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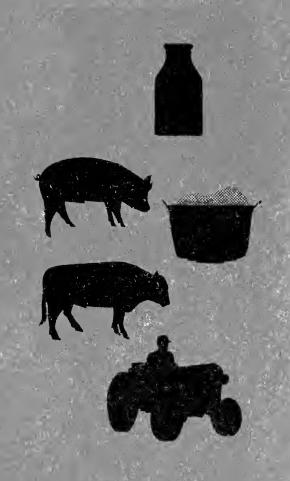
1964 40th annual

SUMMARY OF ILLINOIS FARM BUSINESS RECORDS

Commercial Farms:

PRODUCTION COSTS INCOME INVESTMENTS

UNIVERSITY OF ILLINOIS COLLEGE OF AGRICULTURE COOPERATIVE EXTENSION SERVICE CIRCULAR 915



Source of Data

This report is based on data obtained from farm business records on 6,200 Illinois farms. It is the 40th in a series of annual summaries of such records obtained from farmers cooperating with the Department of Agricultural Economics and the Illinois Farm Bureau Farm Management Service.

At present about 1 out of every 9 full-time commercial farmers (farmers with \$10,000 or more of gross sales) in Illinois is enrolled in this service. The service has grown steadily, and in 1965 there were 10 associations in 102 counties served by 39 full-time fieldmen. Participation in this farm business analysis service is voluntary, and cooperating farmers pay a fee for the services received.

Year	Associa- tions	Counties partici- pating	Fieldmen employed	Farmers enrolled
1940	3	23	3	680
1945	8	54	9	1,830
1950	8	59	15	2,760
1955	9	89	24	4,501
1960	10	100	33	5,494
1965	10	102	39	6,366

Over 95 percent of the 6,200 farms in this report fall within the size of business of Economic Classes I, II, and III, as defined in the 1959 Census of Agriculture. These three classes include farms selling \$10,000 or more of farm products per year.

The segment of Illinois agriculture that includes Economic Class I, II, and III farms is often referred to as "commercial farming." In 1959 commercial farms represented 40 percent of the total number of farms and 63 percent of the land area; they produced 79 percent of the value of products sold from Illinois farms.

Although the record-keeping farms are largely

within the first three economic classes, they are not proportionately distributed among the groups. Farms are identified as Economic Class I if they sell more than \$40,000 worth of products a year. In 1959, the Census of Agriculture identified 5,699 Illinois farms in Economic Class I. Almost one-fourth of these farms were enrolled in the Illinois Farm Bureau Farm Management Service program. There were 38,848 Economic Class III farms in the 1959 Census of Agriculture (farms with sales ranging from \$10,000 to \$19,999); only 3.7 percent of these farms were enrolled in the record-keeping program.

The data presented in this report are group averages 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 record-keeping farms may be used with reasonable confidence, even though the record-keeping farms as a group do not represent a cross-section of all commercial farms in the state.

The farm management program on which this report is based is designed to aid Illinois farmers in two ways: (1) through the individual farm business analysis provided to the farmers who are active members of the program and (2) through the comprehensive information provided to farm management extension and research workers and other individuals working with and assisting Illinois farmers with the problems resulting from a changing and dynamic agriculture.

This report provides current information on production, costs, income, and investments in the farm business for different groups of farms and farm enterprises. Some specific uses for these data are to provide physical and dollar measures of performance on individual farms, guides for planning farming operations, and data for financial budgeting and planning.

Organization of the Report

Except for a comparison of cost and income changes on selected samples of farms, this report contains annual data for the calendar year 1964, including descriptive facts, inputs or costs, and output or income data about the farms and their livestock enterprises.

The incomes reported in Tables 1 through 3 for four types of farms in northern Illinois and three types in southern Illinois are indicative of the income, costs, and farm earnings experienced in 1964 by selected segments of Illinois farms. Similar data for 1963 and a 10-year average provide a comparison with other years.

Data for all the major livestock enterprises for

1964 are included in Tables 4 through 10. Because a large proportion of the feed grains and roughage produced on Illinois farms is marketed through livestock, the margins of income from livestock enterprises are important in interpreting the economic results of farming operations.

Tables 12 through 16 report costs, returns, financial summaries, investments, land use, and crop yields for several sizes and types of farms in northern and southern Illinois. The definitions of terms and accounting measures that precede these tables will aid in using the data.

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SUMMARY OF ILLINOIS FARM BUSINESS RECORDS, 1964

Farm business trends in 1964

The basic source of income on Illinois farms is crop production. Year-to-year variations in net farm income are related to variable climatic conditions and their effect on crop yields. In 1964, average corn yields for the state as reported by the Illinois Crop Reporting Service were 78 bushels an acre—down 7 bushels an acre from the record yields of 1963.

Rainfall during the growing season was below normal. The southern half of Illinois was adversely affected by an extended dry period in August. According to crop reporting estimates, corn yields for the four southern crop reporting districts ranged from 17 to 20 bushels an acre below 1963 yields. On the other hand, 1964 corn yields in the northern one-third of Illinois were from 2 to 5 bushels above the 1963 yields.

Crop and livestock prices. Another major determinant of change in farm income is the price farmers receive for crop and livestock products. In 1964, market prices received by farm account cooperators for all grain crops were very close to 1963 price levels. Wheat was the only exception, although the drop in market price from 1963 to 1964 was offset in part by direct payments to farmers that participated in the 1964 wheat program.

Market prices for hogs, milk, and eggs in 1964 were very close to 1963 levels. Although average market prices for fed cattle in 1964 were \$1.08 per hundred-weight below the 1963 average, the prices paid for replacement feeder cattle were even lower, about \$3.50 below 1963 levels.

Farming adjustments. The number of farms in Illinois was estimated at 141,000 in 1964. The average number of acres per farm was 213, compared with 176 acres per farm in 1955.1 In addition to the increase in size of farm, other adjustments are taking place on Illinois farms. Studies of farm records reveal that farmers are using more intensive land-use patterns, increasing the size of livestock enterprises on specialized farms, and eliminating small livestock enterprises on general farms. Even though the size of farm and the sizes of livestock enterprises have increased, the average months of labor per farm has changed very little in the past ten years. The combined effect of increased size of business and the adoption of outputincreasing technology has greatly increased total farm production per man.

Income changes on Illinois farms

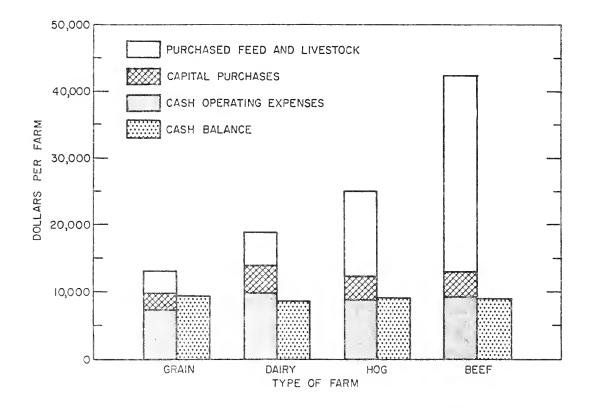
Comparative costs and returns between years and among major types of farming in northern and southern Illinois are reported in Tables 1 to 3. The separation of farms into northern and southern Illinois is based on soil-type regions, and divides the state approximately on an east-west line from Mattoon to Jacksonville. The sample of farms ranged between 180 and 259 acres in size, and averaged about 220 acres. Labor used on farms of this size averaged 14 months on grain farms, 16 months on hog and beef farms, and 20 months on dairy farms. The data in these tables are presented as if the farms were all owner-operated. Landlord and tenant shares of the business were combined where farms were leased.

Size of farm, type of farm, quality of soil, and managerial inputs were held reasonably constant over time by the sampling procedure used in selecting farms within each type of farm. Variations between 1963, 1964, and the 10-year average are due to changes in farm prices and costs, weather, and internal farming adjustments made within each system of farming. The data in these tables are particularly helpful for evaluating changes in farm costs and returns within a particular size and type of farm, and making comparisons between types of farming. The data do not reflect over-all farming adjustments resulting from farm enlargement or major changes in resource use.

The farm and family earning measure includes returns to the farm family for all unpaid labor, interest on invested capital, and managerial inputs used in farming. Changes in value of farm inventories and value of farm products consumed are included as income. Farm and family earnings are calculated by accounting methods that are generally comparable to the accrual method of calculating taxable farm income for the federal income tax. Important differences in accrual income tax accounting methods are the provision for capital gains on livestock sales, and the inclusion of interest paid as a farm expense.

The cash balance figure is the amount taken out of the farm business to pay for living costs, income and social security taxes, interest, and debt repayment and to add to savings. Purchases of new capital investments for the farm business have been included with total cash expenditures. Although the cash balance figure reflects the cash position of the farm business, it is influenced by purchase and sale transactions of feed and livestock, and changes in liabilities and borrowed funds.

¹ Illinois Cooperative Crop Reporting Service, Bulletin 65-1.



Cash expenditures and cash balance on 220-acre farms in northern Illinois, 1964. (Fig. 1)

Table 1. — Average Selected Total Farm Items on Northern Illinois 180-259 Acre Farms

		Grain farm	ıs		Hog farm	S		Dairy farn	ns
Items	1964	1963	1955-64 average	1964	1963	1955-64 average	1964	1963	1955-64 average
Number of farms	136	124	124	99	128	125	52	55	51
Total acres	229 81	228 81	226 81	224 77	224 76	221 77	219 71	219 72	218 71
Total cash sales	\$24,604 3,030	\$204,034	\$20,362	\$39,062 13,740	\$35,110 13,019	\$31,964 12,175	\$28,463 4,552	\$28,530 5,600	\$24,750 4,773
Net cash sales	-555 112	$ \begin{array}{r} 21,010 \\ 31 \\ 113 \\ \hline 21,154 \end{array} $	$ \begin{array}{r} 17,300 \\ 387 \\ \underline{141} \\ 17,828 \end{array} $	$ \begin{array}{r} 25,322 \\ -1,053 \\ \underline{195} \\ 24,464 \end{array} $	$ \begin{array}{r} 22,091 \\ -648 \\ 179 \\ \hline 21,622 \end{array} $	19,789 603 228 20,620	23,911 727 308 24,946	$ \begin{array}{r} 22,930 \\ 46 \\ 273 \\ \hline 23,249 \end{array} $	$ \begin{array}{r} 19,977 \\ 499 \\ 320 \\ \hline 20,796 \end{array} $
Cash operating expenses	2,659	$\begin{array}{r} \$ & 7,926 \\ 2,712 \\ \hline 10,516 \end{array}$	$\frac{$6,609}{2,584}$ $8,635$	$\begin{array}{ c c c } \$10,105\\ \hline 3,491\\ \hline 10,868\\ \end{array}$	$\frac{$9,689}{3,708}$	$\frac{$8,000}{3,223}$ $\frac{9,397}{}$	$ \begin{array}{r} \$10,732 \\ 4,154 \\ \hline 10,060 \end{array} $	$\frac{$10,358}{3,994}$ $\frac{8,897}{}$	$\frac{$8,931}{3,662}$
Unpaid labor charge	2,768 7,236 5,913 1,323	2,862 7,654 5,559 2,095	2,617 6,018 5,088 930	2,991 7,877 6,271 1,606	2,969 5,256 5,874 -618	2,805 6,592 5,298 1,294	3,500 6,560 5,926 634	3,245 5,652 5,731 -79	3,129 5,074 5,085 —11
Total cash income ^a Total cash expenditures ^a Cash balance	14,100	$\frac{$24,129}{14,140}$ $\frac{9,989}{}$	$\frac{$20,463}{12,024}$ $\frac{8,439}{}$	$\begin{array}{ c c c }\hline \$39,142\\ \hline 26,908\\ \hline 12,234\\ \hline \end{array}$	$\frac{\$35,156}{27,064} \\ \hline 8,092$	$\frac{$32,107}{23,557}$ $\frac{8,550}{}$	$\begin{array}{r} \$28,593 \\ \hline 19,644 \\ \hline 8,949 \end{array}$	$\frac{$28,709}{19,306} \\ \hline \frac{9,403}{}$	$\frac{$24,906}{17,541}$ $\frac{7,365}$
FARM INVESTMENT Livestock inventory	4,118 11,506	4,141 10,777	3,973 9,268	13,889 11,239	13,997 10,279	11,893 9,365	12,937 7,727	13,074 8,021	11,024 7,506
Remaining capital cost in: Machinery. Buildings and fence. Soil fertility. Auto. Value of land (current basis). Total farm investment.	5,820 10,782 124 700 106,521 139,571	5,673 9,209 175 682 100,657 131,314	5,366 10,052 375 695 90,042 119,771	7,307 15,684 142 818 95,417 144,496	6,744 15,364 206 675 87,778 135,043	6,609 12,976 389 740 79,985 121,957	8,263 21,391 93 811 84,128 135,350	7,905 20,565 225 667 80,225 130,682	7,626 17,448 274 687 71,423 115,988

^a Includes sales or purchases of capital items.

The investment per farm is for January 1 of each year. Physical quantities of grain and livestock are valued at farm market prices. Machinery, buildings, soil fertility, and auto are valued at remaining capital cost; that is, original cost less depreciation charged to date. Land is priced at current values. A basic value is established for each farm, based on a soil productivity rating and is adjusted to a current value each year by using an index of land prices in Illinois.

