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SUMMARY OF ILLINOIS FARM BUSINESS RECORDS

Commercial Farms:

PRODUCTION COSTS INCOME INVESTMENTS

UNIVERSITY OF ILLINOIS COLLEGE OF AGRICULTURE EXTENSION SERVICE IN AGRICULTURE AND HOME ECONOMICS CIRCULAR 853 This report summarizes for 1961 the farm business records of 5,638 Illinois farmers. It is the 37th 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 11 full-time commercial farmers (farmers with \$10,000 or more of gross sales) in Illinois is enrolled in this service. In Tazewell County 1 out of every 4 is enrolled. The Pioneer Association has 1 of every 6 enrolled. The Service has grown steadily, and in 1961 for the first time every county was represented. The increase in numbers is shown below:

	Associ- ations	Counties partici- pating	Fieldmen employed	Farmers enrolled
1940	3	23	3	680
1945	8	54	9	1,830
1950		59	15	2,760
1955	9	89	24	4,501
1960	10	100	33	5,494
1961		102	33	5,638

Participation in this farm business analysis service is voluntary, and cooperating farmers pay a fee for the services received.

The 5,638 farms of this report fall largely within the size of business of Economic Classes I, II, and III, as defined in the 1959 Census of Agriculture. These classes include all farms selling \$10,000 or more of farm products per year. In 1959, there were 154,652 census-defined farms in Illinois, of which only 61,892, or 40 percent of all farms, sold more than \$10,000 of farm products. These 40 percent farmed 63 percent of the land area and produced 79 percent of the total value of products sold from Illinois farms in 1959. This segment of Illinois agriculture is often referred to as "commercial farmers."

Although the record-keeping farmers are largely within the first three economic classes, there is no assurance that the information obtained from their records is directly representative of all farms in these census groups. It is reasonable to expect that those who participate in this type of service are better managers than average.

Comparative costs and returns between years and among major types of farming in northern and southern Illinois are reported in Tables 1 to 4. 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 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 1961, 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 4 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 1961 by selected segments of Illinois farms. Similar data for 1960 and a ten-year average provide a comparison with other years.

Data for all the major livestock enterprises for 1961 are included in Tables 5 through 12. 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 14 through 18 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 these data.

INCOME CHANGES ON ILLINOIS FARMS

259 acres in size and averaged about 220 acres. Labor used on this size group of farms 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 an owner-operated type of tenure arrangement. Landlord and tenant shares of the business were combined where farms were leased. AGX

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 1960, 1961, and the ten-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 earnings 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 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 available 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. Also, new capital investments may exceed or fall short of the depreciation charges made in calculating farm and family earnings.

Grain farms

Farm and family earnings on northern Illinois 220-acre grain farms increased in 1961 over 1960 and reached a level about 11 percent above the 1952-1961 average (Table 1). The earnings of \$8,895 in 1961 were the highest since 1956. Favorable weather in 1961, with resulting high crop yields, was the major factor causing the income increase on northern Illinois grain farms.

Southern Illinois grain farms showed a much larger increase in farm and family earnings in 1961 over 1960 than did northern Illinois farms. Very favorable weather conditions resulted in exceptionally high crop yields in most of the southern part of Illinois.

Cash operating expenses per farm continued to increase on grain farms, and in 1961 were about 15 percent above the average cash operating expenses for

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Table 1.— Selected Total Farm Items on 180-259 Acre Grain Farms

Items	1961	1960	1952-61 average
Northern	Illinois	I DE L	The lease line
Number of farms Total acres Soil-productivity rating	127 224 80	148 228 79	120 225 81
Total cash sales Less purchased feed and		\$19,598	\$18,407
livestock Net cash sales Inventory change Farm products consumed	$\begin{array}{r} 2,751 \\ \hline 16,996 \\ 862 \\ 127 \end{array}$	$\begin{array}{r} 3,330\\ \hline 16,268\\ 1,190\\ 111 \end{array}$	$ \begin{array}{r} 2,739 \\ 15,668 \\ 409 \\ 185 \end{array} $
Value of farm production	17,985	17,569	16,262
Cash operating expenses Annual depreciation Farm and family earnings	\$ 6,652 2,438 8,895	\$ 6,617 2,488 8,464	\$ 5,779 2,435 8,048
Unpaid labor charge Returns to capital and	2,634	2,660	2,458
management	6,261 4,933 1,328	5,804 5,004 800	5,590 4,695 895
Total cash income ^a Total cash expenditures ^a Cash balance	\$19,927 <u>11,291</u> 8,636	\$19,672 <u>11,842</u> 7,830	\$18,518 10,917 7,601
Southern			
Number of farms Total acres Soil-productivity rating	38 222 40	51 224 36	40 222 40
Total cash sales Less purchased feed and	\$17,035	\$15,029	\$14,454
livestock Net cash sales Inventory change Farm products consumed Value of farm production	$ \begin{array}{r} 3,191 \\ \hline 13,844 \\ 1,524 \\ 160 \\ \overline{15,528} \\ \end{array} $	$ \begin{array}{r} 2,440 \\ \overline{12,589} \\ 484 \\ \underline{155} \\ \overline{13,228} \end{array} $	$ \begin{array}{r} 2,478 \\ \overline{)11,976} \\ 639 \\ \underline{207} \\ \overline{)12,822} \end{array} $
Cash operating expenses Annual depreciation Farm and family earnings	\$ 5,527 2,274 7,727	\$ 5,432 2,365 5,431	\$ 4,754 2,169 5,899
Unpaid labor charge Returns to capital and	2,680	2,638	2,369
management	5,047 2,509 2,538	2,793 2,361 432	3,530 2,450 1,080
Total cash income ^a Total cash expenditures ^a Cash balance	\$17,165 <u>11,344</u> 5,821	\$15,093 10,813 4,280	\$14,576 9,682 4,894

^a Includes sales or purchases of capital items.

the 1952-1961 period. Annual depreciation expenses charged against grain farms have not increased as rapidly as cash expenses. On northern Illinois grain farms, annual depreciation in 1961 was about equal to the 1952-1961 average. In southern Illinois, annual depreciation was about 5 percent above the ten-year average.

Hog farms

Farm and family earnings on hog farms in northern and southern Illinois increased in 1961 over 1960 (Table 2) and were more than twice the level of income in 1959, a relatively unfavorable hog year. The market price of hogs and the level of crop yields are major influences on hog farm earnings. The average market price for hogs in 1961 was \$16.58 per hundred pounds, compared with \$15.24 in 1960. Crop yields increased from 1960 to 1961 over most of the state, except for small areas in north-central and eastern Illinois where 1960 crop yields were also quite high.

Farm and family earnings on 220-acre northern Illinois hog farms were \$11,462, up 17 percent from 1960 but below the record high earnings of \$13,186 in 1958 when hog prices averaged \$19.84 per hundred pounds. Earnings on southern Illinois hog farms were \$9,371 in 1961, an increase of 26 percent over 1960 and

Table 2. — Selected Total Farm Items on 180-259 Acre Hog Farms

Items	1961	1960	1952-61 average
Northern	Illinois		
Number of farms Total acres Soil-productivity rating	119 222 77	119 220 75	130 220 76
Total cash sales Less purchased feed and		\$29,380	\$29,349
livestock Net cash sales Inventory change Farm products consumed Value of farm production	$ \begin{array}{r} 13,007 \\ \hline 20,291 \\ 2,448 \\ \underline{207} \\ \hline 22,946 \end{array} $	$ \begin{array}{r} 10,839 \\ 18,541 \\ 1,802 \\ 238 \\ \overline{20,581} \end{array} $	$ \begin{array}{r} 11,073 \\ 18,276 \\ 585 \\ 275 \\ \overline{19,136} \end{array} $
Cash operating expenses Annual depreciation Farm and family earnings	\$ 8,238 3,246 11,462	\$ 7,655 3,133 9,793	\$ 7,003 2,946 9,187
Unpaid labor charge Returns to capital and	2,843	2,929	2,669
management Interest charge on capital Management returns	8,619 5,420 3,199	6,864 5,040 1,824	6,518 4,869 1,649
Total cash income ^a Total cash expenditures ^a Cash balance		\$29,409 21,489 7,920	\$29,526 21,282 8,244
Southern		.,	0,211
Number of farms Total acres Soil-productivity rating	45 214 35	57 222 39	40 220 37
Total cash sales Less purchased feed and	\$25,105	\$23,086	\$19,615
livestock Net cash sales Inventory change Farm products consumed Value of farm production	$ \frac{8,818}{16,287} \\ 1,822 \\ 268 \\ \overline{18,377} $	$ \frac{8,418}{14,668} \\ 1,264 \\ 277 \\ \overline{16,209} $	$ \begin{array}{r} 7,002 \\ \overline{12,613} \\ 346 \\ 310 \\ \overline{13,269} \end{array} $
Cash operating expenses Annual depreciation Farm and family earnings	\$ 6,746 2,260 9,371	\$ 6,455 2,291 7,463	\$ 5,382 2,183 5,704
Unpaid labor charge Returns to capital and	2,858	2,829	2,574
management Interest charge on capital Management returns	6,513 2,537 3,976	4,634 2,630 2,004	3,130 2,498 632
Total cash income ^a Total cash expenditures ^a Cash balance	\$25,129 <u>18,727</u> <u>6,402</u>	\$23,204 <u>17,365</u> <u>5,839</u>	\$19,686 <u>14,919</u> <u>4,767</u>

the highest income figure recorded on this sample of record-keeping farms for the past 11 years. This group of southern Illinois hog farms had higher farm and family earnings in 1961 than comparable-sized grain and beef-cattle farms in the more productive soil areas of northern Illinois.

Hog farms have become more specialized in the past ten years. The average litters of hogs produced per farm increased from 42 in 1952 to 65 in 1961 on northern Illinois hog farms, and on southern Illinois hog farms from 26 to 44 litters over the ten-year period. These increases were net additions to the farm business and did not replace other livestock enterprises.

Table 3. — Selected Total Farm Items on 180-259 Acre Dairy Farms

Items	1961	1960	1952-61 average
Northern	Illinois		
Number of farms Total acres Soil-productivity rating	$59\\215\\71$	46 215 70	48 217 70
Total cash sales Less purchased feed and	\$28,319	\$25,083	\$22,054
livestock Net cash sales Inventory change Farm products consumed Value of form production		$ \frac{5,138}{19,945} 868 341 31 31 454 4 $	$ \frac{4,346}{17,708} 489 348 \overline{348} \overline{10,545} $
Value of farm production Cash operating expenses Annual depreciation Farm and family earnings	and a construction of the second s	$21,154 \\ \$ 8,730 \\ \underline{3,633} \\ \overline{8,791}$	$ \begin{array}{r} 18,545 \\ \$ 7,837 \\ \underline{3,222} \\ \overline{7,486} \end{array} $
Unpaid labor charge Returns to capital and management Interest charge on capital Management returns	3,267 6,919 5,434 1,485	3,173 5,618 4,925 693	2,939 4,547 4,546 1
Total cash income ^a Total cash expenditures ^a Cash balance	\$28,708 <u>19,231</u> <u>9,477</u>		\$22,190 <u>16,016</u> <u>6,174</u>
Southern	Illinois		
Number of farms Total acres Soil-productivity rating	35 217 32	56 217 32	$\begin{smallmatrix}&48\\215\\32\end{smallmatrix}$
Total cash sales Less purchased feed and		\$21,654	\$17,574
livestock Net cash sales Inventory change Farm products consumed Value of farm production	$ \frac{5,542}{18,586} \\ 1,386 \\ 389 \\ \overline{20,361} $	$ \begin{array}{r} 5,021 \\ \overline{)16,633} \\ 1,408 \\ 324 \\ \overline{)18,365} \end{array} $	$ \begin{array}{r} 3,911 \\ \overline{)3,663} \\ 608 \\ 369 \\ \overline{)4,640} \end{array} $
Cash operating expenses Annual depreciation Farm and family earnings		\$ 7,266 3,188 7,911	\$ 5,812 2,611 6,217
Unpaid labor charge Returns to capital and	3,294	3,196	2,937
management	5,695 2,911 2,784	4,715 2,704 2,011	3,280 2,524 756
Total cash income ^a Total cash expenditures ^a Cash balance	\$24,331 <u>18,245</u> <u>6,086</u>	\$21,852 <u>17,514</u> 4,338	\$17,672 <u>13,327</u> <u>4,345</u>

Includes sales or purchases of capital items.

