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²⁷ 1992 68th SUMMARY OF ILLINOIS FARM BUSINESS RECORDS



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

CIRCULAR 1329

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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	. 8	59	15	2,760
1960	. 10	100	33	5,494
1970	. 10	102	42	6,553
1980	. 10	102	67	8,205
1990	. 10	102	70	7,192

Estimates for 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 per	Percent of all farms over	Percent of census farms enrolled	Number of farms enrolled
farm	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.

agrace

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 onethird of the value of feed fed.

Cost items

The value of feed fed includes on-the-farm grains with the following average prices per bushel: corn, \$2.35; 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 1 and December 31 inventory values of grain, plus the average of the January 1 and December 31 inventories of remaining capital investment in livestock, machinery and light vehicles, buildings, and soil fertility, plus one-half the cashoperating 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 farmproduced inputs, depreciation, and charges for unpaid labor and interest including land charge. Purchased feeds and livestock are omitted.

The basic value of land (the current basis) is adjusted each year according to the February index of land prices in Illinois as reported by the United States Department of Agriculture (USDA). An additional adjustment was made to this index in 1984 to reflect the large drop in land values. The land value index for 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	l and	Paid	by	Farm
		Recordke	epers	for Grain,	Lives	tock,	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 corn,	2.32	2.33	2.37ª	2.37ª
new crop soybeans,	2.02	2.01	—	—
old crop soybeans,	5.65	5.61	5.75ª	5.74ª
new crop wheat		5.31 3.25	 2.43	 2.33
Livestock prices per	cwt			
Hogs, all weights Fed cattle, all		1.83	\$48	3.52
weights Feeder cattle, all weights, prices	73	3.41	72	2.55
paid Dairy cattle, all	81	.64	85	5.94
weights Sheep and wool,	60).45	59	9.45
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

	Nur	mber of acr	es per farm	I
_	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 Hog Beef ^a Dairy All.	\$ 5,919 13,444 830 16,092 10,804	\$17,962 19,758 6,086 22,420 17,797	\$29,914 28,995 10,898 28,043	\$21,822 19,301 6,482 18,578 19,546
		Central I	llinois	
Acres of tillable land	266	499	958	701
Labor and managem	ent earning	gs by type	of farm	
Grain ^ь Grain ^c Hog All	\$11,048 5,386 12,575 9,967	\$21,947 17,136 19,709 20,029	\$41,067 30,837 31,501 36,273	\$30,534 23,795 21,778 26,977
		Southern	Illinois	
Acres of tillable land	256	584	1,132	771
Labor and managem				
Grain	\$ 8,864 11,392 26,977 14,763	\$14,704 25,047 33,048 20,933	27,309 27,309	\$21,914 21,863 30,237 22,728

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

Includes central Illinois

 ^a Includes central Illinois.
 ^b Highly productive soils with soil-productivity ratings from 86 to 100.
 ^c Heavy-till and transition soils with soil-productivity ratings from 56 to 85. d Data not available.

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 state.

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.

	All records, av	erage per farm		Family of 3	to 5, 1992 ^a
1992	1991	1991 1990		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 45,047	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 \$350,101	\$ 12,226 118,446 <u>177,832</u> \$308,504	\$ 12,624 116,122 180,737 \$309,483	\$ 10,502 90,394 <u>156,717</u> \$257,613	\$ 11,289 258,791 259,747 \$529,827	\$ 10,617 92,795 <u>166,444</u> \$269,856
	452 755 132 \$426,539 450,722 218,402 229,076 55,759 \$ 12,166 144,676 193,259	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	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	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	452 456 408 402 94 755 731 719 709 943 132 131 120 119 149 \$456,539 \$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 \$11,289 144,676 118,446 116,122 90,394 258,791 193,259 177,832 180,737 156,717 259,747

\$ 15,070

112,943

27,834

98.101

9,444

9,710

4,291

32,090

\$309.483

\$ 13.850

97,737

18,299

85.797

8.040

1,070

28,499

\$257,613

4,321

\$ 15,550

111,037

22.829

113,510

11,326

-2,646

32,480

\$308,504

4,418

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

Interest paid..... \$ 16,006

Total living expenses..... \$ 34,336

Total uses \$350,101

Cash operating expenses

Capital farm purchases.....

Income and Social Security taxes

Net new savings and investment.....

Living — capital purchases

Payments on principal...

^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.

125.392

134.566

19.867

10,172

5,017

4,745

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 borrowed:
- The amount of noncapital living expenses per till-

able acre farmed was \$45, which was the highest amount in recent years;

\$ 24,294

172,623

25,366

11,280

13.028

49,833

\$529.827

4,688

228,715

\$ 12,564

112,067

16,261

89,414

7,574

4,411

23,661 3,904

\$269,856

• 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

		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	\$24,91			
1989	51,632	42,415	31,688	23,894	14,677	61	-2,990	44,65			
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	25,50			
1992	60,758	50,713	35,264	28,201	11,267	7,738	-19,068	54,09			

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

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 accrued deficiency payments 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

Beer Farms													
		Grain farms			H	og farms				Be	eef farms		
_	1992	1991	1988-1992 average	1992		1991	1988-1992 average		1992		1991		88-1992 average
Number of farms	744	787	803	177		203	216		46		52		49
Total acres	578	577	570	557		550	550		534		525		527
rating Cash 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	103,168	_	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 Inventory change Farm products used	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 Annual depreciation	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		(27,011) 19,850	(42,696) 19,389		(40,560) 18,848		(-5,238) 19,457	I	(26,780) 17,413
and management	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		69,212	69,517	_	65,368		72,373		74,761
	,	\$ -13,737	. ,	\$ 17,216		-12,383			\$ 4,002	\$,	\$	-16,873
Total cash income ^b Total cash expenditures ^b	167,536 94,891	168,499 94,596	168,092 94,593	338,316 256,299		333,821 239,090	330,163 240,768		507,000 449,147		486,345 409,871		525,602 452,664
Cash balance				\$ 82,017		94,731		\$		\$	76,474	\$	72,938
Capital purchases	13,259	14,974	13,254	23,448		27,232	26,057		16,341	Ψ	23,128	Ψ	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	\$ 98,268 93,347	\$	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	35,579 51,242 120		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	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

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

^a Interest expense deducted from operator's share only. 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 5year 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	Corn	Soyt	eans
	1992	1991	1992	1991
Number of farms	615	631	615	631
Acres grown per farm Yield per acre, bu	403 176	368 131	377 49	352 46
Variable nonland costs Soil fertility Pesticides Seed Drying and storage Machinery repairs, fuel, and hire	\$ 52 24 24 14 26	\$ 55 24 23 8 27	\$ 17 25 13 6 22	\$ 18 25 13 4 23
Total, variable costs	\$140	\$137	\$ 83	\$ 83
Other nonland costs Labor Buildings and storage Machinery depreciation Nonland interest Overhead Total, other costs Total, nonland costs	6 20 18 <u>13</u> \$ 87	\$ 29 6 19 23 <u>12</u> \$ 89 \$226	\$ 28 3 16 16 13 \$ 76 \$159	\$ 27 3 15 20 <u>12</u> \$ 77 \$160
Land costs Taxes Adjusted net rent Total, land costs Total, all costs	<u>97</u> \$117 \$344	\$20 <u>98</u> \$118 \$344	\$ 20 <u>97</u> \$117 \$276	\$ 20 98 \$118 \$278
Nonland cost per bu Total, all costs per bu		· · · · · ·	\$ 3.24 \$ 5.63	\$ 3.48 \$ 6.04
Average yield, past 4 years Total, all costs per bu		127 \$ 2.71	48 \$ 5.75	43 \$ 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 hundredweight 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 feedercattle 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. **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 fo	r Selected Total	Farm Items on 340-
to 799-Acre	Northern Illinois	s Dairy Farms

			Bully	um	13
	1992		1991		88-1992 average
Number of farms	62		65		60
Total acres Soil-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 income\$	203,444	\$	200,830	\$	203,120
Accounts receivable 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 expenses Prepaid-unpaid change Annual depreciation	113,643 174 21,680		106,651 775 18,791		105,655 -35 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 Value of land (current	79		895		400
basis)	673,092	¢	642,402	¢	611,540
Total farm investment\$ Rate earned on	945,401	\$	927,672	\$	878,160
investment, percent	6.16		4.14		6.70

 $^{\rm a}$ Interest expense deducted from operator's share only. $^{\rm b}$ 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
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		Grain farms			Hog farms			Dairy farms	
-			1000 1000			1000 1000			000 1000
	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 rating	585 59	591 60	583 60	567 59	559 58	557 59	499 60	525 59	511 60
Cash operating 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 Accounts receivable	\$132,750	\$123,535	\$130,126	\$182,467	\$173,382	\$180,087	\$245,615	\$233,379	\$237,960
change Inventory change Farm products used	1,517 17,828 803	-85 482 673	-8 5,686 893	747 17,624 1,044	-161 -14,759 845	-73 4,073 974	398 22,042 2,694	-125 3,228 1,957	136 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	(37,771) 18,664	(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:	25 440	26,152	22,525	30,664	29,721	28,584	59,299	61,839	50,505
Machinery and auto Buildings and fence Soil fertility	25,449 8,438 55	7,446 57	8,896 50	30,734 62	29,721 23,269 61	20,584 31,510 59	28,489 0	33,864 0	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

^a Interest expense deducted from operator's share only. ^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. Fifteenyear and 5-year averages are also shown. The difference between the average return figure and a feed cost of \$100 represents the margin available for labor, depreciation on equipment, cash expenses other than feed, interest on investment, and profit.

The margin needed to cover nonfeed costs varies with the kind of livestock and depends on the proportion of total production costs represented by feed. The 15-year averages from 1977 through 1991 represent the approximate level of return at which farmers have been willing to maintain livestock production. The average may not represent a break-even return on all farms because some farmers may discount market prices for some of the resources used in producing livestock. If farmers already have facilities 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). Aboveaverage 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
1978 1979 1980 1981 1982	136 138 138	151 106 122 115 165	255 194 153 174 237	doll 170 149 111 107 147	ars 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
1982 1983 1984 1985 1986 1987	141 155 166 215	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	162 206 168	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	ost of fee	d and pur	chased a	nimals	
1988	\$14.01	\$ 6.63	\$20,56	\$1,116	\$157
1989	16.71	10.20	18.66	1,334	144
1990		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					
average	\$18.40	\$ 9.76	\$18.87	\$1,277	\$143
Nonfeed costs, 1	988 throu	igh 1992			
Direct cash	\$ 6.60 ^b	\$ 4.20°	\$13.10°	\$ 431°	\$ 30°
Other costs	10.21 ^b	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

^b Estimates of annual nonfeed costs are based on enterprise cost studies of operative units from 1988 to 1992.
 ^c Includes veterinary costs, utilities, fuel, equipment repair costs, and depreciation, from Table 6 in the *Farm Management Manuals* from 1988 to 1992.
 ^d Includes interest on purchase cost: one-third year for feeder-pig finishing, and one-half year for feeder cattle.

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.

Table 11. Hog Enterprises, 1992 Averages per Farm

		Farrow	-to-fir rprise			
	All f	arms	350 c	or more ters farm	Fee pi produ	g
Number of farms		619		110		13
Pork produced, pound Pork produced per litter, pound		42,841 1,950		165,192, 1,922		87,521 658
Total returns Value of feed fed Returns per \$100 of		82,228 09,327	\$	5484,699 5277,300	\$	48,002 28,624
feed fed	\$	166	9	5 174	\$	167
farrowed Pigs 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 Pigs weaned per		1.90		2.05		2.08
female year		15.68		17.19		18.33
weaned Death loss, percent of		1,857		5,054		1,174
pounds produced Weight per market		1.9		2.0		1.7
hog sold, pound		238		235		54
Price received—		per 1	00 po	unds pr	oduced	
market	\$	42.78	\$	43.35	\$	67.51
Total return	\$ \$	41.14 24.69	63 63	41.59 23.80	_	32.71
Return above feed	\$	16.45	\$	17.79	\$	22.13
Farm grains, pound Commercial feed,		284		273		273
pound		84		85		<u>111</u>
Total concentrates, pound Cost per 100 pounds		368		358		384
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 investments 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.

