

FARM FINANCIAL
RECORD STUDIES

1934

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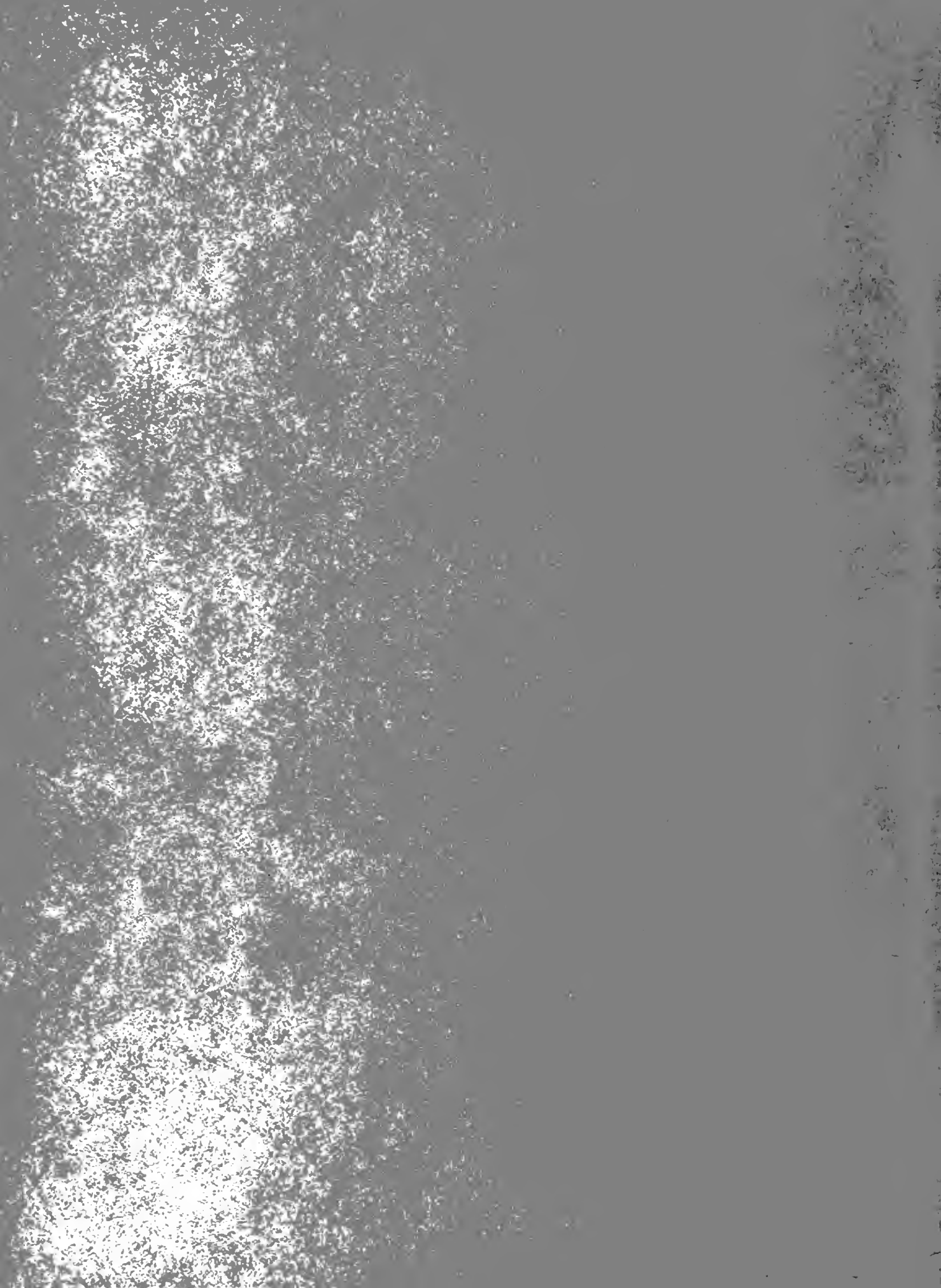
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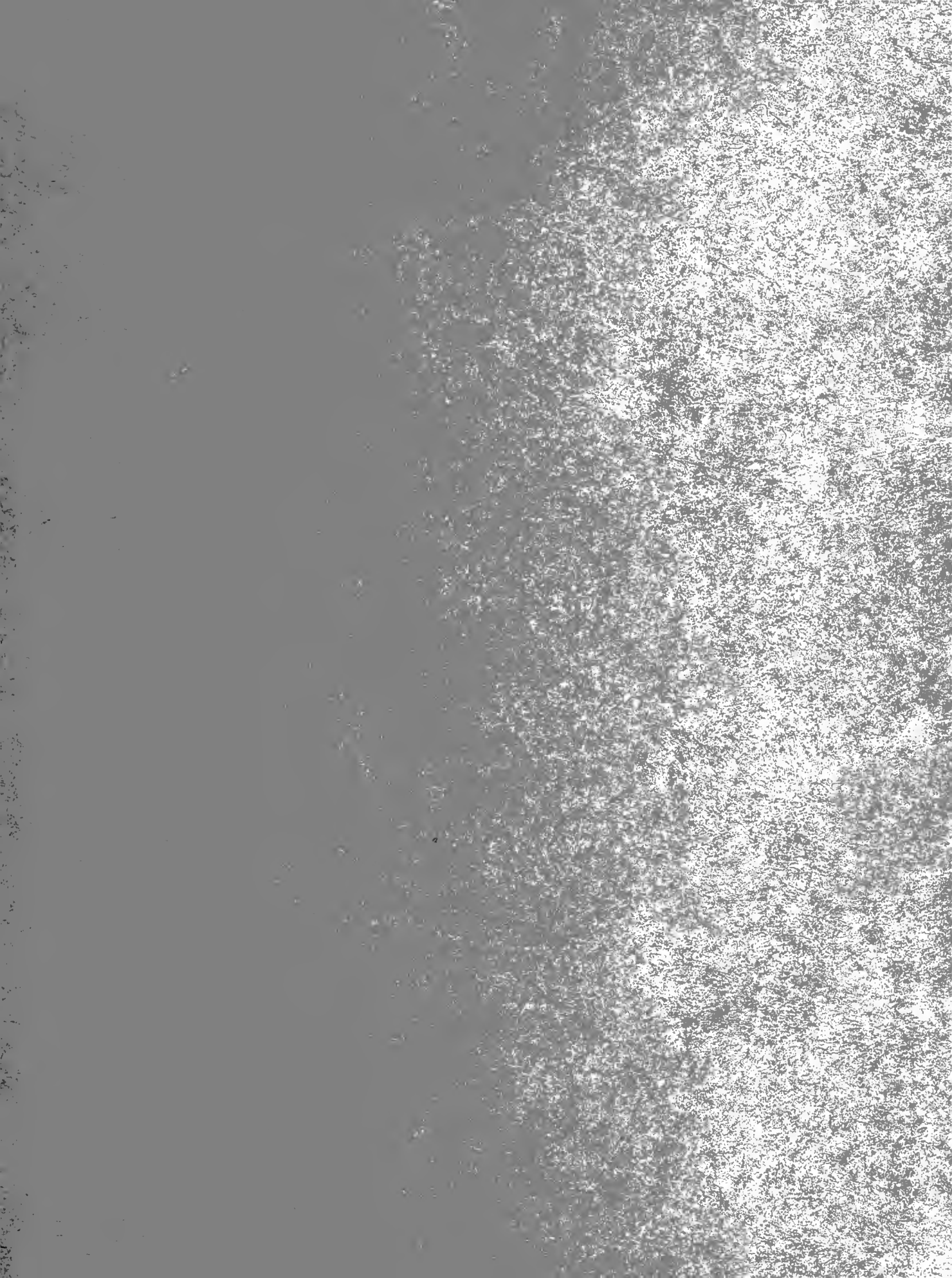
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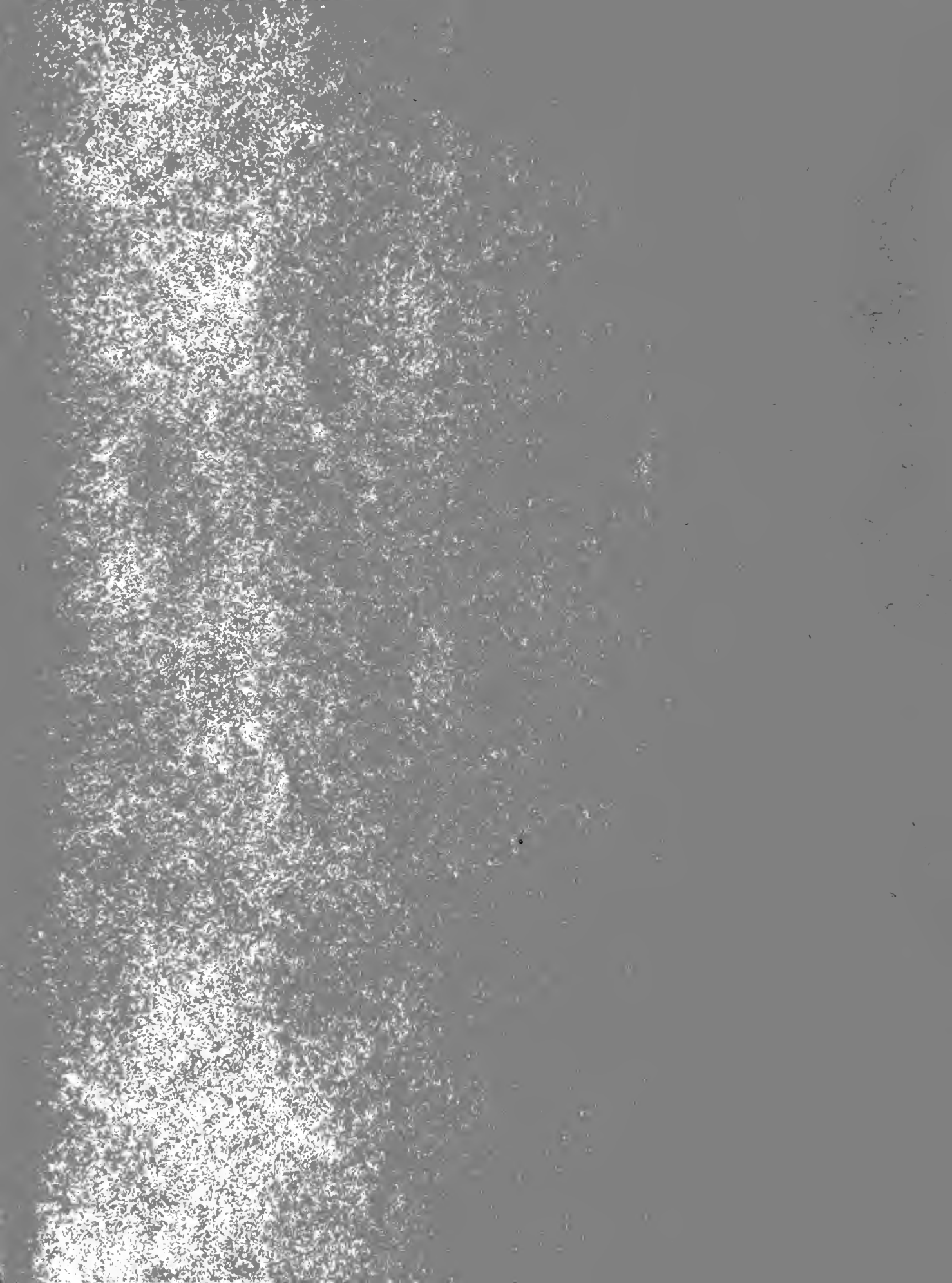
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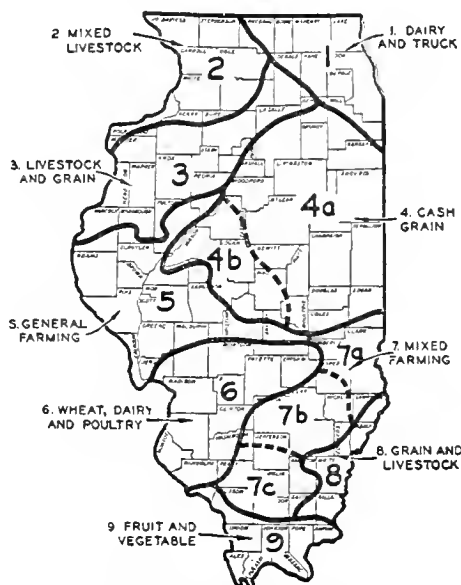






Summary of Annual Farm Business Reports on One Thousand Five Hundred Forty-Eight Farms

For the Year 1934



The Nine Major Type-of-Farming
Areas in Illinois

Department of Agricultural Economics
College of Agriculture and Agricultural Extension Service
University of Illinois, Urbana
July, 1935

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SUMMARY OF FARM BUSINESS REPORTS
ON
ONE THOUSAND FIVE HUNDRED FORTY-EIGHT FARMS IN ILLINOIS
FOR 1934

P. E. Johnston and J. B. Andrews

Net cash farm incomes^{1/} were higher in Illinois in 1934 than in 1933. This was the second year of improvement, since the low of 1932, for all type-of-farming areas of the state except the Chicago dairy area. The cash farm incomes increased to the 1930 level for six of nine of these areas (Figure 1).