^a Includes sales or purchases of capital items.

Dairy farms

Farm and family earnings on the sample of northern Illinois dairy farms increased from \$8,791 in 1960 to \$10,186 in 1961 (Table 3). Earnings on southern Illinois dairy farms increased from \$7,911 to \$8,989 in 1961. The level of farm and family earnings on both northern and southern dairy farms was substantially above the ten-year average earnings for each area.

The average number of dairy cows per farm has shown a sizable increase since 1951. In 1951, the number of milk cows on farms ranging from 180 to 259 acres in size was 17 for southern Illinois and 25 for northern Illinois. In 1961, the same size of farm milked 33 cows in southern Illinois and 38 in northern Illinois. There was no change in the months of labor used per farm over this 11-year period.

Table 4.	- Selec	cted	Total	Farm	Items
on	180-259	Acre	e Beef	Farm	s

Items	1961	1960	1952-61 average
Northern	Illinois		
Number of farms Total acres Soil-productivity rating	$\begin{smallmatrix}&50\\213\\79\end{smallmatrix}$	$\begin{array}{r} 65\\221\\74\end{array}$	86 221 77
Total cash sales Less purchased feed and livestock	\$47,921 28,493	\$44,747 23,013	\$40,891 22,528
Net cash sales Inventory change Farm products consumed Value of farm production	$ \frac{19,128}{19,428} \\ $	$ \frac{20,010}{21,734} \\ -1,161 \\ $	$ \begin{array}{r} 22,020 \\ \overline{18,363} \\ -37 \\ 282 \\ \overline{18,608} \end{array} $
Cash operating expenses Annual depreciation Farm and family earnings	\$ 8,573 3,909 7,840	\$ 8,334 3,811 8,676	\$ 7,411 3,350 7,847
Unpaid labor charge Returns to capital and	2,774	2,920	2,588
management	5,066 6,538 -1,472	$5,756 \\ 6,307 \\ -551$	5,259 5,658 -399
Total cash income ^a Total cash expenditures ^a Cash balance	\$48,363 <u>40,403</u> 7,960	\$44,925 34,920 10,005	

^a Includes sales or purchases of capital items.

Hog enterprises

The information on hogs in Table 6 is based on a sample of 733 farms farrowing ten or more litters per year. Farms were omitted from the sample if the number of hogs purchased exceeded 10 percent of the number of pigs weaned. This eliminated from the sample those farms with combined farrowing and feeder-pig operations. Information on feeder-pig enterprises is included in Table 8.

Beef farms

Northern Illinois beef farms were the only type-offarm group that did not show an increase in farm earnings from 1960 to 1961. The sample of 220-acre beef farms recorded a drop in farm and family earnings from \$8,676 in 1960 to \$7,840 in 1961, a drop of 10 percent. Total cash sales from these farms increased in 1961, but purchases of feed and feeder livestock increased even more than sales. After adjusting for changes in inventory values and value of products consumed, total value of farm production dropped by \$499 per farm from 1960 to 1961. This drop in dollar value of output, combined with a \$337 increase in cash operating expenses and depreciation per farm, resulted in the lower 1961 income figure.

Total cash sales and cash expenditures on beef farms are inflated by the purchase and sale transactions of feeder livestock. Because individual lots of feeder cattle are frequently bought and sold in different accounting periods and financed with borrowed funds, the cash balance figure is not a good indicator of earned income for this type of farm.

Table 5. — Returns per \$100 Feed Fed to Different Classes of Livestock

Year	Beef cow herds	Dairy cow herds	Feeder cattle bought	Native sheep raised	Feeder sheep bought	Hogs	Poultry	Yearly price of corn
1947	. 130	162	138	130	131	150	117	\$1.90
948	. 143	183	137	138	179	131	137	1.89
949		175	136	142	04	144	161	1.16
950	. 169	173	170	177	182	152	122	1.35
951	. 170	187	142	171	111	127	137	1.66
952	. 170	175	86	67	44	116	116	1.65
953	. 99	147	181	84	113	178	148	1.44
954	. 64	141	26	97	119	154	104	1.46
955	. 95	168	106	103	100	109	142	1.28
956	. 94	177	117	137	108	142	133	1.30
957	. 134	189	143	138	113	172	136	1.15
958	. 162	199	144	98	47	180	142	1.10
959	. 147	191	112	102	61	114	123	1.10
960		200	117	108	122	164	157	1.03
961		196	116	110	108	164	150	1.01
947-61								
average.	. 127	178	125	120	103	146	135	\$1.36

LIVESTOCK ENTERPRISES

Returns per \$100 feed fed for hogs were \$164 in 1961, identical with the 1960 average and \$18 above the 1947-1961 average. The average price received for hogs sold was \$16.58 per hundred pounds, up \$1.34 from the 1960 average price of \$15.24. Although the average price received for hogs marketed increased, returns per \$100 feed fed did not change from 1960 to 1961. An inventory price adjustment from about \$11.10 a hundred pounds to about \$16.40 occurred from the

Table 6. — Hog Enterprises, 1961

Items	Al	l farms		High- return farms		Low- return farms
Number of farms Pounds of pork produced Total returns Value of feed fed Returns per \$100 feed fed Returns above feed per litter		733 ,502 ,603 ,504 164 105	\$1	134 9,255 6,655 8,850 188 134	\$1	133 1,966 2,980 9,215 141 72
Number of litters farrowed Pigs farrowed per litter Pigs weaned per litter Number of pigs weaned Number that died after weaning		58 8.9 7.4 429		58 8.8 7.6 443		52 8.8 7.2 375
Pounds of death loss Percent of pounds produced	1	,218 1.3		909 .9		1,399 1.7
Weight per hog sold Price received per 100		233		231		232
Feed cost per 100 pounds	\$	16.58	\$	16.74	\$	16.39
produced Feed per 100 pounds produced		9.95		8.92		11.24
Farm grains, lb Commercial feeds, lb Total concentrates, lb.		352 63 415		323 55 378		394 71 465
Pasture (pasture days) Cost per 100 pounds of		1.2		1.1		1.4
commercial feeds Cost per 100 pounds of	\$	5.39	\$	5.31	\$	5.53
concentrates	\$	2.35	\$	2.32	\$	2.38

beginning to the end of the 1960 accounting year while in 1961, hog prices were stable at the two inventory dates.

The average size of hog enterprises increased from 41 litters per farm in 1955 to 58 litters in 1961. The pounds of pork produced per farm increased by 51 percent over the same six-year period.

Farms with high and low returns per \$100 feed fed were tabulated separately in Table 6. The high-return group had returns per \$100 feed fed that ranged from \$180 to \$199 and the low-return group ranged from \$130 to \$149. This grouping of farms was made to demonstrate the range in performance and efficiency among hog producers and to indicate where the highly efficient farms excel in management performance. Feed conversions and feed cost per 100 pounds produced were the most important differences between the highand low-return groups. The high-return group averaged 378 pounds of feed and \$8.92 feed cost per 100 pounds produced while the low-return group averaged 465 pounds of feed and a feed cost of \$11.24 per 100 pounds produced. This difference in feeding efficiency amounted to a saving in feed cost of \$2,300 per farm for the high-return farms compared with the lowreturn group. Other areas of higher management performance were in pigs weaned per litter, death losses, and prices received for hogs marketed.

Dairy enterprises

Returns per \$100 feed fed to dairy enterprises averaged \$196 (Table 7) in 1961, the fourth year in a row that returns have been \$190 or above. The returns per \$100 feed fed to dairy averaged \$178 for the 1947-1961 period (Table 5).

The minimum size of herd included in this analysis was ten milk cows. The average herd in 1961 included 32.2 cows and about 29 head of young stock of all ages. The average size of dairy herd has increased very rapidly the last few years. In 1955, dairy herds averaged 21.8 cows per farm on record-keeping farms with ten or more cows.

Milk produced per milk cow averaged 10,419 pounds in 1961 compared with 10,059 pounds in 1960 and 8,229 pounds in 1951. The average price received for milk in 1961 averaged \$3.90 per hundred pounds, up only 6 cents from a year earlier. The average price reported here is net after deduction of hauling and marketing costs.

The dairy herds in Table 7 were divided into two

Table 7. — Dairy Cattle Enterprises, 1961

		All farms - 1		Milk per cow			
Items	All farn			Over 10,000 lb.		Jnder ,000 lb.	
Number of farms Number of cows in herd Number of milk cows Percent of milk cows dry Animal units in herd	32. 32. 16	0		$232 \\ 34.1 \\ 34.0 \\ 15 \\ 55.9$		179 29.7 29.5 17 44.2	
Pounds of beef produced Total returns Value of feed fed Returns per \$100 feed fed Returns above feed per milk cow	\$15,169 7,737 196		\$17	5,725 7,678 3,780 201 262	\$11	,223 ,917 ,384 187	
Total pounds of milk produced Pounds of milk per			393	3,060	256	,084	
milk cow Pounds of butterfat per milk cow	10,419 387		11	,560 420	8	,681 338	
Pounds of beef per cow in herd Pounds of death loss Percent of pounds	475 1,158		1	492 1,183	1	448 ,125	
produced Feed cost per unit ^a Price received for:	\$ 15.		\$	$\begin{array}{c} 7.1 \\ 15.67 \end{array}$	\$	8.5 16.44	
100 lb. milk 100 lb. beef Feed per unit of milk and beef, pounds	3. 16.			3.87 16.88		3.97 16.48	
Grain Protein and minerals Total concentrates	$247 \\ 62 \\ 309$			240 65 305		260 57 317	
Hay and dry roughage Hay silage and soilage Corn and other silage Pasture (pasture days)	482 192 628			465 196 629		512 186 626	
Pasture (pasture days) Pasture days per animal unit	13 123			12 117		15 134	

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

groups; herds with over 10,000 pounds of milk per cow and herds under 10,000 pounds. This separation divided the high-producing and large-breed herds from the low-producing and small-breed herds. The average butterfat test was 3.63 percent for the over-10,000pound group and 3.89 percent for the under-10,000pound group. The total feed cost, expressed as a cost per cow, averaged \$258 for the high-producing group and \$213 for the low group. Because it was not entirely possible to separate large breeds from small breeds, the differences observed between the two subgroups in Table 7 should not be interpreted as differences resulting from milk yields only.

Feeder-cattle and feeder-pig enterprises

Feeding enterprises involve the purchase of livestock to feed until ready for slaughter. Feeder cattle is the most common livestock feeding enterprise but feeder pigs are increasing in importance.

Calendar-year operations for feeder-cattle and feeder-pig enterprises are presented in Table 8. This involves inventory weights and values on partly finished animals at the beginning and end of the calendar year. Total returns are the difference between the sum of opening inventory value and purchases and the sum of sales, closing inventory value, and value of animals consumed.

Returns per \$100 feed fed from feeder-cattle enterprises averaged \$116 in 1961, compared with \$117 in 1960 (Table 8). Returns from feeder-pig enterprises

averaged \$132, down \$11 from the 1960 average of \$143. The feed cost per 100 pounds of gain was about 2 percent below 1960 for both feeder enterprises. Unlike other livestock enterprises, the interaction between purchase price for feeder animals and selling price for finished livestock affects the margin of returns from feeding enterprises.

Cattle-feeding operations starting with the purchase of a drove of feeder cattle and ending with the sale of finished animals are presented in Table 9 for five selected systems. These data summarize information published earlier in the "Twenty-Third Annual Report of Feeder Cattle."