	ι	Inder 250 litter	'S	25	0 litters or mo	re
	1992	1991	1990	1992	1991	1990
Number of farms	41	52	48	92	101	89
Tillable acres Number of litters	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 power ^a 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	\$ 2.23 4.18 2.54	\$ 1.84 4.33 <u>3.20</u>	\$ 2.52 4.37 3.64	\$ 2.74 3.84 2.51	\$ 2.34 4.28 3.25	\$ 2.68 3.70 3.55
Total other costs	\$ 8.95	\$ 9.37	\$ 10.53	\$ 9.09	\$ 9.87	\$ 9.93
Total nonfeed costs Total all costs Return above all 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

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

^a Includes utilities, machinery, equipment and building repairs, machine hire, and fuel. ^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 Total returns Value of feed fed Returns per \$100 of feed fed Death loss, percent of	168,834 \$108,919 \$66,026 \$164	167,579 \$ 54,823 \$ 39,080 \$ 140
pounds produced Average weight purchased Price paid per 100 pounds Price received per 100 pounds Average weight sold	1.8 658 \$ 81.64 \$ 73.41 1,153	2.1 50 \$ 74.37 \$ 42.13 245
	per 100 po	unds produced
Total returns Feed cost Return above feed	\$ 64.51 \$ 39.11 \$ 25.40	\$ 32.71 \$ 23.32 \$ 9.39
Farm grains, pound Commercial feeds, pound	581 42	277 81
Total concentrates, pound	623	358
Hay, pound Corn silage, pound Other silage, pound Hay equivalent, pound	65 479 110 273	a a a 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 199	Table 1	14. Average	Costs a	Ind Returns	for Beef-Feeding	Enterprises,	1989 Through 199
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	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 Average weight purchased, pound Price received per 100 pounds sold Price paid per 100 pounds purchased	625 3,694 778 673 1,163 \$ 74.12 \$ 82.79	571 3,069 646 665 1,180 \$ 72.66 \$ 88.11	610 3,585 755 654 1,133 \$ 76.77 \$ 86.65	583 3,446 725 658 1,140 \$ 72.32 \$ 83.35	597 3,448 726 663 1,154 \$ 73.97 \$ 85.23
The paid per too pounds parendsed	¢ 02.75	+	pounds of beef pro		φ 05.25
Cash costs		per 100	pounds of beer pro		
Feed ^a Operating expenses:	\$ 38.44	\$ 41.17	\$ 40.09	\$ 39.67	\$ 39.84
Maintenance and power ^b Livestock expense Insurance, taxes, and overhead Interest on cattle ^c	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 Total returns ^e	\$ 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

assumed to have been marketable. ^b Includes utilities, machinery, equipment and building repairs, machine hire, and fuel. ^c 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

^d Includes machinery, equipment, and building depreciation. ^e 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.

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 facilities.

These data do not show the wide variation in profits among cattle-feeding programs. The data in Tables 9, 10, and 13 on Illinois feeder-cattle enterprises reflect the composite results of all qualities and ages of cattle fed. The data are heavily weighted, with good-to-choice calves and yearlings as the predominant cattle-feeding system. Most farmers now feed more than one drove of cattle each year to better utilize their fixed investments in mechanized feedlots.

The return above the cost of feed and purchased animals averaged \$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 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 Farm

		All _			Effici	end	су	
	1	arms			High ^a			Low ^b
Number of farms		178			57			62
Number of cows Milk cows dry, percent Animal units in herd		69.5 12.9 127			69.7 12.6 133			64.8 12.8 119
Total returns Value of feed fed Returns per \$100 of	\$\$	184,611 87,431			212,984 91,058		\$1 \$	147,168 80,587
feed fed Returns above feed	\$	211		\$	233		\$	182
per cow Total milk produced,	\$	1,398		\$	1,749		\$	1,027
100 pounds Pounds of milk		11,902			13,058			9,998
per cow		17,125			18,734			15,429
Pounds of butterfat per cow		637			702			570
Total beef produced, pound		47,686			57,309			37,494
Pounds of beef per cow		686			822			578
Death loss, percent of pounds produced		9.0			6.7			12.7
Price received for: 100 pounds of milk 100 pounds of beef Per unit of milk and beef: ^c		13.07 60.54		\$ \$	13.29 63.57		\$ \$	12.89 56.59
Feed cost Grain, pound Protein and	\$	52.44 306	:	\$	48.46 297		\$	58.61 327
minerals, pound		<u>110</u>			102			125
Total concentrates, pound Hay and dry		416			399			452
roughage, pound Corn silage, pound Other silage, pound		250 475 439			217 436 376			296 547 504
Pasture days Pasture days per		d						• • •
animal unit Hay equivalent per		10			11			12
cow, ton Concentrates per cow,		7.4			7.4			7.7
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 Cos	s and Returns by	Size of Herd,	1990 Through 1992
---------------------------------------	------------------	---------------	-------------------

	40 t	o 79 cows in I	herd	80 or mo	o <mark>re co</mark> ws in h	herd
	1992	1991	1990	1992	1991	1990
Number of farms	81	80	102	52	59	57
Tillable acres Number of cows Milk per cow, pound	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 pounds	s of milk produced -		
Price received	\$ 13.25	\$ 11.82	\$ 13.87	. \$ 13.07	\$ 11.90	\$ 14.03
Cash costs Feed Operating expenses: Maintenance and power ^a Livestock expense Insurance, taxes, and overhead Total operating expenses	\$ 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 non-feed 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
	All Idinis	Solu	
Number of farms	254	72	62
Number of cows in herd Animal units in herd Total pounds produced Beef per cow in herd,	47 72 34,394	52 70 24,606	44 77 47,885
pound	732	473	1,088
Total returns Value of feed fed Returns per \$100 of	\$25,117 \$17,678	\$20,690 \$15,355	\$31,127 \$21,584
feed fed Returns above feed	\$ 142	\$ 134	\$ 144
Death loss, pound Percent of pounds	\$ 158 1,562	\$ 102 1,788	\$216 1,511
produced Market animals sold	4.5	7.2	3.1
Weight per animal Price received per	806	608	1,051
100 pounds	\$ 78.32	\$ 81.13	\$ 72.35
	per 100	pounds proc	luced
Feed cost Grain, pound Protein and minerals,	\$51.39 268	\$ 62.40 204	\$ 45.07 311
pound	36	34	35
Total concentrates, pound Hay and dry	304	238	346
roughage, pound Corn silage, pound	651 355	983 317	446 371
Other silage, pound Pasture days	134 30	73 47	221 19
Pasture days per animal unit	144	166	120
Hay equivalent per cow, tons	5.7	5.3	6.1

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 Total returns Value of feed fed Returns per \$100 of feed fed	6,751 \$3,344 \$2,868 \$ 116
Percent lamb crop Death loss, pound Percent of pounds produced	147 574 8.5
per 100 pounds pr Price received Feed cost Concentrates, pound Hay, pound Corn silage, pound Pasture days Hay equivalent, pound	\$48.51 \$42.48 280

The return per \$100 of feed fed to beef-cow herds averaged \$142 in 1992. The return for the 5year 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 hundredweight, 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, financial summaries, investments, land use, and crop yields for different sizes and types of Illinois farms are reported in Tables 19 to 27a. Table 19. 1992 Average Return, Costs, and Financial Summary by Size and Management Returns for Northern and Central Illinois Grain Farms

340-799 Hinh 25%	110	646 629 1.0 1.0 1.1 0 1 1.0	236,838 51 2,941 1,588 241,419	43,171 27,964 8,613 19,103 79	12,299 5,913 10,732 58,786	6,65	1.29 228,227	198,605 31,888 11,136 410 601		87,874 153,547 11,737 1 315	
I IC	110	5000 5.0,478 5.0,478 5.0,478 5.0,475 5.0,475 5.0,000 5.0,475 5.0,000 5.0,475 5.0,0000 5.0,0000 5.0,0000 5.0,0000 5.0,00000 5.0,0000000000	150,302 22 1,628 1,808 153,759	39,822 27,637 9,684 19,783	$\circ \circ - \circ \circ$	8,27 4,05	0.91 140,712	150,006 (3,057) 7,281 536 30	153,759 80,801 413 446 77		58,824 21,304 2,432 3.39
All Farms	847	803 92 3.6 0 12 0 12 0	275,357 186 2,833 1,929 280,306	58,662 37,202 11,232 23,831 179	0004	1,67 1,02 9,66	1.16 214,948	244,349 24,351 12,481 12,481 12,481 1081 211	OMOMO	00-0	$O_{10} O_{1}$
Your Farm											
Over 1199	132	1548 1500 92 10.5 10.5 10.5	543,242 475 5,789 3,798 553,304	111,424 68,826 19,547 38,893 396	0 0 0 A	444	1.22 265,105	481,393 52,304 23,927 632 4,561 390	- 21 M O Q	-0044	.166
800-1199	214	966 9330 4.552 0-33 0-33 0-33 0-33 0-33 0-33 0-33 0-3	333,929 266 3,253 1,777 339,225	71,167 45,374 12,710 25,328 175	18,24 8,45 17,76 87,99	7,20 67 2,69	1.18 246,229	293,000 31,177 15,151 739 541 300	00100C		177,113 74,068 68,167 6.69
340-799	4	222 262 13.00 1.40 1.40 1.40 1.40 1.40 1.40 1.40 1	192,034 89 1,988 1,581 195,691	42,014 26,844 8,848 19,503	0,86 5,38 0,19 2,22	<u>93</u> 92	1.11 180,994	171,659 15,385 8,986 247 446 140	100 00 00 D		
180-339	60	278 92 0.1.5 00 1.5 00	89,527 (16) 1,052 91,485	20,343 14,611 5,192 17,166	5,696 3,247 5,311 25,501	97,207 837 (4,884)	0.94 95,615	83,603 4,405 3,456 64 22 21	91,485 44,509 (428) 123 56	44,260 47,225 5,462 837	42,600 18,464 11,537 3.78
Range in size (total acres) 180-339 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 Beef produced, hundredweight Pork produced, hundredweight	Crop returns per farm Crop returns Livestock returns above feed Custom work Other farm receipts Value of farm production	Crop expenses Crop expenses Power and equipment Building and fence Labor Livestock services and subplies	Taxes Insurance and miscellaneous Interest on nonland capital Land charge or net rent	Total nonfeed cost Capital account adjustment Management returns	Farm 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) * Labor & mgt. income per operator Rate earned on investment, %

		0.1				1 :		
Hange in size (total acres)	180-339	340-799	800-1199	Over 1199	Your Farm	All Farms	1010	340-799 Uich 658/
Management returns						1	%cz MoJ	HIGN 25%
Number of farms	60	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	36.92	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
ight 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	6.99	4.21
Fuel and oil	9.29	7.87	7.91	7.66		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		9.42	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
abor unnaid	62 30	3154	19 93	14.55		23.63	34 75	27 R7
abor hired	1 84	88.6	7 11	11.38		7.07	662	050
l abor total	64 14	35.41	27 04	25.03	and a state of the	2071	41.37	20.37
Value of food fod			10.13					0.00
	11.00			0.40				00.00
Capital purchases Onerator interest paid	10.12	24.21	24.U4 15.88	20.02 78.71		24.23	35.34	20.29
	01.01	01.01		10.01		+0.01		
Crop returns	334.53	348.71	356.55	362.18		354.81	314.30	376.54
	(00.0)	01.0	0.28	0.32		0.24	c0.0 201 200	80.0
Value of farm production	341.85	355.35	362.21	368.89		361.19	321.53	383.82
	303.23	019.09	300.00	301.98		311.41	100.00	2700.70
management returns	(07.01)	31.44	17.00	02.20		11.16	(28'38)	GL.69
	* 11 *	0 * *	100	000		007	00	L
	104	140	97/	1,239		400	071	C21
	26,807	115,7/3	199,137	331,815		166,327	100,529	137,825
						101.01		
hidchinely and auto buildings and fance	0 781	2000'CZ	004,20	200,08 207,25		42,421	29,239	23,549
soil fertility	03'0 08		200,27	171		10'01	000	
Value of land (current)	807 160	719 910 1	2 005 000	207 212 2		1 7 1 1 5 5 0		
Total farm investment	686 100		2,030,009	2 81 1 277		1,141,009	1,030,340	1,039,000
Total investment her acre	297 C		207'0'0'3 77E			1,01,015,1	617'447'1 7 7 7 7	
Machinany invest har till acre	101'7 10	2++-7 7	0 1 1 1 1 1 1 1	204,7		A,400	C.4/4	A.440
Percent tillable land in	1	11	00	5		<u></u>	ľ0	10
Corn and corn silade	52 0	510	7 07	50.7		502	л1 С	50.7
Sovheans	45 0 45 0	0.10	1.04	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0		2000	0.10	100
Wheat	00	2 C	0	i C				
Other small orain				10			1.0	
Diverted acres	0.0	- 10	200			- 4		
	20	0,0	2 4			0.0	0 L	
All flay allu pasture	7.0	0.Z	0.1	0.1		2.0	0.0	1.0
Crop yields, pusnels per acre				ļ			0	
	105	169	1/4	1/1		1/3	153	182
Soybeans	47	48	49	20		49	46	50
	-	c	C	CL				

Table 19a. 1992 Average Operating Costs, Investments, and Land Use by Size and Management Returns for Northern and Central Illinois Grain Earnewith Sould Betinge from 86 to 100

	97 76	677 654 14.0 1.1 00 00	1,4	o,40 3,20 6,99 7,59	ဝ တ်ဖတ်	0 - 0	-/- 1.3 1,88	185,563 40,632 9,378 310		84,076 (126) (203)		845	
	76 25%	540 497 1.0 1.3 0 1 1 1	144,748 84 1,337 1,049	< (10)01	21,141 174 8,290 5,493 9,782	39,864 167,504 1,000 (19,285)	0'9	136,817 4,933 6,300 114	855 91 147,217	83,916 364 598	89 84,967 62,250 13,884	1,000 49,366 17,525	heavy
All Farms	595	797 75.5 2.7 2.7 0	261,027 260 3,134 1,772	- 00 C	23,241 185 7,386 13,440	6,01 1,20	1.1 6,10	221,706 35,424 10,713 325	1,5	11,1 2,4 6	299 114,499 151,694 17,089	0010	dr. 2
Your Farm													55 85 are those with poorly
Over 1199	97	1,714 1,609 23.3 7.8 16	N0001	32,13 17,56 72,53 20,35		2,946 3,63 3,63	1.2 4,24	436,953 80,014 22,745 747	6,76 1,54 2,15	14,66 7,66 2,54	737 225,612 306,543 33,478	2,94 6,01 15	100,498 7.67 from 56 to
800-1199	150	964 916 3.1 00 3.1 00 3.1 00	304,980 153 3,783 1,876	68,46 68,46 43,51 12,67	23,611 191 18,681 15,809 15,809	<u>2000</u> 000	1.2 9,64	255,331 45,051 11,575 333	1,2 10,7	129,167 2,170 251	312 131,900 178,893 20.726	0 0 0 0 0 0 0	0,2 7. 7. 7.0
340-799	303	559 13.77 1.22 1.22 1.22	182,172 2,071 1,280		20,070 1444 5,634 9,327	2000	1.13 165,190	158,238 20,238 7,403 228	316 158 185,634	79,633 1,145 252	195 81,225 104,408 11.658	93,652 41,592	415 1.38 lar.
180-339	45	272 256 0.2 0.2 00	84,711 125 658 1,174	20,967 20,967 14,919 3,972	17,990 88 3,976 3,035 4,874	90,616 533 533 (3,414)	0.96 86,285	72,990 9,468 4,191 39	19 0 86,668	40,450 608 (49)	41,025 45,643 6.206	533 39,969 21,904	13,881 3.92 Iding to the ne
Range in size (total acres) 180-339	Wanagement returns 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	Crop returns per lann Crop returns Livestock returns above feed Custom work Other farm receipts	Crop expenses Crop expenses Power and equipment Building and fence	Labor Livestock services and supplies Taxes Insurance and miscellaneous Interest on nonland capital	Land charge of het rent Total nonfeed cost Capital account adjustment Management returns	Farm 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) *	Labor & mgt. income per operator 13,881 39, Rate earned on investment, % 3.92 6 Note: Variations in totals due to rounding to the nearest dol * Interest advanced from operator's charactered