Farm earnings increased most in the grain-surplus area of east central Illinois and least in the Chicago dairy area. Area VIII, the Wabash valley area, had the greatest percentage increase in income for the year as the result of very favorable crop yields, while yields were low for most other sections of the corn belt.

The above comparisons are based upon cash incomes less cash expenses and unpaid family labor, which leave out of consideration changes in inventory. Inventory increases were found in all reports, except those for Will, Adams, Pike, Brown, Morgan, Scott, Greene and Jersey counties. These counties represent areas where crop yields were extremely low due to drouth and chinch bug damage. The largest inventory loss was \$307 per farm in Pike and Brown counties. The largest inventory increases were found in DeWitt, Piatt, Logan, Edgar, Douglas, Clark, Coles, Shelby and Moultrie counties and on the higher valued land in the southern Illinois report. The largest increase was \$1,686 per farm for the farms in Shelby and Moultrie counties (Table A).

The increase in net cash farm incomes of the last two years, followed three years of declining incomes from the level which was obtained for the period 1925 to 1929. Several years of better earnings will be necessary to compensate for the excessive losses sustained during the three years of 1930, 1931, and 1932.

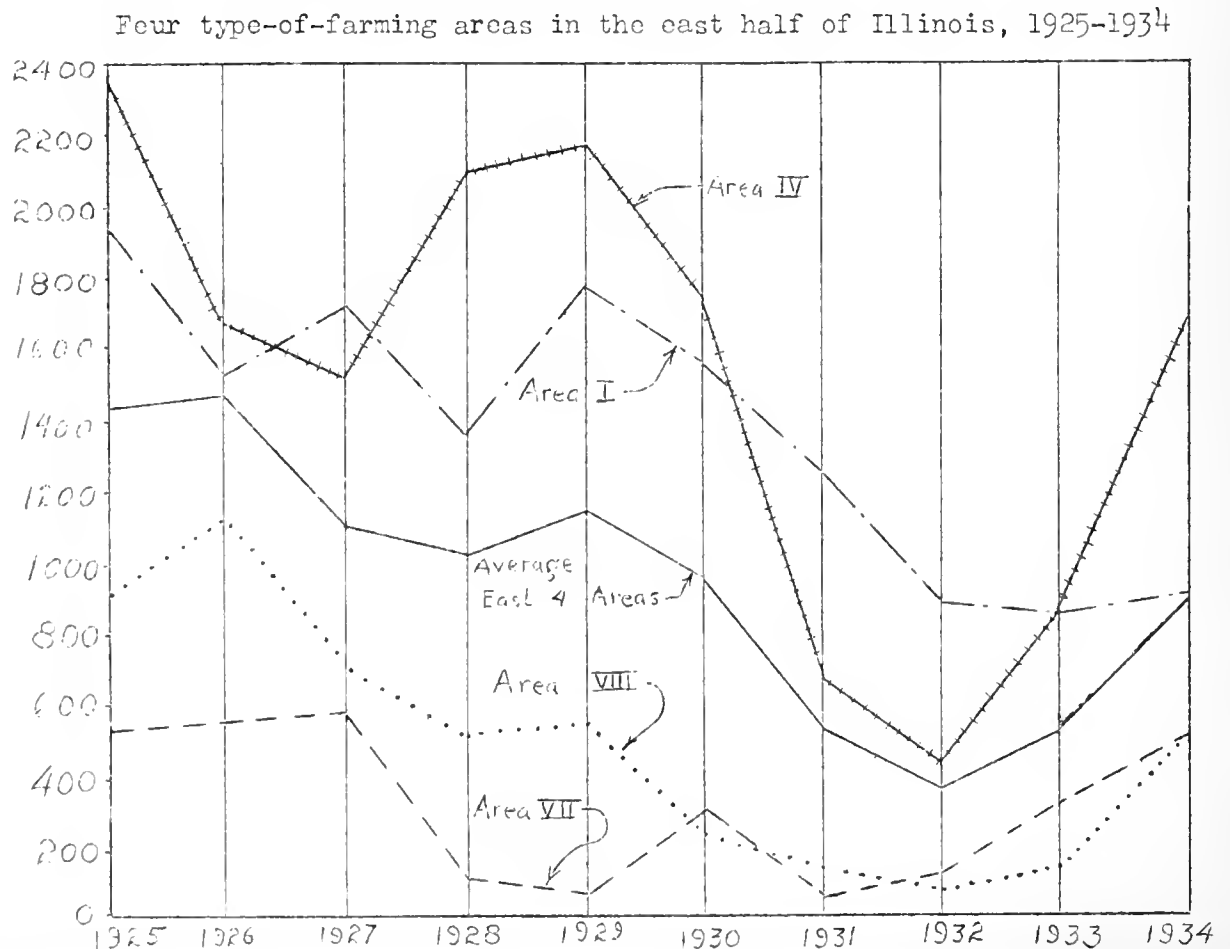
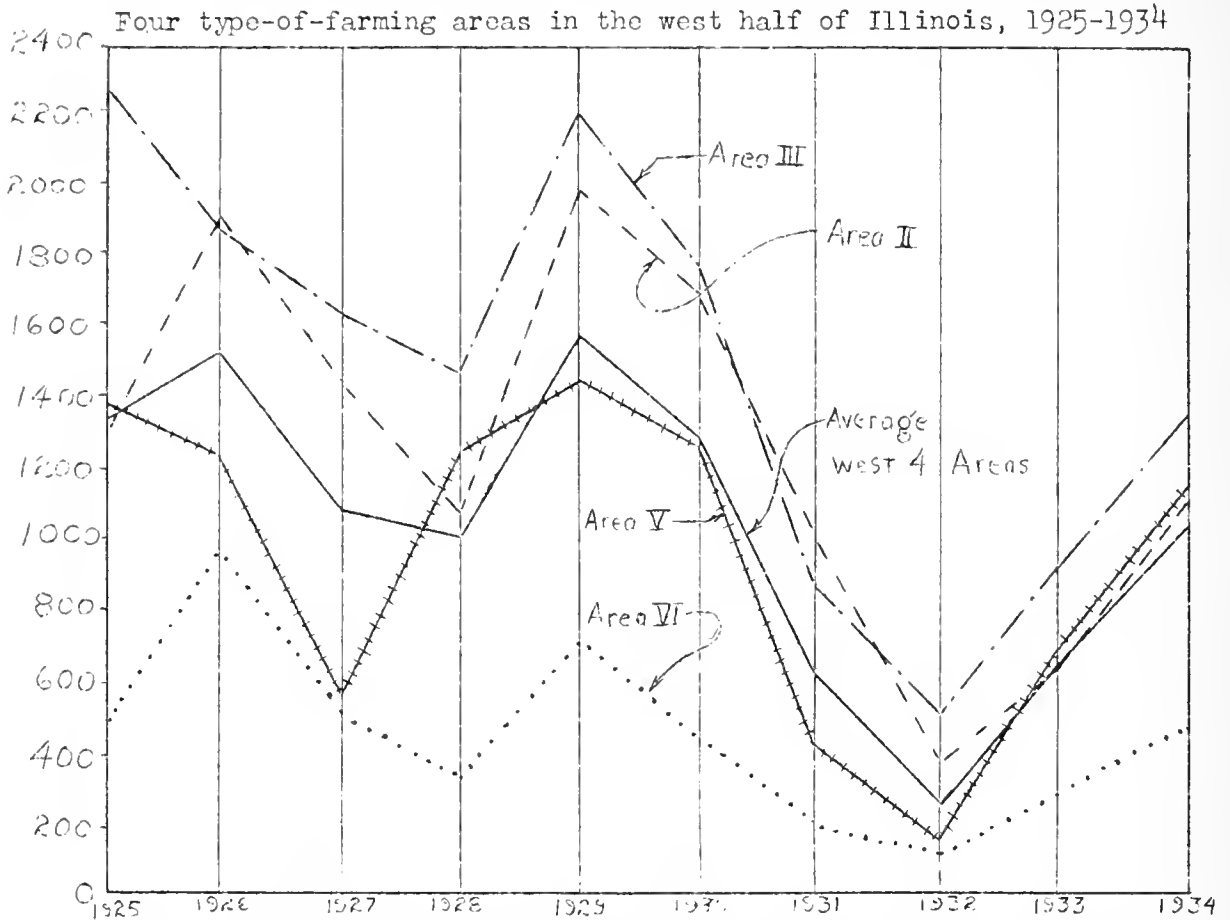
In reading the following tables it should be kept in mind that these data represent only those farms whose operators are progressive and business-like enough to keep accounts and submit them for analysis. Repeated studies have shown that the average farm operator enrolled in this accounting service earns a higher rate of interest on his invested capital than that of the average of the rank and file of all farmers. The difference previous to 1931 has averaged about 2 percent on the entire investment. With these facts in mind, the reader is cautioned against using these data to represent the average Illinois farm.

Farm earnings in 1934 varied widely from farm to farm, and from one section of the state to another. This wide variation in earnings was due to: (1) great differences in crop yields as the result of drouth and chinch bug damage; (2) to the wide deviation from normal in the prices of feeds and grain as compared with the prices of livestock and livestock products (see page 9).

^{1/} Calculated by deducting cash expenses and value of operator and family labor from total cash incomes.

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cont.
1934

FIG. 1.--AVERAGE NET CASH INCOME PER FARM FOR THE FARM-ACCOUNT KEEPERS



Deviation in 1934 Crop Yields from the 10-Year Average

Since farm earnings were so intimately connected with crop yields in 1934 and since the deviation from normal was so extreme maps are included in this report which show, for each county, the 1934 yields for corn, oats, winter wheat, soybeans and tame hay as a percentage of the county 10-year average (1924-1933)^{1/}. (See pages 4 to 8)

Corn yields. Corn yields were extremely low in west central Illinois where there were nine counties that had less than one-fourth of a normal yield. Brown and Adams counties had only 10 percent of a normal yield of corn. Corn yields were also quite low in the section of the state comprised of Kendall, Grundy, and Will counties (Figure 2).

The best corn yields were found in the southeastern part of the state where there were 10 counties having yields higher than normal. The extreme northwestern part of the state was favored with yields ranging from 76 to 96 percent of normal.

Oat Yields. There were 18 counties in western and north central Illinois which had, in 1934, oats that made less than one fourth of a normal yield (Figure 3). The most favored section of the state with respect to oat yields was the southern part, although but few counties had over four fifths of a normal yield.

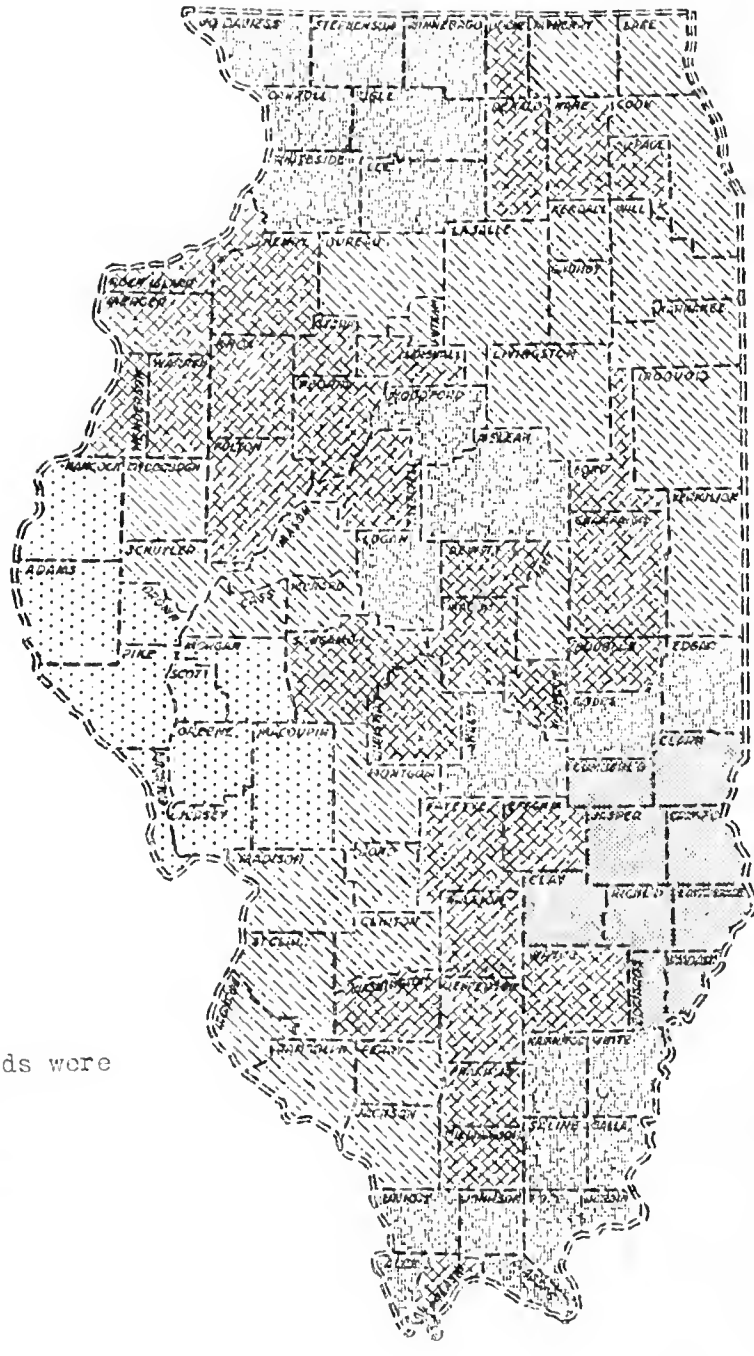
Winter Wheat Yields. Winter wheat yields were above normal in about one-third of the counties in 1934, all of which were located in the southern half of the state (Figure 4). Less than one fourth of a normal yield was harvested in Livingston, LaSalle, Will, Kane, and DuPage counties, where dry weather and chinch bugs did much damage.