Table 8. — Feeder-Cattle and Feeder-Pig Enterprises, 1961

Items	Feeder cattle	Feeder pigs	
Number of farms	425	116	
1 otal pounds produced	59,718	50,420	
1 otal returns	\$12,673	\$ 6,296	
Value of feed fed	10,901	4,762	
Returns per \$100 feed fed	116	132	
Pounds of death loss	970	1,149	
Percent of pounds produced	1.6	2.3	
Average weight purchased	588	57	
Price paid per 100 pounds	\$ 25.13	\$ 27.48	
Price received per 100 pounds	23.47	17.34	
Feed cost per 100 pounds produced	18.25	9.45	
Feed per 100 pounds produced	10.10	2.10	
Grain, lb	630	346	
Protein and mineral feeds, lb	67	62	
Total concentrates, lb	697	408	
Hay, lb	174		
Silage, lb	466		
Pasture (pasture days)	5		

Using "returns above feed per head" as a measure of returns, all systems included in Table 9 had returns above the levels received in the 1959-60 feeding year. With the exception of short-fed yearlings, all systems had returns per head below the 1952-1960 averages. Steer calves and long-fed yearlings on pasture showed the largest returns. Cattle marketed from these systems were sold in 1961 during a fall rise in the market price of slaughter cattle.

Table 9. —	Feeder-Cattle	Enterprises,	Good-to-Choice	Grades
	Fed During	; 1960-61 Fee	ding Year	

Items	Heifer calves	Steer calves	Long-fed yearlings, pastured	Long-fed yearlings, drylot	Short-fed yearlings
Number of droves Average number of cattle	8 68	23 60	8 57	24 76	10 50
Date bought Date sold Days on farm Days on food	Oct. 4 July 18 287 234	Oct. 14 Sept. 6 327 272	Oct. 13 Aug. 16 307	Oct. 2 July 27 298	Oct. 11 April 27 198
Days on feed Days on summer pasture	234	36	212 68	231	161
Purchase weight Sale weight Gain per head Average daily gain	\dots 828 1018 1080 \dots 421 574 502		578 1080 502 1.67	598 1135 537 1.82	678 1097 419 2.13
Per 100 pounds Purchase price Sale price Cost of gains Price spread margin Feeding margin Returns above feed per head Returns per \$100 feed fed	\$ 23.49 21.44 17.38 -2.05 4.06 6.44 110	\$ 26.48 23.11 16.28 -3.37 6.83 22.80 125	\$ 24.89 22.93 16.46 -1.96 6.47 22.29 127	\$ 25.22 22.45 18.64 -2.77 3.81 3.10 103	\$ 23.72 22.90 16.81 82 6.09 18.70 130
Feed per 100 pounds of gain Corn, lb Oats, lb Protein feeds, lb Hay, lb Corn silage, lb Other silage, lb	560 6 76 172 474	566 26 51 232 140	476 19 41 261 456	627 6 68 208 457 21	638 57 150 252
Pasture (pasture days)	4.1	5.6	12.6	4.4	5.8

Table 10. — Beef Cow Enterprises, 1961

Table 11. - Poultry Enterprises, 1961

Items	
Number of farms Number of cows in herd Animal units in herd	$240 \\ 26.2 \\ 40.7$
Total pounds produced Total returns Value of feed fed Returns per \$100 feed fed	18,585 \$ 3,998 2,882 139
Pounds of beef per cow in herd Pounds of death loss Percent of pounds produced Feed cost per unit ^a Price received per 100 pounds	709 723 3.9 \$ 15.47 22.58
Feed per unit of milk and beef Grain, lb Protein and mineral feeds, lb Total concentrates, lb Hay and dry roughage, lb Hay silage, lb Corn and other silage, lb Pasture (pasture days) Pasture days per animal unit	216 23 239 588 51 145 40 185

Items	All	Numb	er of hens pe	r farm	
rtems	farms	101-299	300-749	750+	
Number of farms	306	144	88	74	
Pounds of poultry produced	2,393	939	1,719	6,023	
Total returns	\$3,794	\$ 956	\$2,429	\$10,941	
Value of feed fed	2,534	714	1,756	6,999	
Returns per \$100 feed fed Returns above feed cost	150	134	138	156	
per hen	1.78	1.26	1.44	1.98	
Average number of hens	706	192	466	1,993	
Eggs produced per hen	211	188	203	217	
Percent production	58	52	56	59	
Feed requirement units ^a	13,997	3,631	9,031	40,072	
Feed cost per unit Pounds of concentrates	.18	.20	. 19	.12	
per unit	6.2	6.8	6.6	6.1	
Cost per 100 pounds of concentrates	\$ 2.89	\$ 2.89	\$ 2.96	\$ 2.87	
Price per pound sold	φ 2.89 .08				
Price per dozen eggs sold	.33	.10	.09	.08	
Pounds of death loss	526	.33	.34 308	1,481	

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

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

Beef-cow herds

The minimum size of beef-cow herd included in Table 10 was ten or more cows. Farms with combinations of cow herds and purchased feeder cattle were not included. The common practice followed by farmers with cow herds includes raising and fattening the calves produced. A limited number of farms in this cow-herd analysis may sell the calves produced as feeder cattle.

Returns per \$100 feed fed to beef-cow herds averaged \$139 in 1961, up \$10 from \$129 in 1960. The feed cost for beef produced was \$15.47 per 100 pounds, and the average price received for beef sold was \$22.58 per 100 pounds. This latter figure includes sales of slaughter cattle, cull breeding stock, and in some instances, sale of feeder calves. The average price received from the sale of beef from all feedercattle enterprises was \$23.47 per 100 pounds in 1961, \$.89 higher than the sales made from cow herds.

The feed charged against the beef-cow herd was about equally divided between concentrates, harvested roughage, and pasture. In contrast, 80 percent of the feed costs for a feeder-cattle enterprise are grain and protein concentrates.

Poultry enterprises

Returns per \$100 feed fed from all poultry flocks in 1961 averaged \$150, compared with \$157 in 1960 (Table 11). The sale price of eggs averaged 33 cents a dozen, down 2 cents from 1960. The eggs produced per hen averaged 211, the same as 1960.

The minimum size of flock included in Table 11 is

100 hens. The size of flock in 1961, omitting farms with less than 100 hens, averaged 706 hens. Flock size has increased sharply the past several years. The average flock size was 647 hens in 1960, 513 in 1959, and 316 in 1955.

Several important differences were observed when flocks were grouped by average number of hens. Eggs produced per hen, calculated on a hen-day basis, increased with increases in flock size. Feed cost per unit of product (one dozen eggs or $1\frac{1}{2}$ pounds of meat) decreased and returns above feed cost per hen increased with changes in flock size.

In calculating total returns from poultry in Table 11, the purchase cost of replacement chicks or started pullets has been deducted from the sale of eggs and cull hens.

Table 12. — Sheep Enterprises, 1961

Items	Native flocks		Feeder sheep
Number of farms Pounds of wool and mutton produced Total returns Value of feed fed Returns per \$100 feed fed	\$ 141 4,123 652 590 110	\$ 4	11 3,846 4,284 5,948 108
Percent lamb crop Pounds of death loss. Percent of pounds produced Feed cost per 100 pounds produced Price received per 100 pounds. Price paid for sheep bought	\$ 11360614.714.3218.94	2 \$	2,014 7.0 13.69 16.74 16.38
Feed per 100 pounds produced Concentrates, lb Hay, lb Silage, lb Pasture (pasture days)	215 545 8 42		518 342

Sheep enterprises

Sheep production is a minor enterprise on recordkeeping farms. The minimum size of enterprise in Table 12 was set at three animal units. One animal unit of sheep is defined as 750 pounds liveweight. The sheep enterprises were divided into native ewe flocks and feeder-lamb operations. Returns per \$100 feed fed in 1961 were \$110 for native flocks and \$108 for feeder sheep. Returns per \$100 feed fed for the two enterprises in 1960 were \$108 and \$122, respectively.

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 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

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 1961 at \$215 and \$200 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 non-feed 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.

Table 13. — Average Prices Received and Paid by Farm Record Keepers, 1961

	19	61	19	60
	Northern Illinois	Southern Illinois	Northern Illinois	Southern Illinois
Grain prices				
Corn, sold	\$1.04	\$1.07	\$1.04	\$1.02
Soybeans, sold		2.31	2.04	2.00
Oats, sold	.65	.71	.68	.73
Wheat, sold	1.85	1.78	1.78	1.73
Corn, purchased	1.02	1.04	1.03	1.04
Oats, purchased	.63	.75	.67	.83
Livestock prices				
Hogs, all weights Fat cattle, all	\$16	.58	\$15	.24
weights	22	.58	22	.66
Feeder cattle, all weights, prices				
paid	23	.47	24	.53
Dairy cattle, all				
weights	16	.72	17	.11
Sheep, all weights		.94	20	.17
Poultry		.08		.12
Milk	3	.90	3	.84
Eggs		.33		.35

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 is deducted from farm and family earnings.

	GRAIN	N FARMS	WITH SOII	L RATING	76-100	GRAI	N FARMS	WITH SOI	L RATING	56-75
Range in size (total acres) Number of farms	Under 180 34	180-259 80	260-339 104	340-499 132	500 + 110	Under 180 12	180-259 47	260-339 38	340-499 48	500 + 33
Size of farm Acres of tillable land Soil rating on tillable land Hens, number Dairy cows, number Beef produced, hundredweight Pork produced, hundredweight	$151 \\ 141 \\ 85 \\ 48 \\ .3 \\ 33 \\ 143$	$224 \\ 210 \\ 85 \\ 19 \\ 1.6 \\ 55 \\ 203$	303 284 85 29 .8 72 230	$\begin{array}{r} 403\\ 376\\ 85\\ 31\\ .3\\ 108\\ 282 \end{array}$	$654 \\ 600 \\ 84 \\ 60 \\ .9 \\ 206 \\ 345$	$ \begin{array}{r} 147 \\ 132 \\ 69 \\ 70 \\ .5 \\ 6 \\ 29 \\ \end{array} $	$224 \\ 198 \\ 70 \\ 48 \\ .2 \\ 53 \\ 165$	306 281 68 13 .6 72 292	$ \begin{array}{r} 413\\ 369\\ 69\\ 58\\ 1.2\\ 148\\ 244 \end{array} $	$ \begin{array}{r} 643 \\ 573 \\ 69 \\ 65 \\ 2.3 \\ 189 \\ 440 \end{array} $
DOLLAR COSTS PER FARM Soil fertility. Buildings and fence. Machinery and equipment. Labor. Taxes. Seed and crop expense. Livestock and miscellaneous expense. Interest charge on capital.	<pre>\$ 1,138 946 3,239 2,622 1,052 492 272 3,876 13,637 2,341</pre>	\$ 1,354 1,087 4,316 2,860 1,465 722 322 5,386 17,512 3,276	\$ 1,885 1,276 5,294 3,273 1,904 986 384 7,082 22,084 3,890	\$ 2,597 1,683 7,090 4,256 2,406 1,302 508 9,330 29,172 5,000	$ \begin{array}{c} \$ 4,299\\ 2,524\\ 10,308\\ 6,645\\ 4,016\\ 2,065\\ 619\\ 14,597\\ 45,073\\ 7,877 \end{array} $	\$ 1,026 1,363 2,439 2,308 862 451 248 2,934 11,631 925	\$ 1,232 1,089 3,791 2,893 1,118 658 258 4,162 15,201 2,727		\$ 2,004 1,576 6,561 4,114 2,060 1,187 449 7,580 25,531 5,610	
DOLLAR RETURNS PER FARM Other cash income	$578 \\ 11,448 \\ 753 \\ 12,779 \\ -858 $	\$ 717 16,834 <u>1,690</u> 19,241 1,729	\$ 772 22,702 <u>1,714</u> 25,188 3,104	\$ 1,296 30,943 2,265 34,504 5,332	\$ 1,627 49,405 <u>2,605</u> 53,637 8,564	\$ 488 9,161 <u>123</u> <u>9,772</u> -1,859	\$ 718 13,976 <u>1,152</u> 15,846 645	\$ 780 19,655 2,240 22,675 3,000	\$ 983 26,188 <u>1,965</u> 29,136 3,605	\$ 1,277 41,272 <u>3,840</u> 46,389 8,094
Farm production per \$1.00 of non-feed costs Farm production per man	.94	1.10 17,491	1.14 19,885	1.18 21,792	1.19 22,663	.84 11,063	1.04 14,405	1.15 19,435	1.14 18,697	1.21 21,006
FINANCIAL SUMMARY Cash sales of products and services	514,650 114 14,764			37,261 283 37,544	\$56,946 249 57,195	$ \$10,892 \frac{71}{10,963} $	\$17,680 $\frac{265}{17,945}$		34,272 167 34,439	\$50,291 59 50,350
Purchased livestock. Purchased feed. Cash operating expenses. Purchase of capital items. Total cash expenditures.	440 987 5,311 1,816 8,554	1,374 1,489 6,953 1,871 11,687	$1,769 1,683 9,290 2,439 \overline{15,181}$	3,2422,31213,0254,18422,763	6,413 3,522 21,208 6,419 37,562	354 434 4,745 548 $6,081$	1,243 1,317 6,138 <u>1,918</u> 10,616	$ 1,821 1,969 8,004 3,771 \overline{15,565} $	3,976 3,200 11,287 3,623 22,086	5,455 4,412 18,664 <u>6,760</u> 35,291
Cash balance.\$Inventory change.\$Capital change.\$Farm products consumed.\$Farm and family earnings.\$Labor and management earnings.\$Capital and management earnings.\$Capital and management earnings per acre.\$	6,210 -564 -342 120 5,424 1,425 3,018 19.99	\$ 9,404 1,002 -798 141 9,749 4,237 7,115 31.76		\$14,781 2,619 -113 178 17,465 7,878 14,662 36.38			\$ 7,329 623 -612 103 7,443 3,103 4,807 21.46	$ \begin{tabular}{lllllllllllllllllllllllllllllllllll$	\$12,353 1,900 -366 140 14,027 6,109 11,185 27.08	\$15,059 5,762 1,403 203 22,427 10,641 19,209 29.87