Table 20. 1992 Average Return, Costs, and Financial Summary by Size and Management Returns for Northern and Central Illinois Grain Farms with Soil Ratings from 56 to 85

180-339	340-799	800-1199	Over 1199	Your Farm	All Farms	340- 10w 25%	340-799 240-799
	303	150	67		595	%cz woj	%cz ugih 76
31	31.72	32.42	33.61		32.68	37.58	27.71
23 1 8 2	46 03	24.52	22.31		23.44	27.36 22.25	21.36
74		74.74	73.05		74.13	87.15	66.10
4	60	3.79	3.14		3.93	5.09	4.01
-	3.26	11.98	11.89		12.47	17.35	11.39
	07.C	4.74	4.04 8.26		4.63	8.60	7.40
16	6.81	19.29	17.73		17.90	21.38	13.88
47	.67	47.51	45.07		47.03	59.54	41.30
,, ,	21.0	CO.6	0.20		9.03	10.49	0.15 0.78
- 4	1.02	3.31	3.07		3.52	6.47	2.68
15	5.46	13.83	12.64		14.06	19.93	11.61
ŝ	32.96 2.05	20.45 5 20	14.40		24.11	38.26	29.57
195	010	25.78	01.30		21.00	4.30	21.2
30		0.16	0.25		0.17	0.13	0.08
23	23.45	26.37	24.63		24.65	33.01	15.78
18	18.12	16.65	19.58		18.03	17.14	16.80
325.97	25.97	332.94	323.83		327.40	291.41	354.16
332.17	17	339.28	330.66		333.88	296.38	360.27
294.39	30	281.65 58.62	268.09 64.40		283.49	337.23 738 831	265.64
					2	(00:00)	00.00
207 94,669	207	815 153,390	1,409 254,003		556 132,244	193 82,159	21 115,779
24,900	00	53,616 19 195	88,916 32 982		41,559 18,235	30,738 20.455	24,456
	74	88	93		76	134	53
1,045,068	800	1,686,570	2,919,057		1,470,704	949,146	1,177,381
2,006	573 000	1,986 1,986	3,290,453		1,663,368	1,082,826 2,005	1,328,131
	45	29	55		52	62	37
Ú) Ŧ	51.3 10.5	50.3	51.9		51.3	53.8	47.7
ŕ	0.0	0.3	0.0		4 0.0	0.8	0.4
	0.1	0.1	0.2		0.0	0.0	0.1
	4.4	א גר ס גי	9.0 4.0		0.0 0	1.5 7	n ⊂ n ⊂
		2	r D		1.0		1.0
•	153	154	155		154	138	163
	4 u 0 c	41	40 7 0 7 0		40	4 0 V 0	48 7.7

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

	31-39 11	782 729 35.0 21.1 7,150 7,150	264,977 138,403 1,595 1,929 406,905	8,929 9,200 9,2000 9,20000000000	1,9,932 12,385 34,965 69,603 368,081 1,918 40,742	1.11 139,692	515,401 6,249 9,735 1,039 116,275	9,24	2,83 33 33	57 22	6,10 1,91	34 Na
Σı	21-27 32		200,161 85,333 1,455 2,336 2,336 285,285	9,119 1,19 1,19 1,19 1,19 1,19 1,19	7,993 24,991 55,417 260,256 2,928 32,028	1.11 143,336	371,851 20,695 9,533 81,719 81,719	28	27,78 2,19 (5	20812	7,02	67,125 67,125 44,640
All Farms	128		195,104 104,545 1,513 2,497 303,660	43,47,23	278,938 3,119 27,840	1.09 125,120	400,234 13,271 8,476 92,808	00	5,14 1,14	151	9,16 3,11	131,104 62,528 42,759 6 54
Your Farm												
Over 799	34		345,337 156,327 3,054 3,914 508,633	40264	46,571 45,571 45,571 45,571 464,272 3,768 48,128	1.10 160,509	639,387 25,432 14,697 1,023 127,178	44,72 08,63	44,36 2,35 46	37 06	48,03 3,76	20 04
500-799	40		201,048 104,902 1,149 3,811 3,811 3,0,911	76 11 11 12 12 12 12 12 12 12 12 12 12 12	-3,724 -3,724 27,013 280,999 2,849 32,760	1.11 105,498		27,30	47,45 1,41 (10	27 04 87	9,46 2,84	001010
260-499	38	377 356 91 20.8 7.2 49 49 49 49	111,784 85,674 1,110 728 199,296	016842	5,655 17,5665 33,053 184,407 4,114 19,003	1.08 114,891		00	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	NAID	0,53	
60-259	16	191 183 183 3.3 3.3 2,396 2,396	58,883 38,437 106 401 97,828	13,879 20,695 7,370 23,566 4,781	4,153 3,767 8,929 17,324 104,464 51 (6,584)	0.94 81,914	150,370 7,082 2,662 168 46,962	15,493 97,828	51,557 1,252 99	52,908 44,920	8,803 51	30,150 17,151 9,259 3,71
Range in size (total acres) 60-25	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 Beef produced, hundredweight Pork produced, hundredweight	Dollar returns per farm Crop returns Livestock returns above feed Custom work Other farm receipts Value of farm production	supplies	I actor Insurance and miscellaneous Interest on nonland capital Land charge or net rent Total nonfeed cost Capital account adjustment Management returns	Farm production per \$1.00 of nonfeed costs Farm production per man	ange)	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 rarm income * (operator's share) * Labor & mgt. income per operator Rate earned on investment, %

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.

is of Labor	31-39		LO LO	20.04 27 A1	19.80	82.65	13.96	23.46	6.47	11.26	36.15	91.30	8./1 7.45	04.70	43.24	28.43	52.38	80.81	236.17	51.16	27.30	363.39	189.81	558.03	55.87	10.00	130,534	164,573	73 790	107,812	254	1,657,216	2,134,170	101	C C 5	42.3	0.0	0.0 0.0	0.7	2.1	177	20	orairie soils.
Months of	21-27			07.00	18.30	72.82	10.40	21.45	8.02	11.52	28.22	79.62	7.70 5.50	50.0 09.71	28.89	36.86	21.81	58.67	234.57	44.95	29.59	324.49	138.34	468.98	51.91	36.10	110,423	133,926	48 784	54,095	512	1,319,450	2.513	62	58.8	32.1	0.6	0 C	0.90) i	157	40 A 8	100 are those with nearly level, well-drained prairie soils
All Farms		128	00.05	55.05 10.30	18.56	74.72	14.23	23.63	8.53	12.91	29.00	88.31	12.8	20.30	36.31	35.74	35.06	70.80	258.51	51.81	32.43	329.85	176.75	513.39	C.114	D. IT	112,100	130,448	50 906	68,648	174	1,318,914	2.566	86	5.5.7	37.3	0.4	1.1	1.7	-	159	49 7	vith nearly leve
Your Farm	5															A REAL PROPERTY AND A REAL PROPERTY A REAL PROPERTY AND A REAL PROPERTY AND A REAL PRO																											00 are those w
Over 799		34	000	26.34	18.39	11.11	13.26	22.03	8,32	11.09	28.11	82.82	7 54	18.31	33.15	24.82	35.93	60.75	209.66	54.96	29.01	333.84	151.12	491.70	440.01	00.04	170,177	233,377	88 032	121,193	586	2,332,906	2.441	86	5 42	38.2	0.5	0.8	2.2 -	<u>-</u>	163	49	as from 86 to 1
500-799	-	40	0000	25.10	17.31	71.04	13.14	23.44	7.39	13.63	27.54	85.13	0.97 8 8 8	0.00	39.26	32.96	35.15	68.11	277.71	48.74	32.12	334.01	174.28	516.53	400.03		118,474	128,149	47 464	69,854	0	1,324,935	2.659	52	57 1	36.7	0.2	L. L	0.0	0.0	156	49	Farms with soil ratings from 86 to
260-499		38	00.00	50.05 00.00	20.85	73.10	16.55	25.86	11.37	15.13	34.03	102.93	0.00 0.00	0.00	38.42	57.32	31.87	89.19	328.54	53.55	38.42	313.98	240.64	559.78	011.90	2	81,007	80,199	35 606	41,419	63	1026,979	2.716	100	56 1	36.3	ອ ເ	U. L. C.	4. C	0	153	48	dollar.
60-259		16	cre 20.22	26.20	20.28	75.71	24.23	34.09	7.41	18.62	28.55	112.89	19.11 28.8	19.47	40.21	90.01	38.55	128.56	363.62	31.36	48.26	321.22	209.68	533.67	10.800	100.001	46,599	36,811	15 046	18,640	0	412,474 520 520	2.766	82	58 57 57	34.3	0.0	1 0	1.2	L.1	152	46	ding to the nea
with Soil Ratings from 86 to 100 Bance in size (total acres) 60–259	Management returns	Number of farms	Some costs and returns per tillable acre	Destinides	Seed and other crop	Crop total	Light vehicle and utilities	Māchinery repairs, supplies	Machinery hire	Fuel and oil	Machinery depreciation	Power and equipment total	Urying and storage	Building depreciation	Building total	Labor, unpaid	Labor, hired	Labor total	Value of feed fed	Capital purchases	Operator interest paid	Crop returns	Livestock return above feed	Value of farm production	Nanagement returns	Farm investment	Livestock inventory	Grain inventory Bemaining cost in	machinery and auto	buildings and fence	soil fertility	Value of land (current) Total farm investment	Total investment per acre	Machinery invest. per till. acre	Percent tillable land in Corn and corn silade	Soybeans	Wheat	Other small grain	Diverted acres	Crop vields, bushels per acre	Corr	Soybeans Wheat	Note: Variations in totals due to rounding to the nearest

Table 21a. 1992 Average Operating Costs, Investments, and Land Use by Size and Months of Labor for Northern and Central Illinois Hog Farms

Hog Farms	Aonths of Labor 31-39	21	820	689	74	35.9	19.6	241	8,580	0				1,676		371,707	
inancial Summary by Size and Months of Labor for Northern and Central Illinois Hog Farms	21-27	55	668	575	77	24.7	8.5	240	5,422	0		174,206	89,515	1,765	2,708	268,195	
orthern and	All Farms	240	605	524	76	24.4	10.5	259	4,921	0		159,110	84,274	2,001	2,840	248,225	
f Labor for N	Your Farm																
and Months o	Over 799	58	1,136	966	76	37.3	21.6	448	7,469	0		294,379	134,649	3,998	4,546	437,570	
ımary by Size	500-799	71	641	557	75	25.0	11.5	238	5,693	0		167,353	96,786	2,051	4,151	270,341	
Financial Sum	260-499	69	375	331	77	18.4	4.9	223	3,112	0		101,989	50,395	1,231	1,364	154,980	
), Costs, and om 56 to 85	60-259	42	189	173	74	15.4	2.6	94	3,069			52,220	49,216	421	691	102,549	
Table 22. 1992 Average Return, Costs, and Fi 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	Beef produced, hundredweight	Pork produced, hundredweight	Dairy cows, number	Dollar returns per farm	Crop returns	Livestock returns above feed	Custom work	Other farm receipts	Value of farm production	Dollar costs per farm