Soybean Yields. Soybean yields in 1934 were above average for over half of the counties in the state and were particularly high in those counties that grow the most beans (Figure 5). Soybeans were a high income crop in 1934 since the larger production sold at a good price. Even in the primary drouth area the soybeans produced much better than the corn and oats.

Tame Hay Yields. Hay yields were below average in four fifths of the counties of the state. The better than normal yields were all in the central and southern areas. In central Illinois, the high hay production was due largely to the large percentage of total acreage which was soybean hay. The drouth area of western Illinois had about a 60 percent hay crop (Figure 6).

^{1/} Analysis made from data collected by Illinois Cooperative Crop Reporting Service.

Fig. 2.--1934 Corn Yields (Expressed as a percentage of the 10-year average for each county)



Per cent 1934 yields were
of 10-year average






	0 to 25.9%
	26 to 50.9%
	51 to 75.9%
	76 to 100.9%
	101 + %

Fig. 3.--1934 Oats Yields (Expressed as a percentage of the 10-year average yield for each county)

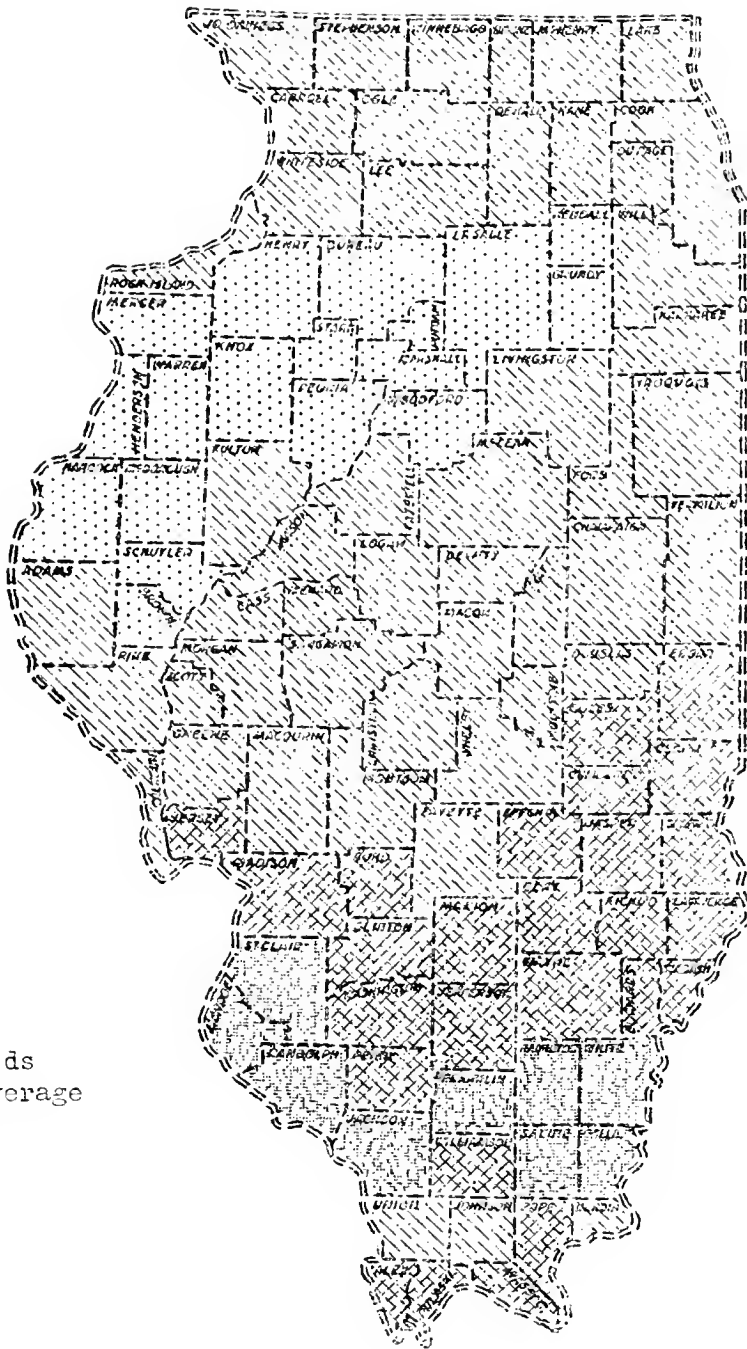


Fig. 4.--1934 Winter Wheat Yields (Expressed as a percentage of the 10-year average yield for each county)

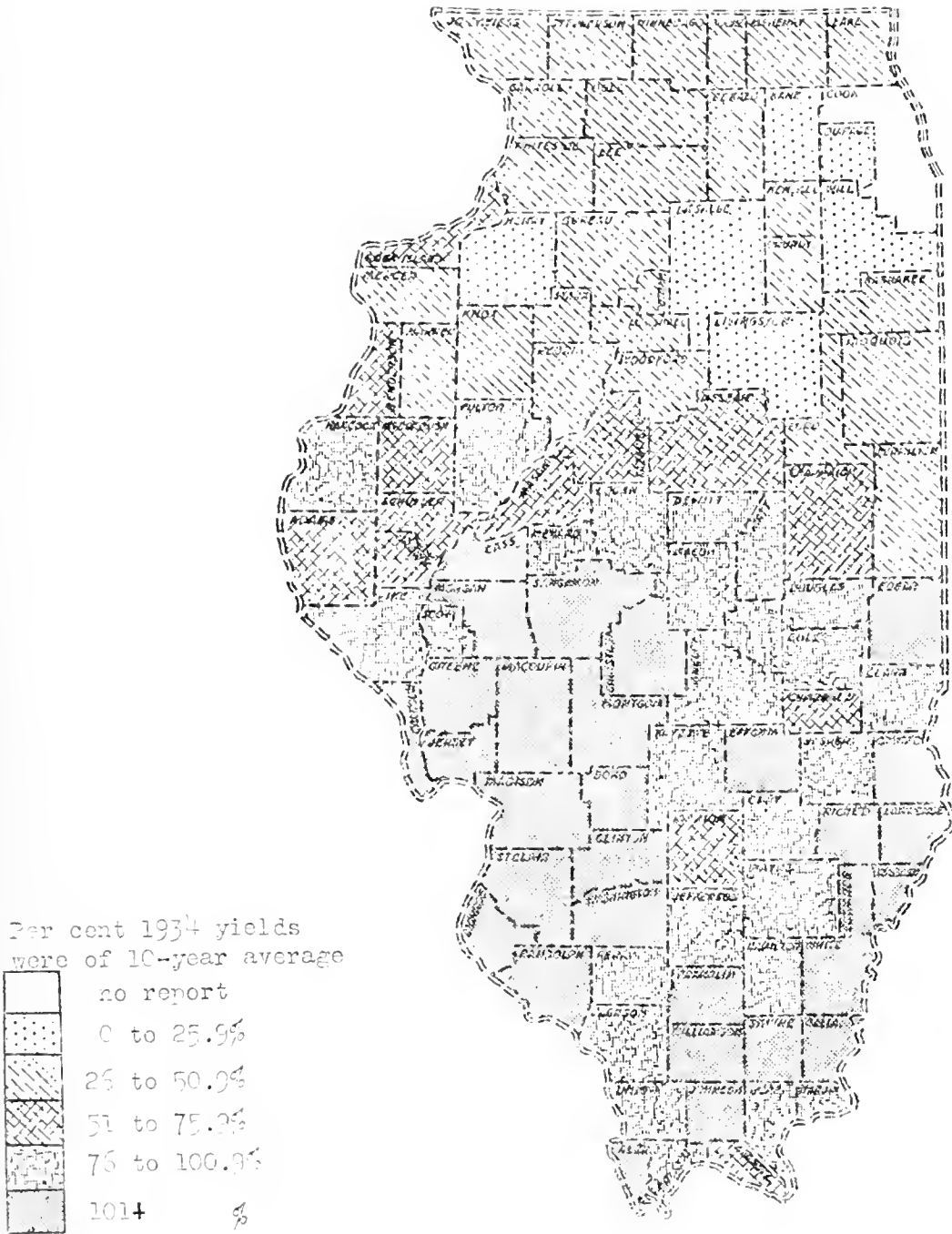
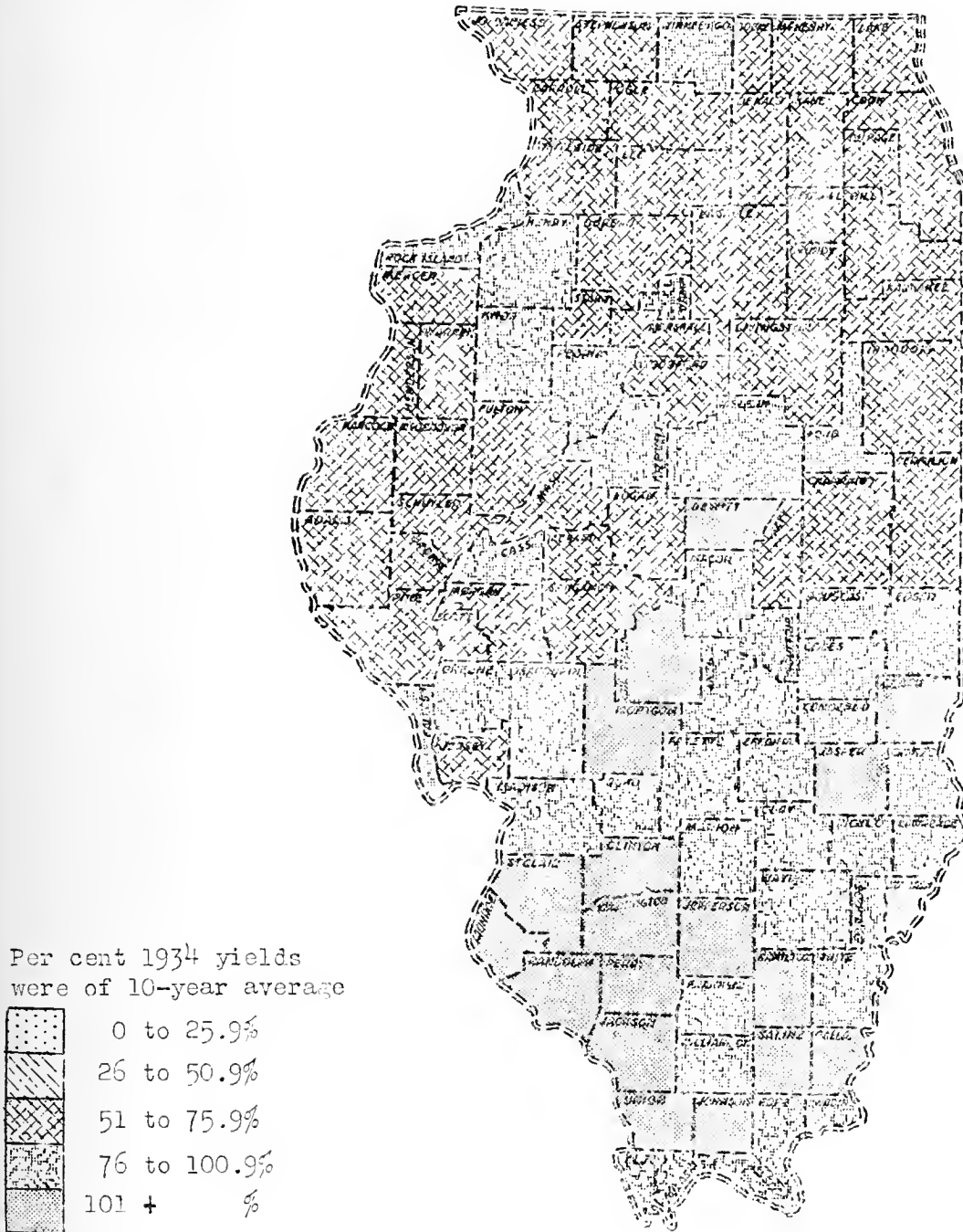