Table 14. — Costs, Returns, and Financial Summary by Size and Type of Farm, Northern Illinois, 1961

	GRAII	N FARMS	WITH SOI	L RATING	76-100	GRAI	N FARMS	WITH SOI	L RATING	56-75
Range in size (total acres) Number of farms	Under 180 34	180-259 80	260-339 104	340-499 132	500 + 110	Under 180 12	180-259 47	260-339 38	340-499 48	500 + 33
COSTS AND RETURNS PER TILLABLE ACRE Soil fertility Buildings and fence Machinery and equipment Labor Feed and grain returns.	\$ 8.07 6.71 22.97 18.60 81.19	\$ 6.45 5.18 20.55 13.62 80.16	4.49 18.64 11.52	4.48 18.85 11.32	4.21 17.18 11.08	\$ 7.77 10.32 18.48 17.48 69.40	\$ 6.22 5.50 19.15 14.61 70.58	5.26 17.60 10.96		\$ 6.06 3.91 17.01 10.91 72.03
Total value of farm production Total non-feed costs Management returns	90.63 96.72 -6.09	91.62 83.39 8.23		77.58	3 75.12	$ \begin{array}{r} 74.03 \\ 88.11 \\ \overline{-14.08} \end{array} $		70.02	$\frac{78.96}{69.19}$	80.96 66.83 14.13
SELECTED COST ITEMS Fertilizer, annual applications Lime and rock phosphate depreciation. Building repairs and maintenance. Building depreciation. Machinery and equipment depreciation. Machinery repairs and supplies. Machinery hire. Gasoline and oil. Hired labor cost. Unpaid labor charge. Total months of labor. Months of labor hired.	\$ 975 163 183 763 931 718 381 598 216 2,406 12.0 .8	\$ 1,173 181 355 732 1,410 950 403 890 226 2,634 13.2 .9	\$ 1,710 175 320 956 1,616 1,279 573 1,075 555 2,718 15.2 2.6	$\begin{array}{c} \$ 2,407 \\ 190 \\ 463 \\ 1,220 \\ 2,336 \\ 1,761 \\ 721 \\ 1,443 \\ 1,453 \\ 2,803 \\ 19.0 \\ 6.0 \end{array}$	\$ 3,945 354 672 1,852 3,495 2,732 920 2,166 3,380 3,265 28.4 13.2	\$ 896 130 485 878 608 398 397 455 158 2,150 10.6 .6	\$ 1,100 132 335 754 1,182 830 358 784 257 2,636 13.2 1.0	\$ 1,439 163 354 1,123 1,648 1,179 493 950 278 2,801 14.0 1.0	\$ 1,800 204 438 1,138 2,240 1,624 637 1,285 1,272 2,842 18.7 5.5	\$ 3,210 264 872 1,371 3,351 2,766 680 2,021 3,034 3,218 26.5 11.5
FARM INVESTMENT Livestock inventory Grain inventory		\$ 3,655 10,020	\$ 4,451 12,694	\$ 5,669 17,192	\$10,279 26,460	\$ 1,067 6,345	\$ 3,019 7,233	\$ 5,148 9,866	\$ 7,581 12,891	\$10,713 18,555
Remaining capital cost in: Machinery. Buildings and fence. Soil fertility. Auto. Value of land (current basis). Total farm investment. Total farm investment per acre.	337 454 65,817	5,499 9,540 419 663 97,393 127,189 567.81	6,290 13,156 368 790 <u>129,877</u> 167,626 553.22	8,450 15,822 426 785 172,813 221,157 548.78	12,629 23,848 842 841 271,302 346,201 3 529.36	$ \begin{array}{r} 1,889\\9,446\\410\\585\\\underline{48,663}\\68,405\\465.34\end{array} $	4,489 9,089 294 581 73,179 97,884 436.98	5,989 12,444 401 536 <u>100,254</u> 134,638 439.99		11,985 16,101 571 879 204,371 263,175 409.29
PERCENT OF TILLABLE LAND IN Corn and corn silage Soybeans	$\begin{array}{r} 44.1 \\ 26.4 \\ 4.8 \\ 3.6 \\ 11.4 \\ 8.0 \end{array}$	37.7 30.2 6.8 4.2 9.8 10.3	$\begin{array}{c} 40.1 \\ 29.3 \\ 6.2 \\ 4.6 \\ 8.7 \\ 9.8 \end{array}$	38.4 31.0 7.2 3.9 10.0 7.7	39.0 31.4 7.9 3.8 9.8 7.5	$38.0 \\ 27.3 \\ 4.4 \\ 6.4 \\ 11.4 \\ 11.2$	40.0 24.6 6.5 7.5 11.1 9.6	36.3 26.3 7.1 6.8 10.3 11.8	37.7 27.3 7.9 5.3 9.6 11.1	$36.2 \\ 30.5 \\ 6.6 \\ 3.4 \\ 11.6 \\ 10.5$
CROP YIELDS, bushels per acre Corn	97.8 33.3 69.1 51.6	96.7 33.2 68.8 48.7	97.6 33.1 72.9 48.6	98.1 32.4 65.8 48.8	98.0 32.7 68.8 49.2	88.8 29.9 76.3 49.6	85.4 31.6 62.2 47.6	87.9 31.3 61.8 46.2	88.2 30.4 59.5 46.4	$\begin{array}{r} 88.4 \\ 30.3 \\ 61.6 \\ 46.6 \end{array}$

Table 14a. — Operating Costs, Investment, and Land Use by Size and Type of Farm, Northern Illinois, 1961

11

	HOG	FARMS	WITH SOIL	RATING	76-100	HOG FARMS WITH SOIL RATING 56-75				
Range in size (total acres) Number of farms	Under 180 63	180-259 79	260-339 43	340-499 45	500 + 16	Under 180 30	180-259 40	260-339 38	340-499 40	500 + 20
Size of farm Acres of tillable land Soil rating on tillable land Hens, number Dairy cows, number Beef produced, hundredweight Pork produced, hundredweight	155 143 83 49 1.2 121 1,109	2232028224.62331,133	295 262 83 38 1.0 329 1,453	394 353 83 112 .4 94 1,691	$607 \\ 492 \\ 82 \\ 24 \\ .1 \\ 434 \\ 2,208$	151 133 68 88 .8 94 921	$221 \\ 185 \\ 68 \\ 66 \\ 1.1 \\ 145 \\ 1.043$	30524468492.42141,439	$ \begin{array}{r} 404 \\ 314 \\ 66 \\ 34 \\ 1.0 \\ 286 \\ 1,549 \end{array} $	$ \begin{array}{r} 639 \\ 462 \\ 67 \\ 82 \\ .2 \\ 536 \\ 2 \\ 009 \end{array} $
DOLLAR COSTS PER FARM Soil fertility. Buildings and fence. Machinery and equipment. Labor. Faxes. Seed and crop expense. Livestock and miscellaneous expense. nterest charge on capital. Fotal non-feed costs	,	\$ 1,130 1,686 5,294 3,623 1,473 814 917 5,889 20,826 15,754	\$ 1,378 1,916 6,552 4,753 1,795 1,041 1,313 7,590 26,338 21,855	\$ 2,315 2,733 8,355 6,087 2,358 1,431 1,282 9,904 34,465 23,444	\$ 4,051 4,461 11,486 7,101 3,438 2,096 1,729 <u>13,722</u> 48,084 30,498	\$ 704 1,394 3,531 2,967 895 476 799 <u>3,464</u> 14,230 11,700		\$ 1,658 1,863 6,094 4,157 1,387 857 1,125 5,972 23,113 18,971	\$ 2,034 2,619 7,234 5,320 1,949 975 1,188 7,419 28,738 20,845	2,098 \$ 3,079 3,471 10,211 6,568 2,580 1,712 1,636 <u>11,428</u> 40,685 32,857
Year Year Year	5 722 10,332 7,447 18,501 1,930	\$ 714 14,876 8,283 23,873 3,047	\$ 993 19,379 9,450 29,822 3,484	\$ 1,549 27,064 <u>10,761</u> <u>39,374</u> 4,909	\$ 1,557 39,269 <u>15,534</u> 56,360 8,276	\$ 537 8,631 <u>6,413</u> 15,581 1,351	\$ 671 12,500 7,942 21,113 3,497	\$ 647 16,671 10,039 27,357 4,244	\$ 1,176 21,343 <u>11,530</u> <u>34,049</u> 5,311	\$ 1,836 31,706 12,636 46,178 5,493
	1.12 14,801	1.15 17,257	$\begin{smallmatrix}&1.13\\17,206\end{smallmatrix}$	1.14 18,103	1.17 21,959	1.09 13,451	1.20 16,241	$\begin{smallmatrix}&1.18\\18,238\end{smallmatrix}$	1.18 17,095	1.1 19,512
INANCIAL SUMMARY ash sales of products and services	$\frac{27,555}{37}$	$\frac{335,956}{80}$	$ \$45,984 39 \overline{46,023} $	$ \$56,523 \\ \underline{54} \\ \overline{56,577} $	\$76,765 <u>338</u> 77,103	$\frac{2}{23,102}$	$ \begin{array}{r} \$28,046 \\ \underline{196} \\ \overline{28,242} \end{array} $			
urchased livestock urchased feed ash operating expenses urchase of capital items	3,216 6,866 6,708 2,216 19,006	6,880 8,087 8,527 3,512 27,006	8,995 10,630 12,077 <u>3,366</u> <u>35,068</u>	$ \begin{array}{r} 10,092 \\ 10,385 \\ 16,241 \\ \underline{5,523} \\ \overline{42,241} \end{array} $	$15,10414,46824,2498,642\overline{62,463}$	3,2766,0975,7731,830 $16,976$	2,918 6,215 7,668 2,294 19,095	6,003 9,931 10,722 <u>3,966</u> 30,622	6,633 9,469 13,531 <u>3,962</u> 33,595	11,754 16,169 18,734 5,124 51,781
ash balance	8,586 858 -476 170	$\begin{array}{c} 5 & 9,030 \\ 2,674 \\ -73 \\ 210 \\ \hline 11,841 \\ 5,613 \\ 8,936 \\ 40.07 \end{array}$	\$10,955 3,204 -459 259 13,959 6,014 11,074 37.54	\$14,336 3,087 228 241 17,892 7,456 14,813 37.60	\$14,640 8,902 1,591 <u>265</u> <u>25,398</u> 10,735 21,998 <u>36,24</u>		$\begin{array}{c} 13,335\\ 6,9,147\\ 1,999\\ -635\\ \underline{201}\\ 10,712\\ 6,048\\ 7,992\\ 36.16\end{array}$		\$13,933 2,450 -692 280 15,971 7,881 12,730 31,51	$ \begin{array}{r} \$16,649\\ 5,508\\ -1,960\\ \hline 341\\ \hline 20,538\\ 8,074\\ 16,921\\ -26.48 \end{array} $