Figs. 1 and 2 show a summary of the financial transactions for different types of farms in northern and southern Illinois. The dollars represented by the left part of the bar for each type of farm are cash expenditures; the amount to the right represents the cash balance taken out of the farm business.

In comparing financial transactions among types of farms, the basic difference is the extent to which purchase and sale transactions of feed and livestock are involved in the farming operations. On grain farms, for example, purchased feed and livestock made up only 25 percent of the total cash expenditures. On the other extreme, the purchase of feed and livestock on north-

Table 2. — Selected Total Farm Items on 180-259 Acre Northern Illinois Beef Farms

Items	1964	1963	1955-64 average
Number of farms	45	50	70
Total acres	223 78	225 75	221 76
Total cash sales Less purchased feed and live-	\$55,959	\$51,997	\$45,724
stock	28,793	29,858	26,280
Net cash sales	27,166	22,139	19,444
Inventory change	-1,394 241	-4,631 245	616 252
Farm products consumed	26,013	17,753	$\frac{232}{20,312}$
Value of farm production			
Cash operating expenses	\$10,979	\$ 9,086	\$ 8,413
Annual depreciation	4,188	4,038	$\frac{3,720}{2,170}$
Farm and family earnings	10,846	4,629	8,179
Unpaid labor charge	2,815	2,966	2,733
Returns to capital and manage-	8,031	1,663	5,446
ment Interest charge on capital	7,478	6,937	6,172
Management returns	553	-5,274	-726
Total cash income ^a	\$56,015	\$52,153	\$46,041
Total cash expenditures ^a	43,166	43,033	38,593
Cash balance	12,849	9,120	7,448
FARM INVESTMENT	,	•	,
Livestock inventory	26,949	30,164	22,186
Grain inventory	12,306	11,241	10,881
Remaining capital cost in:			
Machinery	8,072	7,388	7,202
Buildings and fence	22,555	18,000	17,171
Soil fertility	151	135	369
Auto	851 98,336	708 88,882	790 81,041
Total farm investment	169,220	156,518	139,640
	,	,	,

a Includes sales or purchases of capital items.

ern Illinois beef-cattle farms represents 69 percent of the total cash expenditures.

The influence of soil quality on volume of business is illustrated by comparing the same types of farms (Figs. 1 and 2). Land area is the same, about 220 acres per farm, but the lower soil productivity in southern Illinois is reflected in the much smaller volume of business for the southern Illinois grain, dairy, and hog farms than for comparable types of farms in northern Illinois. The data presented in these charts summarize five years of financial transactions. Data for different types of farms in 1964, 1963, and the 1955-1964 average are reported in Tables 1, 2, and 3.

Northern Illinois farms

Grain farms. Farm and family earnings on northern Illinois 220-acre grain farms in 1964 were 5 percent below 1963, but 16 percent above the 1955-1964 average (Table 1). Weather was a factor in the change in earnings on grain farms in 1964. Crop yields on northern Illinois grain farms, although below those in 1963, were still above the long-time average.

Cash operating expenses increased by more than \$500 per farm on grain farms. Most of this increase was for the purchase of fertilizer. The total investment per farm in 1964 for this sample of grain farms was over \$139,000. These farms employed an average of 13.5 months of labor.

Hog farms. Farm and family earnings on northern Illinois hog farms increased from \$8,225 in 1963, to \$10,868 in 1964 (Table 1). Crop yields for 1964 in the major hog producing region of west-central Illinois were about equal to 1963 yields. The average market price for hogs in 1964 was \$14.81, compared with \$14.86 per 100 pounds in 1963. The total pounds of pork and beef produced per farm increased by 4 percent in 1964 over 1963.

Cash operating expenses continued to increase in 1964 over 1963, and were 26 percent above the 1955-1964 average. Investment per farm was over \$144,000 in 1964, with 15.9 months of labor employed on this sample of farms.

Hog farms have become more specialized in recent years. The average pounds of pork produced per farm on 220-acre northern Illinois hog farms has doubled since 1951-1952. The increase in size of the hog enterprise was a net addition to the farm business and did not replace other livestock enterprises.

Dairy farms. Farm and family earnings on the sample northern Illinois dairy farms increased from \$8,897 in 1963 to \$10,060 in 1964. The increase in earnings on northern Illinois dairy farms was largely from higher crop yields and a resulting reduction in

the purchase of livestock feed in 1964. Farm operating costs increased \$534 per farm from 1963 to 1964.

The number of dairy cows per farm averaged 40 cows in 1964, up from 37 cows in 1963, and 16 more than the 24 cows per farm in 1955.

Beef farms. Farm earnings on northern Illinois beef farms recovered from the very low levels experienced in 1963. The farm and family earnings of \$10,846 on 220-acre northern Illinois beef farms was 2.3 times greater than 1963 earnings, and 33 percent above the 1955-1964 average.

Most of the recovery in farm earnings from 1963 to 1964 on northern Illinois beef farms resulted from an increase in total volume of cattle and hogs marketed, a reduction in the dollars spent for purchased feed and livestock, and an improvement in crop yields.

The sum of cash operating expenses and depreciation increased by 21 percent from 1963 to 1964, but was only 10 percent above farm operating costs in 1962. Because of the very low earnings in 1963, beefcattle farms delayed or reduced cash operating expenses in an attempt to hold expenses in line with reduced net income. With the recovery of net farm income in 1964, farm operating costs increased sharply.

Southern Illinois farms

Grain farms. Farm and family earnings on southern Illinois 220-acre grain farms averaged \$6,388, a drop of \$2,642 per farm below the record income levels in 1963. The 1964 farm earnings, however, were only 1 percent below the 1955-1964 average.

Total value of farm production in 1964 dropped \$3,000 below 1963. Lower crop yields accounted for all of the drop in gross farm income, either through reduced crop sales or lower inventories.

Cash operating expenses in 1964 declined by \$253 per farm from 1963. Southern Illinois grain farmers reduced purchases of capital items from an average of \$3,109 in 1963 to \$2,283 in 1964, evidently in an attempt to maintain a net cash balance in 1964 equal to 1963 levels.

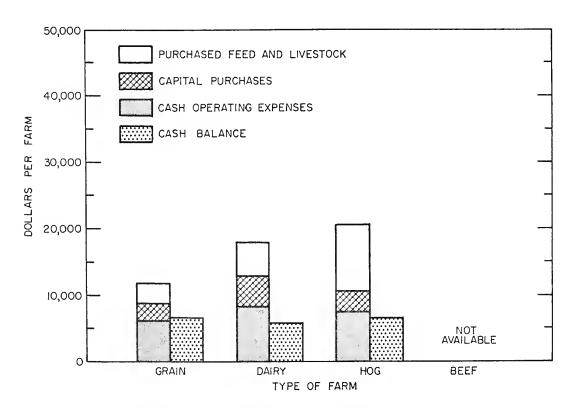
Hog farms. Farm and family earnings on southern Illinois 220-acre hog farms averaged \$6,070 in 1964, only two-thirds as much as in 1963, and 11 percent below the 1955-1964 average.

As was the situation with southern Illinois grain farms, much lower crop yields on hog farms in 1964 reduced cash sales of crops and resulted in a big decrease in value of crop inventories at the end of 1964.

With the downward adjustment in net farm earnings, cash operating expenses also were lower in 1964.

Dairy farms. Farm and family earnings on 220-acre southern Illinois dairy farms in 1964 were \$6,942, 25 percent below the record earnings of \$9,216 in 1963, but only 6 percent below the 1955-1964 average.

The dairy farms had higher net farm earnings in 1964 than either the grain or hog farms. Increased sales of livestock and livestock products was one factor explaining the higher earnings on dairy farms; also, dairy farms with more of their cropland in hay and pasture crops were affected less by dry weather.



Cash expenditures and cash balances on 220-acre farms in southern Illinois, 1964. (Fig. 2)

Table 3. — Average Selected Total Farm Items on Southern Illinois 180-259 Acre Farms

		Grain farn	ıs		Hog farm	s		Dairy farn	ns
Items	1964	1963ъ	1955-64 average	1964	1963	1955-64 average	1964	1963	1955-64 average
Number of farms	32	30	41	51	26	41	55	25	44
Total acres	222 35	219 36	222 38	219 35	227 37	220 36	220 31	217 28	217 31
lotal cash sales	\$18,834 2,548	\$19,850 2,840	$$15,840 \\ 2,651$	\$29,993 11,226	\$30,208 10,747	\$23,442 8,758	\$26,855 5,900	\$23,779 4,765	\$20,932 4,570
Net cash sales	$ \begin{array}{r} \$16,286 \\ -922 \\ \underline{160} \\ 15,524 \end{array} $	\$17,010 1,350 161 18,521	$$13,189 \\ 714 \\ 167 \\ \hline 14,070$	$ \begin{array}{r} \$18,767 \\ -2,121 \\ \underline{150} \\ 16,796 \end{array} $	$ \begin{array}{r} \$19,461 \\ 1,248 \\ 174 \\ \hline 20,883 \end{array} $	\$14,684 709 251 15,644	$ \begin{array}{r} \$20,955 \\ -837 \\ 330 \\ \hline 20,448 \end{array} $	$ \begin{array}{r} \$19,014 \\ 2,136 \\ 405 \\ \hline 21,555 \end{array} $	\$16,362 919 353 17,634
Cash operating expenses	$\frac{6,862}{2,274}$ 6,388	$\frac{7,115}{2,376}$ $\frac{2,376}{9,030}$	$\frac{5,419}{2,212}$ $6,439$	$ \begin{array}{r} 8,131 \\ 2,595 \\ \hline 6,070 \end{array} $	$\frac{8,692}{2,829}$ $\frac{9,362}$	$\frac{6,405}{2,393}$ $\frac{6,846}{6,846}$	$\begin{array}{r} 9,888 \\ 3,618 \\ \hline 6,942 \end{array}$	$\frac{8,782}{3,557}$ 9,216	$\frac{7,179}{3,082}$ $\overline{7,373}$
Unpaid labor charge	2,829 3,559 2,851 708	2,852 6,178 2,558 3,620	2,555 3,884 2,401 1,483	3,035 3,035 3,148 -113	3,262 6,100 3,161 2,939	2,780 4,066 2,581 1,485	3,241 3,701 3,378 323	3,346 5,870 2,903 2,967	3,105 4,268 2,651 1,617
Total cash income ^a	$\frac{$18,840}{11,699}$ $\frac{7,141}{7}$	$\frac{$19,881}{12,735}$ $\frac{7,146}{}$	$\frac{$15,959}{10,517} \\ \hline 5,442$	$\begin{array}{r} \$30,215 \\ 21,997 \\ \hline 8,218 \end{array}$	$\frac{$30,363}{23,587}$ $\frac{6,776}{6}$	$\frac{$23,542}{18,035}$ $\frac{5,507}{}$	$\begin{array}{r} \$26,861 \\ 19,848 \\ \hline 7,013 \end{array}$	$\frac{$23,824}{18,313}$ $\frac{5,511}{}$	\$21,018 15,895 5,123
FARM INVESTMENT Livestock inventory	4,039 7,711	3,671 5,989	3,014 4,833	9,131 7,269	9,753 6,092	7,479 5,152	10,590 6,520	9,877 4,540	7,806 4,359
Remaining capital cost in: Machinery Buildings and fence. Soil fertility. Auto Value of land (current basis). Total farm investment.	6,165 5,895 108 519 40,738 65,175	5,234 4,968 244 524 38,153 58,783	5,341 4,782 389 579 36,350 55,288	5,987 9,054 257 577 38,359 70,634	5,953 9,576 402 453 38,717 70,946	4,960 6,616 468 592 32,936 58,203	9,272 12,399 197 636 34,929 74,543	8,629 9,907 320 459 30,420 64,152	7,697 9,117 386 586 28,849 58,800

^a Includes sales or purchases of capital items. ^b Revised from data appearing in Cir. 891.

LIVESTOCK ENTERPRISES

Table 4 shows the returns per \$100 feed fed to various livestock enterprises, and the price of corn during each of the past 15 years. Fifteen-year (1950-1964) averages are also shown. The difference between the return figure and \$100 feed cost represents the margin available to pay cash expenses other than feed, labor, depreciation on equipment, and interest on investment, and also to provide for profit.

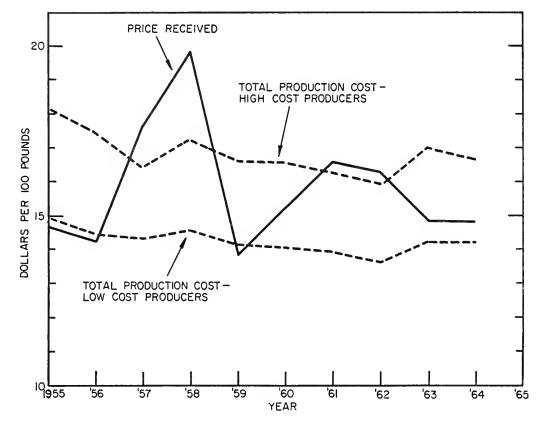
The margin needed to cover non-feed costs varies with the kind of livestock and depends on the proportion of total production costs represented by feed. The 15-year averages represent the approximate level of returns at which farmers have been willing to maintain livestock production. This average may not represent break-even returns on all farms because some farmers may discount market prices for some resources used in producing livestock. If a farmer already has facilities for livestock, he need only cover operating costs to continue production. However, when he views livestock production as a new or long-run enterprise, he

hopes to cover all costs — fixed and variable — or he may not undertake the enterprise.