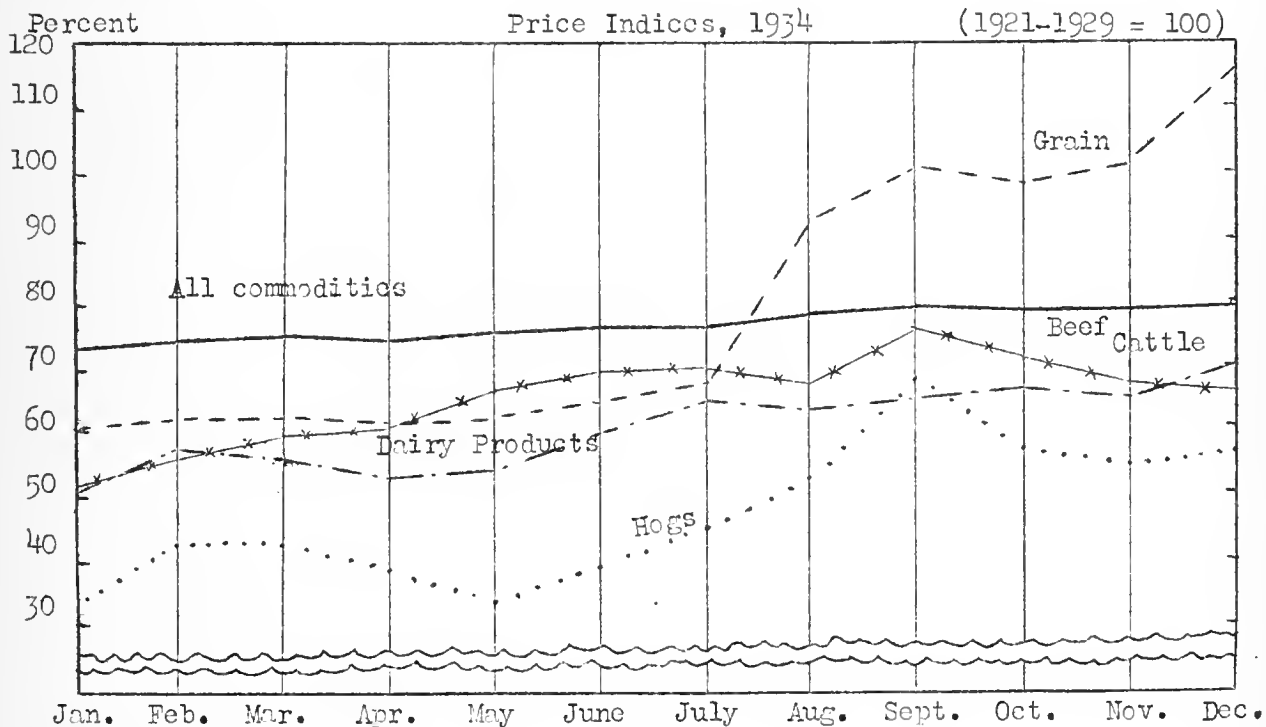
Fig. 5.--1934 Tame Hay Yields (Expressed as a percentage of the 10-year average yield for each county)



Since the price of some farm products advanced much more rapidly during 1934 than other products, it is evident that some farms would benefit more than others, depending upon the kind and quantity of products sold. Grain prices advanced much more rapidly than livestock prices; which resulted in a very bad price ratio for farmers who buy large quantities of feed. The average Illinois farm price of corn was 41 cents a bushel in January, 1934; it advanced steadily until the end of the year when it was 88 cents a bushel. Other grains made marked advance although not so great an advance as corn. The price of hogs fluctuated from a low of \$3.20 a hundred in May to a high of \$6.30 in September. The low point in the fall came in November when the average price was \$5.10. The price has advanced quite rapidly since November, the average price being \$7.50 for February, 1935. Beef cattle were worth \$4.10 a hundred in January, 1934 and advanced each month until September, when the price was \$5.90. They dropped to \$5.20 in December but increased again to \$7.40 for February, 1935.

The year 1934 set a record for the reduction in the numbers of livestock. The percentage decreases by species were as follows: horses, 1.1 percent; mules, 2.6 percent; all cattle, 11.2 percent; sheep, 4.7 percent; hogs, 35.3 percent. When all species are combined on the basis of their capacity to consume feed, the reduction was 13 percent. This reduction will greatly reduce the demand for feeds produced in 1935.

The relative change in prices of important commodities may be noted in the following graph, which shows the average Illinois farm prices by months as a percentage of the average prices for the period 1921-1929.



All commodities index represents the wholesale price of a large number of commodities for the United States, as computed by Bureau of Labor Statistics.

Grain and livestock indices represent average monthly farm prices in Illinois.

It is quite evident that the price situation favored those areas that had large quantities of grain to sell and worked a hardship on areas such as the Chicago dairy area where larger than normal feed purchases were necessary because of low yields, and where the price of the chief livestock products (dairy) advanced but little. This combination of circumstances explains the low net cash income for Area I as compared with the other areas of the state. The beef cattle feeders fared better than the dairy men, since beef cattle prices advanced enough during the year to give many feeders a large price spread.

Net Income per Acre by Counties

The combined influence of all factors on farm earnings can be most readily measured by a comparison of the average net income per acre.^{1/}

Net earnings were lowest in the Adams, Brown, Pike area and highest in the central part of the state (Figure 7). The area most favored however, as compared with the average for the last 10 years was the Christian, Shelby, Clark area and the Wabash Valley area, where there was a combination of good to fair crop yields for corn, wheat and soybeans. In these areas there was also a high percentage of these crops sold for cash. The area showing the lowest net income as compared with normal was Area I, the Chicago dairy section.

Variations in Cash Farm Expenditures

As farm incomes declined since 1929, farmers have reduced their cash expenditures. A part of this reduction has been due to the declining price level, but in part at least farmers have done without things which they needed, both for the farm and for the family. In Area IV for instance farmers spent only 45 percent as much to run their business in 1933 as they spent in 1929, while in 1934 they spent 55 percent as much.

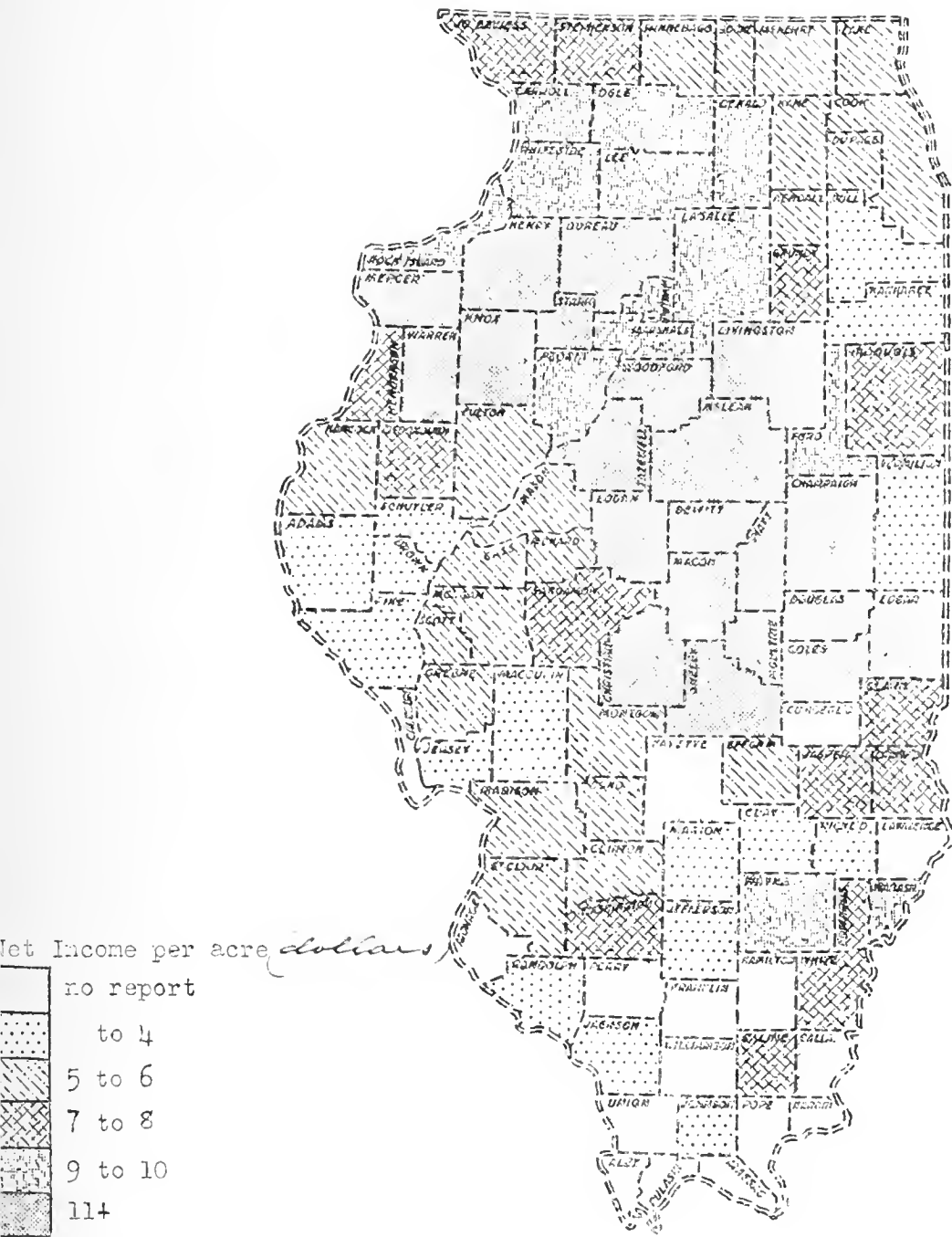
Table 1.--Cash farm expenditures per 100 acres of land in farms for account keepers in type-of-farming area IV, 1929, 1933 and 1934

Cash Farm Expenditures	1929	1933		1934	
		\$	% of 1929	\$	% of 1929
Improvements	\$143	\$ 38	27.6	\$ 52	36.4
Machinery	353	149	42.2	194	55.0
Labor	210	83	39.5	88	41.9
Livestock purchases	297	111	37.3	140	47.1
Feeds	132	79	45.4	144	79.1
Taxes	130	138	76.6	117	65.0
Miscellaneous (crop expense, livestock expense, etc.)	143	74	51.7	94	65.7
Total	\$1 508	\$672	44.8	\$829	55.0

^{1/} The net income per acre figures used in this comparison include inventory changes.

Fig. 7.-- Average Net income per acre for management, the use of capital and risk for account keepers - 1934

The wide range in farm incomes was due to abnormal crop yields and to the unusual price relationships which existed during the latter half of the year between grain and livestock products.



This increase in expenditures, particularly for improvements and machinery, may be expected to continue if cash incomes improve, since farmers have not been maintaining the condition of either buildings or machinery during the low income period.

AAA BENEFIT PAYMENTS RECEIVED BY
ILLINOIS ACCOUNT KEEPERS DURING
1934

Table 2.

	Corn	Wheat	Hogs
Number of farms with payments.....	1,423	565	1,372
Total amount received.....	\$153,195	\$75,323	\$201,407
Amount received per farm.....	\$ 108	\$ 133	\$ 147
<hr/>			
Total number of records.....	1,587		
Total benefit payments.....	\$429,925		
Total per farm.....	\$ 271		

Benefit payments averaged \$271 for each of the 1,587 farms having a summarized account book for 1934. All of these farms did not receive benefit payments. Some did not have AAA contracts. Others with contracts had not received payments because of delay for corrections. The payments entered in the book were only those received up to the time the book was closed and in most cases included one payment on corn and hogs and two or three payments on wheat.

Corn Inventories

January 1, 1934.....2,058 bushels
December 31, 1934.....1,027 bushels

The above figures represent the average per farm for all accounting farms.

Since the inventory price of corn at the end of the year was about twice what it was at the beginning, the total value of corn was practically the same at the beginning and end of the year. The low yield counties in the west central part of the state not only raised less corn and other crops, but fed what surplus they had carried into the year to livestock which was relatively low in price as compared with grain.