Table 15. - Costs, Returns, and Financial Summary by Size and Type of Farm, Northern Illinois, 1961

	HOG	HOG FARMS WITH SOIL RATING 76-100					HOG FARMS WITH SOIL RATING 56-75				
Range in size (total acres) Number of farms	Under 180 63	180-259 79	260-339 43	340-499 45	500 + 16	Under 180 30	180-259 40	260-339 38	340-499 40	500 + 20	
COSTS AND RETURNS PER TILLABLE ACRE Soil fertility Buildings and fence Machinery and equipment Labor Feed and grain returns	\$ 4.73 10.46 28.85 22.95 72.25	\$ 5.59 8.35 26.21 17.94 73.64	\$ 5.26 7.31 25.01 18.14 73.96	7.74 23.67 17.24	9.07 23.35 14.43	\$ 5.29 10.48 26.55 22.31 64.89	\$ 6.40 7.42 25.06 18.47 67.57	7.63 24.98 17.04	\$ 6.48 8.34 23.04 16.94 67.97	\$ 6.66 7.51 22.10 14.22 68.63	
Total value of farm production Total non-feed costs Management returns	$ \begin{array}{r} 129.38 \\ 115.88 \\ \overline{13.50} \end{array} $	$\frac{118.18}{103.10}$ $\frac{15.08}{10}$	$ \begin{array}{r} & 113.82 \\ 100.52 \\ 13.30 \end{array} $	97.63	97.73	$\frac{117.15}{106.99}\\ 10.16$	$ \frac{114.12}{95.22} \\ \overline{18.90} $	94.73		99.95 88.06 11.89	
SELECTED COST ITEMS Fertilizer, annual applications Lime and rock phosphate depreciation. Building repairs and maintenance. Building depreciation. Machinery and equipment depreciation. Machinery repairs and supplies. Machinery hire. Gasoline and oil. Hired labor cost. Unpaid labor charge. Total months of labor. Months of labor hired.		\$ 918 212 472 1,214 1,831 1,166 536 979 718 2,905 16.6 3.1	\$ 1,220 158 597 1,319 2,088 1,732 573 1,260 1,868 2,885 20.8 7.4	\$ 2,016 299 922 1,811 2,840 2,187 782 1,538 3,008 3,079 26.1 11.8	\$ 3,642 409 1,925 2,536 3,405 3,448 1,010 2,286 3,701 3,400 30.8 15.0	\$ 649 55 448 946 1,151 744 388 639 276 2,691 13.9 1.4	\$ 1,059 125 435 937 1,475 1,164 416 876 698 2,720 15.6 3.0	\$ 1,463 195 698 1,165 1,998 1,386 792 1,114 1,348 2,809 18.0 5.0	\$ 1,807 227 1,052 1,567 2,514 1,858 610 1,422 2,079 3,241 23.9 8.8	\$ 2,804 275 932 2,539 3,781 2,391 1,028 1,866 2,951 3,617 28.4 11.6	
FARM INVESTMENT Livestock inventory Grain inventory.	\$10,185 7,224	\$13,129 10,147	\$17,209 13,046	\$20,596 17,328	\$29,427 19,495	\$ 8,772 5,927	\$10,465 7,759	\$16,657 10,362	\$18,997 10,990	\$29,372 20,095	
Remaining capital cost in: Machinery Buildings and fence Soil fertility. Auto Value of land (current basis) Total farm investment Total farm investment per acre	354 570 65,280	6,384 14,417 489 718 90,613 135,897 609.40	$\begin{array}{r} 8,102\\ 17,103\\ 375\\ 634\\ \underline{119,163}\\ 175,632\\ 595.36\end{array}$	9,898 21,406 713 809 <u>159,151</u> 229,901 583.50	$12,96429,097770932227,191\overline{319,876}526.98$	$\begin{array}{r} 4,315\\12,347\\87\\421\\\underline{46,777}\\78,646\\520.83\end{array}$	5,89111,51829052966,815103,267467.27	7,663 13,046 558 647 <u>88,125</u> 137,058 449.37	,	$\begin{array}{r}13,382\\28,950\\1,018\\1,023\\168,392\\\hline\hline262,232\\410.38\end{array}$	
PERCENT OF TILLABLE LAND IN Corn and corn silage Soybeans Wheat Other small grains Diverted acres All hay and pasture crops	54.7 5.3 .7 15.2 5.0 18.7	51.1 10.1 1.6 13.4 5.4 17.6	50.4 9.6 1.9 13.6 6.2 18.2	$53.2 \\ 11.7 \\ 1.7 \\ 11.7 \\ 5.3 \\ 15.9$	52.8 11.2 3.6 9.7 7.0 13.4	51.1 6.0 1.5 18.3 3.4 19.0	$52.2 \\ 9.7 \\ 4.7 \\ 12.5 \\ 4.1 \\ 16.5$	50.0 10.8 4.0 11.5 4.7 18.8	$45.2 \\ 14.6 \\ 6.4 \\ 11.3 \\ 4.6 \\ 17.4$	$\begin{array}{c} 49.0 \\ 11.0 \\ 2.8 \\ 9.3 \\ 8.4 \\ 19.0 \end{array}$	
CROP YIELDS, bushels per acre Corn Soybeans Oats Wheat	96.6 34.4 70.9 51.1	96.2 35.6 69.2 46.4	97.1 35.3 69.7 48.2	98.2 33.9 71.1 49.1	98.3 35.0 71.6 40.6	88.6 31.0 62.5 34.8	89.1 30.6 57.6 39.3	90.4 28.8 65.6 42.6	90.3 30.5 56.2 41.8		

Table 15a. — Operating Costs, Investment, and Land Use by Size and Type of Farm, Northern Illinois, 1961

-	GRA	IN FARMS	S WITH SO	IL RATING	G 5-55	HOG FARMS WITH SOIL RATING 5-55					
Range in size (total acres) Number of farms	Under 180 12	180-259 38	260-339 66	340-499 70	500 + 43	Under 180 32	180-259 45	260-339 33	340-499 32	500 + 10	
Size of farm Acres of tillable land Soil rating on tillable land Hens, number Dairy cows, number. Beef produced, hundredweight Pork produced, hundredweight	$ \begin{array}{r} 145 \\ 135 \\ 32 \\ 43 \\ .2 \\ 38 \\ 108 \\ \end{array} $	222 200 40 77 .6 60 179	30225734601.966226	$\begin{array}{r} 414\\ 344\\ 33\\ 68\\ 2.0\\ 114\\ 250\end{array}$	714 554 32 53 173 336	$ \begin{array}{r} 139 \\ 116 \\ 32 \\ 97 \\ 2.1 \\ 42 \\ 817 \\ \end{array} $	$214 \\ 178 \\ 35 \\ 154 \\ 2.0 \\ 98 \\ 796$	$292 \\ 230 \\ 34 \\ 74 \\ 1.4 \\ 137 \\ 1,160$	397 290 35 66 .7 187 1,316	633 435 32 40 .2 516 1,375	
DOLLAR COSTS PER FARM Soil fertility. Buildings and fence. Machinery and equipment. Labor. Taxes. Seed and crop expense. Livestock and miscellaneous expense. Interest charge on capital. Total non-feed costs. Total value of feed fed.	\$ 1,078 477 2,630 2,059 417 330 186 1,530 8,707 2,123	\$ 1,174 759 3,949 3,022 703 543 331 2,509 12,990 3,139	\$ 1,627 898 4,220 3,205 858 590 299 2,882 14,579 3,915	\$ 2,295 1,106 5,794 3,619 1,175 813 344 3,859 19,005 5,286	\$ 3,603 1,431 8,179 4,892 1,652 1,307 489 5,948 27,501 6,517	$ \begin{array}{c} \$ \ 1,007 \\ 843 \\ 3,292 \\ 3,207 \\ 480 \\ 345 \\ 748 \\ 1,796 \\ \hline 11,718 \\ 9,611 \end{array} $		\$ 1,835 1,405 5,745 3,864 890 568 832 <u>3,321</u> 18,460 14,591	\$ 2,256 1,599 6,603 4,464 985 858 866 <u>3,949</u> 21,580 16,664	\$ 3,227 2,099 8,143 5,549 1,698 932 747 5,850 28,245 21,064	
DOLLAR RETURNS PER FARM Other cash income. \$ Feed and grain returns. \$ Livestock returns above feed cost. \$ Total value of farm production. \$ Management returns. \$ Farm production per \$1.00 of non-feed costs. \$ Farm production per man. \$	$\begin{array}{c} 338\\ 8,157\\ 901\\ \hline 9,396\\ 689\\ 1.08\\ 11,054\end{array}$	\$ 655 13,177 <u>1,696</u> <u>15,528</u> 2,538 1.20 12,424	\$ 569 15,345 2,202 18,116 3,537 1.24 13,673	\$ 872 20,810 2,356 24,038 5,033 1.26 15,850	\$ 1,445 31,717 2,668 35,830 8,329 1.30 17,549	$\begin{array}{c} \$ & 308 \\ 7,088 \\ 6,437 \\ 13,833 \\ 2,115 \\ 10,573 \\ 10,573 \\ \end{array}$	\$ 593 11,611 <u>6,173</u> <u>18,377</u> 3,976 1.28				
FINANCIAL SUMMARY Cash sales of products and services\$ Sales of capital items Total cash income	10,665	\$17,035 <u>130</u> <u>17,165</u> 1,783	\$18,389 238 18,627 1,365	\$27,114 73 27,187 3,637	\$38,318 202 38,520 3,562	$ \begin{array}{r} 10,573 \\ \$20,781 \\ \underline{301} \\ 21,082 \\ 2,434 \end{array} $	$ \begin{array}{r} 12,746 \\ \$25,105 \\ \underline{24} \\ \overline{25,129} \\ 2,882 \end{array} $	14,449 \$33,004 <u>119</u> <u>33,123</u> 3,399	$15,726$ $38,759$ 36 $\overline{38,795}$ $3,810$	$ \begin{array}{r} 18,067 \\ \$49,357 \\ \underline{210} \\ \overline{49,567} \\ 7,250 \end{array} $	
Purchased feed. Cash operating expenses. Purchase of capital items. Total cash expenditures.	922 3,777 1,408 7,972	$1,4065,5272,628\overline{11,344}$	$ 1,464 \\ 6,432 \\ 2,987 \\ \overline{12,248} $	2,516 8,944 3,623 18,720	2,490 13,646 5,023 24,721	6,869 5,541 2,723 17,567	5,937 6,746 <u>3,162</u> 18,727	9,169 9,456 4,060 26,084	$ \begin{array}{r} 10,414 \\ 11,169 \\ 4,317 \\ \overline{29,710} \end{array} $	$ \begin{array}{r} 10,198 \\ 13,848 \\ 5,310 \\ \overline{36,606} \end{array} $	
Cash balance\$ Inventory change Capital change Farm products consumed Farm and family earnings Labor and management earnings Capital and management earnings per acre	$2,696 \\ 1,364 \\ -103 \\ 154 \\ \overline{4,111} \\ 2,306 \\ 2,219 \\ 15.30$	\$ 5,821 1,524 222 <u>160</u> 7,727 4,870 5,047 22.73	\$ 6,379 2,386 186 170 9,121 5,892 6,419 21.25	\$ 8,467 2,864 163 213 11,707 7,394 8,892 21.48	\$13,799 3,350 120 214 17,483 10,654 14,277 20.00	$\begin{array}{c} \$ \ \ 3,515 \\ 2,133 \\ 811 \\ \hline 221 \\ \hline 6,680 \\ 4,446 \\ 3,911 \\ 28.14 \end{array}$	$ \begin{array}{c} \$ \ \ 6,402 \\ 1,822 \\ 879 \\ \underline{268} \\ \overline{9,371} \\ 6,323 \\ 6,513 \\ 30.43 \end{array} $	$ \begin{tabular}{lllllllllllllllllllllllllllllllllll$			