27 31-39 55 21 31-39 55 21	820 689 74	35.9 19.6	241 8,580 0	_	150,869 1.676	1	371,707	50,975	61,452 34 555	64,690	18,890	17,977	34,886	345.216	934	t	; ,	124,165	516,910	14,566 7 175	794	137,021	30,717	191 954	3,482	846	262	130,544	39,035	934	137,062 60,502	37,819 6.84
21-27 55	668 575 73	24.7	5,422 0	4,20	89,515 1 765	2,70	10	1,53	52,295 18 577) (0,00 (0,00)	2,65	7,85	3,84	th	544	06'1	1.0	130,317	365,374	9,777 6,873	571	90,184	24,217	125 414	2,975	84	217	120,030	29,070	544	110,978 50,034	29,333 6.23
240	605 524 326	24.4	4,921 0	159,110	84,274 2,001	2,840	248,225	8,70	50	9,60	0,97	0 0 0 0	80	<u>7,55</u>	578	0+1	1.0	122,032	339,131	9,979 6,822	544	80,974	27,271	123 492	2,573	218	148	ν τ α τ α	25.88	57	ດດ	25,362 5.86
58	1,136 966 36		7,469 0	4,37	134,649	4,54		0,18	25 25	6,84	6,60 7,60	4,05 05	0,77	3,29	1,558	, oo'n	0.1	140,617	ത	5,843 9 941	957	110,700	36,439	220.436	5,878	155	288	240,150	45,459	1,558	166,915 60,188	34,881 6.05
71	641 557 35	25.0 11.5	5,693 0	7,35	96,786 2,051	12		1,80	49,127 18,000	1,03	2,54	9,0- 0,42	61	<u>3,43</u> 9,85			0.1	129,742		1,1 1,1	പ	8,0	ഹര	0, 4 0, 0	50	433		2 v 2 v	24,638		107,991 47,863	32,600 6.52
69	375 331 33	18.4 4.9	3,112 0	101,989	50,395 1.231	200	154,980		വ വ	20	ດູດ		O L	0 <u>-</u>	276	Ś,	1.02	200,101	216,877	6,099 5,743	413	51,261	22,870 166,001	73.073	1,009	177	102	14,302 80,630	16,539	276	64,377 30,887	20,700 5.29
42	189 173 74	15.4 2.6	3,069 1	52,220	49,216 421	691	102,549	13,566	26,793 11 567	23,118	6,895 2 E 2 E	4,150	11,272	114,124	540		06.0	19,933	169,894	3,116 2,643	243	58,804	14,541	53,559	594	2	37	24, 130 48 255	16,290	540	32,605 16,645	7,640 2.91
Management returns Number of farms	Total acres in farm Acres of 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	Other farm receipts	Value of farm production	Uollar costs per tarm Crop expenses	Power and equipment Building and fence	Labor	Livestock services and supplies	Insurance and miscellaneous	Interest on nonland capital	Total nonfeed cost	Capital account adjustment	Farm production per \$1.00	of nonfeed costs	Farm production per man	Cash operating income	Inventory change Accts, receivable (net change)	Farm products used		Less purchased livestock		Prepaid expense (-if increased)	Accts. payable (+if increased)	Farm-produced inputs	l utal uperating expense Income hefore denreciation	Less depreciation	Capital account adjustment	Net farm income * (operator's share) *	Labor & mgt. income per operator Rate earned on investment, %

		ור						
Range in size (total acres)	60-259	260-499	500-799	Over 799	Your Farm	All Farms	Montl	Months of Labor
Management returns							21-27	31-39
Number of farms	42	69	71	58		240	55	21
Some costs and returns per tillable acre	cre							
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	90.96	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	6.09	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		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	4190	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	659.59	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
Farm investment								
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
machinery and auto	22,146	29,465	45,787	81,982		45,704	52,824	60,149
pullaings and rence	30,040	119'62	128,13	115,165		58,422	51,767	103,263
			124	/11		9/ 200	//	3/1
	314,910	032,300	1,035,499	1,826,810		984,730	1,06/,721	1,196,460
Total investment ner acre	400,117 2456	000'700	-,044,909 0 000	04C' / 0C' Z		C4C'062'L	620,190,1	1,045,224
Machinery invest ner till acre	128	1,1 70 70	200'1 000	4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		201.2	200,2	700,2 72
Percent tillable land in	-	}	1	2		5	JC	
Corn and corn silage	68.2	60.5	59.9	53.6		57.7	56.6	60.3
Soybeans	16.9	27.1	29.8	34.8		30.8	32.5	27.8
Wheat	0.1	0.7	1.6	<u>1</u> .0		1.5	1.4	2.0
Other small grain	3.0	2.1	1.1	1.0		1.4	1.2	1.3
Diverted acres	2.7	2.9	3.7	4.1		3.7	4.4	3.1
All hay and pasture	6.4	6.4	3.3	3.8		4.3	3.1	4.2
Crop yields, bushels per acre								
Corn	140	141	144	151		146	148	147
Soybeans	45	47	45	47		47	46	47
wneat	55	52	44	54		20	48	53
Note: Variations in totals due to rounding to the nearest dollar.	ding to the ne	arest dollar. F	arms with soil ra	tings from 56 to	85 are those v	vith poorly dra	Farms with soil ratings from 56 to 85 are those with poorly drained, heavy-till, and timber soils	and timber soils.

 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

Table 23. 1992 Average Return, Costs, and Financial Summary by Size and Management Returns for Southern Illinois Grain Farms with

2	340-799 Hinh 25%		642 610 610 400 459 459	7,17 7,59 1,98	287	39,128 28,478 4,765 21,128	л 20 20 20 20 20 20 20 20 20 20 20 20 20	9,40 9,01 7,40	2000 2000 2000	1.3	169,856	173,405 31,896 2,881 964	200	,28	3,52 26 26	87	72	11,09	769	4,01	
		58	5554 560 1 4.0 663 663 663	220,353		37,545 27,940 3,857 21,124	57 4 11	4,35 8,31 65	49,49	0.8	99,233	117,033 4,809 822 128	3,588	ອັ •	α 4 Ο 4	4 თ	70,052 45,862	, 0 1	35,039	92	
	All Farms	552	1,002 929 1929 19.0 403	8,94 7,33 1,96	ວັ	63,900 47,970 7,084	000 000 7.32	1000	4,64 1,49 7,86	1.2	177,192	251,958 39,150 3,603	10,344	281,022	ν. 1 2,4,	1,0	122,079	20,073	140,363	67,810	
	Your Farm																				
~ 1	Over 1199	144	1,839 1,719 29.0 103 633 633	16,24 3,47 5,33	Q/1	118,523 88,385 13,563 44,251	1,50 3,19	312	6,57 1,78	1.3	221,761	477,568 77,148 7,647 1,968	$38 \\ 38 \\ 38 \\ 38 \\ 38 \\ 38 \\ 38 \\ 38 \\$	75	20,30 (1,46	1,78	,68 ,06	38,72	,13	25,98	
	800-1199	149	976 905 1859 18.4 449		3	62,718 46,011 6,342 27,433	1,01	020	6,24 1,58 8,27	1.2	177,822	240,081 41,704 3,539 1.333	64	93	18,00 20,51	1,15	91	8,25 1,58		1,12	
	340-799	231	585 534 1459 2812 264 264	5,15 1,30 1,44	х х	36,427 27,905 4,167 20,970	67 67 444	4,05 8,54 7,84	30 30	.1	130,931	141,541 17,828 1,517 803	うる	89,000	ν ν ν ν	20	0 0 0 0 0 0 0	1,22		36,30	earest dollar.
to 85	180-339	28	275 250 12.2 132	60,914 3,383 612 972	00,881	15,935 16,075 1,774 18,287	310	2,184 4,102 12,408	73,051 1,061 (6,108)	0.90	64,801	65,812 6,055 351 340	3,993 2,685	65,881 22,207	33,307 (1,268)	227	32,345 33,536	6,813 1.061	27,785 14,398	10,868 2.97	nding to the ne
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 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 Other farm receipts	Value of tarm production Dollar costs per farm	Crop expenses Power and equipment Building and fence	Livestock services and supplies Taxes	Insurance and miscellaneous Interest on nonland capital Land charge or net rent	Total nonfeed cost Capital account adjustment Management returns	Farm 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	Prepaid expense (-if increased)	Farm-produced inputs	I otal operating expense Income before depreciation	Less depreciation Capital account adjustment	Net farm income * (operator's share) *	Labor & mgt. income per operator Rate earned on investment, %	Note: Variations in totals due to rounding to the nea