TABLE A.—SUMMARY, BY AREAS, OF BUSINESS RECORDS FROM 1,548 ILLINOIS FARMS, 1934

Accounting items	Kendall, DuPage, Lake, Cook, Kane	Boone, Winnebago, McHenry	JoDavies, Stephenson	DeKalb	Lee, Whiteside, Ogle	Carroll	Rock Island	Henry, Stark, Bureau
Capital investment, total.....	\$33 619	\$27 243	\$22 819	\$31 093	\$30 452	\$24 577	\$27 848	\$33 950
Land.....	22 090	15 088	13 287	19 401	20 014	16 183	18 151	23 676
Farm improvements.....	5 821	6 430	5 067	5 827	4 837	4 168	4 552	4 739
Machinery and equipment.....	1 818	1 555	1 379	1 510	1 555	1 079	1 561	1 457
Feed and grain.....	1 524	1 538	1 085	1 920	1 809	1 377	1 660	1 998
Livestock, total.....	2 366	2 632	2 001	2 435	2 237	1 770	1 924	2 080
Horses.....	455	397	317	449	400	349	380	395
Cattle.....	1 414	1 797	1 317	1 298	1 362	902	849	1 024
Hogs.....	289	273	221	386	330	383	478	498
Sheep.....	104	71	56	182	60	42	127	99
Poultry.....	104	94	90	120	85	94	90	64
Income, net increases, total.....	\$ 3 383	\$ 3 535	\$ 2 904	\$ 3 678	\$ 3 907	\$ 3 360	\$ 3 408	\$ 4 194
Feed and grain.....	333	.....	278	194	707	170	488	884
Corn and wheat, AAA payments.....	111	76	49	112	113	100	112	138
Labor and miscellaneous.....	70	72	114	111	88	60	76	96
Livestock, total.....	2 869	3 387	2 463	3 261	2 999	3 030	2 732	3 076
Horses.....	.....	12	3	.....	23	38	28	44
Cattle.....	457	561	486	942	1 152	831	570	870
Hogs.....	736	563	743	1 052	920	1 110	1 337	1 403
Hogs, AAA payments.....	103	132	117	145	123	168	181	178
Sheep.....	91	173	64	133	102	52	94	147
Poultry and eggs.....	226	220	212	279	187	251	196	170
Dairy sales.....	1 256	1 726	838	710	492	580	326	264
Expenses, net decreases, total.....	\$ 1 407	\$ 1 550	\$ 852	\$ 1 338	\$ 1 159	\$ 854	\$ 968	\$ 1 138
Farm improvements.....	261	265	169	296	230	200	161	196
Machinery and equipment.....	416	393	266	366	342	228	302	340
Feed and grain.....	.....	130	.....	.....	.....	.....	.....	.....
Crop expense.....	156	155	97	172	119	131	101	122
Hired labor.....	167	294	106	157	181	85	107	184
Taxes.....	313	231	146	255	228	154	231	238
Horses.....	9	.....	.....	12	.....	.....	.....	.....
Livestock and miscellaneous.....	85	82	68	80	59	56	66	58
Income less expense.....	\$ 1 976	\$ 1 985	\$ 2 052	\$ 2 340	\$ 2 748	\$ 2 506	\$ 2 440	\$ 3 056
Total unpaid labor.....	784	648	799	692	659	766	729	683
Net farm income.....	\$ 1 192	\$ 1 337	\$ 1 253	\$ 1 648	\$ 2 089	\$ 1 740	\$ 1 711	\$ 2 373
Rate earned on investment.....	3.54%	4.91%	5.49%	5.30%	6.86%	7.08%	6.14%	6.99%
Labor and management wage.....	\$ 44	\$ 484	\$ 646	\$ 610	\$ 1 084	\$ 1 050	\$ 855	\$ 1 207
Size of farm, acres.....	206.6	211.0	191.9	188.7	205.0	177.9	187.4	211.7
Tillable land.....	85.9%	79.8%	69.1%	91.3%	85.3%	84.4%	83.7%	90.2%
Gross income an acre.....	\$ 16.37	\$ 16.39	\$ 15.13	\$ 19.49	\$ 19.06	\$ 18.89	\$ 18.19	\$ 19.81
Total expense an acre.....	10.60	10.05	8.60	10.76	8.87	9.11	9.06	8.60
Net income an acre.....	5.77	6.34	6.53	8.73	10.19	9.78	9.13	11.21
Acres in—Corn.....	40.0	28.6	25.0	60.5	49.1	35.3	53.5	64.0
Oats.....	36.6	21.0	21.7	29.2	32.2	28.0	21.0	36.5
Wheat.....	4.7	2.9	.....	.....	.....	1.3	3.8	.9
Barley.....	.....	14.6	.....	6.5	.....	.....	.....	.....
Soybeans.....	2.8	.....	.....	5.3	2.0	.....	2.1	6.7
Bushels an acre—Corn.....	18.2	28.1	39.6	27.1	39.6	39.3	35.8	31.3
Oats.....	12.2	15.2	13.2	14.5	10.3	14.9	4.6	4.3
Wheat.....	3.4	.....	.....	.....	.....	24.2	.....	.....
Barley.....	.....	8.8	.....	10.1	.....	.....	.....	.....
Soybeans.....	.....	.....	.....	.....	10.1	.....	.....	15.5
Returns for \$100 of feed.....	\$139	\$138	\$129	\$119	\$129	\$137	\$121	\$130
Returns for \$100 of poultry.....	217	220	226	229	213	249	315	236
Dairy sales from each cow.....	95	100	63	74	59	64	44	43
Returns for each litter.....	88	85	87	104	103	69	93	111
Investment an acre in livestock.....	9.63	11.02	9.33	10.88	9.64	9.04	9.25	8.84
Income an acre from livestock.....	13.89	16.00	12.82	17.28	14.52	16.82	14.43	14.32
Power and machinery cost a crop acre.....	\$ 4.53	\$ 4.94	\$ 4.43	\$ 4.39	\$ 3.96	\$ 3.76	\$ 4.33	\$ 3.44
Labor cost for \$100 gross income.....	27	26	29	22	21	24	23	20
Labor cost an acre.....	6.16	6.93	8.48	5.63	5.76	7.05	6.81	5.54
Expense for \$100 gross income.....	65	61	57	55	47	48	50	43
Excess of sales over expenses.....	\$1 638	\$1 613	\$1 603	\$2 010	\$2 056	\$1 825	\$1 833	\$2 354
Increase in inventory.....	338	372	449	330	692	681	607	702
Value of land an acre.....	\$107	\$ 72	\$ 69	\$103	\$ 98	\$ 91	\$ 97	\$112
Total investment an acre.....	163	129	119	165	149	138	149	160
Number of farms included.....	42	54	43	35	68	30	35	60

(Table is continued on next page)

TABLE A.—SUMMARY, BY AREAS, OF BUSINESS RECORDS FROM 1,548 ILLINOIS FARMS, 1934—Continued

Accounting items	Mercer	Warren, Knox	Hender-son	Peoria, Schuyler, Fulton	McDonough	Hancock	Will	Kankakee, Vermilion
Capital investment, total.....	\$32 948	\$34 554	\$21 277	\$22 960	\$32 758	\$29 557	\$28 926	\$32 222
Land.....	22 801	25 026	14 599	15 630	23 501	21 313	19 362	23 208
Farm improvements.....	4 385	4 224	3 022	3 415	3 758	3 758	4 924	4 326
Machinery and equipment.....	1 322	1 370	931	1 215	1 503	1 301	1 579	1 433
Feed and grain.....	1 852	2 053	1 219	1 113	1 969	1 538	1 396	1 861
Livestock, total.....	2 588	1 881	1 506	1 587	2 027	1 647	1 665	1 394
Horses.....	419	457	322	413	348	394	370	485
Cattle.....	1 395	865	654	630	1 025	720	1 065	631
Hogs.....	615	462	384	425	542	415	138	168
Sheep.....	92	35	92	46	34	54	8	16
Poultry.....	67	62	54	73	78	64	84	94
Income, net increases, total.....	\$ 4 600	\$ 4 386	\$ 3 168	\$ 2 638	\$ 3 821	\$ 3 188	\$ 2 640	\$ 3 047
Feed and grain.....	.....	1 218	925	433	93	350	401	1 301
Corn and wheat, AAA payments.....	128	182	123	105	172	126	185	164
Labor and miscellaneous.....	101	71	72	97	56	71	61	81
Livestock, total.....	4 371	2 915	2 048	2 003	3 500	2 641	1 993	1 501
Horses.....	40	31	42	34	44	15	16	10
Cattle.....	1 396	917	442	309	999	503	328	308
Hogs.....	2 115	1 323	1 049	1 044	1 734	1 386	302	433
Hogs, AAA payments.....	258	188	164	163	268	207	48	75
Sheep.....	67	74	61	66	42	82	33	34
Poultry and eggs.....	195	125	111	195	188	161	192	235
Dairy sales.....	300	257	179	192	225	287	1 074	406
Expenses, net decreases, total.....	\$ 1 497	\$ 1 175	\$ 856	\$ 925	\$ 1 293	\$ 1 133	\$ 1 198	\$ 1 277
Farm improvements.....	263	178	139	189	232	183	232	213
Machinery and equipment.....	368	326	234	294	367	305	400	387
Feed and grain.....	201	.....	.....	.....	.....	.....	.....	.....
Crop expense.....	122	122	109	103	165	138	149	193
Hired labor.....	224	235	100	108	221	211	159	159
Taxes.....	245	226	218	182	207	208	195	255
Horses.....	.....	.....	.....	.....	.....	.....	.....	.....
Livestock and miscellaneous.....	74	88	56	49	101	88	63	70
Income less expense.....	\$ 3 103	\$ 3 211	\$ 2 312	\$ 1 713	\$ 2 528	\$ 2 055	\$ 1 442	\$ 1 770
Total unpaid labor.....	632	685	673	745	649	690	690	830
Net farm income.....	\$ 2 471	\$ 2 526	\$ 1 639	\$ 968	\$ 1 879	\$ 1 365	\$ 752	\$ 940
Rate earned on investment.....	7.50%	7.31%	7.70%	4.22%	5.73%	4.61%	2.60%	2.92%
Labor and management wage.....	\$ 1 348	\$ 1 327	\$ 1 115	\$ 360	\$ 758	\$ 400	\$ -181	\$ -133
Size of farm, acres.....	221.5	235.8	205.3	200.8	237.3	216.8	195.1	233.9
Tillable land.....	76.8%	85.1%	78.2%	71.3%	85.7%	87.6%	87.0%	91.0%
Gross income an acre.....	\$ 20.19	\$ 18.60	\$ 15.43	\$ 13.13	\$ 16.10	\$ 14.70	\$ 13.53	\$ 13.03
Total expense an acre.....	9.03	7.89	7.45	8.31	8.18	8.40	9.68	9.01
Net income an acre.....	11.16	10.71	7.98	4.82	7.92	6.30	3.85	4.02
Acres in—Corn.....	53.3	66.5	55.3	37.7	63.5	44.7	51.1	66.9
Oats.....	22.2	26.0	29.4	22.6	23.2	28.4	36.1	49.3
Wheat.....	.....	4.5	3.6	15.1	16.8	8.7	5.6	12.4
Barley.....	.....	.....	.....	.....	.....	.....	.....	.....
Soybeans.....	1.5	18.4	6.1	4.7	11.7	19.9	6.4	8.1
Bushels an acre—Corn.....	36.1	28.7	27.8	23.4	14.9	10.6	12.7	18.2
Oats.....	4.8	2.6	5.7	8.9	8.7	10.0	15.1	13.8
Wheat.....	.....	4.0	.....	11.5	15.5	20.2	.....	5.9
Barley.....	.....	.....	.....	.....	.....	.....	.....	.....
Soybeans.....	.....	20.5	17.1	21.6	19.9	.....	19.2	.....
Returns for \$100 of feed.....	\$132	\$141	\$127	\$141	\$125	\$130	\$140	\$130
Returns for \$100 of poultry.....	232	198	191	264	244	237	234	240
Dairy sales from each cow.....	43	47	37	43	45	42	99	63
Returns for each litter.....	104	110	93	92	108	93	85	81
Investment an acre in livestock.....	10.86	7.03	6.08	6.03	7.19	6.10	6.60	4.19
Income an acre from livestock.....	19.55	12.23	9.77	9.81	14.56	12.11	10.13	6.37
Power and machinery cost a crop acre.....	\$ 4.55	\$ 3.19	\$ 3.04	\$ 4.00	\$ 3.51	\$ 3.67	\$ 4.18	\$ 3.45
Labor cost for \$100 gross income.....	18	20	24	31	21	27	28	31
Labor cost an acre.....	6.79	5.56	5.92	6.84	5.31	5.81	5.37	5.15
Expense for \$100 gross income.....	45	42	48	63	51	57	66	69
Excess of sales over expenses.....	\$2 246	\$2 499	\$1 683	\$1 415	\$2 307	\$1 713	\$1 563	\$1 396
In reason inventory.....	857	712	629	298	221	342	-121	374
Value of land an acre.....	\$103	\$106	\$ 71	\$ 78	\$ 99	\$ 98	\$ 90	\$ 99
Total investment an acre.....	149	147	104	114	138	136	148	138
Number of farms included.....	43	38	40	39	36	33	35	30