Table 16. - Costs, Returns, and Financial Summary by Size and Type of Farm, Southern Illinois, 1961

	GRA	IN FARMS	WITH SO	L RATING	G 5-55	HO	G FARMS	WITH SOIL	RATING	5-55
Range in size (total acres) Number of farms		180-259 38	260-339 66	340-499 70	500 + 43	Under 180 32	180-259 45	260-339 33	340-499 32	500 + 10
COSTS AND RETURNS PER TILLABLE ACRE Soil fertility Buildings and fence Machinery and equipment Labor Feed and grain returns	\$ 7.98 3.53 19.48 15.25 60.42	\$ 5.87 3.80 19.74 15.11 65.88	$3.49 \\ 16.42 \\ 12.47$	\$ 6.67 3.22 16.84 10.52 60.49	$2.58 \\ 14.76 \\ 8.83$	\$ 8.68 7.27 28.38 27.65 61.10	\$ 7.80 6.25 23.72 19.32 65.23	$ \begin{array}{r} 6.11 \\ 24.98 \\ 16.80 \end{array} $	\$ 7.78 5.51 22.77 15.39 62.51	\$ 7.4 4.8 18.7 12.7 59.8
Total value of farm production Total non-feed costs Management returns	$ \begin{array}{r} 69.60 \\ 64.50 \\ \overline{5.10} \end{array} $	$ \begin{array}{r} 77.64 \\ \underline{64.95} \\ \overline{12.69} \end{array} $	56.73	$69.88 \\ 55.25 \\ 14.63$	49.64	$\frac{119.25}{101.02}\\ \hline 18.23$	$ \begin{array}{r} 103.24 \\ \underline{80.90} \\ \overline{22.34} \end{array} $		$\frac{98.52}{74.41}$	$ \begin{array}{r} 92.4 \\ 64.9 \\ \overline{27.4} \end{array} $
SELECTED COST ITEMS Fertilizer, annual applications Lime and rock phosphate depreciation. Building repairs and maintenance. Building depreciation. Machinery and equipment depreciation. Machinery repairs and supplies. Machinery hire. Gasoline and oil. Hired labor cost. Unpaid labor charge. Total months of labor Months of labor hired.	\$ 982 96 168 309 983 458 316 454 167 1,892 10.2 .8	\$ 985 189 308 451 1,450 868 337 761 342 2,680 15.0 1.6	\$ 1,369 258 330 568 1,584 931 296 878 503 2,702 15.9 2.4	\$ 2,007 288 460 646 2,261 1,458 360 1,119 804 2,815 18.2 4.1	\$ 3,216 387 543 888 3,197 2,069 454 1,751 1,686 3,206 24.5 8.5	\$ 898 109 444 399 948 839 409 508 438 2,769 15.7 1.9	\$ 1,195 193 509 603 1,316 1,008 532 788 582 2,858 17.3 3.0	\$ 1,633 202 622 783 1,820 1,506 660 1,101 1,183 2,681 19.1 5.7	\$ 1,989 267 757 842 2,255 1,740 643 1,249 1,579 2,885 21.8 7.4	2,748 479 739 1,360 2,896 2,115 642 1,550 1,989 3,560 26.7 8.9
FARM INVESTMENT Livestock inventory Grain inventory	\$ 1,334 3,580	\$ 3,228 4,186	\$ 3,572 5,067	\$ 5,858 6,914	\$ 8,457 10,355	\$ 6,113 4,112	\$ 7,894 5,257	\$11,094 6,270	\$13,193 6,502	\$18,369 11,134
Remaining capital cost in: Machinery Buildings and fence Soil fertility. Auto Value of land (current basis) Total farm investment.	$\left. \begin{array}{c} 7,780 \\ \underline{22,381} \\ 35,075 \end{array} \right.$	11,659 38,878 57,951	13,308 $\frac{44,618}{66,565}$	16,724 59,618 89,114	24,087 <u>95,074</u> 137,973	9,697 <u>20,015</u> <u>39,937</u>	11,630 <u>32,462</u> 57,243	15,062 <u>42,500</u> 74,926	17,955 51,624 89,274	26,365 <u>76,422</u> 132,290
Total farm investment per acre. PERCENT OF TILLABLE LAND IN Corn and corn silage. Soybeans. Wheat. Other small grains. Diverted acres. All hay and pasture crops.	241.90 24.7 38.3 12.1 3.1 12.5 7.4	261.04 30.2 28.6 18.8 2.5 10.2 8.9	$220.41 \\ 26.2 \\ 35.1 \\ 14.7 \\ 3.3 \\ 9.6 \\ 9.3$	215.25 26.5 33.4 16.4 1.7 8.6 9.8	193.24 24.6 31.5 13.4 3.3 9.7 15.5	287.32 39.7 16.2 13.8 2.8 9.4 17.8	$\begin{array}{r} 38.4\\ 24.7\\ 13.7\\ 4.8\\ 4.4\\ 13.0 \end{array}$	$\begin{array}{r} 34.8\\21.5\\14.2\\4.6\\6.9\\17.4\end{array}$	$\begin{array}{r} 224.87\\ 34.7\\ 22.1\\ 14.5\\ 5.3\\ 6.0\\ 16.5\end{array}$	208.99 29.0 24.0 17.0 2.4 8.0 18.6
CROP YIELDS, bushels per acre Corn Soybeans Oats Wheat	84.4 26.9 38.0	80.6 28.9 58.5 37.2	76.9 26.9 44.0 35.5		81.0 27.1 57.9 35.5	83.7 30.0 69.6 36.2	82.6 28.8 46.8 35.1	83.6 27.2 45.9 34.2	82.3 28.4 57.3 36.6	86.4 28.3 47.8 36.0

Table 16a. — Operating Costs, Investment, and Land Use by Size and Type of Farm, Southern Illinois, 1961

-]	DAIRY FAI	RMS, NORT SOIL RA	THERN ILL ATING OF	INOIS, WI	ГН	DAIR	Y FARMS, SO	SOUTHERN IL RATINO	N ILLINOIS G OF	, WITH
	76-100	56-75	76-100	56-75	56-100	56-100	36-55	5-35	5-55	5-55	5-55
Range in size (total acres) Number of farms	Und 24	er 180 47	23 180	0-259 36	260-339 26	340-499 19	Und 16	er 180 27	180-259 35	260-339 22	340-499 18
Size of farm Acres of tillable land Soil rating on tillable land Hens, number Dairy cows, number Beef produced, hundredweight Pork produced, hundredweight	152 139 82 120 28.2 120	146 126 66 91 29.3 	$221 \\ 197 \\ 82 \\ 80 \\ 42.8 \\ 4 \\ 145$	$211 \\ 174 \\ 64 \\ 106 \\ 35.8 \\ 29 \\ 306$	292 251 71 102 45.5 13 302	$389 \\ 352 \\ 72 \\ 151 \\ 45.6 \\ 64 \\ 300$	$ \begin{array}{r} 139 \\ 110 \\ 44 \\ 80 \\ 29.9 \\ \dots \\ 89 \end{array} $	$ \begin{array}{r} 142 \\ 124 \\ 27 \\ 171 \\ 26.7 \\ \\ 59 \\ \end{array} $	$217 \\ 174 \\ 32 \\ 103 \\ 33.2 \\ 5 \\ 149$	292 240 30 70 32.6	408 321 33 52 46. 14
DOLLAR COSTS PER FARM Soil fertility Buildings and fence. Machinery and equipment. Labor. Taxes. Seed and crop expense. Livestock and miscellaneous expense. Interest charge on capital. Total non-feed costs. Total value of feed fed.	1,410 4,770 3,959 1,014 548 1,042 4,281	$\begin{array}{c} \$ & 617 \\ 1,636 \\ 4,446 \\ 3,429 \\ 985 \\ 462 \\ 916 \\ 3,600 \\ \hline 16,091 \\ 9,528 \end{array}$	\$ 1,138 2,203 6,653 4,842 1,640 750 1,506 <u>6,260</u> 24,992 13,036	\$ 879 2,340 5,894 4,211 1,315 555 1,098 4,907 21,199 12,461	\$ 1,391 2,618 7,117 5,768 1,634 878 1,568 <u>6,954</u> 27,928 15,574	\$ 2,011 3,207 8,934 6,781 2,297 1,266 1,606 9,140 35,242 17,081	$\begin{array}{c} \$ & 724 \\ 1,010 \\ 4,288 \\ 3,741 \\ 552 \\ 355 \\ 848 \\ 2,234 \\ \hline 13,752 \\ 8,076 \end{array}$	\$ 704 1,025 4,176 3,726 497 327 702 1,931 13,088 7,372	\$ 1,353 1,518 5,653 4,011 741 500 890 2,911 17,577 9,882	\$ 1,397 1,373 5,862 4,259 997 501 872 3,243 18,504 9,215	$\begin{array}{c} 210\\ \$ \ 2,074\\ 1,927\\ 7,686\\ 6,430\\ 1,179\\ 785\\ 1,271\\ \underline{4,855}\\ 26,207\\ 13,920 \end{array}$
DOLLAR RETURNS PER FARM Other cash income Feed and grain returns Livestock returns above feed cost Total value of farm production Management returns Farm production per \$1.00	$ \begin{array}{r} 10,098 \\ \overline{7,721} \\ \overline{18,474} \\ \overline{741} \end{array} $	\$ 517 8,095 <u>7,704</u> <u>16,316</u> 225	\$ 659 14,602 <u>11,924</u> 27,185 2,193	\$ 950 11,416 9,866 22,232 1,033	\$ 1,119 15,956 <u>11,321</u> 28,396 468	\$ 792 22,353 <u>13,366</u> <u>36,511</u> 1,269	\$ 435 7,404 7,569 15,408 1,656	\$ 433 7,292 6,780 14,505 1,417	\$ 612 10,665 9,084 20,361 2,784	\$ 636 13,062 8,181 21,879 3,375	\$ 957 17,990 <u>12,981</u> <u>31,928</u> 5,721
of non-feed costs Farm production per man	1.04 12,385	1.01 12,238	1.09 14,694	1.05 13,542	1.02 12,956	$\begin{smallmatrix}1.04\\15,056\end{smallmatrix}$	$\overset{1.12}{9,433}$	1.11 9,380	1.16 12,278	1.18 12,115	1. 12,857
FINANCIAL SUMMARY Cash sales of products and services \$ Sales of capital items Total cash income Purchased livestock Purchased feed Cash operating expenses	$ \begin{array}{r} 26 \\ \overline{22,478} \\ 1,238 \\ 3,510 \end{array} $	\$19,218 43 19,261 706 2,690 6,566	\$31,443 989 32,432 1,005 3,953	\$26,323 <u>6</u> <u>26,329</u> 1,764 3,600	34,281 446 34,727 2,221 4,836	\$42,396 59 42,455 3,812 4,700	\$18,298 7 18,305 842 3,499	\$16,486 <u>6</u> 16,492 855 3,010	\$24,128 203 24,331 1,299 4,243	\$24,223 66 24,289 796 3,629	\$35,800 <u>150</u> 35,950 1,699 5,220
Purchase of capital items Fotal cash expenditures	7,440 2,885 15,073	6,566 2,871 12,833	$ \begin{array}{r} 10,975 \\ 4,595 \\ \overline{20,528} \end{array} $	9,028 4,010 18,402	$\frac{12,571}{4,176}$ $\frac{23,804}{23}$	$ \begin{array}{r} 16,693 \\ 5,388 \\ \overline{30,593} \end{array} $	6,051 3,261 13,653	5,560 3,031 12,456	7,877 4,826 18,245	8,795 3,890 17,110	$ \begin{array}{r} 3,220 \\ 13,176 \\ \underline{6,480} \\ \overline{26,575} \end{array} $
Cash balance Inventory change Capital change Farm products consumed	504 -277 266	\$ 6,428 168 -192 326	\$11,904 427 -875 273	\$ 7,927 972 1 301	\$10,923 766 -820 406	\$11,862 2,246 -804 381		\$ 4,036 1,576 532 307	\$ 6,086 1,386 1,128 389	\$ 7,179 1,681 466 401	\$ 9,375 2,696 1,954
Farm and family earnings Labor and management earnings Capital and management earnings Capital and management earnings	7,898 3,294 5,022	6,730 2,732 3,825	11,729 4,754 8,453	9,201 3,571 5,940	11,275 3,044 7,422	13,685 3,838 10,409	6,934 3,875 3,890	6,451 3,802 3,348	8,989 5,185 5,695	$\frac{401}{9,727}$ 5,557 6,618	$\frac{351}{14,376}\\8,121\\10,576$
per acre	33.04	26.20	38.25	28.15	25.42	26.76	27.98	23.58	26.24	22.66	25.