matcell reduction -32 -34 -324 -326	Contraction of the second seco	000	0 400	000 1100					
28 291 149 144 552 10025% High 31,10 30.65 31,77 31,43 532 53,44 553 546 16,21 20,06 50,34 70,43 70,36 53,46 533 55,34 53,36 53,37 53,46 53,30 53,46 53,36 55,34 53,36 53,34 53,34 53,36 53,36 53,36 55,34 53,36 53,34 53,36 53,36 53,36 53,36 2011 2,46 5,56 53,31 51,41 51,56 53,36 2101 2,43 51,41 51,43 51,41 51,66 53,36 2103 21,66 30,30 15,74 51,36 51,36 51,36 210,68 30,31 27,54 51,36 51,36 51,36 51,36 210,69 30,55 21,36 11,339 21,36 21,36 21,36 210,59 21,37	Hange in size (total acres)	180-339	340-799	800-1199	Over 1199	Your Farm	All Farms	340-	-799
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Aanagement returns							Low 25%	High 25%
31.10 30.65 31.77 31.43 31.43 31.43 31.43 31.43 31.43 31.43 31.44 31.43 31.43 31.43 31.44 31.43 31.43 31.43 31.43 31.43 31.43 31.43 31.43 31.43 31.43 31.43 31.43 31.43 31.43 31.43 31.43 31.43 31.44 <t< th=""><th>Number of farms</th><th>28</th><th>231</th><th>149</th><th>144</th><th></th><th>552</th><th>58</th><th>58</th></t<>	Number of farms	28	231	149	144		552	58	58
13.10 20.05 21.77 21.43 15.20 21.44 <t< td=""><td>me costs and returns per tillable a</td><td>cre</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	me costs and returns per tillable a	cre							
18.2 13.06 10.05 10.04 10.05 10.04 10.05 10.06 <th< td=""><td>oil fertility</td><td>31.10</td><td>30.85</td><td>31.77</td><td>31.43</td><td></td><td>31.38</td><td>34.64</td><td>28.40</td></th<>	oil fertility	31.10	30.85	31.77	31.43		31.38	34.64	28.40
(14.4) (16.3) (15.3) (15.3) (15.3) (15.3) (17.3) (15.3) (17.3)	esticides	18.21	21.06	20.54	20.49		20.61	25.46	19.68
the solution of the second state of the second state	eed and other crop	14.48	16.36	16.98	17.02		16,82	17.98	16.05
less 5.94 4.75 3.06 3.30 5.32 <td>Crop total</td> <td>63.79</td> <td>68.27</td> <td>69.29</td> <td>68.94</td> <td></td> <td>68.80</td> <td>78.08</td> <td>64.13</td>	Crop total	63.79	68.27	69.29	68.94		68.80	78.08	64.13
pplies 15.53 15.78 15.84 15.84 15.44 15.44 15.44 17.44 1 nent total 24.69 17.66 17.64 15.64 15.64 17.44 17.44 17.44 17.44 17.44 17.44 17.44 17.44 17.44 17.44 17.44 17.44 17.44 17.44 17.44 17.44 17.44 17.44 19.24 22.66 21.66 17.44 19.24 22.66 22.64 17.44 19.24 22.64 11.43 23.61 22.74 23.63 21.17 23.63 21.17 23.63 21.17 21.66 21.12 22.64 21.67 23.64 11.43 21.25 22.64 21.12 22.66 22.64 21.12 22.66 22.64 21.12 22.66 22.61 22.11 22.66 22.66 22.66 22.66 22.66 22.66 22.116 21.12 22.26 22.66 <	ight vehicle and utilities	5.94	4.75	3.86	3.30		3.83	5.32	4.58
B29 9.443 9.23 9.24 9.24 9.44 14.41 14.41 ment total 24.69 17.60 17.41 19.21 19.44 19.79 14.41 ment total 64.63 17.61 19.21 19.21 19.79 19.79 19.79 2501 23.46 17.61 19.23 23.61 </td <td>achinery repairs, supplies</td> <td>15.53</td> <td>15.78</td> <td>15.84</td> <td>15.54</td> <td></td> <td>15.68</td> <td>17.44</td> <td>14.67</td>	achinery repairs, supplies	15.53	15.78	15.84	15.54		15.68	17.44	14.67
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	lachinery hire	8.29	4.43	4.23	4.24		4.34	4.41	4.23
Ontical 2469 1741 1921 1921 1921 1921 1927 1975 1776 1975 1975 1975 1975 1975 1776 11735 11735 11735 11735 11735 11735 11735 11735 11735 11735 11353 11355	uel and óil	9.89	9.64	9.50	9.12		9.36	11.15	8.64
Thent (total 6435 5230 5083 5141 5165 5311 23333 233333 233333 233333	achinery depreciation	24.69	17.69	17.41	19.21		18.44	19.79	14.56
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Power and equipment total	64.35	52.30	50.83	51,41		51.65	58.11	46.67
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	wing and storage	2.01	2.46	2.56	3.08		2 78	2 33	02.0
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	uilding repair	2.51	2.02	1.69	1.52		1.70	2.58	1 49
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	uilding depreciation	2.58	3.34	2.76	3.30		3.15	3.12	3.62
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Building total	7.10	7.81	7.01	7.89		7 63	8.02	7.81
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	abor unpaid	69.59	34.34	2171	14.39		21.87	38.38	00 00
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	abor. hired	3.61	4.96	8.60	11.35		8.98	22.20	5.42
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Labor total	73.20	39.30	30.31	25.74		30.85	43.93	34.64
1 16.60 20.65 24.81 23.77 20.13 21.13 23.77 20.24 23.40 23.40 23.40 23.40 23.40 23.40 23.40 23.40 23.40 23.40 23.40 23.40 23.40 23.50 23.65 33.53 23.65 33.53 23.65 23	alue of feed fed	22.38	19.29	17.49	12 11	*	15.39	21 22	20.57
Image: constraint of the	apital purchases	16.60	20.63	24.81	23.77		23.19	21 10	18.27
effect 243.83 271.74 286.56 300.29 560.57 234.04 35 tion 263.71 286.55 3015 300.29 6.80 35.307 286.55 3015 234.04 35 ns (24.45) 35.307 286.55 3015 3015 3015 3016 307.89 2210.77 3016.90 3016.90 307.89 2210.77 3016.90 3016.90 $110,378$ 2265.618 $117,042$ $16,753$ 1116.372 219.77 3012.91 302.29 241.06 315.40 $110,378$ 246.567 2112.73 2295.424 62.31 (387.2) 2167.53 217.233 229.2326 $27,367$ 291.75	perator interest paid	20.28	18.63	21.03	17.16		18.58	19.94	20.66
e feed 13.54 9.67 7.96 6.00 7.89 2.800 2	op returns	243.83	271.74	288 58	300.29		289.57	234.04	306.76
tion 263.71 286.55 301.55 312.22 312.22 302.58 241.07 35.91 286.55 312.22 312.22 312.22 312.22 312.22 312.22 312.22 312.22 312.22 312.22 312.22 312.31 (38.24) (38.25) (38.2)	vestock return above feed	13.54	9.67	7.98	6.80		7 89	2 80	12.45
292.41 253.07 238.91 255.67 238.91 257.97 64.39 76.76 62.31 237.21 35.91 76.76 241.86 279.71 68.24 16.753 279.71 68.24 16.753 279.71 68.24 56.112 279.71 68.23 235.91 35.91 35.91 35.91 $35.23,618$ 110.378 241.86 56.112 279.74 56.112 279.73 253.618 110.378 247.86 16.753 36.55 $8,438$ 12.768 110.378 241.86 273.67 56.112 273.67 36.55 $27,367$ 273.67 36.52 273.67 273.67 273.67 273.67 273.67 273.67 273.67 273.67 273.67 273.67 273.67 273.67 273.67 273.67 273.67 273.66 273.67 273.67 273.67 273.67 273.67 273.67 273.67 273.67 273.67 273.66 273.66 27	alue of farm production	263.71	286.55	301.55	312.22		302.58	241.07	324.97
Ins (24.45) 35.91 64.39 76.76 62.31 (38.24) (38.24) (38.24) (38.24) (38.24) (38.24) (38.24) (38.24) (38.24) (38.24) (38.24) (38.24) (38.25) </td <td>stal nonfeed cost</td> <td>292.41</td> <td>253.07</td> <td>238.91</td> <td>236.50</td> <td></td> <td>241.88</td> <td>279.71</td> <td>236.49</td>	stal nonfeed cost	292.41	253.07	238.91	236.50		241.88	279.71	236.49
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	lanagement returns	(24.45)	35.91	64.39	76.76		62.31	(38.24)	93.88
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	m investment								
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	vestock inventory	6,880	13,640	18,642	22,818		17,042	16,753	11,516
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	rain inventory	29,683	73,739	122,233	253,618		131,519	56,112	98,340
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			011				0 0 0 1		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	nacrimery and auto	14,400	25,449	44,913	110,3/8		52,326	21,367	20,927
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	coil fertility		0,4,0 0,7,0	00C'71	28'924 150		14,109	020'0	0,/40
1,1,1,0,004 $1,2,0,0,005$ $1,2,0,0,0,005$ $1,2,0,0,0,005$ $1,3,1,0,0,004$ $1,3,3,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,$	allie of land (current)	205 124	00 662 006		20FC 070 C		141 001 + +	08 69 69	750 000
Till. acre $1,273$ $1,340$ $1,302$ $1,341$ $1,330$ $1,341$ $1,341$ $1,330$ $1,341$ $1,341$ $1,322$ 38.5 <td>otal farm investment</td> <td>250 507</td> <td>784 220</td> <td>1 271 288</td> <td>21200012</td> <td></td> <td>1,110,004</td> <td>742 502</td> <td>020,001</td>	otal farm investment	250 507	784 220	1 271 288	21200012		1,110,004	742 502	020,001
till. acre 60 48 50 64 50 57 57 38.5 39.4 40.5 39.4 40.5 39.7 38.5 39.4 40.5 57 57 37.2 39.3 39.7 38.5 39.1 40.5 38.5 39.1 38.5 39.1 38.5 39.1 38.5 39.1 38.5 39.1 38.5 39.1 38.5 39.1 38.5 39.1 38.5 39.1 38.5 39.1 38.5 39.1 38.5 39.1 38.5 39.1 38.5 3	otal investment per acre	1.273	1.340	1 302	1.341		1 330	1 341	1 385
38.5 39.4 40.5 41.0 37.2 39.8 39.7 38.5 39.1 37.2 39.8 39.7 38.5 39.1 13.5 12.0 12.0 12.2 38.1 13.5 12.0 12.0 12.2 38.2 0.0 0.0 0.1 0.0 0.1 14.6 2.5 3.5 2.1 1.4 1.4 136 146 149 156 1.9 5.1 2.8 3.1 1.9 5.1 6 146 149 156 1.4 5.3 4.3 4.5 1.4 1.9 5.4 3.7 2.1 1.4 3.1 7.4 1.4 1.4 1.9 5.1	achinery invest. per till. acre	60	48	50))		56	22	34
38.5 39.4 40.5 41.0 37.2 39.8 39.7 38.5 35.4 37.2 39.8 39.7 38.5 35.4 37.2 39.8 39.7 38.5 35.4 13.5 12.0 12.0 12.2 38.5 0.0 0.0 0.1 0.0 12.2 38.1 2.5 3.5 3.2 2.8 3.1 4.1 136 146 1.4 1.4 1.4 4.1 136 146 149 156 1.9 5.1 131 5.5 2.7 2.8 3.1 4.1 4.1 4.1 136 146 149 156 1.4 1.9 5.1 5.1 5.5 2.7 2.1 1.4 1.9 5.1 1.31 5.1 5.4 45 45 1.4 1.9 5.1 1.31 5.3 45 45 1.5 1.31 1.31 1.31	rcent tillable land in								
37.2 39.3 39.7 38.5 39.1 38.2 13.5 12.0 12.0 12.2 39.1 38.2 13.5 12.0 12.0 12.2 12.1 14.6 0.0 0.0 0.1 0.0 0.0 0.0 2.5 3.5 3.2 2.8 3.1 4.1 13.6 146 149 1.4 1.4 136 146 149 156 151 131 5.5 2.7 2.1 1.4 1.9 5.1 136 146 149 156 151 131 5.4 43 45 45 51 5.3 5.1 5.1 51 51	orn and corn silage	38.5	39.4	40.5	41.0		40.5	35.4	42.0
13.5 12.0 12.0 12.1 13.5 12.0 12.1 12.1 0.0 0.0 0.1 0.0 0.1 0.1 0.0 0.1 2.5 3.5 3.2 2.8 3.5 3.2 2.8 3.1 136 146 1.4 1.4 136 146 149 156 43 43 45 151 5.4 45 151 131 5.4 45 151 331	oypeans	37.2	39.8	39.7	38.5		39.1	38.2	40.9
2.5 9.0 0.0 0.0 2.5 3.5 9.1 0.0 2.5 3.5 3.1 9.0 2.5 3.5 2.1 1.4 136 146 1.4 1.9 136 146 149 156 137 156 151 131 138 143 156 144 139 156 143 151	riedi thor small aroin	0.0	0.2	12.0	12.2		12.1	14.6	11.0
7.5 5.5 5.5 5.1 5.5 2.7 2.6 5.1 5.5 2.7 2.1 1.4 136 146 149 156 136 146 149 156 140 156 140 5.7 2.1 1.9 5.8 2.7 2.1 136 146 149 140 156 141 5.4 131 5.3 5.1	ther sinal grain	0.0	0.0	c c	0.0		0.0	0.7	0.0
1.3 2.1 1.4 9.1 136 146 149 156 136 146 149 13 131 13 131 13 131 13 131 13 131 13 131 13 131 13 131 13 131 13 131 13 131 13 131 13 131 13 131 13 131 13 131	they and motion		10	2.0				4 L	0.1
136 146 149 156 151 131 40 43 45 45 44 39 53 55 50 57 53	indy and pasture	0.0	2.1	N.	4. 1			0.L	L.L
ans 43 43 45 51 51	orn	136	146	110	156		4 LT 4	101	160
	ovbeans	40		5 T	200		2	- 00	100
	heat	o en F VC	ר ער די ער				44 7 7	ה ער רי רי	- T - T

Table 23a. 1992 Average Operating Costs, Investments, and Land Use by Size and Management Returns for Southern Illinois Grain Farms

Table 24. 1992 Average Return, Costs, and Financial Summary by Size and Months of Labor for Southern Illinois Hog Farms with Soil Ratings from 36 to 85

of Labo	10 31-39 23 31-39	809 761 761 19.6 19.6 363 8,363 0	214,551 124,224 3,612 2,235 344,622	47,909 67,069 21,026 56,185 20,165 6,270	3,70 9,62 9,62 1,22 3,48	1.14 119,938	0, 2, 2, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,	344,622 172,502 3,709 (174)	1 IN 4 0 N	104 000
	21-2/ 23	648 589 589 60 24.2 8.4 104 7.0 0	156,431 71,587 1,151 15,271 244,440	41,374 45,593 11,929 36,158 10,483 5,934	85,0528	1.12 121,232	334,393 23,642 23,642 1,104 88,104 88,043	244,440 1224,440 1,492 (134)	124,939 119,501 20,676 474	99,300 47,222 42,913 7,72
All Farms	116	658 608 608 9.4 167 167	169,774 78,773 1,452 5,409 255,408	42,465 48,369 12,984 36,900 10,180 5,388	83 83 83 83 83 83 83 83 83 83 83 83 83 8	1.17 128,253	340,169 22,572 1,659 1,310 90,073	86 17 86 17 10	121,570 133,839 22,515 388	111,712 62,017 47,548 8.59
Your Farm										
Over 799	30	1,217 1,131 37.5 37.5 18.3 18.3 8,293 8,293	336,207 141,584 2,945 15,752 496,488	82,050 882,050 22,233 19,189 9,624	1,22 9,34 1,95 3,01 74 2,21	1.23 158,778	614,582 51,481 4,708 2,641 140,736 36,188		230,556 265,932 42,317 748	224,364 131,806 87,743 9.78
500-799	37	658 609 60 21.7 8.3 8.3 711 111 696	158,354 68,408 1,287 1,985 230,034	41,200 46,254 12,956 34,513 9,121 5,028	72247	1.11 127,113	315,120 16,981 1,036 1,186 83,197 20,493	0000	115,661 114,372 21,002 358	93,728 44,947 39,849 7.43
260-499	37	364 335 50 335 60 5.2 3,597 3,597	89,625 53,799 783 1,973 146,179	22,659 27,706 7,936 6,078 3,423	006 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.15 98,818	211,431 13,639 348 671 67,466	146,180 65,364 817 (112)	66,384 79,795 12,905 244	36,2 36,2 8.2 8.2
to 85 60-259	12	163 137 137 15.5 3.55 2,496 2,496	36,036 30,704 292 706 67,737	8,471 5,513 22,678 3,566 1,963	2,605 7,878 8,629 79,227 25 (11,464)	0.85 52,414	128,309 (4,916) 334 52,473 3515	67,737 37,087 269 0	37,480 30,257 7,303 25	22,979 11,579 5,722 1.62
Soil Ratings from 36 to 85 Range in size (total acres) 60	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	Crop returns per larin Crop returns Livestock returns above feed Custom work Other farm receipts Value of farm production	Crop expenses 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 Total nonfeed cost Capital account adjustment Management returns	Farm 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 fivestock	Adjusted gross farm income Cash operating expense Prepaid expense (-if increased) Accts. payable (+ if increased)	Total operating expense Income before depreciation Less depreciation Capital account adjustment	Net farm income * 22,979 (operator's share) * 11,579 Labor & mgt. income per operator 5,722 Rate earned on investment, % 1.62 Note: Variations in totals due to rounding to the

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.

Hange in size (total acres)						1		
	ACZ - 00	260-499	200-799	Over 799	Your Farm	All Farms	21 – 27	Months of Labor
Number of farms	12	37	37	30		116	23 23	10
Some costs and returns per tillable acre								
Soil fertility	30.16	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		5.81	3.91	5.16
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	22.71
Power and equipment total	130.44	82.75	75,90	78.40		79.58	77.40	88.13
Urying and storage	3.08	2.75	2.66	4.05		3.36	1.97	3.04
Building repair	20.36	6.19	5.54	4.51		5.51	5.96	5.51
Building depreciation	16.68	14.76	13.06	11.10		12.50	12.31	19.08
Building total	40.12	23.70	21.26	19.66	-	21.36	20.24	27.63
Labor, unpaid	130.53	56.30	32.96	25.52		35.76	40.14	29.37
Labor, nired	34.50	21.87	23.67	26.46		24.95	21.25	44.46
Labor total	165,03	78.18	56.63	51.97		60.71	61.38	73.83
Value of feed fed	544.95	289.70	212.13	206.23		230.71	223.09	290.23
Capital purchases	65.49	29.44	30.36	29.28		30.50	34.09	30.01
Uperator interest paid	65.14	37.52	29.55	27.93		31.00	30.97	37.98
Crop returns	262.24	267.69	259.85	297.35		279.33	265.57	281.93
Livestock return above teed	223.43	160.68	112.25	125.22		129.60	121.53	163.24
Value of farm production	492.93	436.60	377.47	439.11		420.22	414.98	452.85
	CC.0/C	380.29	339.14	356.44		360.25	371.89	397.31
Ranagement returns Farm investment	(83.44)	57.U4	30.92	83,33		60.61	43.90	91.16
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
Hemaining cost in								
machinery and auto	13,131 12,455	23,833 18 870	35,063	99,134 71 768		45,782	39,622 26 116	54,073 70 565
soil fertility	0	20	49	10		34	157	
Value of land (current)	205,449	416.272	743.888	1.475.101		772.796	743.337	961.869
Total farm investment	310,839	571,666	991,468	1,998,978		1,047,719	980,661	1,353,910
Total investment per acre	1,906	1,569	1,506	1,643		1,593	1,513	1,675
Machinery invest, per till, acre Percent tillable land in	96	71	58	88		75	67	71
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	13.9	11.0	10.9		11.6	6.6	11.6
	0.0	0.0	0.1	0.0		0.0	0.0	0.3
All hav and masture	n. c	200	20 LU N T	0 0 N 0		2.7	0.0	0 0 0
Crop vields, bushels per acre	D.D.	0.0	5 0	0.0		1 .	0.7	0 1
Corn	148	143	141	157		149	143	159
Soybeans	43	43	44	46		45	45	47
Wheat	54	1	54	54		54	53	54
Note: Variations in totals due to rounding to the nearest dollar	to the neare	st dollar.						