As individual farmers try to increase profits, they tend to curtail livestock production when returns per \$100 of feed fed are below the 15-year average, and to increase production when returns are above average. This tendency on the part of producers causes supplies of livestock products to fluctuate.

The hog enterprise is the best illustration. Since 1953 the pattern of hog returns has been to exceed the 15-year average for two to three years, and then to fall below for one to two years. This pattern is referred to as the hog cycle and is related to the supply and demand for pork. If this same pattern continues, hog returns in 1965 should be above average.

Feeder-cattle returns were below the 15-year average in five of the past six years. Returns have barely been enough to cover market prices for home-grown feeds and other variable cash costs incurred by the average feeder in this period.



Average price received for all hogs sold compared to the estimated cost of hog production on Illinois record-keeping farms, 1955 to 1964. (Fig. 3)

Unless there is a let-up in the expansion of cattle feeding or a reduction in cattle numbers to bring beef supplies into balance with demand, there may not be much permanent improvement in cattle feeding returns. It is more difficult to identify cyclic income movements over a 15-year period in the beef cattle industry because it is more complex and adjusts more slowly than other livestock enterprises.

Dairy and poultry returns fluctuate less than beef cattle returns from year to year. In both enterprises, 15-year average returns are below the margin needed to cover all fixed and variable costs. The implication

Table 4. — Returns per \$100 Feed Fed to Different Classes of Livestock

Year	Beef cow herds	Dairy cow herds	cattle	sheep	Feeder sheep bought	Hogs	Poultry	Yearly price of corn
1950 1951 1952 1953 1954	170 99 64	173 187 175 147 141	170 142 86 81 126	177 171 67 84 97	182 111 44 113 119	152 127 116 178 154	122 137 116 148 104	\$1.35 1.66 1.65 1.44 1.46
1955 1956 1957 1958 1959	103 134 162	168 177 189 199 191	106 117 143 144 112	103 137 138 98 102	100 108 113 47 61	109 142 172 180 114	142 133 136 142 123	1.28 1.30 1.15 1.10 1.10
1960 1961 1962 1963 1964	139 149 117	200 196 190 171 174	117 116 148 88 112	108 110 126 126 124	122 108 112 118 124	164 164 159 131 142	157 150 144 141 141	1.03 1.01 .98 1.11 1.12
1950-64 average	125	179	121	118	105	147	136	\$1.25

is that these enterprises compete most favorably on farms with plentiful labor, capital, and management resources that have few alternative uses.

The business of raising livestock is very competitive. Average profit margins are very narrow. Large numbers of farmers are willing to stay in business as long as their returns cover only operating costs. Expansion plans involving large investments for new facilities should be based on estimated returns that are high enough to cover all costs. Fluctuations in livestock returns also involve a risk in years when returns are low.

Hog enterprises

The information in Table 5 is based on a sample of 712 farms farrowing ten or more litters per year. Farms were omitted from the sample if the number of hogs purchased exceeded 10 percent of pigs weaned. This eliminated from the sample those farms with combined farrowing and feeder-pig operations. Feeder-pig enterprise information is included in Table 6.

Returns per \$100 feed fed to hogs were \$142 in 1964, only \$5 below the 1950-1964 average. The fluctuation in these returns above and below the 15-year average (\$15 below in 1963) is related to changes in supplies of and demand for pork and to the price of corn. The supply of pork per capita, the average price received per 100 pounds of pork sold, and the average price per bushel of corn fed (see Table 4) were about the same in 1964 as in 1963.

Table 5. - Hog Enterprises, 1964

Items	All farms	High- return farms	Low- return farms
Number of farms	712	108	165
Average per farm			
Pounds of pork produced Total returns Value of feed fed Returns per \$100 feed fed Returns above feed per	117,196 \$17,298 12,167 142	120,249 \$18,472 11,105 166	109,739 \$15,576 12,801 122
Number of litters farrowed Pigs farrowed per litter Pigs weaned per litter Number of pigs weaned Number that died after weaning Pounds of death loss Percent of pounds pro-	67 9.1 7.5 502 17 1,495	68 9.4 7.7 525 11 1,109	64 8.9 7.3 463 19 1,630
duced	1.3 236	.9 234	1.5 238
Price received per 100 pounds		\$ 15.01	, i
produced Feed per 100 pounds pro- duced	10.38		
Farm grains, lb	335	290	370
Commercial feeds, lb Total concentrate, lb.	62 397	60 350	$\begin{array}{c} 71 \\ 441 \end{array}$
Pasture (pasture days)	.8	.8	.8
Cost per 100 pounds of commercial feeds Cost per 100 pounds of	\$ 5.76	\$ 5.57	\$ 5.82
concentrates	2.58	2.61	2.62

Corn produced in 1963 but fed in 1964 was reported to be of excellent quality. This was verified on many farms when bushels of corn delivered to market overran the rated capacity of the storage bins. It is believed that this contributed to a reduction of 12 pounds of farm grains to produce 100 pounds of pork in 1964 as compared with 1963. The 1964 average of 7.5 pigs weaned per litter was the highest ever recorded and boosted weight produced per litter 85 pounds above 1963. The average size of hog enterprise on all record-keeping farms has increased at the rate of about 3 litters per year, from 41 litters (288 pigs weaned) per farm in 1955, to 67 litters (502 pigs weaned) in 1964.

The high-return group of farms (low-cost producers) in Table 5 had returns per \$100 feed fed that ranged from \$160 to \$179, and the low-return group (high-cost producers) ranged from \$110 to \$129. The greatest differences between high- and low-return groups were feed conversions and feed costs per 100 pounds produced.

The high-return farms used 80 pounds less farm grains and 11 pounds less commercial feeds to produce 100 pounds pork than the low-return farms. This saving in feed was equivalent to about 1,718 bushels of corn and 6.6 tons of protein per farm, or about \$2,700.

Other differences show 0.4 more pigs weaned per litter, 0.6 percent lower death loss, and 41 cents per 100 pounds higher selling price for pork sold for the high-return farms. There are wide variations in profits from swine enterprises on individual farms since these same differences between high- and low-return farms occur each year.

The hog enterprise has been a profitable business for the farmers in the high-return group (low-cost producers). Fig. 3 compares the total cost of production of the low-cost producers (high-return group of record-keeping farms) with the average annual price received for all hogs sold on record-keeping farms from 1955 to 1964. Total production costs include feed and non-feed inputs. The actual feed costs incurred on the record-keeping farms were used. Non-feed costs were estimated from detailed cost studies at \$5 per 100 pounds over the 10-year period.

The average price received for all hogs sold was above production costs for the low-cost producers in 7 of the 10 years, and about equal to production costs in 3 years. The price received was above the production costs of high-cost producers 4 out of the 10 years. If this favorable relationship between hog prices and production costs continues in the years ahead, it should encourage increased hog production on Illinois farms.

Feeder-cattle and feeder-pig enterprises

Calendar-year operations for feeder-cattle and feeder-pig enterprises are presented in Table 6. These involve weights and values on partly finished animals purchased in prior years as well as on animals purchased in the current year.

Table 6. — Feeder-Cattle and Feeder-Pig Enterprises, 1964

Items	Feeder cattle	Feeder pigs
Number of farms	413	100
Average per farm		
Total pounds produced	72,733	64,853
Total returns	\$14,866	\$ 7,698
Value of feed fed	13,249	6,323
Returns per \$100 fed fed	112	122
Pounds of death loss	1,298	1,071
Percent of pounds produced	1.8	1.7
Average weight purchased	563	52
Price paid per 100 pounds	\$ 21.26	\$ 26.11
Price received per 100 pounds	21.92	15.11
Feed cost per 100 pounds produced	18.22	9.75
Feed per 100 pounds produced		
Grain, lb	538	331
Protein and mineral feeds, lb	59	52
Total concentrates, lb	597	383
Hay, lb	135	
Silage, lb	643	
Pasture (pasture days)	3	

Pork produced per farm from feeder-pig enterprises was 64,853 pounds in 1964 (see Table 6), more than two and one-half times the 25,461 pounds produced per farm in 1955. Farmers were not only buying more feeder pigs per farm but healthier pigs. Death loss has dropped steadily the past four years from 2.7 percent of weight produced in 1960, to 1.7 percent in 1964. Returns follow the cyclical pattern of the sow and litter enterprise. Returns per \$100 feed fed averaged \$122 in 1964.

The 72,733 pounds of beef produced per farm in 1964 (Table 6), is 50 percent greater than production in 1958. Returns per \$100 feed fed for feeder-cattle enterprises was \$112 in 1964. This is approaching the past 6-year average return of \$115, but is still at an unprofitable level for the average farmer.

Some adjustments in feeding programs to compensate for the long period of low profit margins are taking place. Weight produced per farm in 1964 was 3.7 percent below 1963. Average weight purchased was down 10 pounds per steer. Price paid for feeders bought in 1964 was \$3.54 per 100 pounds below 1963, while price received for cattle sold in 1964 was down only \$1.08.

Pounds of grain and pounds of hay used per 100 pounds of beef produced have dropped steadily since 1960, from 644 to 538 pounds, and from 182 to 135 pounds respectively, while pounds of silage used has increased steadily from 458 to 643 pounds per 100 pounds of beef produced. Feed costs per 100 pounds produced, however, remains about the same. The shift to the use of more corn silage in the ration reflects attempts by feeders to increase production from existing land by intensifying the crop system and to reduce labor by mechanizing the feeding operation.

These data do not show the wide variation in profits that exist among cattle feeding programs and individual feeders. More farmers are now feeding more than one drove of cattle each year to provide a better utilization of fixed investments in mechanized feedlots. The increase in investments and complexity of the cattle feeding operation makes good records more important than ever to evaluate returns to resources used in cattle feeding.

Dairy enterprises

The minimum size of herd included in this analysis was 10 milk cows. The average size of dairy herd was 35.5 cows in 1964, compared with 21.8 cows per farm on all record-keeping farms in 1955.

Returns per \$100 feed fed to dairy enterprises in

Table 7. — Dairy Cattle Enterprises, 1964

Items	All farms	Pastur	e days per an	animal unit		
Ttems	An farms	0	1-119	120+		
Number of farms	346	54	156	136		
Average per farm						
Number of cows in	25.5	4 7 0	27.2			
herd	35.5	45.3	35.2	31.9		
Number of milk cows Percent of milk cows	35.4	45.3	35.1	31.8		
dry	16 56.7	$\begin{array}{c} 15 \\ 72.0 \end{array}$	16 55.9	16 51.6		
Pounds of beef pro-						
duced	19,020	27,496	18,065	16,750		
Total returns	\$17,230	\$23,000	\$16,887	\$15,332		
Value of feed fed	9,880	13,862	9,671	8,540		
Returns per \$100 feed	174	166	175	100		
fedReturns above feed per	1/4	100	173	180		
milk cow	208	202	206	214		
Total pounds of milk	400 002	E41 040	200 206	260 660		
produced Pounds of milk per	409,893	541,840	399,286	369,668		
milk cow	11,579	11,961	11,376	11,625		
Pounds of butterfat per milk cow	435	439	438	429		
Pounds of beef per cow	400	437	450	429		
in herd	536	607	515	525		
Pounds of death loss	1,309	1,802	1,205	1,233		
Percent of pounds	•	-				
produced	6.9	6.6	6.7	7.4		
Feed cost per unita Price received for:	\$ 16.46	\$ 16.97	\$ 16.68	\$ 15.90		
100 lb. milk	3.70	3.75	3.72	3.65		
100 lb. beef	14.60	14.09		15.12		
Feed per unit of milk						
and beef, pounds						
Grain, lb	252	270	244	252		
Protein and miner- als, lb	61	64	66	52		
Total concen-	01	01	00	02		
trates, lb	313	334	310	304		
Hay and dry rough-	359	300	358	396		
age, lb Hay silage and soil-	339	300	336	390		
age, lb	239	491	257	66		
Corn and other si-		000	714	510		
lage, lb	666	828	714	510		
Pasture (pasture days)	9		8	15		
Pasture days per ani-	-		•			
mal unit	91		81	155		

a 1,000 pounds of milk or 100 pounds of beef.

1964 (Table 7) was \$174, \$5 below the 1950-1964 average. Feed costs per 1,000 pounds of milk or 100 pounds of beef produced were 56 cents lower, and price received for milk was 8 cents per 100 pounds higher in 1964 than in 1963. These changes were more than enough to offset the effect of lower beef prices of \$1.30 per 100 pounds.

Dairy farmers have reduced the amount of pasture and increased the amounts of grain and silage fed. Pasture days per unit (1,000 pounds of milk or 100 pounds of beef) remained at 15 days prior to 1959, but since 1960 has declined steadily to 9 days in 1964.