(Table is continued on next page)

TABLE A.—SUMMARY, BY AREAS, OF BUSINESS RECORDS FROM 1,548 ILLINOIS FARMS, 1934—Continued

Accounting items	Iroquois	Ford	Champaign	DeWitt, Piatt, Logan	Mason, Cass, Menard	Macon	Edgar, Douglas, Clark, Coles	Sangamon
Capital investment, total.....	\$37 675	\$44 037	\$38 748	\$43 033	\$29 048	\$41 229	\$33 985	\$40 973
Land.....	27 435	33 790	30 298	32 860	21 855	31 223	25 369	31 607
Farm improvements.....	4 695	4 494	3 490	4 323	3 071	4 950	3 837	4 073
Machinery and equipment.....	1 540	1 525	1 445	1 567	1 055	1 510	1 449	1 434
Feed and grain.....	2 124	2 614	2 243	2 540	1 727	1 942	1 775	1 578
Livestock, total.....	1 881	1 614	1 272	1 743	1 340	1 604	1 555	2 281
Horses.....	676	606	408	629	494	352	382	510
Cattle.....	736	694	563	718	529	965	775	1 166
Hogs.....	223	188	205	282	235	173	283	465
Sheep.....	155	28	18	48	18	23	33	80
Poultry.....	91	98	78	66	64	91	82	60
Income, net increases, total.....	\$ 3 787	\$ 4 686	\$ 4 443	\$ 5 817	\$ 3 369	\$ 4 995	\$ 4 766	\$ 4 253
Feed and grain.....	1 474	2 806	2 699	3 603	1 536	3 120	2 258	897
Corn and wheat, AAA payments.....	121	172	156	225	276	188	160	263
Labor and miscellaneous.....	113	110	97	90	81	104	90	76
Livestock, total.....	2 079	1 598	1 491	1 899	1 476	1 583	2 258	3 017
Horses.....	58	71	8	61	41	11	37	56
Cattle.....	550	340	297	640	232	482	748	954
Hogs.....	557	507	598	622	661	504	832	1 394
Hogs, AAA payments.....	107	84	79	125	133	68	124	179
Sheep.....	89	43	48	65	20	26	23	112
Poultry and eggs.....	234	248	156	151	166	197	207	138
Dairy sales.....	484	305	305	235	223	295	287	184
Expenses, net decreases, total.....	\$ 1 246	\$ 1 315	\$ 1 163	\$ 1 603	\$ 1 171	\$ 1 480	\$ 1 316	\$ 1 568
Farm improvements.....	240	277	181	238	166	209	210	297
Machinery and equipment.....	299	346	336	437	302	371	303	373
Feed and grain.....	.....	.....	.....	.....	.....	.....	.....	.....
Crop expense.....	131	134	136	200	154	200	211	178
Hired labor.....	189	189	171	277	191	264	271	354
Taxes.....	311	306	290	360	292	386	256	290
Horses.....	.....	.....	.....	.....	.....	.....	.....	.....
Livestock and miscellaneous.....	76	63	49	91	66	50	65	76
Income less expense.....	\$ 2 541	\$ 3 371	\$ 3 280	\$ 4 214	\$ 2 198	\$ 3 515	\$ 3 450	\$ 2 685
Total unpaid labor.....	788	753	620	680	672	638	634	617
Net farm income.....	\$ 1 753	\$ 2 618	\$ 2 660	\$ 3 534	\$ 1 526	\$ 2 877	\$ 2 816	\$ 2 068
Rate earned on investment.....	4.65%	5.94%	6.86%	8.21%	5.25%	6.98%	8.3%	5.05%
Labor and management wage.....	\$ 386	\$ 952	\$ 1 245	\$ 1 893	\$ 610	\$ 1 323	\$ 1 593	\$ 508
Size of farm, acres.....	254.9	270.8	231.9	296.9	262.8	248.7	247.6	275.5
Tillable land.....	91.4%	94.2%	95.5%	94.7%	86.3%	90.9%	88.0%	92.4%
Gross income an acre.....	\$ 14.86	\$ 17.30	\$ 19.16	\$ 19.59	\$ 12.82	\$ 20.08	\$ 19.53	\$ 15.44
Total expense an acre.....	7.98	7.64	7.69	7.69	7.01	8.51	7.88	7.93
Net income an acre.....	6.88	9.66	11.47	11.90	5.81	11.57	11.37	7.51
Acres in—Corn.....	76.4	91.8	74.3	86.6	63.1	71.7	61.1	72.6
Oats.....	56.4	71.0	41.6	37.9	24.1	24.1	24.8	29.7
Wheat.....	1.2	3.3	11.8	24.6	46.0	26.4	28.4	28.5
Barley.....	.....	.....	.....	.....	.....	.....	.....	.....
Soybeans.....	8.5	8.8	33.4	40.5	9.0	34.9	21.6	22.6
Bushels an acre—Corn.....	22.9	29.4	25.3	33.1	21.2	29.1	33.0	12.4
Oats.....	15.0	13.0	12.9	14.2	9.9	13.5	19.3	10.9
Wheat.....	.....	.....	20.6	23.1	17.1	27.2	22.0	25.9
Barley.....	.....	.....	.....	.....	.....	.....	.....	.....
Soybeans.....	18.1	.....	25.8	25.8	17.2	26.9	28.0	18.3
Returns for \$100 of feed.....	\$133	\$142	\$128	\$121	\$109	\$127	\$132	\$136
Returns for \$100 of poultry.....	244	230	191	222	259	221	236	223
Dairy sales from each cow.....	65	51	49	38	43	56	42	43
Returns for each litter.....	114	94	91	74	93	93	98	74
Investment an acre in livestock.....	5.33	3.99	4.04	4.10	3.25	5.01	4.92	6.64
Income an acre from livestock.....	7.93	5.66	6.39	6.19	5.46	6.32	8.97	10.75
Power and machinery cost a crop acre.....	\$ 2.65	\$ 2.42	\$ 2.86	\$ 3.13	\$ 2.75	\$ 2.98	\$ 2.68	\$ 3.27
Labor cost for \$100 gross income.....	26	19	17	15	24	17	18	22
Labor cost an acre.....	5.04	4.27	4.13	4.05	4.46	4.48	5.00	4.86
Expense for \$100 gross income.....	54	44	40	39	55	42	41	51
Excess of sales over expenses.....	\$2 407	\$2 988	\$2 723	\$2 896	\$2 090	\$2 814	\$2 539	\$2 299
Increase in inventory.....	134	383	557	1 318	99	701	911	386
Value of land an acre.....	\$108	\$125	\$131	\$111	\$ 83	\$126	\$102	\$114
Total investment an acre.....	148	163	167	145	111	166	137	149
Number of farms included.....	31	39	38	32	51	36	57	31

(Table is continued on next page)

TABLE A.—SUMMARY, BY AREAS, OF BUSINESS RECORDS FROM 1,548 ILLINOIS FARMS, 1934—Continued

Accounting items	Shelby, Monltrie	Christian	Adams	Pike, Brown	Morgan, Scott, Greene	Macoupin	Jersey	Effingham
Capital investment, total.....	\$31 787	\$32 885	\$26 702	\$25 515	\$33 138	\$19 281	\$20 176	\$12 652
Land.....	23 753	24 896	19 081	17 604	24 736	12 534	13 192	7 590
Farm improvements.....	3 293	3 328	3 710	3 434	3 602	2 996	2 900	1 893
Machinery and equipment.....	1 265	1 644	1 018	979	1 306	1 100	1 336	930
Feed and grain.....	1 922	1 911	1 231	1 431	1 697	1 111	1 291	939
Livestock, total.....	1 554	1 106	1 662	2 067	1 797	1 530	1 457	1 291
Horses.....	375	327	409	348	440	392	414	327
Cattle.....	817	394	739	1 144	858	777	659	708
Hogs.....	218	291	410	461	390	219	281	92
Sheep.....	62	31	45	69	38	55	37	32
Poultry.....	82	63	59	45	71	87	66	132
Income, net increases, total.....	\$ 5 069	\$ 4 735	\$ 2 701	\$ 3 055	\$ 3 586	\$ 2 429	\$ 2 434	\$ 2 169
Feed and grain.....	2 913	2 820	.....	.....	772	356	430	799
Corn and wheat, AAA payments.....	173	129	107	106	272	135	149	69
Labor and miscellaneous.....	95	92	148	63	70	74	89	80
Livestock, total.....	1 888	1 694	2 446	2 886	2 472	1 864	1 766	1 221
Horses.....	29	24	39	36	30	17	4	31
Cattle.....	301	237	592	849	696	371	225	209
Hogs.....	669	881	1 254	1 501	1 140	555	707	224
Sheep, AAA payments.....	135	132	183	237	186	105	134	32
Sheep.....	76	48	47	90	54	75	40	41
Poultry and eggs.....	199	132	130	77	118	201	142	287
Dairy sales.....	479	240	201	96	239	537	514	397
Expenses, net decreases, total.....	\$ 1 317	\$ 1 283	\$ 1 309	\$ 1 603	\$ 1 343	\$ 1 000	\$ 979	\$ 542
Farm improvements.....	217	137	178	199	184	138	224	114
Machinery and equipment.....	335	414	298	246	374	314	279	136
Feed and grain.....	.....	.....	265	608	.....	.....	.....	.....
Crop expense.....	194	168	128	130	183	134	129	83
Hired labor.....	248	216	135	151	259	170	108	57
Taxes.....	264	297	221	194	284	187	187	105
Horses.....	.....	.....	.....	.....	.....	.....	.....	.....
Livestock and miscellaneous.....	59	51	84	75	59	57	52	47
Income less expense.....	\$ 3 752	\$ 3 452	\$ 1 392	\$ 1 452	\$ 2 243	\$ 1 429	\$ 1 455	\$ 1 627
Total unpaid labor.....	745	704	767	683	692	771	785	598
Net farm income.....	\$ 3 007	\$ 2 748	\$ 625	\$ 769	\$ 1 551	\$ 658	\$ 670	\$ 1 029
Rate earned on investment.....	9.5%	8.36%	2.34%	3.01%	4.68%	3.41%	3.32%	8.13%
Labor and management wage.....	\$ 1 950	\$ 1 628	\$ -170	\$ 8	\$ 406	\$ 224	\$ 170	\$ 804
Size of farm, acres.....	271.3	237.0	242.7	249.7	275.7	227.5	202.0	210.8
Tillable land.....	89.0%	93.2%	82.8%	75.5%	81.0%	82.6%	81.0%	84.0%
Gross income an acre.....	\$ 18.68	\$ 19.98	\$ 10.69	\$ 11.81	\$ 13.01	\$ 10.68	\$ 12.07	\$ 10.29
Total expense an acre.....	7.60	8.39	8.11	8.73	7.38	7.79	8.75	5.41
Net income an acre.....	11.08	11.59	2.58	3.08	5.63	2.89	3.32	4.88
Acres in—Corn.....	64.5	59.0	50.2	48.6	68.1	44.8	44.6	32.3
Oats.....	20.7	15.0	19.9	17.3	19.7	14.2	13.7	19.5
Wheat.....	20.0	25.9	17.3	13.3	42.8	27.2	32.5	17.7
Barley.....	.....	.....	.....	.....	.....	.....	.....	.....
Soybeans.....	42.3	64.1	9.4	.....	9.8	17.2	7.1	10.6
Bushels an acre—Corn.....	30.4	21.5	5.6	5.9	11.7	8.1	8.5	25.4
Oats.....	10.9	11.3	4.0	6.9	18.7	8.5	13.8	7.5
Wheat.....	22.1	26.2	14.8	17.6	25.0	21.6	20.9	17.2
Barley.....	.....	.....	.....	.....	.....	.....	.....	.....
Soybeans.....	27.1	26.2	.....	.....	15.3	15.5	13.5	.....
Returns for \$100 of feed.....	\$131	\$126	\$133	\$120	\$107	\$127	\$112	\$131
Returns for \$100 of poultry.....	237	194	209	175	171	234	209	219
Dairy sales from each cow.....	51	44	38	26	50	65	60	48
Returns for each litter.....	93	90	99	91	79	78	78	90
Investment an acre in livestock.....	4.92	3.73	5.06	7.11	4.94	5.11	5.01	4.76
Income an acre from livestock.....	6.85	7.05	9.92	11.41	8.86	8.12	8.74	5.65
Power and machinery cost a crop acre.....	\$ 2.60	\$ 2.99	\$ 3.51	\$ 3.22	\$ 3.44	\$ 3.50	\$ 3.82	\$ 2.17
Labor cost for \$100 gross income.....	19	18	32	26	26	37	35	28
Labor cost an acre.....	5.00	4.58	6.06	6.34	5.21	6.21	6.67	4.90
Expense for \$100 gross income.....	41	42	76	74	57	73	72	53
Excess of sales over expenses.....	\$2 066	\$2 764	\$1 634	\$1 759	\$2 296	\$1 343	\$1 508	\$961
Increase in inventory.....	1 686	688	-242	-307	-53	86	-53	666
Value of land an acre.....	\$ 88	\$105	\$ 79	\$ 71	\$ 90	\$ 55	\$ 65	\$ 36
Total investment an acre.....	117	139	110	102	120	85	100	60
Number of farms included.....	31	36	31	32	57	45	32	38