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.

Area of state		Northern	'n Illinois			Southern	n 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
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	239 197 14.8 2.1 326 31 31	346 298 19.8 4.4 141 141	482 410 73 772 105 105	363 311 22.1 6.4 119 65	237 192 192 192 192 192 257 33	338 310 510 52.1 6.9 6.9 613 61	588 548 35.6 17.4 158 109	473 437 437 437 437 29.5 555 555 88 88
Uollar returns per farm Crop returns Livestock returns above feed Custom work Other farm receipts Value of farm production	53,276 41,547 68 754 95,645	86,872 78,373 998 1,126 167,369	118,585 157,893 1,328 2,556 280,363	89,915 91,815 91,815 958 1,403 184,092	44,602 46,663 193 2,415 93,873	81,221 86,665 354 911 169,151	147,322 154,037 123 3,345 304,828	116,331 122,314 217 2,349 241,210
Crop expenses Crop expenses Power and equipment Building and fence Labor Livestock services and supplies	12,851 22,119 5,670 22,224 7,061	5,039 5,000000000000000000000000000000000000	ິດຕິມິດ	133,13	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10,403	2002 48480 79480	1547000
Taxes Insurance and miscellaneous Interest on nonland capital Land charge or net rent Total nonfeed cost	3,952 2,630 9,794 16,329 102,629	5,458 4,093 16,520 22,172 162,138		5,845 4,564 18,150 23,232 177,850	1,888 3,004 6,118 9,937 87,679	2,649 4,155 14,248 16,390 151,308	24,527 7,240 26,527 27,779 247,995	3,661 5,661 5,822 20,702 22,432 202,152
Capital account adjustment Management returns Farm production per \$1.00 of nonfeed costs Farm production per man	6,433) (6,433) 0.93 77,743	400 0-	1- 04	00 0-	0 6,194 1.07 59,393	,14 ,98 ,84 ,84	20 20	60 -4
rinancial summary Cash operating Inventory change Accts. receivable (net change) Farm products used Less purchased feed Less purchased livestock	114,943 3,997 2,048 995 15,591 10,048	195,075 3,955 3,934 1,592 31,140 10,078	339,616 13,305 3,668 2,703 66,887 10,155	217,890 9,330 3,643 1,770 37,306 10,092	104,130 1,898 1,405 1,062 13,299	202,133 4,296 154 29,589 8,983	358,083 21,364 3,264 3,230 70,983 6,183	284,376 13,721 2,371 51,913 6,964
Adjusted gross farm income Cash operating expense Prepaid expense (-if increased) Accts. payable (+if increased) Farm-produced inputs	96,344 48,969 (112) (64) 717	8,33 1,14 64 97 97	,25 ,95 ,23 ,90	5,23 2,73 45 31 31 1,15	00 00	62 62 62 62 62 62 62 62 62 62 62 62 62 6	N N O 0 0	93 93 93 46 93
Total operating expense Income before depreciation Less depreciation Capital account adjustment	49,508 46,836 8,672 550	3,17 5,16 8,17 (64	2,30 9,94 1,07	4,65 0,57 9,35 (11	8,32 5,80 4,05	8,58 0,73 9,42 1,14	41,11 64,86 26,41 62	12,02 29,91 22,55 79
Net farm income * (operator's share) * Labor & mgt. income per operator <u>Rate earned on</u> investment, %	38,715 18,107 11,550 3.81	+ (0 10 m)	0 - 10	71,116 39,113 23,208 6.04	41,749 30,303 24,194 7.06	45 45.	N 00 10 -	$\cdot \circ \circ +$
Note: Variations in totals due to rounding to the nearest Interest expense deducted from operator's share only.	nding to the ne rator's share o	dollar. Shown i	orthern Illinois parentheses b	includes both norr ecause it pertains	thern and cent to operator's	tral Illinois. net farm income only		

Table 25. 1992 Average Return, Costs, and Financial Summary by Number of Cows in Herd for Illinois Dairy Farms

Area of state		Northern Illinois	n Illinois		Southern III	Southern Illinois	n Illinois	
Number of cows in herd	10-39	40-79	Over 79	All Farms	10-39	40-79	Over 79	All Farms
Number of farms	19	101	35	155	З	23	33	29
Some costs and returns per tillable acre								
Soil tertility Desticides	27.53 18 53	30.59	30.49 22 04	30.32	25.83	43.45 17 03	34.36	36.68 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	5.96	0.97	1.00	1.08	1.06
Building repair Building depreciation	9.58	7.92 17 38	15.45 25.92	10.29 10.67	3.23	5.99	5.37	5.49
	21.71	24 57	46.02	010.00	000	10.64	4040	11.11
abor uppaid	06 55	77 51	67 44	75.00	101 74	73 60	10.10	F7 61
l abor, hired	16.23	60.66	54.63	31.33	56.44	34.14	39.38	38.32
labor total	11278	00 60	100.07	107 32	158 18	107 82	80.26	05.02
Value of feed fed	220.41	280.49	355.20	208 08	175 08	233.84	02.50	245.05
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					201 00			
Livestock inventory Grain inventory	53,808 31 255	82,878 52,886	141,368 71567	94,477 54,453	29,727	81,607 41 188	164,072 82 347	125,094 63 656
Remaining cost in	0.2	000,300			120,00	001 ·	140,00	000
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
Value of land (current)	388.794	527.903	715.177	553.139	236,600	390.234	0 661.413	534.098
Total farm investment	516,539	743,880	1,055,977	786,486	315,197	567,673	999,672	796,462
Total investment per acre	2,163	2,150	2,191	2,164	1,330	1,679	1,699	1,684
Machinery invest. per till. acre	67	124	139	124	34	111	115	112
Percent tillable land in	l	1		1				
Corn and corn sliage	5.00	04.0 0.1	54.0 1	54.7	42.8	38.8	38.7	38.8
Soydeans	2.01	0.0	0.0	0.0 0.0	C.72	971	23.5	22.0
Other small drain	- c		0. -	0.4	2.0	0 C	- - - -	7:4-
Diverted acres	2.1	2.0	1.7		2.1	10	200	- 00
All hay and pasture	26.2	27.8	29.9	28.3	14.4	25.0	19.0	20.6
Crop yields, bushels per acre								
Corn	120	124	125	124	113	129	129	128
Soybeans Wheat	4 4	41 0	46 0	43 43	34 52	59 59	56 56	40 57
Note: Variations in totals due to rounding to the nearest d	ling to the pears	et dollar North	are Illinoic inclu	In Northern Illinois includes both porthern and central Illinois	a and central Illin		2	>
ואסוםי אמומנוסוום זוז יסימות ממס וס וסמומ		21 401141 . 140111		חמא התווו וותו וויתיו	ן מווח הבויוומו וווויו	cis.		

Table 25a. 1992 Average Operating Costs, Investments, and Land Use by Number of Cows in Herd for Illinois Dairy Farms

Table 26. 1992 Average Return, Costs, and Financial Summary by Size and Months of Labor for Illinois Beef Farms