Table 8. — Beef Cow Enterprises, 1964

Items	All farms	Calves sold	Calves fed out
Number of farms	255	101	122
Average per farm			
Number of cows in herd	$\begin{array}{c} 28.4 \\ 40.8 \end{array}$	32.0 40.6	$\begin{array}{c} 25.5 \\ 41.6 \end{array}$
Total pounds produced Total returns Value of feed fed Returns per \$100 feed fed	19,452 \$ 3,382 3,156 107	17,324 \$ 2,861 2,684 107	21,050 \$ 3,770 3,537 107
Pounds of beef per cow in herd	685	542	825
sold	739 929	571 850	891 919
duced Feed cost per unit ^a Price received per 100	\$ 4.8 \$ 16.22	\$ 4.9 \$ 15.49	\$ 16.80
pounds	20.14	20.05	20.36
Feed per unit of milk and beef			
Grain, lb Protein and mineral	193	67	273
feeds, lb	22	11	27
Total concentrates, lb Hay and dry roughage,	215	78	300
1b	569	675	507
Hay silage, lb	34	82	11
Corn and other silage, lb.	207	166	260
Pasture (pasture days)	39	50	32
Pasture days per animal unit	187	213	162

^a 1,000 pounds of milk or 100 pounds of beef.

The dairy herds in Table 7 were divided into three groups: herds with no pasture days per animal unit, 1 to 119 days, and 120 days or more. Each year a few more herds have been adopting the practice of feeding cows in drylot. The size of the dairy herd averaged 45.3 cows on farms with no direct grazing compared with 31.9 cows on farms using a full pasture season.

The main difference among these three groups of dairy herds is the amount of land required per cow to produce roughage. When hay and pasture yields are figured at 150 pasture days and 3 tons per acre respectively, the farms with drylot feeding required only 1.2 acres per cow to produce grass-legume forages, while the farms with over 120 pasture days per animal unit used 2.6 acres. Milk production per cow did not vary greatly, but was highest on the farms with drylot feeding.

Returns above feed cost ranged from \$202 per milk cow on farms using no direct grazing, to \$214 per cow on farms using a full pasture season. Part of the additional costs of harvesting roughage to be fed in drylot are included in the cost of feed. Farmers using the drylot system must relate the higher cost of feed

to the increased returns that may result either from shifting land from pasture to grain crops or from an increase in size of dairy herd on fixed acres of hay and pasture.

Beef-cow herds

The minimum size of a beef-cow herd included in Table 8 was 10 or more cows. Farms with combinations of cow herds and purchased feeder cattle were not included. In addition to an analysis of all farms, Table 8 shows an analysis of farmers with cow herds who sold calves at weaning time, comparing them with those who finished their calves to slaughter weights. The average size of cow herd on all farms has changed little since 1956, ranging from 25 to 28 cows. This reflects the decision of the majority of Illinois farmers to maintain a beef-cow herd as a supplemental enterprise to market nonsalable feeds and labor.

Returns per \$100 feed fed to beef-cow herds in 1964 averaged \$107. This return was the lowest since 1956 and follows the pattern of returns from 1953 to 1955 when cow herds had very low returns following several years of low feeder-cattle returns.

In 1964, farms that sold calves received \$6 per cow above value of feed fed, and farms that sold cattle at slaughter weights received \$9 per cow above value of feed fed. If those who sold slaughter cattle had deducted charges for the added labor, buildings, and capital required, it would have been more profitable to sell calves at weaning than to feed them out.

Poultry enterprises

The minimum size of flock included in Table 9 is 100 hens. The average size of flock, omitting farms with less than 100 hens, has increased from 284 hens in 1954 to 680 in 1964. In the same period, pounds of concentrates per dozen eggs or $1\frac{1}{2}$ pounds of weight produced have declined steadily each year from 7.2 in 1954 to 5.8 pounds in 1964. Eggs per hen increased steadily from 192 to 210 from 1954 to 1959, and have ranged from 213 to 208 eggs per hen since 1960.

Larger flocks received more returns above feed cost per hen than the smaller flocks (see Table 9). Farms with over 2,000 hens had returns above feed cost per hen of \$1.76, compared with only 59 cents on farms with 100-299 hens. This difference may not reflect the actual contribution of poultry laying flocks to farm income, since small flocks may utilize inputs of labor, equipment, and buildings that have limited alternative uses. However, the higher production per hen on the farms with larger flocks indicates better management and a potentially higher return for labor and capital.

Table 9. — Poultry Enterprises, 1964

	Number of hens per farm							
All farms	10)1-299	30	0-749	75	60-1,999		Over 2,000
195		104		48		33		10
1,691		628	1.	233	3	.351	9	,475
\$ 3,203	\$	806	\$2.	053	\$ 6	.486	\$22	.825
2,266								,066
141		116				141		162
		. 59		1.00		1.49		1.76
680		189		440	1	273	4	,991
					•		•	210
57								58
12.939	3.				2.5		93	,674
			Ŝ,			18		.15
	•		۲		۳		P	
		7.1		6.4		5.6		5.2
				0.2		0.0		٠.٣
\$ 3.02	\$	2.96	\$	3 07	S.	3 16	S.	2.88
	P		~		٣		٣	.07
31								.31
							1	,803
	195 1,691 \$ 3,203 2,266 141	195 \$ 1,691 \$ 3,203 2,266 141 1.38 680 208 57 12,939 \$.18 \$ 5.8 \$ 3.02 .07 .31	101-299 195 104 \$\begin{array}{cccccccccccccccccccccccccccccccccccc	All farms 101-299 30 195 104 \$\begin{array}{cccccccccccccccccccccccccccccccccccc	All farms 101-299 300-749 195 104 48 \$\begin{array}{cccccccccccccccccccccccccccccccccccc	All farms 101-299 300-749 75 195 104 48 \$\begin{array}{cccccccccccccccccccccccccccccccccccc	All farms 101-299 300-749 750-1,999 195 104 48 33 \$\begin{array}{cccccccccccccccccccccccccccccccccccc	All farms 101-299 300-749 750-1,999

^a One dozen eggs or 1.5 pounds of weight produced.

Sheep enterprises

Sheep production is a minor enterprise on record-keeping farms. The minimum size of enterprise in Table 10 was set at 3 animal units. One animal unit of sheep is defined as 750 pounds of liveweight. The sheep enterprises were divided into native ewe flocks and feeder-lamb operations. Returns per \$100 feed fed in 1964 were \$124 for native flocks and \$124 for feeder sheep. These returns were similar to those received in 1963, and were above the 15-year average of \$118 for native flock and \$105 for feeder sheep.

Table 10. — Sheep Enterprises, 1964

Items	Native flocks	Feeder sheep
Number of farms	97	11
Average per farm		
Pounds of wool and mutton produced Total returns	3,625 \$ 705 566 124	16,822 \$ 3,421 2,757 124
Percent lamb crop	\$ 123 531 14.6 \$ 15.61 21.80	2,964 17.6 \$ 16.33 20.93 19.58
Feed per 100 pounds produced Concentrates, lb	224 585 33 38	568 129

DEFINITION OF TERMS AND ACCOUNTING MEASURES

Soil-productivity rating

An average index representing the inherent productivity (low level of management) of all tillable land in the farm. Individual soil types on each farm are assigned an index ranging downward from 100.

Type of farm

Sampling technique. The records in each size group for northern Illinois were sampled to provide a proportional representation of all farms of that size range according to the 1959 census.

Grain farms. Farms where the value of feed fed to livestock was less than one-half of the feed and grain returns and value of feed to dairy or poultry was not more than one-sixth of the feed and grain returns.

Hog or beef farms. Farms where the value of feed fed to livestock was more than one-half of the feed and grain returns and either hog or beef-cattle enterprises

received more than one-half of the value of feed fed.

Dairy or poultry farms. Farms where the value of feed fed to livestock was more than one-half of feed and grain returns and either dairy or poultry enterprises received more than one-third of the value of feed fed.

Cost items

Value of feed fed. Includes grains priced at the farm average as follows: corn—\$1.12 per bushel; oats—63 cents per bushel; barley—86 cents per bushel; soybeans—\$2.56 per bushel; rye—\$1.13 per bushel; wheat—\$1.65 per bushel. Commercial feeds were priced at actual cost, hay and silage at farm values, and pasture at 13 cents per animal unit pasture day. A pasture day represents an intake of approximately 20 to 25 pounds of dry matter. It has been defined as 16 pounds of total digestible nutrients (TDN) from pasture.

Cash operating expenses. Includes annual cash outlays for non-depreciable items of fertilizer, machinery repairs, machine hire, gas and oil, electricity and telephone, farm share of auto, hired labor, seed and crop expense, taxes, building repairs, livestock and miscellaneous expense, and cash rent, plus annual net depreciation on machinery, buildings, and fertility. It does not include cash outlays for feed and livestock since these have been deducted from gross receipts in computing the value of farm production (adjusted gross receipts).

Table 11. — Average Prices Received and Paid by Farm Record Keepers

	19	064	19	963
	Northern Illinois	Southern Illinois	Northern Illinois	Southern Illinois
Grain prices				
Corn, sold Soybeans, sold Oats, sold Wheat, sold Corn, purchased Oats, purchased	. 2.58 64 . 1.43 . 1.14	\$1.15 2.51 .68 1.39 1.13 .80	\$1.14 2.52 .67 1.86 1.13 .68	\$1.13 2.54 .73 1.80 1.16 .82
Livestock prices				
Hogs, all weights Fat cattle, all weights Feeder cattle, all weights,	. 21.		\$14 23	. 86 . 0 0
prices paid	. 14.	. 26 . 60		. 80 . 91
Sheep, all weights	. 21.	. 80		.94
PoultryMilk		.07 .70		. 08 . 62
Eggs.		.31		.32

Machinery and equipment. Includes machinery and equipment depreciation, machinery repairs, machine hire, gas and oil, electricity and telephone, and farm share of auto.

Labor. Includes actual hired labor costs plus family and operator's labor charged in 1964 at \$225 and \$215 a month respectively for northern and southern Illinois.

Interest charge on capital. Interest charged at 5 percent on January 1 inventory of remaining capital investment in grain, livestock, machinery, buildings, soil fertility, and farm share of auto, plus 4 percent interest on bare land priced at current land values.

Total nonfeed costs. All cash operating expenses, depreciation, and imputed charges for unpaid labor and interest on capital. Purchased feeds and livestock are omitted.

Value of land (current basis). A basic value on bare land is established for each farm according to the soil-productivity rating. This basic value is adjusted each year according to the index of land prices in Illinois as reported by the USDA.

Return items

Feed and grain returns. The sum of grain and feed sales, value of all feeds fed (except milk), and change in value of feed and grain inventories less the value of feed purchased.

Value of farm production. Total cash sales of products and services, less purchased feed and livestock, plus change in inventory values of grain and livestock, plus value of farm products consumed.

Farm and family earnings. Value of farm production less cash operating expenses and depreciation. This figure includes the return to the farm and family for unpaid labor, interest on invested capital, and returns to management.

Labor and management earnings. Farm and family earnings less the value of family labor and interest charge on capital invested. It is the residual return to operator's labor and management efforts.

Capital and management earnings. Farm and family earnings less a charge for all unpaid (operator and family) labor.

Management returns. The residual surplus left after a charge for unpaid labor and interest charge on capital are deducted from farm and family earnings.

Table 12. — Average Costs, Returns, and Financial Summary by Size and Type of Farm, Northern Illinois, 1964