Table 17. — Costs, Returns, and Financial Summary by Size and Type of Farm, Northern and Southern Illinois, 1961

	D	AIRY FAF		HERN ILL TING OF	INOIS, WIT	Ϋ́Η	DAIRY	7 FARMS, SO	SOUTHERN IL RATING	ILLINOIS OF	, WITH
	76-100	56-75	76-100	56-75	56-100	56-100	36-55	5-35	5-55	5-55	5-55
Range in size (total acres) Number of farms	Unde 24	er 180 47	180 23)-259 36	260-339 26	340-499 19	Unde 16	er 180 27	180-259 35	260-339 22	340-499 18
COSTS AND RETURNS PER TILLABLE ACRE Soil fertility	$\begin{array}{c} \$ & 5.10 \\ 10.14 \\ 34.32 \\ 28.48 \\ 72.65 \\ 132.91 \\ 127.58 \\ \hline 5.33 \end{array}$	$\begin{array}{c}\$ & 4.90\\12.98\\35.29\\27.21\\64.25\\129.49\\127.71\\\hline1.78\end{array}$	$ \begin{array}{c} 11.18\\ 33.77\\ 24.58\\ 74.12\\ 137.99\\ 126.86\\ \end{array} $	$\begin{array}{c} 13.45\\ 33.87\\ 24.20\\ 65.61\\ 127.77\\ 121.83\end{array}$	$ \begin{array}{r} 10.43\\ 28.35\\ 22.98\\ 63.57\\ 113.13\\ 111.26\\ \end{array} $	9.11 25.38 19.26 63.50 103.72 100.12	$\begin{array}{c} \$ & 6.58\\ 9.18\\ 38.98\\ 34.01\\ 67.31\\ 140.07\\ \underline{125.02}\\ 15.05 \end{array}$	$\begin{array}{c} \$ & 5.68 \\ 8.27 \\ 33.68 \\ 30.05 \\ 58.81 \\ 116.98 \\ 105.55 \\ \hline 11.43 \end{array}$	8.72 32.49 23.05 61.29 117.02 101.02	5.72 24.42 17.74 54.42 91.16 77.10	6.00 23.94 20.03 56.04 99.46 81.64
SELECTED COST ITEMS Fertilizer, annual applications	\$ 561 148 318 1,092 1,656 1,058 490 728 1,083 2,876 17.9 4.5	\$ 548 69 556 1,080 1,595 889 322 680 524 2,905 16.0 2.5	992 146 608 1,595 2,499 1,463 564 1,121 1,566 3,276 22.2 7.0	\$ 748 131 821 1,519 2,134 1,387 495 933 950 3,261 19.7 4.5	\$ 1,306 85 849 1,769 2,415 1,731 634 1,123 1,915 3,853 26.3 8.4	\$ 1,850 161 913 2,294 3,293 2,031 832 1,396 3,505 3,276 29.1 13.9	\$ 638 86 339 671 1,480 963 366 722 697 3,044 19.6 4.4	\$ 594 110 381 644 1,555 959 386 583 623 3,103 18.5 3.0	\$ 1,131 222 502 1,016 2,086 1,404 547 852 717 3,294 19.9 3.4	<pre>\$ 1,147 250 578 795 2,093 1,472 462 1,000 1,150 3,109 21.6 6.1</pre>	\$ 1,755 319 750 1,177 2,693 1,937 695 1,299 2,630 3,800 29.8 10.8
FARM INVESTMENT Livestock inventory	\$ 7,968 6,949	\$ 9,539 4,826	\$13,559 9,507	\$11,804 7,310	\$16,164 8,850	\$17,766 13,642	\$ 6,945 3,436	\$ 6,840 2,765	\$ 9,210 4,431	\$ 9,051 5,952	\$14,705 6,954
Machinery Buildings and fence Soil fertility Auto Value of land (current basis) Total farm investment Total farm investment per acre	271 708 62,196	6,281 14,572 154 809 44,778 80,959 554.51	9,26721,16935864788,363142,870646.47	8,21421,44229452060,705110,289522.70	$ \begin{array}{r}10,386\\25,903\\208\\862\\95,893\\\overline{158,266}\\542.01\end{array} $	12,580 29,208 358 839 135,503 209,896 539.58	$\left.\right\}_{\substack{14,768\\ \underline{24,429}\\ 49,578\\ 356.68}}$	$ \begin{array}{r} 14,613 \\ \underline{18,001} \\ 42,219 \\ 297.32 \end{array} $	20,850 <u>29,657</u> <u>64,148</u> 295.61	19,455 <u>38,007</u> 72,465 248.17	29,225 <u>57,759</u> 108,643 266.28
PERCENT OF TILLABLE LAND IN Corn and corn silage Soybeans Wheat Other small grains Diverted acres All hay and pasture crops	37.8 10.8 .9 13.5 6.2 28.6	$34.9 \\ 1.3 \\ 1.1 \\ 16.8 \\ 3.2 \\ 42.1$	$\begin{array}{r} 42.9 \\ 5.2 \\ 1.8 \\ 13.5 \\ 5.1 \\ 30.2 \end{array}$	36.9 4.6 1.3 14.8 5.7 35.5	$37.8 \\ 7.8 \\ 1.6 \\ 12.3 \\ 7.5 \\ 31.3$	39.37.51.516.67.726.9	$30.1 \\ 12.0 \\ 14.0 \\ 2.8 \\ 4.1 \\ 36.1$	29.7 11.5 13.7 3.8 2.4 38.6	32.414.212.85.94.628.6	$24.3 \\ 18.5 \\ 14.3 \\ 3.2 \\ 6.4 \\ 32.5$	$27.0 \\ 17.5 \\ 14.1 \\ 2.5 \\ 6.3 \\ 29.1$
CROP YIELDS, bushels per acre Corn Soybeans Oats Wheat	92.4 32.1 68.8 42.8	92.2 24.1 63.9 47.5	92.9 32.6 72.0 48.4	90.6 28.8 63.2 49.2		77.6 27.5 66.6 49.1	78.8 33.4 39.0 37.2	77.226.344.033.2	78.326.143.637.5	79.3 26.1 57.0 34.0	$76.2 \\ 24.5 \\ 44.7 \\ 34.1$

Table 17a. - Operating Costs, Investment, and Land Use by Size and Type of Farm, Northern and Southern Illinois, 1961

	BEEF CATTLE FARMS, NORTHERN ILLINOIS SOIL RATING 56-100					BEEF CATTLE FARMS, SOUTHERN ILLINOIS, SOIL RATING 5-55		POULTRY FARMS NORTHERN ILL. SOUTHERN ILL. SOIL RATING 56-100 SOIL RATING 3-55		
Range in size (total acres) Number of farms	28	180-259 50	260-339 56	340-499 56	500 + 53	Under 260 18	260-499 23	Under 180 15	180-259 11	Under 260 14
Size of farm. Acres of tillable land. Soil rating on tillable land. Hens, number. Dairy cows, number. Beef produced, hundredweight. Pork produced, hundredweight.	$\begin{array}{c}143\\77\\78\\\end{array}$	213 194 79 72 733 454	$300 \\ 264 \\ 77 \\ 64 \\ .2 \\ 990 \\ 605$	$\begin{array}{r} 416\\ 365\\ 75\\ 75\\ .5\\ 1,255\\ 702\end{array}$	$\begin{array}{r} 664\\ 565\\ 76\\ 13\\ 1,630\\ 898\end{array}$	$ \begin{array}{r} 200 \\ 159 \\ 31 \\ 123 \\ 303 \\ 265 \end{array} $	$363 \\ 286 \\ 34 \\ 133 \\ .1 \\ 633 \\ 689$	154 144 81 2,608 2.6 19	225 203 82 3,238 5.1 44	$163 \\ 136 \\ 30 \\ 1,370 \\ .1 \\ 84 \\ .1$
DOLLAR COSTS PER FARM Soil fertility. Buildings and fence. Machinery and equipment. Labor. Taxes. Seed and crop expense. Livestock and miscellaneous expense. Interest charge on capital. Total non-feed costs. Fotal value of feed fed.	1,454 4,115 2,959 1,147 566 537 4,631 16,100	\$ 1,067 2,296 5,432 3,487 1,399 814 761 6,538 21,794 18,130	\$ 1,583 2,684 6,502 4,361 1,984 975 836 8,416 27,341 24,675	\$ 2,462 3,321 8,884 5,745 2,582 1,425 1,149 <u>11,037</u> <u>36,605</u> 30,533		$\begin{array}{c} \$ \ 1,372 \\ 903 \\ 3,949 \\ 3,455 \\ 739 \\ 425 \\ 425 \\ 2,433 \\ \hline 13,701 \\ 8,742 \end{array}$		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	201 \$ 762 1,880 5,518 4,203 1,454 588 961 5,983 21,349 16,313	$ \begin{array}{r} 174\\ \$ 856\\ 851\\ 3,408\\ 3,084\\ 497\\ 429\\ 544\\ \underline{1,866}\\ 11,535\\ 11,535\\ \end{array} $
DOLLAR RETURNS PER FARM Other cash income	$ \begin{array}{r} 10,780 \\ \underline{4,020} \\ 15,246 \\ -854 \end{array} $	\$ 646 14,978 <u>4,698</u> 20,322 -1,472 .93	\$ 776 20,951 <u>6,224</u> 27,951 610 1.02	\$ 985 28,201 <u>8,362</u> 37,548 943 1.02	$\begin{array}{c} \$ \ 1,535\\ 43,284\\ 9,155\\ \overline{53,974}\\ 2,168\\ 2 \qquad 1.04 \end{array}$	\$ 509 9,688 3,382 13,579 -122	\$ 1,099 19,028 7,849 27,976 5,776 1,26	\$ 413 10,997 <u>5,576</u> 16,986 -169	\$ 526 13,722 9,298 23,546 2,197	8,118 \$ 401 7,934 <u>3,753</u> 12,088 553
Farm production per man	\$33,976 <u>16</u> <u>33,992</u> 13,702 <u>4,820</u> 6,055	15,337 $$47,921$ 442 $48,363$ $21,359$ $7,134$ $8,573$	$ \begin{array}{r} 17,201 \\ \$63,831 \\ \underline{344} \\ \overline{64,175} \\ 28,550 \\ 9,657 \\ 11,618 \\ \end{array} $	$17,740$ $\$87,907$ 570 $\overline{88,477}$ 40,743 11,165 16,170	19,867 \$113,862 <u>367</u> 114,229 50,443 14,728 23,706	9,474 \$25,575 356 25,931 12,427 3,407 6,062	$ \begin{array}{r} 16,457\\ \$52,001\\ \hline 9\\ \hline 52,010\\ 21,171\\ 9,018\\ 11,073\\ \end{array} $	12,428 \$28,509 9 28,518 3,640 9,330 6,601	$ \begin{array}{r} 1.10\\ 14,490\\ \$41,541\\ \underline{61}\\ 41,602\\ 3,909\\ 10,669\\ 9,205\\ \end{array} $	$ \begin{array}{r} 1.05\\9,122\\ \$18,219\\\underline{98}\\\overline{18,317}\\1,660\\5,455\\4,914 \end{array} $
arm and family earnings		$\begin{array}{r} 3,337\\ \hline 40,403\\ \$ 7,960\\ 675\\ -1,014\\ \underline{219}\\ 7,840\\ 1,098\\ 5,066\\ \underline{23},78\end{array}$	$\begin{array}{r} 3,814\\ \overline{53,639}\\ \$10,536\\ 1,987\\ -942\\ 340\\ \overline{11,921}\\ 3,144\\ 9,026\\ 30.09 \end{array}$	$\begin{array}{r} 7,522\\ \hline 75,600\\ \$12,877\\ 1,189\\ 771\\ \underline{360}\\ 15,197\\ 3,480\\ 11,980\\ \underline{28,80} \end{array}$	8,886 97,763 \$16,466 4,899 797 384 22,546 4,744 18,688 28,14	$\begin{array}{r} 2,771\\ \hline 24,667\\ \$ 1,264\\ 3,596\\ 31\\ \hline 242\\ \hline 5,133\\ 2,166\\ 2,311\\ \hline 11,56\end{array}$	$\begin{array}{r} \underline{4,617} \\ \overline{45,879} \\ \$ & 6,131 \\ 5,847 \\ 780 \\ \underline{317} \\ 13,075 \\ \$,150 \\ 10,414 \\ 28,69 \end{array}$	$\begin{array}{r} 3,872\\ \hline 23,443\\ \$ 5,075\\ 1,308\\ \hline 703\\ \hline 139\\ \hline 7,225\\ 2,354\\ 4,229\\ 27,46\end{array}$	$\begin{array}{c} 2,407\\ \hline 26,190\\ \$15,412\\ \hline -3,680\\ -1,059\\ \hline 263\\ \hline 10,936\\ 4,699\\ \$,180\\ 36,36\end{array}$	2,309 14,338 \$ 3,979 768 320 216 5,283 2,853 2,419