(Table is concluded on next page)

TABLE A.—SUMMARY, BY AREAS, OF BUSINESS RECORDS FROM 1,548 ILLINOIS FARMS, 1934—*Concluded*

Accounting items	Clinton, Bond, Monroe, Montgomery		Madison	St. Clair	Randolph	Jefferson, Edwards, Wabash, Jackson, Marion, White, Saline, Crawford, Richland, Clay, Washington, Wayne, Johnson		
	General farms	Dairy farms				Lower-valued land	Higher-valued land	Dairy farms
Capital investment, total.....	\$16 969	\$16 413	\$15 772	\$18 374	\$13 281	\$9 783	\$18 826	\$13 508
Land.....	11 272	9 901	9 374	11 824	7 723	5 970	13 024	7 834
Farm improvements.....	2 483	2 804	2 759	2 895	2 399	1 538	2 491	2 377
Machinery and equipment.....	1 057	1 160	1 305	1 174	1 126	631	885	996
Feed and grain.....	1 066	1 002	1 035	1 117	1 003	743	1 323	982
Livestock, total.....	1 091	1 546	1 299	1 364	1 030	901	1 103	1 319
Horses.....	357	412	320	396	304	313	396	290
Cattle.....	424	831	735	622	519	340	336	796
Hogs.....	161	144	132	171	95	110	254	134
Sheep.....	29	19	14	49	14	41	34	1
Poultry.....	120	140	98	126	98	97	83	98
Income, net increases, total.....	\$ 2 571	\$ 2 540	\$ 2 400	\$ 2 551	\$ 2 143	\$ 1 852	\$ 4 079	\$ 2 629
Feed and grain.....	1 270	773	671	699	831	631	2 444	651
Corn and wheat, AAA payments.....	153	146	147	169	151	63	192	81
Labor and miscellaneous.....	58	60	80	65	56	64	63	118
Livestock, total.....	1 090	1 561	1 502	1 618	1 105	894	1 380	1 776
Horses.....	.....	27	19	22	15	32	26	70
Cattle.....	167	84	127	163	168	121	154	195
Hogs.....	342	281	255	355	181	255	642	397
Hogs, AAA payments.....	59	50	54	61	25	55	100	66
Sheep.....	48	32	21	54	29	41	52	2
Poultry and eggs.....	278	254	261	373	207	258	243	258
Dairy sales.....	196	833	765	590	480	132	163	788
Expenses, net decreases, total.....	\$ 897	\$ 863	\$ 937	\$ 919	\$ 665	\$ 516	\$ 1 039	\$ 744
Farm improvements.....	130	165	171	163	107	82	144	111
Machinery and equipment.....	234	227	242	227	210	131	207	205
Feed and grain.....	.....	.....	.....	.....	.....	.....	.....	.....
Crop expense.....	162	155	152	186	133	110	184	124
Hired labor.....	163	143	155	129	57	68	278	137
Taxes.....	149	133	165	152	119	95	184	117
Horses.....	17	.....	.....	.....	.....	.....	.....	.....
Livestock and miscellaneous.....	42	40	52	62	39	30	42	50
Income less expense.....	\$ 1 674	\$ 1 677	\$ 1 463	\$ 1 632	\$ 1 478	\$1 336	\$ 3 040	\$ 1 885
Total unpaid labor.....	612	654	669	680	661	546	564	608
Net farm income.....	\$ 1 062	\$ 1 023	\$ 794	\$ 952	\$ 817	\$ 790	\$ 2 476	\$ 1 277
Rate earned on investment.....	6.26%	6.23%	5.03%	5.18%	6.15%	8.08%	13.15%	9.45%
Labor and management wage.....	\$ 646	\$ 589	\$ 416	\$ 443	\$ 562	\$ 687	\$ 1 939	\$ 983
Size of farm, acres.....	195.9	205.2	162.6	164.8	188.5	184.0	234.2	233.3
Tillable land.....	83.7%	83.96%	84.5%	84.8%	83.4%	85.3%	85.7%	87.2%
Gross income an acre.....	\$ 13.39	\$ 12.38	\$ 14.76	\$ 15.48	\$ 11.36	\$ 10.07	\$ 17.42	\$ 11.27
Total expense an acre.....	7.71	7.39	9.88	9.70	7.03	5.78	6.85	5.80
Net income an acre.....	5.41	4.99	4.88	5.78	4.33	4.29	10.57	5.47
Acres in—Corn.....	33.7	20.7	29.7	29.5	26.1	27.6	55.4	29.5
Oats.....	20.0	22.9	11.2	20.0	14.3	12.3	18.6	19.4
Wheat.....	43.2	34.7	35.7	35.3	44.7	20.2	47.0	26.6
Barley.....	.....	.....	.....	.....	.....	.....	.....	.....
Soybeans.....	.....	.....	1.4	.5	.6	4.4	1.5	4.9
Bushels an acre—Corn.....	15.5	18.1	12.7	9.3	16.5	29.1	36.2	26.5
Oats.....	21.0	18.4	11.8	29.7	25.8	17.8	33.0	14.9
Wheat.....	26.4	22.3	24.1	24.3	18.9	19.6	26.0	18.9
Barley.....	.....	.....	.....	.....	.....	.....	.....	.....
Soybeans.....	.....	.....	.....	.....	.....	11.9	.....	.....
Returns for \$100 of feed.....	\$114	\$118	\$121	\$120	\$102	\$116	\$114	\$121
Returns for \$100 of poultry.....	232	184	249	296	213	248	276	250
Dairy sales from each cow.....	45	64	67	74	51	25	32	55
Returns for each litter.....	75	88	77	76	74	89	76	93
Investment an acre in livestock.....	3.87	5.35	5.90	5.72	3.84	3.36	3.13	4.48
Income an acre from livestock.....	5.56	7.48	9.12	9.68	5.78	4.68	5.78	7.31
Power and machinery cost a crop acre.....	\$ 3.57	\$ 3.72	\$ 4.00	\$ 4.19	\$ 3.50	\$ 2.27	\$ 2.76	\$ 2.30
Labor cost for \$100 gross income.....	28	28	33	30	31	30	13	26
Labor cost an acre.....	5.43	5.68	7.32	7.01	5.91	5.19	3.30	4.96
Expense for \$100 gross income.....	58	60	67	63	62	57	39	51
Excess of sales over expenses.....	\$1 145	\$1 291	\$1 188	\$1 380	\$1 111	\$831	\$1 650	\$1 430
Increase in inventory.....	529	386	275	252	367	505	1 390	455
Value of land an acre.....	\$ 58	\$ 48	\$ 58	\$ 72	\$ 41	\$ 32	\$ 56	\$ 34
Total investment an acre.....	87	80	97	111	70	53	80	58
Number of farms included.....	38	35	49	32	33	56	17	10

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ANNUAL FARM BUSINESS REPORTS PREPARED FROM RECORDS KEPT IN THE
ILLINOIS FARM FINANCIAL RECORD BOOK FOR 37 AREAS FOR 1934

Prepared by the Department of Agricultural Economics
of the University of Illinois

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ANNUAL FARM BUSINESS REPORT ON THIRTY-FIVE FARMS
IN DEKALB COUNTY, ILLINOIS, 1934

P. E. Johnston, J. E. Wills, and J. B. Andrews*

The farm earnings of 35 account-keeping farmers in DeKalb County showed an increase in 1934 over those of 1933. This is the second consecutive year of improvement in the business of these farms. The three years previous to 1933 showed very low returns.

These 35 accounts show for 1934 an average net income of \$1,648 per farm, as compared with an average of \$1,563 in 1933 and an average net loss of \$473 in 1932. The average cash income in 1934 was \$4,933 per farm, the cash business expenditures \$2,923 per farm, leaving a cash balance of \$2,010 to meet interest payments and family living expenses. (Those who keep home account books use the latter figure to represent the cash contribution of the farm to the "realized family income".) Besides the cash income there was an inventory increase of \$330 per farm due to the rise in the prices of farm products. This increase, added to the cash balance, resulted in an average excess of receipts over expenses of \$2,340 per farm. The inventory increase was a smaller part of the total farm income in 1934 than in 1933.

These data must not be considered representative of average farm conditions, for they were secured from farms which are larger than average and were managed by farmers who are more efficient than the average of all farmers in the county.

For the state as a whole, farm earnings were better in 1934 than in 1933 in spite of the fact that corn and oat yields were very low due to the drouth and to chinch bug damage. In the western and southwestern parts of the state the drouth caused an almost total failure of both corn and oats, which accounts for farm earnings being lower there than in other parts of the state.

The corn crop was best in the southeastern part of the state and was fair in the northwestern section. Wheat yields were particularly good in the south and central portions of the state. Soybean yields were very good throughout the state and there was a larger than normal acreage in Illinois in 1934. This state produced over half of the nation's 1934 crop of soybeans.

Chinch bug damage extended over most of the state last year but was much more severe in some sections than in others and was much worse on some farms than on other farms in the same community. Conditions affecting crop yields were very spotted; which accounts in part for the wide variation in farm earnings from one section of the state to another and the wider variations than usual from one farm to another.

* R. M. Rasmusen, farm adviser in DeKalb County, cooperated in supervising and collecting the records on which this report is based.

Industries other than agriculture again showed improved earnings over the previous year. A group of 840 industrial corporations reported by a nationally known bank showed average earnings of 5.0 percent on their invested capital in 1934, as compared with 3.4 percent for the same corporations in 1933. A similar group had a loss of one-tenth of one percent in 1932 and average earnings of 3.3 percent in 1931.

In comparing the average earnings of corporations with the rate earned on investment on accounting farms it is well to keep in mind that in corporation accounting, charges are made for management, while in the farm accounts no comparable deduction has been made. On the other hand the farmer and his family receive food, fuel, and other items of living from the farm for which the farm has received no credit in the records used in this report. For the average central Illinois farm family, consisting of five persons, the value of the food and fuel furnished by the farm was about \$250 in 1934, when estimated on the basis of the wholesale price for farm products.

Variations in Farm Incomes

There was a much wider range in farm earnings on the accounting farms in 1934 than in 1933. This was true for the farms included in this report and was also true when the average earnings of farms in one section of the state were compared with the earnings of farms in other areas.

The extremely wide range in earnings was due to a combination of physical and economic factors. The average yields of wheat and soybeans were much better, compared with the five-year average, than the average yields of corn and oats. This variation favored those sections which had larger acreages of the higher yielding crops in 1934. There was also a wide range in average corn yields from one section of the state to another as well as between individual farms in the same area. The price of grains was high in 1934 as compared with prices of livestock and livestock products. Farms where grain sales constitute a large part of the farm income thus had an advantage. The rapid increase in the prices of farm products, particularly grains, favored those farms which had large stocks of salable products on hand at the beginning of the year. Many farmers who inventoried the corn on hand at the beginning of 1934 at 40 cents a bushel, later sold this corn for 80 cents.

In this group of 35 accounting farms the most successful third shows an average net income of \$2,445 while the average net income of the least successful third of the farms was only \$500. In 1933 the comparable net incomes for the two groups was \$1,522 and \$507 respectively.