(from acces) 160 - 359 340 - 769 Over 739 All Farms Vaur Farm $2 - 27$ $3 - 39$ of returns per fullable acre 11 46 24 37,8 55,72 28,47 27,8 55,72 28,47 27,8 55,72 28,47 27,8 55,72 28,47 27,8 55,72 28,47 27,36 55,72 28,47 25,73 56,55 26,52 26,47 25,72 28,47 25,73 26,55 26,57 26,55 26,57 26,55 26,57 26,56 26,50 27,23 26,50 27,23 26,50 27,23 26,50 27,23 26,50 27,23 26,50 27,23 26,50 27,23 26,50 27,23 26,50 27,23 26,50 27,23 26,50 27,23 26,50 </th <th>Area of state Northern Illinois Northern Area of state</th> <th></th> <th></th> <th>Northern Illinois</th> <th></th> <th></th> <th>Months</th> <th>Months of Labor</th> <th>Southern</th>	Area of state Northern Illinois Northern Area of state			Northern Illinois			Months	Months of Labor	Southern
11 46 24 81 12 6 37.34 36.42 34.01 55.26 36.23 36.23 36.23 36.35 36.44 36.35 36.44 36.35 36.44 36.35 36.44 36.35 36.44 36.35 36.44 36.35 36.44 36.35 36.44 36.35 36.44 36.35 36.35 <th>Range in size (total acres)</th> <th>180-339</th> <th>340-799</th> <th>Over 799</th> <th>All Farms</th> <th>Your Farm</th> <th>21-27</th> <th>31–39</th> <th>Illinois</th>	Range in size (total acres)	180-339	340-799	Over 799	All Farms	Your Farm	21-27	31–39	Illinois
37.94 36.42 34.01 35.26 36.32 30.40 35.26 36.32 30.40 35.26 30.40 35.72 30.40 35.72 30.40 35.76 30.55 30.40 35.76 30.55 30.40 35.72 30.40 35.76 30.55 30.40 35.76 30.40 35.76 30.40 35.76 30.40 35.76 30.40 35.76 30.40 35.76 30.40 35.76 30.40 35.76 30.40 35.76 30.40 35.76 30.40 35.76 30.40 35.76 30.40 35.76 30.40 37.57 36.65 30.40 37.50 30.40 37.50 30.75 30.40 37.50 30.75 <th< th=""><th>Number of farms</th><th>11</th><th>46</th><th>24</th><th>81</th><th></th><th>12</th><th>9</th><th>18</th></th<>	Number of farms	11	46	24	81		12	9	18
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Some costs and returns per tillable a								
25.76 26.55 20.43 20.28 82.52 77.23 9.21 6.57 9.21 6.57 9.21 6.57 25.37 28.86 11.57 11.54 11.57 11.54 11.57 11.54 11.57 11.54 11.57 11.54 11.58 37.88 98.11 99.88 35.08 37.88 98.11 99.88 4.12 5.19 5.21 6.56 33.32 23.32 24.11 5.19 5.23.32 23.32 23.32 23.32 24.11 5.19 5.23 37.88 33.4.62 13.94 13.99 81.66 33.4.65 33.10 33.4.65 33.10 33.4.65 33.10 33.4.65 33.10 180.45 53.305 59.36 33.4.99 33.4.65 33.10 40.45 53.10 41.244 410,596 11.2,1564 113,151 64,382 70.3 177,264 1,631,465	Soil fertility		36.42	34.01	35.26		36.32	30.40	24.53
20.43 20.28 20.43 20.28 6.57 23.37 28.86 77.23 9.21 6.57 25.37 28.86 77.23 9.21 6.57 28.86 77.23 9.21 6.57 25.37 28.86 11.54 11.54 11.54 11.54 11.54 11.54 11.54 11.54 11.54 11.54 11.54 13.99 37.88 37.83 37.83 37.83 37.33 27.19 6.76 6.76 6.76 6.76 14.15 14.15 14.15 14.15 14.15 14.15 14.15 14.15 14.33 17.7 14.33 17.7 14.33 17.7 14.33 17.22 14.33 14.33 14.33 14.33 14.33 14.33 14.33 14.15 14.15 14.15	Pesticides	25.78	25.72	28.47	27.16		25.76	26.55	15.63
82.52 77.23 9.21 6.57 9.21 6.57 9.21 6.57 9.21 28.86 11.57 11.54 11.57 11.54 11.57 11.54 11.57 11.54 11.57 11.54 15.08 37.88 98.11 99.88 98.11 99.88 35.08 37.88 98.11 99.88 4.12 5.19 5.21 6.76 13.99 23.32 23.32 23.32 23.32 23.32 23.32 23.32 23.32 23.33 23.32 33.2.10 49.57 66.63 33.4.62 33.2.10 33.4.65 33.2.10 41.66 35.3.10 59.36 53.2.10 41.64 164,096 59.36 53.2.10 71.2 67.6192	seed and other crop	18.6/	20.36	20.62	20.39		20.43	20.28	14.48
9.21 6.57 9.21 6.57 11.57 11.54 11.57 11.54 11.57 11.54 98.11 99.88 98.11 99.88 98.11 99.88 11.57 11.54 5.21 5.19 5.23.32 23.32 23.32 23.32 23.32 23.32 24.11 99.88 25.46 30.73 24.11 55.19 66.63 30.73 24.11 66.63 28.63 81.66 33.4.62 332.10 49.57 66.63 33.4.62 332.10 49.57 66.63 33.4.62 332.10 49.57 66.63 33.4.62 332.10 180.45 135.37 59.36 62.33 89,682 113,151 64,096 532.10 441,244 410,596 117 143 71.264 1,64,096 64,382 7,133 71.264 1,64,096 71.27 1,133 71.2 0.4 7.3 7.1 <t< td=""><td>Crop total</td><td>82.38</td><td>82.50</td><td>83.09</td><td>82.80</td><td></td><td>82,52</td><td>77.23</td><td>54.64</td></t<>	Crop total	82.38	82.50	83.09	82.80		82,52	77.23	54.64
25.37 28.86 11.57 11.54 11.57 11.54 98.11 99.88 98.11 99.88 35.08 37.88 98.11 99.88 13.99 13.94 23.32 23.32 23.32 23.32 24.11 99.88 25.46 30.73 24.11 55.19 66.63 30.73 24.11 66.63 30.29 81.66 30.29 81.66 33.4.62 332.10 180.45 532.10 33.4.62 332.10 180.45 532.10 59.36 62.33 33.4.62 332.10 180.45 532.10 461.57 66.63 33.4.62 332.10 185.37 55.33 59.36 62.33 33.4.65 532.10 41.244 410,596 41.244 1410,596 117 143.166 7.1264 1,64,096 7.12 1,13 7.13 1,13 7.13 1,13 7.1 0.4 7.1 0.4		9.10	8 .00 1 .00	97. J	70.00 20.00		9.21	6.57	9.37
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Machinery repairs, supplies	GZ. LZ	23.15	23.18	23.05		25.37	28.86	25.64
16.88 15.03 15.03 98.11 99.88 37.88 98.11 99.88 37.88 98.11 5.19 5.19 5.21 6.76 13.94 $5.23.32$ 23.32 25.89 23.32 23.32 25.36 23.32 23.32 25.36 24.11 66.63 30.73 24.11 35.90 81.66 23.32 23.32 33.73 24.11 66.63 30.73 $23.32.10$ 49.57 66.63 $33.4.62$ 332.10 13.96 $33.4.62$ 332.10 166.63 $33.4.62$ 332.10 166.63 59.36 62.33 81.66 59.36 62.33 113.151 71.2264 $140,556$ 113.166 71.264 $1,64,096$ 51.63 71.264 $1,64,096$ 51.63 71.264		9.82	9.80	6.25	7.95		11.57	11.54	4.95
35.08 37.88 98.11 99.88 4.12 5.19 5.21 6.76 13.99 5.21 5.21 6.76 13.99 5.21 5.246 30.73 25.46 30.73 25.46 30.73 25.46 30.73 25.46 30.73 25.46 30.73 25.46 30.73 286.74 35.90 49.57 66.63 286.74 30.73 334.62 30.73 334.62 332.10 180.45 532.10 59.36 62.33 59.36 62.33 59.36 62.33 59.38 62.33 59.38 62.33 59.38 62.33 59.38 62.33 59.38 62.33 59.38 62.33 59.38 62.33 59.38 62.33 59.38 <th>Fuel and oil</th> <th>11.52</th> <th>13.64</th> <th>14.39</th> <th>13.90</th> <th></th> <th>16.88</th> <th>15.03</th> <th>15.62</th>	Fuel and oil	11.52	13.64	14.39	13.90		16.88	15.03	15.62
98.11 99.88 4.12 5.19 5.21 6.76 13.99 13.94 23.32 25.46 23.32 25.89 25.46 30.73 25.46 30.73 25.46 30.73 286.74 25.89 30.73 25.89 286.74 30.73 286.74 30.73 286.74 30.73 286.74 30.73 286.74 30.73 33.4.62 30.73 33.4.62 30.73 33.4.62 33.10 33.4.62 33.2.10 33.4.62 33.2.10 33.4.62 33.2.10 461.57 66.63 62.33 33.2.10 41,244 410,596 41,244 410,596 117 143.151 72,567 164,096 64,382 76,192 0.2 39,134 2,799 2,163 117 143. 70.5 70.3 17,7 143. 7.1 7.2 39,134 2,395,501 7.1 7.2 7.1 7.3	Machinery depreciation	38.74	28.25	36.44	33.15		35.08	37.88	23.50
4.12 5.19 5.19 5.21 6.76 13.99 13.94 25.46 30.73 25.46 30.73 25.46 30.73 25.46 30.73 25.46 30.73 25.46 30.73 25.46 30.73 25.46 30.73 286.74 35.90 81.66 33.05 30.29 81.66 334.62 332.10 180.45 532.10 519.96 477.07 51.996 410,596 41,244 410,596 41,244 410,596 62.33 532.10 64,382 76,192 0 0 71,7.07 5,395,501 71,7.03 1,43 71,7.04 1,631,465 71,7.05 70.3 71,7.07 0.4 71,7.07 0.4 71,7.07 1,43 71,7.07 1,43 71,7 1,43 71,7 7,	Power and equipment total	90.52	83.46	87.52	86.00		98.11	99.88	79.09
5.21 6.76 13.99 23.32 25.46 30.73 25.46 30.73 25.46 30.73 25.46 30.73 24.11 55.90 49.57 66.63 28.63 30.73 28.63 30.73 28.63 30.73 35.90 33.452 33.462 33.10 180.45 53.210 519.96 410,596 113,151 62.33 59.36 62.33 59.36 62.33 59.38 62.33 59.38 62.33 59.38 62.33 59.38 62.33 59.38 62.33 59.38 62.33 334.65 76,192 64,096 113,151 64,382 76,192 0.1 63,35501 7 7.43 117 143 70.5 70.3 17.7 7.143 7.1 7.2 3.7 7.1 3.7 7.163 1.7 7.2 7.1 7.2 7.1 7.2 7.1 7.2	Drying and storage	5.12	6.93	4.35	5.47		4.12	5.19	2.93
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Building repair	6.50	7.10	3.53	5.20		5.21	6.76	5.14
23.32 25.46 30.73 24.11 35.90 24.11 35.90 286.74 30.73 286.74 35.90 30.29 81.66 30.49.57 66.63 30.29 81.66 30.495 332.10 180.45 185.37 332.10 185.37 59.65 332.10 461.57 62.33 64,096 532.10 41,244 410,596 41,244 410,596 41,244 164,096 62.33 62.33 33,134 2,395,501 72,567 143 71,264 1,631,465 71,17 1,43 71,264 1,631,465 39,134 2,395,501 71 7.3 70.5 143 7.1 7.2 7.1 7.2 7.1 7.2 7.1 7.2 7.1 7.2 7.1 7.2 7.1 7.2	Building depreciation	16.25	12.70	11.86	12.48		13.99	13.94	5.75
25.46 30.73 24.11 35.90 286.74 35.90 286.74 35.90 30.29 81.66 30.29 81.66 332.10 185.37 334.62 332.10 334.62 332.10 334.62 332.10 334.62 332.10 334.62 332.10 334.62 332.10 334.62 332.10 334.62 332.10 334.62 332.10 334.62 332.10 334.62 332.10 334.62 332.10 334.62 332.10 334.62 332.10 334.62 332.10 41.244 410,596 41,244 164,096 62.33 62.33 117 143.151 71,264 1,631,465 71,264 1,631,465 117 1,43 70.5 143 70.5 0.4 70.3 70.3 70.3 70.3 71 7.2 7.1 7.2 7.1 7.2 7.1 7.2 7.1 7.2 <td< td=""><td>Building total</td><td>27.86</td><td>26.73</td><td>19.73</td><td>23.16</td><td></td><td>23.32</td><td>25,89</td><td>13.83</td></td<>	Building total	27.86	26.73	19.73	23.16		23.32	25,89	13.83
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Labor, unpaid	64.12	42.13	21.65	32.80		25.46	30.73	47.87
49.57 66.63 286.74 223.05 30.29 81.66 332.10 34.99 58.63 81.66 334.62 34.99 334.62 332.10 180.45 185.37 519.96 185.37 519.96 185.37 519.96 185.37 519.96 185.37 519.96 177.07 59.36 62.33 41,244 410,596 41,244 164,096 62,33 113,151 62,33 62.33 89,682 113,151 64,382 76,192 0 1,631,465 39,134 2,395,501 2,799 2,163 117 143 70.5 10.4 0.2 0.4 7.1 7.2 145 0.1 7.1 7.2 7.1 7.2 7.1 7.2 7.1 7.2 145 133 49 </td <td>Labor, hired</td> <td>9.57</td> <td>18.27</td> <td>25.81</td> <td>21.67</td> <td></td> <td>24.11</td> <td>35.90</td> <td>22.62</td>	Labor, hired	9.57	18.27	25.81	21.67		24.11	35.90	22.62
286.74 223.05 30.29 81.66 334.62 34.99 58.63 81.66 334.62 34.99 519.96 185.37 519.96 185.37 519.96 532.10 461.57 62.33 59.36 62.33 59.36 62.33 59.36 62.33 59.38 113,151 64,382 113,151 64,382 76,192 0 0 71,264 1,631,465 117 143 117 143 70.5 70.3 17.7 143 17.7 143 17.7 0.4 0.2 0.1 37.1 7.2 145 133 17.7 7.2 145 133 145 4.0 7.1 7.2 37.1 7.2 37.1 7.2 145 4.0 51 52	Labor total	73.69	60.41	47.46	54.47		49.57	66.63	70.49
30.29 34.99 58.63 81.66 58.63 81.66 334.62 332.10 185.37 532.10 519.96 185.37 519.96 185.37 59.36 532.10 461.57 532.10 59.36 62.33 59.36 62.33 59.38 113,151 64,382 76,192 0 0 71,264 1,631,465 117 2,395,501 71 2,395,501 71 2,799 2,799 2,163 117 143 70.5 70.3 17.7 143 17.7 143 17.7 0.4 0.2 0.1 37.1 7.2 145 133 145 133 145 133 145 4.0 51 52	Value of feed fed	258.81	265.13	226.09	244.43		286.74	223.05	204.46
58.63 81.66 334.62 332.10 180.45 332.10 519.96 185.37 519.96 532.10 461.57 532.10 59.36 62.33 59.36 62.33 64,382 113,151 64,382 76,192 0 0 71,264 1,631,465 117 1,631,465 39,134 2,395,501 77.2 18.0 0.2 0.1 37.1 1,43 17.7 143 17.7 143 17.7 143 17.7 0.4 0.2 0.1 37.1 7.2 145 133 145 133 145 133 145 133 145 133	Capital purchases	46.35	36.53	30.98	34.23		30.29	34.99	32.23
334.62 332.10 180.45 185.37 519.96 532.10 461.57 532.10 59.36 532.10 59.36 62.33 59.38 62.33 59.382 62.33 77.07 62.33 89,682 113,151 64,382 76,192 0 0 71,264 1,631,465 117 2,395,501 71,299 2,163 117 1,43 70.5 70.3 17.7 143 17.7 143 17.7 0.4 0.2 0.1 37,15 143 145 133 145 133 145 133 145 133 145 133 145 52	Operator interest paid	30.29	45.83	47.25	45.63		58.63	81.66	46.93
180.45 185.37 59.96 532.10 461.57 477.07 59.36 62.33 59.36 62.33 62.33 62.33 72,567 410,596 1 72,567 164,096 1 89,682 113,151 64,382 64,382 76,192 0 71,264 1,631,465 4 39,134 2,395,501 7 2,799 2,163 143 117 143 143 70.5 10.4 0.4 70.5 133,501 7 70.5 143 133 70.5 143 7.1 8.7 0.4 0.1 7.1 7.2 0.4 7.1 7.2 133 145 133 52 61 52 52	Crop returns	314.19	312.92	326.05	319.83		334.62	332.10	247.27
519.96 532.10 461.57 477.07 59.36 62.33 41,244 410,596 72,567 164,096 72,567 164,096 71,264 1,631,465 39,134 2,395,501 71,264 1,631,465 39,134 2,395,501 77,299 2,163 117 143 70.5 70.3 70.5 143 70.5 143 70.5 70.3 70.7 0.4 0.2 0.4 0.2 0.4 7.1 7.2 145 133 145 133 7.1 7.2 7.1 7.2 7.1 7.2 7.1 7.2 7.1 7.2 7.1 7.2 7.1 7.2 7.1 7.2 7.1 7.2 7.1 7.2 7.1 7.2 7.1 7.2 7.1 7.2 7.3 7.2	Livestock return above feed	106.57	136.80	141.88	137.62		180.45	185.37	65.80
461.57 477.07 59.36 62.33 59.36 62.33 62.33 62.33 72,567 164,096 71,264 164,096 64,382 76,192 64,382 76,192 71,264 1,631,465 39,134 2,395,501 77,299 2,163 117 143 70.5 163.1,465 117 143 70.5 163.1,465 71 2,395,501 7 143 70.5 163.1,465 7.1 2,793 83,73 70.3 70.5 143 70.5 143 7.1 7.2 7.1 7.2 7.1 7.2 7.1 7.2 7.1 7.2 7.49 52 7.1 52	Value of farm production	424.40	454.93	474.74	463.40		519.96	532.10	320.87
59.36 62.33 41,244 410,596 1 72,567 164,096 1 89,682 113,151 64,382 64,382 76,192 0 71,264 1,631,465 4 39,134 2,395,501 7 39,134 2,395,501 7 77,269 2,163 143 117 143 143 70.5 70.3 16.0 0.2 0.4 0.4 0.2 0.1 3.7 7.1 7.2 133 145 133 145 133 145 133 145 51	Total nonfeed cost	469.36	447.95	426.36	438.01		461.57	477.07	338.97
41,244 410,596 1 72,567 164,096 1 89,682 113,151 64,382 76,192 0 76,192 39,134 2,395,501 71,264 1,631,465 39,134 2,395,501 77,299 2,163 117 143 70.5 70.3 70.5 143 70.7 0.4 0.2 0.4 0.2 0.4 7.1 7.2 7.1 7.2 145 133 145 133 145 133 145 51	Management returns	(43.35)	8.95	52.12	28.26		59.36	62.33	(17.43)
41,244 410,596 72,567 164,096 89,682 113,151 64,382 76,192 0 71,264 113,151 0 39,134 2,395,501 2,799 2,163 117 1,43 70.5 70.3 17.7 143 70.5 70.3 17.7 143 70.5 70.3 17.7 143 70.5 70.3 17.7 143 70.5 70.3 17.7 143 71.7 143 72.5 0.4 0.2 0.4 0.2 0.1 7.1 7.2 145 133 49 51 51 52	Farm investment								
/2,56/ 164,096 89,682 113,151 64,382 76,192 0 71,264 113,151 64,382 76,192 39,134 2,395,501 2,799 2,163 117 2,395,501 17.7 143 70.5 70.3 17.7 143 70.2 0.4 0.2 0.4 0.2 0.4 145 133 145 133 145 133 145 133 145 133	Livestock inventory	138,694	224,131	467,982	284,780		441,244	410,596	154,524
89,682 113,151 64,382 0 0 0 71,264 1,631,465 2,799 2,395,501 2,799 2,163 117 1,43 70.5 70.3 77.7 143 77.7 143 77.7 143 70.5 70.3 71.7 143 70.5 70.3 71.7 70.3 71.7 70.3 71.7 70.3 71.3 7.1 33.7 4.0 7.1 7.2 7.1 7.2 7.4 7.2 7.4 7.2 7.5 52	Grain inventory Remaining cost in	54,390	92,376	222,461	125,761		172,567	164,096	59,730
64,382 76,192 64,382 76,192 39,134 1,631,465 2,799 2,163 117 143 70.5 70.3 77.7 18.0 0.2 0.4 0.2 0.4 17.7 143 77.5 70.3 17.7 143 70.5 70.3 71.7 143 72.7 133 145 133 145 133 145 133 145 52	machinery and auto	27 R50	35 297	130.070	62 366		80 682	113 151	31 651
0 0 0 0 71,264 1,631,465 39,134 2,395,501 7 2,799 2,395,501 7 7 7 2,799 2,395,501 7 7 7 117 2,395,501 7 7 7 70.5 70.3 143 7 7 70.5 70.3 143 7 7 70.2 18.0 0.4 0.4 0.4 3.7 7.1 7.2 4.0 133 145 133 4.0 7 7 7.1 7.2 133 47 51 49 52 52 52 52	buildings and fence	27,983	39,537	78,211	49,427		64.382	76,192	15.318
71,264 1,631,465 47 39,134 2,395,501 73 2,799 2,163 73 117 143 73 70.5 70.3 143 70.5 70.3 143 70.5 70.3 143 70.5 70.3 143 70.5 70.3 143 70.5 70.3 143 70.5 70.3 143 70.2 0.4 0.4 3.7 7.1 7.2 145 133 47 51 52 52	soil fertility	246	0	0	33		0	0	541
39,134 2,395,501 73 2,799 2,163 117 143 . 70.5 70.3 17.7 18.0 0.2 0.1 3.7 4.0 7.1 7.2 145 133 145 133 145 133 145 51 51 52	Value of land (current)	546,190	887,258	2,104,718	1,201,668		1,571,264	1,631,465	476,310
2,799 2,163 117 143 17.7 143 17.7 143 0.2 0.4 0.1 3.7 7.1 7.2 145 133 145 133 145 51 51 52	Total farm investment	795,353	1,278,600	3,003,442	1,724,038		2,339,134	2,395,501	738,075
117 143 70.5 70.3 17.7 18.0 0.2 0.4 0.2 0.1 3.7 4.0 7.1 7.2 49 47 51 52	Total investment per acre	2,697	2,395	2,433	2,432		2,799	2,163	1,209
70.5 17.7 0.2 0.2 0.4 0.4 0.4 0.1 7.1 7.2 133 49 41 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	Machinery invest. per till. acre	103	62	122	103		117	143	69
70.5 17.7 0.2 0.2 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.1 7.2 7.2 133 145 133 49 51 52 51 52	Percent tillable land in							1	
0.2 0.2 0.2 7.1 7.2 145 133 133 133 133 133 133 51 51 51	Corn and corn sliage	04.0	2.69	69.4	69.0		2.07	10.3	40.8
0.2 3.7 7.1 145 133 133 133 133 133 133 51 52 52	Wheat	0.0		 	0.0 0.0			0.0	0.01
3.7 7.1 7.1 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	Other small grain	2.7	5.4	0.8	101		9 O	1.0	0.0
7.1 7.2 145 145 133 49 47 51 52	Diverted acres	2.6	4.0	4.2	4.0		3.7	4.0	3.4
145 133 49 47 51 52	All hay and pasture	15.7	10.7	6.1	8.6		7.1	7.2	31.5
145 133 49 47 51 52	Crop yields, bushels per acre								
49 47 51 52	Corn	143	136	148	143		145	133	126
20 10	Soybeans Wheat	47	4 0	49 70	47		49 1	47	47
	Noto: Voriatione in tatale due to ta				- 14			20	00