	[] []	GRAIN FARMS W	ITH	SOIL RATI	RATING 76-100		GRAIN	N FARMS WITH	WITH SOIL	RATING	56-75
Range in size (total acres)	Under 180 33	180-259 103	260-339 121	340-499 146	500-649 83	650+ 56	Under 180 20	180-259 33	260-339 39	340-499 80	500+ 58
Size of farm (acres)	156 148 86 43	228 214 85 73	301 281 85 31	408 385 85 31	559 518 85 29	816 749 84 4	147 134 68 41	232 212 69 28	306 269 69 10	416 369 69 26	643 540 70 61
Dairy cows, numberBeef produced, hundredweight	.2 42 188	.6 240	.5 83 221	$\frac{.3}{102}$.2 184 344	$\begin{array}{c} 265 \\ 479 \end{array}$	 14 75	.5 63 233	120 244	3.2 105 307	1.7 179 416
DOLLAR COSTS PER FARM Soil fertility Buildings and fence Machinery and equipment	\$ 1,396 ; 1,131 ; 3,924 ; 916	\$ 1,957 1,200 4,860 3,111	\$ 2,846 1,573 5,911 3,342	\$ 3,963 1,931 7,705 4,352	\$ 5,437 2,608 10,335 5,713	\$ 8,107 2,941 13,573 7,661	\$ 1,546 1,201 3,340 2,402	\$ 2,093 1,223 4,224 2,951	\$ 2,705 1,431 6,108 3,372	\$ 3,398 1,734 7,032 4.110	\$ 5,316 2,307 9,964 5,482
Taxes Seed expense. Crop expense.	1,305 403 326	1,650 530 418	2,122 656 576	$\frac{2,897}{927}$ 1,070	3,685 1,322 1,136	5,313 1,816 1,770	1,174 336 261	1,392 516 369	1,756 623 514	2,372 868 710	3,495 1,084 1,107
Livestock and miscellaneous expense Interest charge on capital Total non-feed costs.	$\frac{311}{4,441}$ $\frac{4,441}{16,153}$	$ \begin{array}{c} 400 \\ 6,234 \\ \hline 20,360 \\ 4,153 \end{array} $	$\begin{array}{c} 412\\ 8,103\\ 25,541\\ 2,25,541 \end{array}$	$\begin{array}{c} 595 \\ 10,864 \\ \hline 34,304 \\ 5,386 \end{array}$	$ \begin{array}{c} 618 \\ 14,558 \\ \hline 45,412 \\ 7,106 \end{array} $	$\begin{array}{c} 796 \\ 20,401 \\ 62,378 \\ 9,694 \end{array}$	$\begin{array}{c} 299 \\ 3,389 \\ \hline 13,948 \\ 1,437 \end{array}$	$402 \\ 4,911 \\ \hline 18,081 \\ 3,710$	$ \begin{array}{c} 396 \\ 6,413 \\ \hline 23,318 \\ 4,671 \end{array} $	8,533 29,304 6,085	596 12,561 41,912 7,586
			\$ 1,033 26,750 1,173 28,956	\$ 1,251 37,126 1,415 39,792	\$ 1,512 49,271 1,823 52,606	\$ 1,987 71,785 2,218 75,990	\$ 456 11,300 1,166 12,922	$ \begin{array}{c} \$ 1,004 \\ 17,034 \\ 694 \\ \hline 18,732 \end{array} $	\$ 1,053 22,806 1,467 25,326		\$ 2,453 45,870 2,038 50,40
Farm production per \$1.00 of non-feed costs	66.	90	23 964	1.16			.93	17.291			
		\$25,469 $25,610$	G-7	\$44,921 $45,142$	• • •	69	,563 463 ,026	\$21,903 $22,057$	\$30,319 30,700		69
Purchased livestock Purchased feed Cash operating expenses. Purchase of capital items. Total cash expenditures	$ \begin{array}{c} 1,613\\ 1,058\\ 6,421\\ 3,815\\ 12,907 \end{array} $	1,241 1,740 8,645 2,833	1,594 1,965 10,918 3,603	2,193 2,480 15,916 5,547 26,136	4,475 2,749 21,150 8,243 36.617	5,160 3,689 29,869 9,600	318 6,363 2,168 9,474	1,814 1,369 7,915 1,882 12,980	2,268 1,420 10,593 4,735 19,016	2,606 2,839 13,503 4,563 23,511	3,117 3,078 19,962 6,969 33,126
Cash balance			\$14,968 -450 -265 98	\$19,006 -561 698 105	\$25,807 -2,229 1,208 1,39	\$39,643 -3,061 1,211 143	\$ 5,552 -730 -309	\$ 9,077 -62 -800 74	\$11,684 -1,393 912 88		\$25,024 -1,426 647 136
Farm and family earningsLabor and management earnings.	7,079 2,563 4,352	10,554 4,186 7,773	14,351 6,099 11,518	19,248 8,150 16,352	24,925 9,867 21,752	37,936 16,312 34,013	4,545 1,145 2,363	8,289 3,252 5,562	11,291 6,668 8,421	16,313 7,273 13,138	24,381 11,137 21,010
acreacre	27.90	34.09	38.27	40.09	38.91	41.68	16.07	23.97	27.52	31.58	32.67

Table 12a. - Average Operating Costs, Investment, and Land Use by Size and Type of Farm, Northern Illinois, 1964

	G	GRAIN FARMS WITH	1	SOIL RATING	ING 76-100		GRAIN	FARMS	WITH SOIL	RATING	56-75
Range in size (total acres)	Under 180 33	180-259 103	260-339 121	340-499 146	500-649 83	650+	Under 180 20	180-259 33	260-339 39	340-499 80	500+ 58
COSTS AND RETURNS PER TILLABLE ACRE Soil fertility. Buildings and fence. Machinery and equipment Labor. Feed and grain returns.	\$ 9.43 7.64 26.51 19.70 95.61	\$ 9.14 5.61 22.71 14.54 92.78	\$ 10.13 5.60 21.04 11.89 95.20	\$ 10.29 5.02 20.01 11.30 96.43	\$ 10.50 5.03 19.95 11.03 95.12	\$ 10.82 3.93 18.12 10.23 95.84	\$ 11.54 8.97 24.93 17.93 84.33	\$ 9.87 5.77 19.92 13.92 80.35	\$ 10.06 . 5.32 . 22.70 . 12.53 . 84.78	\$ 9.21 4.70 19.06 11.14 82.68	\$ 9.84 4.27 18.45 10.15 84.94
Total value of farm production Total non-feed costs	$108.54 \\ 109.14 \\60$	102.33 95.14 7.19	$\frac{103.05}{90.90}$ 12.15	103.36 89.10 14.26	- '	101.45 83.28 18.17	$96.43 \\ 104.09 \\ -7.66$	88.36 85.29 3.07	94.14 86.68 7.46	91.89 79.41 12.48	93.25 77.60 15.65
SELECTED COST ITEMS Fertilizer, annual application Lime and rock phosphate depreciation Building repairs and maintenance		\$ 1,901 56 371	\$ 2,750	\$ 3,865 98 542	\$ 5,287 150 678	\$ 7,931 176 741	\$ 1,532 14 366	\$ 2,020 73 278	\$ 2,666 39 318	•	\$ 5,175 141 674
Machinery and equipment depreciation Machinery repairs and supplies	1,395 871 341	1,565 1,110 585	1,222 2,088 1,397 545	1,389 2,840 1,811	1,930 4,021 2,489 854	2,200 5,365 3,477 1,048	643 472	945 1,299 903 513	1,113 1,972 1,468 729	1,210 2,536 1,550 849	1,033 3,856 2,392 841
Gasoline and oil. Hired labor charge. Unpaid labor charge. Total months of labor.	$\begin{array}{c} 644 \\ 189 \\ 2,727 \\ 13.0 \\ .9 \end{array}$	866 330 2,781 13.7	1,087 ,509 2,833 14.5	1,388 1,456 2,896 18.6 5.7	1,846 2,540 3,173 23.4 9.3	2,494 3,738 3,923 30.6	$\begin{array}{c} 626\\ 220\\ 2,182\\ 10.4\\ \end{array}$	$\begin{array}{c} 805 \\ 224 \\ 2,727 \\ 13.0 \\ .8 \end{array}$	1,097 502 2,870 14.6	1,258 935 3,175 17.7	1,815 2,111 3,371 ,22.5
FARM INVESTMENT Livestock inventory. Grain inventory. Remaining capital cost in:			\$ 4,459	\$ 6,190 21,750			\$ 2,424 6,007	\$ 3,387	\$ 5,762		
Machinery Buildings and fence. Soil fertility.	4,976 8,423 106	5,940 11,078	8,073 15,037	10,769 18,332 176	13,570 23,033 269	18,327 28,129 331	4,411 10,471	5,450 9,858 139	7,212 12,739 87	9,523 14,870 174	14,166 17,993
Auto	$ \begin{array}{r} 707 \\ 78,241 \\ \hline 104,468 \\ 69.67 \end{array} $	714 112,749 147,238 645.78	94	$\begin{array}{c} 880\\ 198,946\\ 257,043\\ 630.01 \end{array}$	$\begin{array}{c} 1,175\\ 268,897\\ \overline{344,932}\\ 617.05 \end{array}$	$ \begin{array}{c} 1,249\\ 381,882\\ \hline 484,402\\ 593.63 \end{array} $	923 54,376 78,659 535.10	$ \begin{array}{r} 656 \\ 87,082 \\ \hline 115,642 \\ 498.46 \end{array} $.46	39	1,141 $229,417$ $297,102$ 462.06
PERCENT OF TILLABLE LAND IN Corn and corn silage	53.2 20.4	47.2	46.7 28.8	45.5	45.4 30.1	44.5 32.4		46.8 20.3	48.5 23.7	44.4 24.6	44.3 27.2
Other small grains. Diverted acres. All hay and pasture crops.	4.7.4.8 4.0.8	8.04.0 8.0.25.0	. 27.7. 6.4.4.	3.2 4.7.5	5.1.7		9.3. 9.3. 9.3.	7.0 7.9 11.4	. 20 00 . 20 0	8.3 9.2 9.2	3.7 9.6 6.0
CROP YIELDS, bushels per acre	103.4	8.66	101.8	105.6		106.7	92.9	7.78	88.9		
Soybeans. Wheat. Oats	32.2 47.2 54.5	31.2 45.8 58.3	30.9 44.7 58.8	$\frac{31.0}{45.9}$	30.9 45.2 60.6	30.9 46.3 63.7	28.1 44.3 53.6	29.9 40.9 60.8	27.9 39.0 35.9	28.9 47.5 49.2	29.0 42.5 50.9
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Table 13 .— Average Costs, Returns, and Financial Summary by Size and Type of Farm, Northern Illinois, 1964

	HOG	HOG FARMS W	WITH SOIL 1	RATING 76	76-100	HOG	FARMS	WITH SOIL	RATING	56-75
Range in size (total acres)	Under 180 52	180-259 60	260-339 45	340-499 32	500+ 18	Under 180 37	180-259 39	260-339 35	340-499 50	500+ 32
Size of farm (acres) Acres of tillable land Soil rating on tillable land Hens, number	148 138 83 34	223 205 82 50 50	295 266 81 19	408 358 82 42	618 517 82 28	147 130 67 87	227 193 68 28	300 249 67 44	402 318 67 44	677 471 68 50
Dairy cows, number	1.4 120 $1,380$	208 1,461	246 1,751	288 2,102	.9 561 2,487	2.3 126 1,066	1.0 197 1,256	$\frac{191}{1,604}$	350 1,890	006 2,624
DOLLAR COSTS PER FARM Soil fertility Buildings and fence Machinery and equipment Labor Taxes.	\$ 1,272 1,668 4,515 3,289 1,193	\$ 1,770 1,839 5,680 3,840 1,677	\$ 2,376 2,049 7,052 4,225 1,963	\$ 3,806 2,873 9,072 5,946 2,929	\$ 5,273 4,756 13,148 7,272 3,959	\$ 964 1,377 4,062 3,373 990	\$ 1,847 2,233 5,127 3,354 1,395	\$ 2,319 1,975 6,796 3,913 1,625	\$ 3,116 2,624 7,912 5,104 2,063	\$ 5,089 3,835 10,574 7,428 2,967
Seed expense. Crop expense. Livestock and miscellaneous expense. Interest charge on capital. Total non-feed costs. Total value of feed fed	$\begin{array}{c} 331\\ 1,165\\ 4,858\\ \hline 18,752\\ 17,301 \end{array}$	473 1,111 6,754 23,746 20,075	685 685 1,378 8,270 28,774 22,773	$\begin{array}{c} 1,039 \\ 988 \\ 1,698 \\ 10,953 \\ \hline 39,315 \\ 27,518 \end{array}$	1,464 2,078 16,295 55,500 37,550	3,683 15,865 14,805	$ \begin{array}{c} 420 \\ 420 \\ 1,061 \\ 5,528 \\ \hline 21,491 \\ 17,069 \end{array} $	516 1,064 6,451 25,333 20,357	1,426 8,396 32,194 26,685	1,052 1,771 13,040 46,987 39,628
DOLLAR RETURNS PER FARM Livestock returns above feed cost. Feed and grain returns. Other cash income Total value of farm production Management returns	\$ 6,218 12,598 951 19,767 1,015	\$ 6,173 18,653 891 25,717 1,971	$\begin{array}{c} \$ \ \$, 123 \\ 24, 586 \\ 1, 227 \\ \hline 33, 936 \\ 5, 162 \end{array}$	$\begin{array}{c} \$ \ 9,002\\ 33,665\\ 1,456\\ \hline 44,123\\ 4,808 \end{array}$	\$10,621 48,638 1,641 60,900 5,400	\$ 5,471 9,950 837 16,258	$\begin{array}{c} \$ & 5,937 \\ 15,773 \\ 826 \\ \hline 22,536 \\ 1,045 \end{array}$	$\begin{array}{c} \$ 7,037 \\ 19,966 \\ 1,210 \\ \hline 28,213 \\ 2,880 \end{array}$	\$ 8,538 25,958 1,009 35,505 3,311	\$10,350 39,787 2,054 52,191 5,204
Farm production per \$1.00 of non-feed costs	1.05	1.08 $18,590$	$\frac{1.18}{22,253}$	$\frac{1.12}{21,880}$	1.10	13,363	1.05 $18,272$	1.11 $19,684$	1.10 $19,634$	$\frac{1.11}{21,822}$
FINANCIAL SUMMARY Cash sales of products and services	$$31,835$ 100 $\overline{31,935}$	4 4	\$48,919 75 48,994	$$62,830 \\ 160 \\ 62,990$	\$86,523 89 86,612		\$34,829 49 $34,878$	\$42,884 67 $42,951$	\$52,160 254 52,414	$$81,861 \\ 404 \\ 82,265$
Purchased livestock Purchased feed Cash operating expenses. Purchase of capital items. Total cash expenditures.	2,483 8,674 8,165 3,331 22,653	$\begin{array}{c} 5,651 \\ 9,371 \\ 10,545 \\ 3,271 \\ \hline 28,838 \\ \end{array}$	5,604 10,193 13,006 5,344 34,147	6,950 11,520 19,708 6,707 44,885	10,569 15,036 27,103 9,590 62,298	2,536 7,628 6,865 2,274 19,303	3,793 7,974 9,428 2,743 23,938	$\begin{array}{c} 3,702\\ 10,806\\ 11,788\\ 4,834\\ \hline 31,130 \end{array}$	$\begin{array}{c} 5,400 \\ 11,518 \\ 15,731 \\ 6,202 \\ \hline 38,851 \end{array}$	12,242 18,770 23,678 6,336 61,026
Cash balance	\$ 9,282 -1,016 349 105	\$13,075 -1,258 -265 184	\$14,847 598 981 216	\$18,105 -439 1,236 202	\$24,314 -298 1,436		$$10,940 \\ -737 \\ -882 \\ 211$	\$11,821 -371 736 208	\$13,563 -22 1,362 285	\$21,239 $1,066$ $-1,015$ 276
Farm and family earnings	8,720 3,702 5,873 39.68	11,736 4,605 8,725 39.13	16,642 7,860 13,432 45.53	19,104 7,501 15,761 38.63	25,732 8,075 21,695 35.11	.73	9,532 3,719 6,573 28.96	12,394 5,548 9,331 31.10	15,188 6,006 11,707 29.12	21,566 7,890 18,244 26.95