Table 18. — Costs, Returns, and Financial Summary by Size and Type of Farm, Northern and Southern Illinois, 1961

	BEEF (ARMS, NOP RATING	RTHERN II 56-100	LINOIS	BEEF CATTLE FARMS, SOUTHERN ILLINOIS, SOIL RATING 5-55		POULTRY FARMS NORTHERN ILL. SOUTHERN ILL. SOIL RATING 56-100 SOIL RATING 5-55		
Range in size (total acres) Number of farms	Under 180 28	180-259 50	260-339 56	340-499 56	500 + 53	Under 260 18	260-499 23	Under 180 15	180-259 11	Under 260 14
COSTS AND RETURNS PER TILLABLE ACRE Soil fertility. Buildings and fence. Machinery and equipment. Labor. Feed and grain returns.	\$ 4.83 10.17 28.78 20.69 75.38	\$ 5.50 11.84 28.00 17.97 77.21	\$ 6.00 10.17 24.63 16.52 79.36	$9.10 \\ 24.34 \\ 15.74$	7.57 20.75 13.66	\$ 8.63 5.68 24.84 21.73 60.93	5.7423.5514.7566.53	\$ 4.25 14.77 29.65 25.49 76.37	\$ 3.75 9.26 27.18 20.71 67.60	$\begin{array}{r} 6.26 \\ 25.06 \\ 22.68 \\ 58.34 \end{array}$
Total value of farm production	$\frac{106.62}{112.59} \\ -5.97$	$ \begin{array}{r} 104.75 \\ 112.34 \\ \overline{} -7.59 \end{array} $	$\frac{105.88}{103.57}$	100.29	91.69	$\frac{85.40}{86.17} \\77$	$ 97.82 \\ 77.62 \\ \overline{20.20} $	$ \begin{array}{r} 117.96 \\ 119.13 \\ -1.17 \end{array} $	$ \begin{array}{r} 115.99 \\ 105.17 \\ \overline{10.82} \end{array} $	$\frac{88.88}{84.81}\\ \hline 4.07$
SELECTED COST ITEMS Fertilizer, annual applications Lime and rock phosphate depreciation Building repairs and maintenance Building depreciation Machinery and equipment depreciation Machinery repairs and supplies Machinery hire Gasoline and oil Hired labor cost. Unpaid labor charge Total months of labor Months of labor hired		\$ 931 136 664 1,632 1,879 1,248 390 1,047 713 2,774 15.9 3.0		\$ 2,205 257 922 2,399 3,210 2,129 696 1,799 2,528 3,217 25.4 10.4	\$ 3,903 332 1,368 2,908 4,114 3,078 1,011 2,264 3,863 3,858 32.6 14.7	\$ 1,183 189 370 533 1,486 829 420 711 633 2,822 17.2 3.1		\$ 494 118 556 1,571 1,274 985 483 706 675 2,996 16.4 2.5	\$ 593 169 413 1,467 1,521 1,290 694 966 1,447 2,756 19.5 6.7	
FARM INVESTMENT Livestock inventory Grain inventory	\$16,584 8,401	\$24,355 11,182	\$32,831 15,105	\$43,147 18,171	\$60,365 29,299	\$11,339 4,998	\$22,216 8,743	\$ 5,473 7,036	\$10,378 10,272	\$ 5,227 3,242
Remaining capital cost in: Machinery Buildings and fence Soil fertility Auto Value of land (current basis) Total farm investment Total farm investment per acre	5,138 13,888 268 650 59,624	7,477 20,343 336 809 82,828 147,330 691.69	$\begin{array}{r} 8,071\\ 22,102\\ 370\\ 747\\ \underline{111,372}\\ 190,598\\ 635.33\end{array}$	$\begin{array}{r} 12,471\\27,014\\593\\971\\147,976\\\overline{250,343}\\601.79\end{array}$	$ \begin{array}{r} 15,231\\37,172\\763\\1,003\\\underline{233,202}\\377,035\\567.82\end{array} $	$\left.\right\}_{\substack{11,476\\\underline{26,073}\\53,886\\269.43}}$	$20,481$ $\frac{51,651}{103,091}$ 284.00	$5,167 \\ 18,460 \\ 286 \\ 433 \\ 63,874 \\ 100,729 \\ 654.08$	$\begin{array}{r} 6,175\\17,783\\342\\705\\92,510\\\hline138,165\\614.07\end{array}$	$ \begin{cases} 11,349 \\ \underline{21,872} \\ 41,690 \\ 255.77 \end{cases} $
PERCENT OF TILLABLE LAND IN Corn and corn silage Soybeans Wheat Other small grains Diverted acres All hay and pasture crops	$52.1 \\ 4.7 \\ .7 \\ 15.3 \\ 4.0 \\ 22.7$	54.5 5.8 9 13.0 6.9 17.4	55.1 4.5 .6 13.7 6.3 18.0	$53.3 \\ 9.3 \\ 2.5 \\ 11.4 \\ 4.4 \\ 18.1$	53.4 9.5 3.3 8.3 7.1 16.5	$32.7 \\ 11.9 \\ 14.4 \\ 2.9 \\ 6.6 \\ 28.8$	32.9 16.5 16.5 3.7 7.9 21.9	$\begin{array}{c} 45.0\\ 21.1\\ 2.2\\ 10.7\\ 8.4\\ 10.4 \end{array}$	$\begin{array}{c} 44.7 \\ 17.2 \\ 1.2 \\ 10.7 \\ 9.2 \\ 13.7 \end{array}$	$28.4 \\ 25.3 \\ 16.1 \\ 4.9 \\ 6.2 \\ 18.6$
CROP YIELDS, bushels per acre Corn Soybeans Oats Wheat	98.3 35.4 71.6 50.6	$97.4 \\ 34.0 \\ 70.4 \\ 46.0$	99.5 33.8 69.0 44.7	96.0 33.1 71.9 44.3	95.9 30.5 69.5 45.9	87.1 28.4 34.0 36.9	94.528.848.640.1	92.0 30.3 62.8 49.9	90.6 28.2 62.9 47.8	81.8 25.8 50.0 32.8

Table 18a. - Operating Costs, Investment, and Land Use by Size and Type of Farm, Northern and Southern Illinois, 1961

Cooperation between the state and local Farm Bureau Farm Management Associations and the University of Illinois College of Agriculture makes this report possible. The information is for 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 cooperating in this service.

The Farm Bureau Farm Management Service is supported throughout Illinois by fees paid by farmers. By participating in this program each farmer-cooperator increases his chances for successful farm operation and contributes to the improvement of Illinois agriculture.

The records show a high level of net income for family living on well-organized and competently managed farms. In 1961 in McLean County the earnings of the 33 high-earning tenants on all-rented farms averaged \$9,704 labor and management earnings. The 28 low-earning tenants averaged \$3,242. Adequate records are part of the necessary foundation for successful farm planning, management, and operation.

We hope that this 37th Annual Report will be used to contribute to more profitable farm operation and a desirable level of family living.

Harold G. Halcrow, Head Department of Agricultural Economics

NORTHEASTERN BLACKHAWK . 77 50 65 56 95 33 N. C. Specht C. M. Roodhouse Don Muehling 004 **Glenn Bevington** 43 60 10450 × 67 152 11 ILLINOIS VALLEY 101 55 G. F. Hulslander LAJALLE 66 R. D. Geschwind ACE ISLAND 39 Don Thompson 130 158 Dean Hawkins 52 WESTERN 60 **Orville** Dickhaut 67 58 54 PIONEER **Byron Wright** 10.80 97 218 K. W. Amstutz Thomas Jennings 39 55 125 Arthur Pille T. E. Swigart 96 H. Robinson L. D. Schroll -195 R. Kesler 50 253 116 33 70 Willis Janssen 85 53 10 EASTERN 71 10 200 130 ASS 50 44 J. W. Dieker 12 103 SANGAMON VALLEY 93 Boyd Henry Donald G. Clampet 11 E 85 C. E. Botterbusch 42 95 26 EAST CENTRAL 47 G. W. Shafer 85 57 R D Gustafson MONTG 51 41 -Warren Berner 105 89 **Ronald Fowler** Trases 55 65 80+0 14 35 37 LINCOLN-30 55 RICHLI J. Harold Boyd 29 31 20 Ed Thurn 24 50 Floyd M. Fuller SHAWNEE C. Bennett Roodhouse 11 Kenneth Cook 37 31 M. Gummersheimer **Charles Wargel** 8 19 20 20 ALINE LIAN 18 15 . 5

ASSOCIATIONS, FIELDMEN, AND COOPERATORS ENROLLED

Prepared by A. G. Mueller and D. F. Wilken, of the Department of Agricultural Economics. The cooperation of 33 fieldmen in the Farm Bureau Farm Management Service and the 5,638 farmers who kept records in 1961 is gratefully acknowledged.

Urbana, Illinois

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