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l ivectork	All Farms	1205 522 1110 1110 1110	23,747 (1,161) 237 521 23,344	7,928 7,928 7,928 7,928	975 2,026 4,679 6,292 41,916 373	(18,198) 0.56 52,997	28,978 254 254 3,768 3,768 2,811		19,223 4,121 3,793 373	701 236 (10,269) (3.38)
1 36-85	Grain	446 572 6.0 329 329 329 329	95,064 891 1,386 326 97,466	8787		16,104 1.18 195,544	83,738 12,873 2,873 208 1,187 993	97,466 43,891 99 (548) 132	43,572 53,894 5,931 1,275	49,238 23,539 24,729 7.65
Soluthern	Grain < 260 24	170 573 000 000 000	36,386 126 104 738 37,354	8,907 8,761 1,736 7,740	1,801 1,820 8,016 41,215 213	(3,647) 0.91 86,758	33,620 4,079 108 108 483 18	37,354 19,532 114 53 79	19,778 17,577 3,362 213	Illio
livestock	All Farms 12	246 212 82 6.9 0.7 365 1,370	66,796 28,259 540 1,275 96,870	4-000 00000	51 940 1040 1040		146,356 5,669 4,049 342 27,849 31,696	V 0404	49,578 47,292 11,782 173	35,683 12,449 6,634 4.55 northern and central
86-100	Grair	9322 9322 0.6 932 0.5 0 7 8 4 8 0 0 9 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	133,960 235 1,308 1,117 136,621	0,63 0,31 9,87	84789 04700	ာ ဝထ	119,008 12,005 6,234 141 356 411	136,621 61,601 486 (345) 136	61,877 74,744 9,085 542	5,201),648 5,648 5.50 both
Northern	Grain < 260 64	172 950 1572 166 166 166	49,796 96 273 642 50,806	1,53 9,24 7,06	3,577 2,163 2,163 123 56,576 1,008	0 00	45,051 4,410 2,391 33 746 331	50,806 26,626 257 171 18	27,071 23,736 3,354 1,008	21,389 66 10,782 26 2,070 20 3.38 20 Northern Illinois includes
56-85		468 725 66.4 419 67	128,124 626 1,410 946 131,106				109,645 18,954 5,361 233 1,372 1,715	131,106 57,950 2,012 110 203	27 83 74	63,160 26,089 21,293 5.86 st dollar.
Northern 56-8	Grain < 260 29	179 769 0.33 053 055	44,285 (23) 265 540 45,066	10,730 2,998 7,972	2,589 2,566 3,282 53,091 152	(7,872) 0.85 101,310	39,694 3,968 2,079 94 298 472	45,066 24,290 565 41 51	24,947 20,119 4,477 152	15,794 5,405 (227) 2.33 Inding to the ne
Area of state		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	Crop returns per ratio Crop returns Livestock returns above feed Custom work Other farm receipts Value of farm production	Dollar costs per farm Crop expenses Power and equipment Building and fence Labor Livestock services and supplies	l axes Insurance and miscellaneous Interest on nonland capital Land charge or net rent Total nonfeed cost Capital account adjustment	Management returns Farm 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 * 15,794 6 (operator's share) * 5,405 2 Labor & mgt. income per operator (227) 2 Rate earned on investment, % 2.33 Note: Variations in totals due to rounding to the nearest

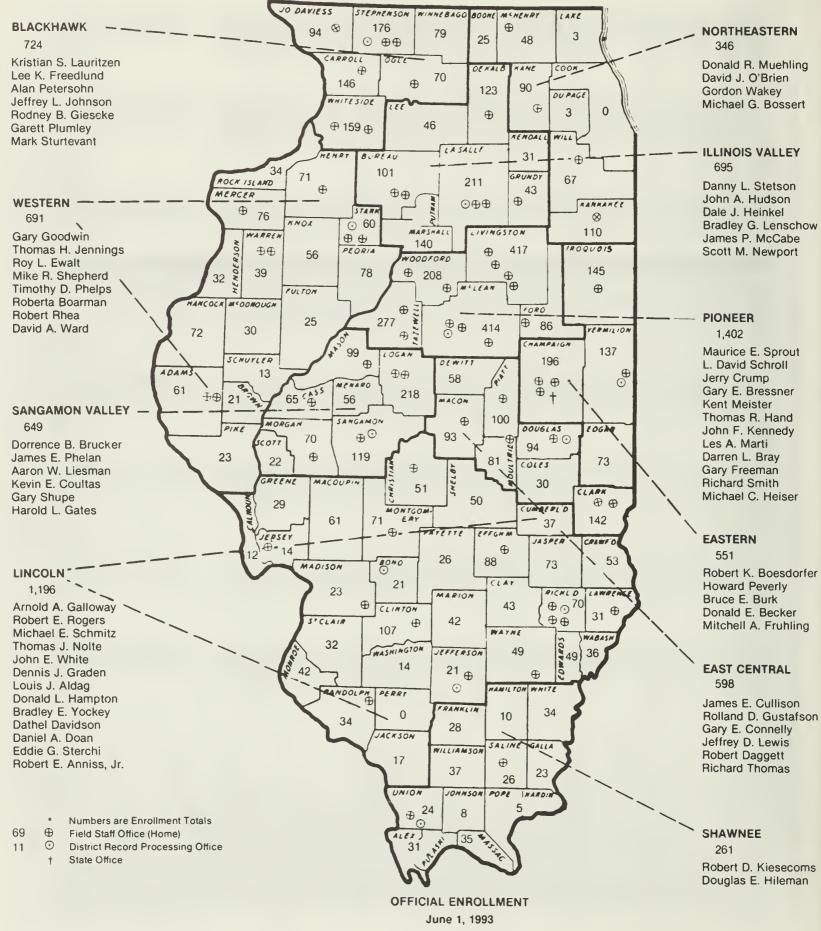
, Type, and Soil Rating for Part-time Illinois Farms that Use Less than	
nvestments, and Land Use by Size, Type,	
. 1992 Operating Costs, I 10 Months of Labor	
Table 27a.	

Area of state	Northern 56_85	1 56_B5	Northor	Northern 86-100	livetock	Southern 36 BE	26 05	livetock
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	Icre							
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	9.00
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	6.99	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
builaing repair Buildina depreciation	3.47 6.98	3.07	3.26 9.77	2.80	11.98	4.79	1.33	8.29 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	0.60	133.24	0.88	2.39	(0.70)
Value of farm production Total nonfeed cost	301.82 355 57	308.13 280.07	338.74 377 21	348.30 322 66	456.75 469 R4	261.45 288.47	261.90 222.05	195.00 350 13
Management returns	(52 73)	20.81	(31 75)	07.00	110.07	(05 50)	42.07	(150.00)
Farm investment	(01.20)	29.01	(01.10)	20.12	(12.21)	(00.02)	40.21	(20,201)
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
machinery and auto	9,881	16,596	4,353	17,322	24,867	7,557	16,550	6,774
buildings and fence	9,321	10,186	10,355	15,763	33,098	5,899	5,646	19,209
Value of land (current)	303 341	120 836 233	382 262	922 510	431 141	240 190 866	24	0 149 RM0
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	66	39	29	44	117	53	44	57
Percent tillable land in	C	C L		() () ()	(
Sovbeans	42.1 42.1	42.5	44.0	46.1	04.2 20.6	29.7	33.8 41.4	39.7 15.9
Wheat	0.8	+ +	0.1	0.2	0.0	15.0	0.6	0.0
Other small grain	0.0	0.3	0.1	0.2	1.4	0.0	0.0	0.0
Diverted acres	0 C 7 7	0.0 0.7	5.5	2.2	ຍຸດ ຍຸດ	1 0 0	12.1	4.10
Cron vielde bushels per acre	7.1	D. -	0.0	0.0	C.01	7.7	D.1	0.05
Corn	138	147	163	167	129	145	149	134
Soybeans	43	44	47	49	46	43	30	35
	17	00	3/	00	0		24	41
Note: Variations in totals due to founding to the nearest dollar. Northern Illinois includes both northern and central Illinois.	iding to the hear	rest dollar. NUT	hern IIInois Incit	Ides both northe	rn and central III	nois.		

ASSOCIATIONS, FIELD STAFF, AND COOPERATORS ENROLLED

Associations and Field Staff

Associations and Field Staff



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

Urbana, Illinois

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