Table 13a. — Average Operating Costs, Investment, and Land Use by Size and Type of Farm, Northern Illinois, 1964

	HOG FAR	MIS		O DAILING	007-04					
Range in size (total acres)	Under 180 52	180-259	260-339 45	340-499 32	500+ 18	Under 180 37	180-259 39	260-339	340-499 50	500+ 32
COSTS AND RETURNS PER TILLABLE ACRE Soil fertility. Buildings and fence. Machinery and equipment. Labor. Feed and grain returns.	\$ 8.59 \$ 11.27 30.51 22.22 85.12	\$ 8.63 8.97 27.71 18.73 90.99	\$ 8.93 7.70 26.51 15.88 92.43	\$ 10.63 8.03 25.34 16.61 94.04	\$ 10.20 9.20 25.43 14.06 94.08	\$ 7.42 10.59 31.25 25.95 76.54	\$ 9.57 11.57 26.56 17.38 81.72	\$ 9.31 7.93 27.29 15.71 80.18	\$ 9.80 8.25 24.88 16.05 81.63	\$ 10.80 8.14 22.45 15.77 84.47
Total value of farm production	$\frac{133.56}{126.70}$ 6.86	$\frac{125.45}{115.83}$ $\frac{9.62}{9.62}$	$\frac{127.58}{108.16}$ $\frac{19.42}{19.42}$	$\frac{123.25}{109.82}$ $\frac{13.43}{13.43}$	$\frac{117.79}{107.35}$	$\frac{125.06}{122.04}$ 3.02	116.77 1111.35 5.42	113.30 101.73 11.57	$\begin{array}{c} 111.65 \\ 101.24 \\ \hline 10.41 \end{array}$	$\frac{110.81}{99.76}$ $\overline{11.05}$
SELECTED COST ITEMS Fertilizer, annual application. Lime and rock phosphate depreciation. Building repairs and maintenance. Machinery and equipment depreciation. Machinery repairs and supplies. Machinery repairs and supplies.	\$ 1,217 \$ 550 500 1,159 1,431 1,033 7,23	\$ 1,693 77 1,289 1,809 1,359 1,359 054	\$ 2,310 66 590 1,459 2,489 1,749 1,749	\$ 3,708 98 1,898 3,005 1,005 1,021	\$ 5,173 1,875 2,881 4,655 3,105 7,407	\$ 948 16 1,030 1,255 1,255 877 563	\$ 1,799 48 660 1,573 1,689 1,166 587 846	\$ 2,251 68 1,366 2,365 1,732 1,762	\$ 3,041 968 1,656 2,572 2,111 1.369	\$ 4,944 145 1,170 2,787 2,787 953 1,876
Hired labor charge	2,847 2,847 14.4 1.8	3,011 16.6 3.2	1,015 3,210 18.3 4.0	2,603 3,343 24.2 9.3	3,235 4,037 30.3 12.4	2,809 14.6 2.1	395 2,959 14.8 1.6	3,063 17.2 3.6	1,623 3,481 21.7 6.2	4,106 3,322 28.7 14.0
FARM INVESTMENT Livestock inventory	\$11,625 8,542	\$14,788 11,843	\$16,456 14,458	\$21,375 19,811	\$31,270 27,536	\$10,056 6,537	\$12,506 10,310	\$13,783 12,286	\$21,219 13,627	\$32,822 23,311
Machinery	5,480 13,197 99 833	7,411 15,591 173 835	8,829 17,849 112 607	11,877 18,979 232 888	16,998 36,353 174 913	4,728 10,060 30 673	7,145 15,827 95 793	8,201 14,307 122 731	9,911 17,460 145 757	14,272 26,796 304 694
Value of land (current basis)	.49	$\frac{105,537}{156,178}$ 700.35	$\frac{133,750}{192,151}$ 651.36	$\frac{182,361}{255,523}$ $\frac{626.28}{626.28}$	$\frac{265,810}{379,054}$ 613.36	51,972 84,056 571.81	$\frac{79,848}{126,524}$ 557.37	$\frac{99,478}{148,908}$ $\frac{496.36}{496.36}$. 63	203,258 301,457 445.28
PERCENT OF TILLABLE LAND IN Corn and corn silage	63.1	57.0 13.0		63.8		56.0	55.1	51.7 16.5	53.1 13.3	49.3 15.9
Wheat. Other small grains. Diverted acres. All hay and pasture crops.	13.4 2.3 15.7	1.8 10.4 2.2 14.8	2.7 8.9 4.5 13.8	3.4 8.5 2.2 11.1	2.8 8.3 12.7	$\begin{array}{c} 1.6 \\ 13.7 \\ 2.7 \\ 20.9 \end{array}$	4.6 9.4 3.6 17.0	5.6 5.8 5.2 15.0	5.4 6.9 5.1 15.8	5.2 6.4 5.8 16.8
CROP YIELDS, bushels per acre	99.3	99.6	100.4	96.6	98.6	7. 1	86.4 29.4	87.3 30.4		
Wheat. Oats.	44.8 62.8	43.3	43.9 59.4	43.6	41.9	37.3	$\frac{40.7}{51.6}$	37.8	38.0	38.6

Table 14. — Average Costs, Returns, and Financial Summary by Size and Type of Farm, Southern Illinois, 1964

	GRA	GRAIN FARMS	WITH SOIL	L RATING	5-55	НОС	FARMS	WITH SOIL	RATING	5-55
Range in size (total acres)	180-259	260-339 47	340-499	500-649 48	650+ 53	Under 180 19	180-259 51	260-339 58	340-499	500+ 36
Size of farm (acres). Acres of tillable land. Soil rating on tillable land. Hens, number.	222 201 35 35 61	301 275 35 83	419 356 33 53	562 466 32 83	904 713 35 26	134 111 32 54	219 185 35 58	298 240 32 95	401 310 32 43	679 482 31 84
Dairy cows, numberBeef produced, hundredweight	.1 297	 63 297	 . 92 306	3.7 143 348	4.0 236 402	58. 1,351	$\frac{118}{1,095}$.1 1,281	.2 181 1,512	296 2,052
DOLLAR COSTS PER FARM Soil fertility. Buildings and fence.	\$ 1,857	\$ 2,359	\$ 3,331 1,200	\$ 4,568	\$ 6,961 2,179	\$ 1,349 1,170	\$ 2,037	\$ 2,569	\$ 3,460	\$ 5,337
Machinery and equipment Labor Takes Sood avoings	4,143 3,251 826 424	3,233 1,061 551	0,390 3,860 1,188 812	8,549 4,589 1,573 907	12,009 6,597 2,468 1,425	4,050 3,470 604 286	4,484 3,620 7,80 3,77	5,989 3,863 1,019 562	4,202 4,824 1,242 606	9,742 6,071 1,833
Crop expense. Livestock and miscellaneous expense. Interest charge on capital	308 335 2.851	$\frac{510}{332}$	593 449 4.360	842 608 5.872	1,393 837 9,145	204 930 2.320	352 726 3.148	551 667 3.796	630 1,059 4,899	965 1,262 7,002
Total non-feed costs. Total value of feed fed.	14,816	18,102 4,360	22,189 4,947	29,044 7,414	43,014	14,383 15,400	16,909 13,661	20,508 16,915	25,940 19,181	35,545 26,986
DOLLAR RETURNS PER FARM Livestock returns above feed cost. Feed and grain returns. Other cash income.	\$ 1,187 13,722 615	\$ 1,246 17,783 959	\$ 1,483 21,883 1,280	\$ 1,971 29,368 1,575	\$ 2,309 46,339 2,521	\$ 6,218 7,100 347	\$ 4,892 11,002 902	\$ 5,628 14,287 1,038	\$ 6,927 18,450 1,403	\$ 9,349 29,400 1,613
Total value of farm production	15,524 708	$\frac{19,988}{1,886}$	$\frac{24,646}{2,457}$	$\frac{32,914}{3,870}$	$\frac{51,169}{8,155}$		$\frac{16,796}{-113}$	20,953 445	26,780 840	40,362 4,817
Farm production per \$1.00 of non-feed costs	$\frac{1.05}{12,673}$	5 15,990	16,804	$\frac{1.13}{18,989}$	$\frac{1.19}{21,101}$.95	.99	$\frac{1.02}{14,368}$	$\frac{1.03}{14,608}$	1.14 $18,005$
FINANCIAL SUMMARY Cash sales of products and services. Sales of capital items	\$18,834 6 $18,840$	\$25,580 28 25,608	\$30,984 137 31,121	$$40,881 \\ 392 \\ 41,273$	\$60,166 366 $60,532$	$$28,360 \\ \hline 28,946$	$$29,993 \ 222 \ 30.215$	\$35,602 82 35,684	\$42,770 87 42.857	\$59,774 40 59.814
Purchased livestock Purchased feed Cash operating expenses. Purchase of capital fems Total cash of capital fems	855 1,693 6,862 2,289	1,555 1,765 8,622 4,273	1,698 2,408 11,417 4,213	3,897 2,673 15,108 7,130	3,945 2,939 23,091 9,294		4,022 7,204 8,131 2,640	3,574 9,026 10,364 4,843	4,112 9,596 13,669 4,520	6,188 13,074 19,446 6,776
Cash balance. Inventory change. Capture and the consumed	\$ 7,141 -922 9	\$ 9,393 -2,403 1,193	\$11,385 -2,385 663	\$12,665 $-1,624$ $1,968$	\$21,263 $-2,341$ $1,945$	\$ 5,853 -2,134 -527	\$ 8,218 -2,121 -177	\$ 7,877 -2,236 1,354	\$10,960 \$10,960 -2,541 417	\$14,330 -374 1,512
Farm and family earnings. Labor and management earnings. Capital and management earnings.	6,388 3,268 3,559	8,314 4,448 5,560	9,816 5,022 6,817	$ \begin{array}{r} 227 \\ \hline 13,036 \\ 6,423 \\ 9,742 \\ \hline 9,742 \\ \end{array} $	21,095 10,757 17,300	4,374 1,828 1,602	6,070 2,454 3,035	7,182 3,014 4,241	9,095 3,405 5,739	$\begin{array}{c} 15,692 \\ 7,397 \\ 11,819 \\ \end{array}$
Capital and management earnings per acre	10.03	18.47	10.01	17.33	19.14	11.90	13.80	14.73	14.31	17.41

Table 14a. — Average Operating Costs, Investment, and Land Use by Size and Type of Farm, Southern Illinois, 1964

	GRAIN FA	RMS	WITH SOIL	RATING	5-55	HOG	FARMS	WITH SOIL	RATING	5-55
Range in size (total acres)	180-259 32	260-339 47	340-499 91	500-649 48	650+	Under 180 19	180-259 51	260-339	340-499	500+
COSTS AND RETURNS PER TILLABLE ACRE Soil fertility. Buildings and fence. Machinery and equipment. Labor. Feed and grain returns.	\$ 9.24 4.08 4.08 20.61 16.17 68.27	\$ 8.58 3.60 19.61 11.76 64.66	\$ 9.36 3.37 17.97 10.84 61.47	\$ 9.80 3.31 18.35 9.85 63.02	\$ 9.76 3.06 16.84 9.25 64.99	\$ 12.15 10.54 36.49 31.26 63.96	\$ 11.01 7.49 24.24 19.57 59.47	\$ 2112	\$ 11.16 6.22 23.23 15.56 59.52	\$ 11.07 5.02 20.21 12.60 61.00
Total value of farm production	77.23	72.68 65.83 6.85	69.24 62.33 6.91	70.63 62.33 8.30	71.77 60.33	$\frac{123.11}{129.58} - 6.47$	90.79 91.40 61	87.30 85.45 1.85	86.39 83.68 2.71	$83.74 \\ 73.74 \\ \hline 10.00$
SELECTED COST ITEMS Fertilizer, annual application	& 1,	\$ 2,240 119 364	\$ 3,198	\$ 4,429 139 625		\$ 1,279 70 382	\$ 1,915 122 553	\$ 2,390 179 585	299 161 749	
Building depreciation. Machinery and equipment depreciation. Machinery repairs and supplies. Machinery hire		$\begin{array}{c} 625 \\ 2,112 \\ 1,424 \\ 295 \end{array}$	~ ~			788 1,230 915 584	832 1,442 1,102 528	$^{907}_{2,112}$ $^{1,616}_{535}$	1,179 2,445 1,833 742	
Gasoline and oil. Hired labor charge. Unpaid labor charge. Total months of labor. Months of labor hired.	757 422 2,829 14.7	950 479 2,754 15.0	1,221 861 2,999 17.6 3.7	1,535 1,295 3,294 20.8 5.4	2,305 2,802 3,795 11.5	563 698 2,772 15.8	760 585 3,035 16.5 2.4	994 922 2,941 17.5 3.8	1,327 1,468 3,356 22.0 6.4	1,699 2,198 3,873 26.9 8.9
FARM INVESTMENT Livestock inventory	\$ 4,039	\$ 4,333 9,765	\$ 5,443	\$ 8,405	\$11,148 18,570	\$ 8,540 5,833	\$ 9,131	\$11,490 8,881	\$14,119 11,001	\$19,154 18,118
Remaining capital cost in: Machinery Buildings and fence. Soil fertility Auto. Value of land (current basis). Total farm investment.	6,165 5,895 108 519 40,738 65,175	8,155 6,501 259 615 54,808 84,436		442 93 90 87	19,425 14,495 553 918 147,233 212,342	5,055 8,357 145 636 22,287 50,853	5,987 9,054 257 577 38,359 70,634	7,659 8,901 385 595 47,523 85,434	10,182 12,369 317 648 61,682	12,160 13,027 438 874 95,343 159,114
PERCENT OF TILLABLE LAND IN Corn and corn silage	38.9 32.0		36.2 33.0	1	.234. 37. 26.	7 2	7	46.3 24.0	4.6.	
Wheat. Other small grains. Diverted acres. All hay and pasture crops.	16.0 1.1 3.8 6.9	15.6 .3 5.1 5.5	15.6 .9 5.4 7.9	16.0 .8 4.4 9.1	16.4 .8 6.5 10.1		14.9 1.0 4.4 13.4	14.6 1.1 4.3 9.0	16.1 1.0 3.7 9.5	15.2 1.0 4.5 14.5
CROP YIELDS, bushels per acre Corn Soybeans Wheat Oats	70.1 28.4 44.2 55.2	67.2 23.1 41.9 58.2	64.0 22.4 43.8 51.8	69.5 22.4 41.2 37.7	70.1 23.3 43.5 40.5	62.7 23.0 43.0	57.8 23.4 41.4 51.5	59.6 22.0 43.0 46.7	58.8 19.8 40.9 52.5	70.6 21.5 42.1 35.3

