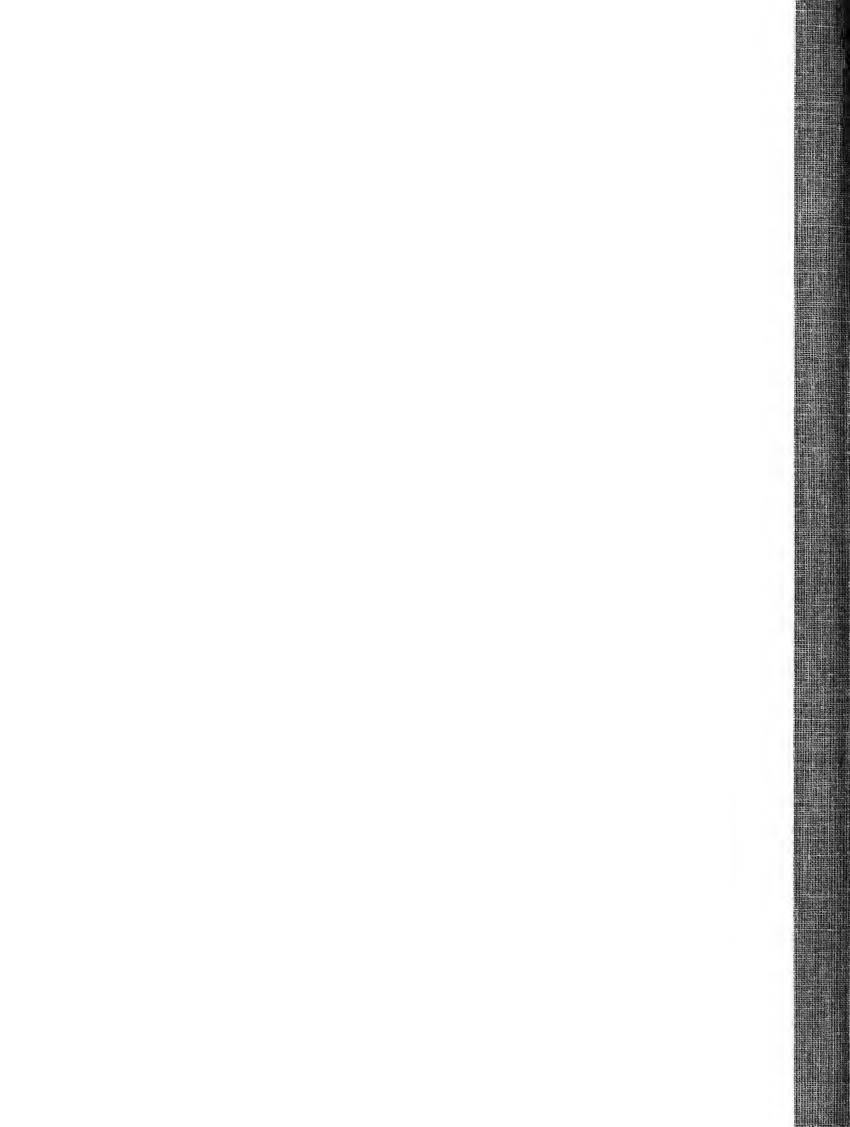


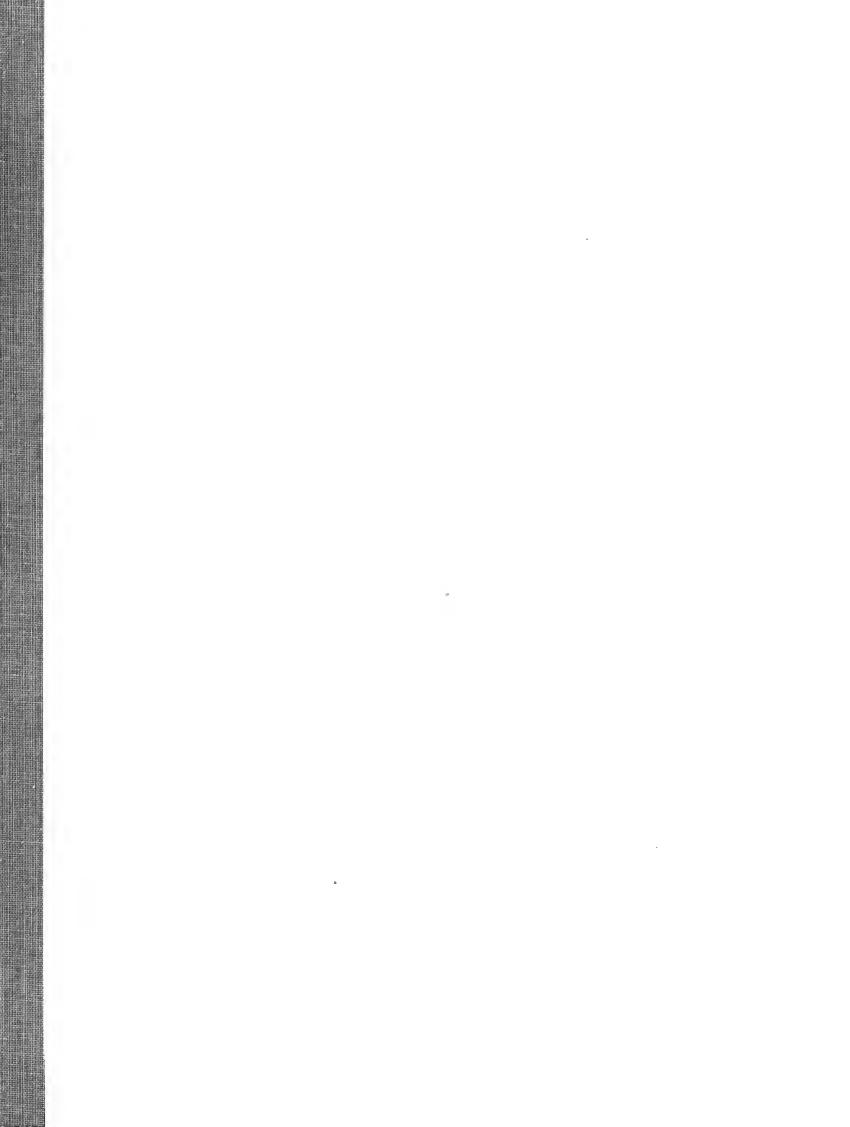
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