Table 15. — Average Costs, Returns, and Financial Summary by Size and Type of Farm, Northern and Southern Illinois, 1964

	DAIRY	FARMS, N SOI]	DAIRY FARMS, NORTHERN SOIL RATING	ILLINOIS, OF	WITH	DAII	DAIRY FARMS, WITH SOI		SOUTHERN ILLINOIS, RATING OF 5-55	ols,
	76-160	56-75	76-100	56-75	56-100					
Range in size (total acres)	Und 19	Under 180 38	180	180-259	260-339 27	Under 180 33	180-259 55	260-339 30	340-499 21	500+ 19
Size of farm (acres). Acres of tillable land. Soil rating on tillable land. Hens, number.	149 145 83 86	147 124 67 62	222 200 82 120	218 183 67 61	295 254 70 190	148 124 32 58	220 187 31 82	300 250 27 56	392 332 28 100	675 508 33 86
Dairy cows, number. Beef produced, hundredweight. Pork produced, hundredweight.	31.9	32.6 3 136	44.9 8 85	38.1 10 195	51.1 1 221	31.0	36.2 3 143	38.3	50.2 29 97	66.5 43 142
DOLLAR COSTS PER FARM Soil fertility Buildings and fence	\$ 1,086 1,462 5,041	\$ 662 1,639 4,530	\$ 1,763 2,782 7,362	\$ 1,182 2,177 5,767	\$ 1,762 2,871 8,383	\$ 1,021 1,073 4,714	\$ 1,652 1,705 6,205	\$ 2,475 1,620 6,572	\$ 2,690 2,270 8,417	\$ 4,855 3,314 12,626 8,848
Taxes.	1,132 1,339 442	371 371 157	1,874 1,874 606	1,481 512 512	2,120 716 740	314 314 315	4,523 842 476 216	1,102 543	1,256 710 345	1,806 1,249 752
Crop expense	1,225 4,652	1,026 3,834	1,837 7,184	1,210 $5,367$	1,707 7,657	2,377	1,128 $3,378$	1,202 3,845	$\frac{1,468}{5,182}$	2,169 8,618
Total non-feed costs	19,519 10,250	$\frac{16,713}{10,155}$	28,581 14,111	22,416 12,818	$\frac{31,450}{18,073}$	15,187 9,749	$\frac{20,125}{12,657}$	22,422 $11,985$	28,352 15,928	44,237 25,407
DOLLAR RETURNS PER FARM Livestock returns above feed cost Feed and grain returns Other cash income	\$ 7,269 12,246 619	\$ 7,441 9,640 520	\$ 9,889 17,468 1,106	\$ 8,400 14,143 840	\$11,275 21,248 1,232	\$ 7,213 7,452 650	\$ 7,997 11,654	\$ 8,744 13,330 757	\$10,808 17,711 1,444	\$13,629 31,221 1,864
Total value of farm production	20,	17,601	28,463 -118	23,383	33,755 2,305		20,448	22,831 409	29,963 1,611	46,714 2,477
Farm production per \$1.00 of non-feed costs	13,966	14,081	5 17,250	14,464	16,399	10,043	1.02 $12,088$	12,122	$\frac{1.06}{13,219}$	$\frac{1.06}{15,029}$
FINANCIAL SUMMARY Cash sales of products and services	\$24,222	\$19,821	\$32,452	\$26,689	\$39,594	\$19,530	\$26,855	\$27,864	\$37,405 103	\$58,754 246
Total cash income	1.	19,830	32,706	26,764	39,609	19,583	26,861	27,899	37,508	59,000
Purchased livestock Purchased feed Cash operating expenses	1,147 3,924 8,692	926 2,429 6,992	$^{599}_{4,157}_{12,902}$	938 3,523 9,768	1,146 5,115 14,354	815 3,795 6,624	$ \begin{array}{c} 1,112 \\ 4,788 \\ 9,888 \end{array} $	$^{986}_{3,719}_{11,307}$	1,677 $5,443$ $13,965$	4,392 7,663 23,530
Purchase of capital items	1	$\frac{2,303}{12,650}$	$\frac{4,594}{22,252}$	$\frac{4,256}{18,485}$	$\frac{5,027}{25,642}$	$\frac{3,281}{14,515}$	$\frac{4,060}{19,848}$	$\frac{4,894}{20,906}$	$\frac{7,031}{28,116}$	$\frac{12,992}{48,577}$
Cash balanceInventory change	\$ 8,403 764	\$ 7,180 876	\$10,454 476	\$ 8,279 839	\$13,967 90	\$ 5,068	\$ 7,013	\$ 6,993 -634	\$ 9,392 -656	\$10,423 -429
Capital change	$-857 \\ 219$	680 259	$-794 \\ 291$	462 316	-384 331	632 318	436 330	1,029 306	1,752 334	5,014
Farm and family earnings	8,529 3,315 5,267	7,635 3,582 4,722	10,427 2,554 7,066	8,6 9,8 6,3	14,004 4,997 9,962	6,095 2,701 2,505	6,942 2,883 3,701	7,694 2,982 4,254	10,822 $4,191$ $6,793$	15,452 $5,023$ $11,095$
Capital and management earnings per acre	35.35		31.83			16.92	16.82	14.18	17.33	16.44

Table 15a. -- Average Operating Costs, Investment, and Land Use by Size and Type of Farm, Northern and Southern Illinois, 1964

	DAIRY FAR		MS, NORTHERN SOIL RATING	ILLINOIS, OF	WITH	DAIRY	RY FARMS, WITH SOIL	S, SOUTHERN I	RN ILLINOIS, 5 OF 5-55	IS,
	76-100	56-75	76-100	56-75	56-100					
Range in size (total acres)	Under 180	180	180-	80-259	260-339 27	Under 180 33	180-259 55	260-339	340-499	500+ 19
COSTS AND RETURNS PER TILLABLE ACRE Soil fertility. Buildings and fenc. Machinery and equipment. Labor. Feed and grain returns.	\$ 7.49 \$ 10.08 34.76 28.50 84.46	5.34 13.22 36.53 27.16 77.74	\$ 8.82 13.91 36.81 23.80 87.34	\$ 6.46 11.90 31.51 24.41 77.28	\$ 6.94 11.30 33.00 22.78 83.65	\$ 8.23 8.65 38.02 31.94 60.10	\$ 8.83 9.12 33.18 24.19 62.32	\$ 9.90 6.48 26.29 19.20 53.32	\$ 8.10 \$ 6.84 25.35 18.11 53.35	9.56 6.52 24.85 17.42 61.46
Total value of farm production	138.86 134.61 4.25	141.94 134.78 7.16	$\frac{142.32}{142.91}$ 59	127.78 122.49 5.29	$\frac{132.89}{123.82}$	$\frac{123.51}{122.48}$ $\overline{1.03}$	$\frac{109.35}{107.62}$ $\frac{107.62}{1.73}$	91.33 89.69 1.64		$\begin{array}{c} 91.96 \\ 87.08 \\ \hline 4.88 \end{array}$
SELECTED COST ITEMS Fertilizer, annual application Lime and rock phosphate depreciation Lime and rock phosphate depreciation Building repairs and maintenance. Machinery and equipment depreciation Machinery repairs and supplies. Machinery hire. Gasoline and oil Hired labor charge. Total months of labor. Months of labor hired	\$ 1,035 \$ 51 315 1,147 1,1460 1,166 657 810 870 3,262 7 8	650 12 10 10 10 10 10 10 10 10 10 10 10 10 10	\$ 1,697 938 1,844 2,860 1,567 1,069 1,398 3,361 1,98	\$ 1,142 40 617 1,560 1,881 1,428 505 927 905 3,562 1,64	\$ 1,708 841 2,030 2,991 2,015 1,265 1,743 4,042 6,47	\$ 930 366 1,628 1,033 623 622 622 3,590 18.3	\$ 1,551 101 101 1,086 2,225 1,442 694 694 965 1,282 3,241 2,03	\$ 2,290 185 609 1,011 2,424 1,652 688 688 956 1,360 3,440	\$ 2,550 838 1,432 3,399 2,083 1,286 1,985 4,029 27.2	1,155 1,155 2,159 2,159 5,053 3,468 2,138 4,491 4,357 3,73
		\$ 9,853				>		>	>	
s).	4,928 13,359 108 910 71,395 107,311 720.21	5,610 15,170 34 818 50,272 86,738 590.05	11,230 22,609 125 872 105,350 164,740 742.07	6,944 20,849 78 785 74,696 122,287 560,95	12,136 24,782 98 1,025 108,144 174,780 592.47	7,431 7,618 1,618 641 23,898 52,324 353,54	9,272 12,399 197 636 34,929 74,543	11,220 11,016 43,778 85,648	14, 507 15, 949 298 546 58, 264 115, 298	22, 202 23, 738 569 877 105, 505 193, 478
PERCENT OF TILLABLE LAND IN Corn and corn silage. Soybeans. Wheat. Other small grains. Diverted acres. All hay and pasture crops.	44.7 6.9 2.2 10.9 3.6 27.0	39.4 1.4 15.9 11.2 41.0	46.7 4.8 10.7 10.7 30.1		41.8 8.4 10.7 10.9 6.8 28.1			3.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1	33.4 20.4 15.1 1.3 26.3	
CROP YIELDS, bushels per acre Corn Soybeans Wheat	93.6 25.2 485.5 65.5 5	89.1 26.1 51.9 59.1	95.1 31.0 46.4 61.2	84.7 28.2 36.0 63.5	92.1 28.8 40.6 62.2	55.8 18.6 39.7 50.5	57.1 21.4 42.3 52.7	48.5 19.5 40.7 39.8	55.6 19.2 38.2 45.1	58.2 22.9 41.4 47.8

Table 16. — Average Costs, Returns, and Financial Summary by Size and Type of Farm, Northern and Southern Illinois, 1964

	BEEF (BEEF CATTLE FA	FARMS, NORTHERN ILLINOIS IL RATING 56-100	SE-100	CLINOIS	BEEF CAT	ILE FARMS, IS, SOIL RAT	BEEF CATTLE FARMS, SOUTHERN ILLINOIS, SOIL RATING 5-55	POULTR' NORTHE SOIL RAT	POULTRY FARMS, NORTHERN ILL., SOIL RATING 56-100
Range in size (total acres)	Under 180 16	180-259 45	260-339 49	340-499 51	500 + 40	260-339 12	340-499 15	500+ 10	Under 180 17	$\frac{180-259}{9}$
Size of farm (acres). Acres of tillable land. Soil rating on tillable land. Hens, number.	155 144 78 97	223 202 78	302 277 79 14	418 372 76 17	663 561 75 23	293 235 32 114	415 341 33 209	807 633 41 21		229 209 81 6,467
Darry cows, number	.2 665 450	 883 608	626	1,272. 816	2,198 1,314	774	 882 429	1,693 1,048	29.7 195	316
DOLLAR COSIS PER FARM Soil fertility Buildings and fence Machinery and equipment	\$ 1,376 1,881 4,726 3,015	\$ 2,260 2,289 6,156 3,696	\$ 2,798 2,759 7,026 3,915	\$ 3,953 3,991 9,446 5,790	\$ 6,541 4,722 12,754 7,911	\$ 2,407 1,709 6,211 3,968	\$ 4,212 2,363 8,883 4,761	\$ 8,581 4,339 15,166 8,608	\$ 874 2,013 5,570 4,573	\$ 1,770 2,072 7,022 5,596
Seed expense	1,308 411 350 685	1,730 623 370 858	2,349 803 636 958	1,075 1,075 1,054	1,645 1,474 1,795	1,270 571 458 728	1,400 661 709 928	1,154 1,530 1,228	1,090 390 248 931	1,050 423 1,057
	$\frac{5,488}{19,240}$ $16,376$	$\frac{7,478}{25,460}$	9,481 $30,725$ $25,158$	12,714 41,762 32,668	$\frac{19,140}{60,320}$ $54,279$	$\frac{4,757}{22,085}$	$\frac{6,177}{30,154}$ $21,869$	$\frac{12,455}{55,891}$	4,628 20,317 17,778	$\frac{6,920}{27,091}$
DOLLAR RETURNS PER FARM Livestock returns above feed cost Feed and grain returns Other cash income.	\$ 3,492 14,784 703	\$ 4,399 20,536 1,078	\$ 4,684 27,365 1,095	\$ 5,932 36,359 1,224	\$ 8,190 52,978 1,605	\$ 3,833 19,248 954	\$ 3,953 22,185 2,504	\$ 8,003 47,656 1,385	\$ 9,218 11,180 971	\$13,968 18,781 560
		26,013 553	$\frac{33,144}{2,419}$	43,515	62,773 $2,453$	22,035	$\frac{28,642}{-1,512}$	57,044 1,153	$\frac{21,369}{1,052}$	33,309 6,218
Farm production per \$1.00 of non-feed costs	17,254	$\frac{1.02}{19,883}$	$\frac{1.08}{23,395}$	1.04 22,411	1.04	1.00 14,528	.95 16,766	19,502	$\frac{1.05}{12,950}$	$\frac{1.23}{18,086}$
FINANCIAL SUMMARY Cash sales of products and services	\$44,224	\$55,959 56	\$67,991	\$91,435 232	\$147,173	\$56,737	\$68,732	\$122,301	\$40,535	\$55,427
Total cash income		56,015	68,067	91,667	147,320	56,767	68,736	122,410	40,538	55,526
Purchased livestock Purchased feed Cash operating expenses.	14,860 5,931 7,439	20,725 8,068 10,979	21,719 7,688 13,397	35,866 9,779 18,706	46,341 22,526 28,624	20,523 12,061 10,779	25,520 6,954 15,772	52,779 10,641 29,711	5,098 12,819 8,345	6,786 16,858 12,551
Turchase of capital items		3,394	47,017	73,541	0,219	47,902	53,158	104,523	31,444	4,304
Cash balance	\$12,896 $-4,653$ -403	\$12,849 -1,394 -850 -41	$\begin{array}{c} \$21,050 \\ -5,716 \\ -654 \\ 276 \end{array}$	\$18,126 -2,584 1,881	$$41,610 \\ -15,917 \\ -428 \\ 384$	\$ 8,865 -2,502 1,037 384	\$15,578 -7,803 -330	\$17,887 $-2,147$ $1,450$ 310	\$ 9,094 -1,492 1,250	\$14,947 $1,420$ -460 106
Farm and family earnings. Labor and management earnings. Cavital and management earnings.	8,039 2,425 5,227	10,846 3,128 8,031	14,956 5,089 11,900	17,732 4,427 14,467	25,649 5,204 21,593	7,784 2,494 4,707	7,632 1,039 4,665	17,500 3,733 13,608	9,095 3,726 5,680	8,918 13,138
Capital and management earnings per acre	33.72	36.01	39.40	34.61		16.06		-	41.46	

Table 16a. - Average Operating Costs, Investment, and Land Use by Size and Type of Farm, Northern and Southern Illinois, 1964

	BEEF C	BEEF CATTLE FARMS, NORTHERN SOIL RATING 56-100	RMS, NOR'	THERN IL	ILLINOIS	BEEF CATT	BEEF CATTLE FARMS, SOUTHERN ILLINOIS, SOIL RATING 5-55	SOUTHERN ING 5-55	NORTHERN ILL., SOIL RATING 56-100	RN ILL. NG 56-100
Range in size (total acres)	Under 180 16	180-259 45	260-339 49	340-499 51	500+ 40	260-339 12	340-499 15	500+ 10	Under 180 17	180-259 9
COSTS AND RETURNS PER TILLABLE ACRE Soil fertility.	\$ 9.56	\$ 11.19		\$ 10.63	\$ 11.66	\$ 10.24	65.	69.	\$ 7.05	69.
Buildings and fence	13.06 32.82	11.33 30.48	9.96 25.36	10.73 25.39	8.42	7.27 26.43			16.23 44.92	
Labor. Feed and grain returns.	20.94 102.67	18.30 101.66	14.13 98.79	15.56 97.74	14.10 94.43	16.88 73.40	13.96 65.06	13.60 75.28	36.88 90.16	26.78 89.86
Total value of farm production	131.80 133.62	128.78 126.04	$\frac{119.65}{110.92}$	116.98 112.26	111.89	93.77		90	172.33 163.85	159.37 129.62
Management returns	-1.82	2.74	8.73	4.72	4.37	21			8.48	
		\$ 2,188	\$ 2,741	\$ 3,815	\$ 6,394	\$ 2,326	\$ 4,067	\$ 8,387	\$ 841	\$ 1,740
Building repairs and maintenance	334 1,347 1,819	1,788 2,006	942 1,817 2,598	3,127 3,496	1,402 3,320 4,527	2,211	3,356	1,478 2,861 6,340	1,598 2,066	1,720 2,715
nery repairs and suppliesnery hire.	947 441	1,501 598	1,514 730	2,417 702	3,344	1,452 563	2,437	3,563	1,048	1,214
ne and oillabor charge.	709 203	$1,097 \\ 881$	$\frac{1,262}{859}$	1,721 2,525	2,374	$1,214 \\ 891$	$\frac{1,537}{1,794}$	2,700 4,716	731	879 2,721
Unpaid labor charge	2,812 13.2	2,815 15.7 3.2	3,056 17.0 3.4	3,265	4,056 31.0 13.0	3,077 18.2 3.9	2,967 20.5 6.7	3,892 35.1 17.0	3,415 19.8 4.6	2,875 22.1 9.4
		1) 1			3	i	3	
Livestock inventory	\$20,643 9,458	\$26,949 12,306	\$31,954 16,748	\$42,885 20,445	\$79,340 31,941	524,864 12,144	\$28,401 12,433	\$52,854 28,290	\$10,194 7,815	\$ 9,055 11,445
Machinery. Buildings and fence.	7,149	8,072 22,555	10,190 $22,155$	12,649 37,603	17,472 43,207	7,414 10,492	12,933 15,192	20,922 24,914	8,078 18,957	10,609 20,886
fertility	, 278 914				230	, 135 644	, 210 937	367	94	, 42 708
,		ادد			261,638	49,309	86,798	151,108	- ni	106,307
Total farm investment	123,713 798.15	83	90	94	435,130 656.30	105,002 358.37	136,904 329.89	279,324 346.13	104,262 761.04	159,652 697.17
PERCENT OF TILLABLE LAND IN		;	(,			`	1		
Corn and corn silageSovbeans	3.1	61.4 5.6	× × ×	65.1 6.5	100.4	40.1	40.0 20.4	51.4		17.3
Wheat		4.0	4.0	. .	3.6	16.8	16.6	14.0		4.0
Diverted acres	2.3	3.6	y R 7	0.60 0.00	. w. î	6.7		2.9	7.25	7.0
CROP YIELDS, bushels per acre	13.2	13.9	10.0	17.0	0.61	17.7	0.11	10.4		
Corn	101.5	104.0	101.2	100.2	98.3	71.7	65.3			84.4
Soybeans	30.1 46.7	54.9 43.6	32.3 44.8	30.8 41.5	32.0 43.0	41.2	44.4 44.4	42.2	32.3 40.8	43.5
Oats.	51.7	64.2	62.5	62.1	56.2	44.7	43.5			5.05

This report results from the cooperation of state and local Farm Bureau Farm Management Associations and staff members of the Department of Agricultural Economics at the University of Illinois. The information is for farmers and workers in farm management extension, teaching, and research and for others assisting Illinois farmers in business analysis. The report supplements work of FBFM fieldmen by providing comparative standards for farmers enrolled in the service.

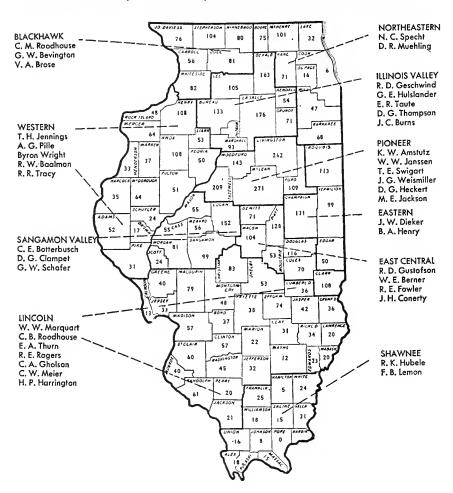
The cooperative effort of the university staff working with 39 fieldmen who are supported largely by fees paid by farmers makes this educational and service program possible. By participating in this program each farmer-cooperator (6,366 reporting this year) increases his chances for successful farm operation and contributes to the improvement of Illinois agriculture.

Each year more farmers are adopting improved production techniques based on studies of their farm records. Many crop farmers now plan for corn yields above 100 bushels per acre. The average dairy farmer has reduced acres of hay and pasture per cow by 17 percent since 1959 by substituting corn silage and increasing forage yields. Farm records are becoming more important for the individual farmer to evaluate his competitive position in the farming business.

We hope that this 40th Annual Report will be used to contribute to more profitable farm operation and a more desirable level of family living.

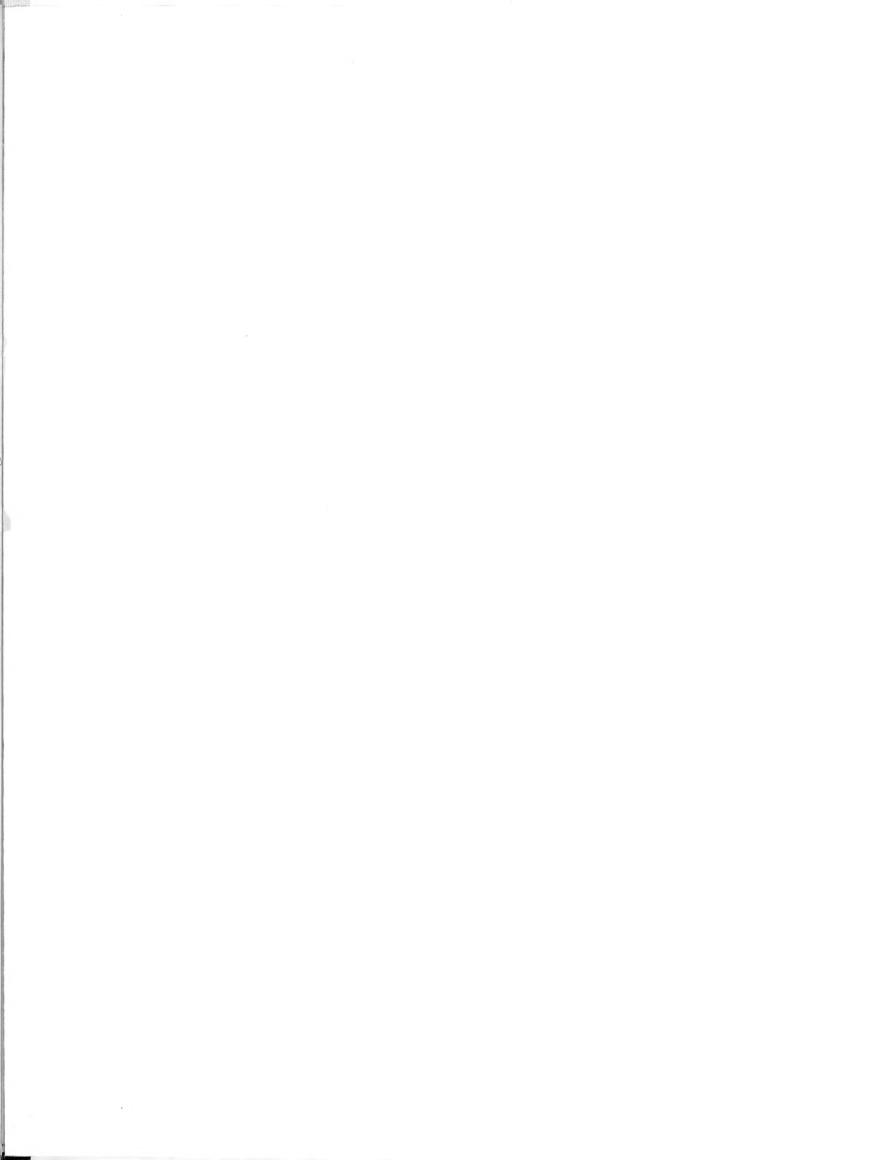
Harold G. Halcrow, Head Department of Agricultural Economics

ASSOCIATIONS, FIELDMEN, AND COOPERATORS ENROLLED



Prepared by A. G. Mueller and D. F. Wilken of the Department of Agricultural Economics.

Urbona, Illinois August, 1965







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