Investments, Receipts, Expenses, and Earnings on
35 DeKalb County Farms in 1934

Items	Your farm	Average of 35 farms	12 <u>most</u> profitable farms	12 <u>least</u> profitable farms
<u>CAPITAL INVESTMENTS</u>				
Land - - - - -		19 401	17 757	17 926
Farm improvements- - - - -		5 827	5 449	5 354
Livestock total- - - - -		<u>2 435</u>	<u>2 523</u>	<u>2 451</u>
Horses - - - - -		449	400	466
Cattle - - - - -		1 298	1 667	1 347
Hogs - - - - -		386	331	448
Sheep- - - - -		182	20	51
Poultry- - - - -		120	105	139
Machinery and equipment- - - -		1 510	1 446	1 453
Feed and grain		1 920	2 471	1 513
Total capital investment -	\$	<u>\$31 093</u>	<u>\$29 626</u>	<u>\$29 257</u>
<u>RECEIPTS AND NET INCREASES</u>				
Livestock total- - - - -		3 261	3 792	2 570
Horses - - - - -		---	---	6
Cattle - - - - -		942	1 452	706
Hogs (including AAA payments)		1 197	1 120	978
Sheep- - - - -		133	26	38
Poultry- - - - -		68	70	81
Egg sales- - - - -		211	206	228
Dairy sales- - - - -		710	928	533
Feed and grain (including AAA payments)- - - - -		306	835	---
Labor off farm - - - - -		110	172	40
Miscellaneous receipts - - - -		1	1	---
Total receipts & net increases	\$	<u>\$ 3 678</u>	<u>\$ 4 760</u>	<u>\$ 2 610</u>
<u>EXPENSES AND NET DECREASES</u>				
Farm improvements- - - - -		296	258	305
Horses - - - - -		12	1	---
Miscellaneous livestock decreases		---	---	---
Machinery and equipment- - - -		386	290	388
Feed and grain - - - - -		---	---	166
Livestock expense- - - - -		57	60	52
Crop expense - - - - -		172	204	139
Hired labor- - - - -		157	141	147
Taxes- - - - -		255	257	235
Miscellaneous expenses - - - -		23	22	26
Total expenses & net decreases	\$	<u>\$ 1 338</u>	<u>\$ 1 233</u>	<u>\$ 1 458</u>
<u>RECEIPTS LESS EXPENSES-</u> - - - -	\$	<u>\$ 2 340</u>	<u>\$ 3 527</u>	<u>\$ 1 152</u>
Total unpaid labor- - - - -		692	681	652
Operator's labor - - - - -		517	540	518
Family labor - - - - -		175	141	134
Net income from investment and management- - - - -		1 648	2 846	500
RATE EARNED ON INVESTMENT - - - -	\$	<u>5.30%</u>	<u>2.61%</u>	<u>1.71%</u>
Return to capital and operator's labor and management- - - - -		2 165	3 396	1 018
5% of capital invested- - - - -		1 555	1 481	1 463
LABOR AND MANAGEMENT WAGE - - - -	\$	<u>\$ 610</u>	<u>\$ 1 905</u>	<u>\$ 1 015</u>

The following table shows the number of farms having certain net incomes per acre. There was a marked difference between the most successful and the least successful farms.

<u>Average net in-</u> <u>come per acre</u>	<u>Number of</u> <u>farms</u>	<u>Average net in-</u> <u>come per acre</u>	<u>Number of</u> <u>farms</u>
\$19 and over.	2	\$7.	5
17	2	5.	7
15	3	3.	2
13	2	1.	3
11	2	-1.	1
9	6		

A further study of the farm businesses made by comparing the investments, receipts, and expenses of the group of farms with the highest net incomes with those having the lowest should throw some light on the question of why some farmers are more successful than others. This comparison is shown in the table on page 3.

The most successful farms averaged 182.2 acres each, the least successful 169.8 acres. This difference in size accounts in part for the variation in the receipts, and expenses in the two groups. Difference in receipts from the sales of grains and livestock accounts for much of the difference in income between the two groups. The total expense per acre, including the charge for family labor, on the least profitable farms was \$12.43 as compared with \$10.51 on the most profitable farms.

Changes in Inventories and Inventory Values

The year 1934 was similar to 1933 in that the prices of farm products continued to advance, causing further increases in inventory values. Owing to the poor crop yields in 1934 there were fewer bushels of grain on hand to inventory at the end of the year than at the beginning. The value of the smaller amount of grain, however, was greater than for the larger amount on hand at the beginning of the year.

Bushels of Corn Inventoried

	<u>Jan. 1, 1934</u>	<u>Dec. 31, 1934</u>
Average of all farms.	2 216	1 100
Average of 13 most successful farms . .	3 274	1 366
Average of 13 least successful farms . .	1 453	631
Your farm		

The most profitable farms had a much larger inventory of corn both at the beginning and end of the year. This larger inventory of corn, with the rise in grain prices, was one of the important factors accounting for the difference in farm earnings.

The average inventory increase for the accounting farms in DeKalb County was \$330 in 1934 as compared with \$449 in 1933 and an inventory loss of \$1,064 a farm in 1932. There were increases of \$114 in total livestock, \$317 in feed and grain, and \$71 in machinery, while improvements showed a decrease of \$172. Such an increase in inventory as that for machinery results from the value of new replacements during the year being in excess of depreciation costs. This increase is of considerable interest for it is the first time that such an increase in machinery inventories has occurred since farm earnings began to decline so drastically with the general depression.

Inventory Changes for 1934

Items	Beginning	Closing	Inventory	Inventory
	inventory	inventory	changes	changes
	1-1-34	12-31-34	1934	your farm
Total livestock.	2 435	2 549	114	
Feed and grains.	1 920	2 237	317	
Machinery.	1 510	1 581	71	
Improvements (except residence).	5 827	5 655	-172	
Total	11 692	12 022	330	

Some Adjustments on DeKalb County Farms Since 1929

Farmers have been forced to make adjustments in their cash expenditures as the result of changes in their cash incomes. From 1929 through 1933 farm operating costs declined each year. Total operating expenses were 48 cents an acre lower in 1934 than in 1933, while cash operating expenses were \$2,923 a farm in 1934 as compared with \$2,020 in 1933. The largest increase in expenditures over the previous year was for feed, grain, machinery and supplies for machinery. Indications point to an even greater expansion of spending for machinery in 1935 since farmers have postponed machinery replacements during the four-year period since 1929.

Cash Income and Expenses on Accounting Farms in DeKalb County
1929 and 1934

Items	Your	Average cash	Your	Average cash income
	farm	expense per farm	farm	per farm
	1934	1934	1929	1929
Livestock	905	3 061	4 043	8 496
Feed and grains	677	760	666	380
Machinery	550	846	113	118
Improvements.	124	349	---	---
Labor	157	505	110	57
Miscellaneous	25	39	1	8
Livestock expense	57	81	---	---
Crop expense.	172	256	---	---
Taxes	255	381	---	---
	<u>2 923</u>	<u>6 273</u>	<u>4 933</u>	<u>9 659</u>
Excess of cash sales over expenses.			2 010	3 311
Increase in inventory			330	566
Income to labor and capital (Receipts less expenses)			2 340	3 947

The cumulative effect of several years of low agricultural prices on the demand for manufactured goods can readily be ascertained by a comparison of cash farm expenditures in 1934 with those in 1929. Although the average cash income in 1934 was 51.1 percent of that in 1929, cash expenditures were only 46.6 percent as large. In 1934 livestock purchases were 29.7 percent and feed and grain purchases 39.1 percent as large as in 1929. In 1934 these farms paid out 65.0 percent as much for machinery and 67.2 percent as much for crop expense as in 1929, while taxes were reduced to only 66.9 percent of the 1929 level.

Comparison of Farms With High and Low Earnings

The most profitable farms in this study had net receipts per acre of \$15.62 as compared with \$2.94 for the least profitable group. The reasons for this difference may be obtained from a study of the data on pages 3 and 8.

The most profitable farms were larger and carried larger inventories of grain and livestock on which to make a profit when prices advanced. The inventory increase was \$1,117 on the most profitable farms as compared with an inventory loss of \$611 on the least profitable farms.

The most profitable farms had an investment per acre in livestock of \$12.74 as compared with \$10.31 for the least profitable group. The income per acre was \$20.32 and \$15.10 respectively. On the basis of \$100 of feed fed to productive livestock the income for the most profitable farms was \$130 as compared with \$92.

The total operating costs on the acre basis were slightly higher on the least profitable farms. The power and machinery cost was an important factor in accounting for this difference.

Influence of AAA Programs on Cropping Systems and Farm Incomes

The farm-account records in Illinois were influenced both directly and indirectly by the corn-hog and wheat adjustment programs. A large percentage of accounting farms were under one or both contracts in 1934. The acreages of corn and wheat on these farms were therefore less than normal. This should have resulted in lower operating costs. Corn-hog benefit payments for the entire 1934 program will total about 40 million dollars for the state, while wheat benefit payments will be about 2.4 million dollars.

The benefit payments for accounting farms are indicated in the following table, which shows the average payment for those farms receiving payments and includes only those payments received by the cooperator before the 1934 books were closed. In some cases only the first corn-hog check is included, while in other cases the second check had been received. The second payments not received and the third payments will be entered in the 1935 books.

AAA Benefit Payments Received in 1934

	Corn		Wheat		Hogs		Average of all payments ^{1/}
	Number of farms	Amount per farm	Number of farms	Amount per farm	Number of farms	Amount per farm	
1/3 most profitable farms	10	138	1	139	11	125	241
1/3 least profitable farms	11	99	3	35	11	144	231
All accounting farms	29	125	4	73	32	159	259

^{1/} Total benefit payments reported by accounting farms under contract for 1934 divided by total number of accounting farms.

On many farms the cash received from benefit payments will more than pay the year's taxes. As an average of all accounting farms, the payments actually received were sufficient to pay all of the 1934 taxes.

It is interesting to note the use made of the contracted acres on the accounting farms. The average farm had 22.1 contracted acres which were used as follows: .4 idle; 6.3 red clover; 1.5 sweet clover; 10.1 soybeans; .4 alfalfa and 3.4 acres were in other crops. These data indicate that most farmers made good use of their contracted acres from the standpoint of soil improvement, as most of them were in legumes. When the government restrictions on the use of crops grown on contracted acres were removed, they were on many farms the most profitable crops as they furnished hay and pasture where badly needed in drouth areas. The legumes had the further advantage of being immune to attack from chinch bugs.

Farm earnings were influenced indirectly by the AAA programs in that the reduction in production increased the price of the commodities involved. The drouth was a more important factor in reducing production than the adjustment programs, yet if it had not been for the corn-sealing program there would have been but little corn in the hands of farmers at the time the major price advance became effective.

Factors Helping to Analyze the Farm Business on
79 DeKalb County Farms in 1934

Items	Your farm.	Average of 35 farms	10 most profitable farms	12 least profitable farms
Size of farms--acres - - - - -		173.7	162.2	169.8
Percent of land area tillable - -		91.3%	95.5%	91.9%
Percent of tillable land in hay and pasture - - - - -		35.3	4.2	30.6
Gross receipts per acre - - - - -		19.49	26.13	15.37
Total expenses per acre - - - - -		10.76	10.51	12.43
Net receipts per acre - - - - -		8.73	15.62	2.94
Value of land per acre - - - - -		103	97	106
Total investment per acre- - - - -		165	163	172
Acres in Corn- - - - -		60.5	58.2	54.9
Oats- - - - -		29.1	23.3	32.3
Barley- - - - -		6.5	4.1	5.5
Soybeans- - - - -		5.3	8.6	5
Hay - - - - -		32.3	39.5	24.5
Tillable pasture- - - - -		27.5	39.5	23.3
Crop yields--Corn, bu. per acre- -		27.1	27.9	26.4
Oats, bu. per acre- -		14.5	11.5	17.2
Barley, bu. per acre- -		10.1	14.1	10.0
Value of feed fed to productive L.S.		2 741	2 851	2 620
Returns per \$100 of feed fed to productive livestock- - - - -		119	130	98
Returns per \$100 invested in:				
Cattle- - - - -		122	128	105
Poultry - - - - -		229	251	227
Pigs weaned per litter - - - - -		6	5.5	6.4
Income per litter farrowed - - - -		104	103	92
Dairy sales per dairy cow- - - - -		74	83	57
Investment in productive L.S. per A.		10.88	12.74	10.31
Receipts from productive L.S. per A.		17.28	20.32	15.10
Man labor cost per crop acre - - -		5.63	5.47	5.72
Machinery cost per crop acre - - -		2.55	2.92	2.92
Power and mach. cost per crop A. -		4.39	3.74	4.55
Farms with tractor - - - - -		77%	57%	75%
Value of feed fed to horses- - - -		253	246	235
Man labor cost per \$100 gross income - - - - -		12	16	29
Expenses per \$100 gross income - -		55	40	31
Farm improvements cost per acre- -		1.57	1.42	1.30
Excess of sales over cash expenses		1 110	410	1 763
Increase in inventory- - - - -		331	1 117	-611
RATE BARRED ON INVESTMENT- - - -		5.30%	9.61%	1.71%
Gross receipts per farm- - - - -		3 673	4 780	2 610

Chart for Studying the Efficiency of Various Parts of Your Business,
DeKalb County, 1934

The numbers above the lines across the middle of the page are the averages for the 35 farms included in this report for the factors named at the top of the page. By drawing a line across each column at the number measuring the efficiency of your farm in that factor, you can compare your efficiency with that of other farmers in your locality.

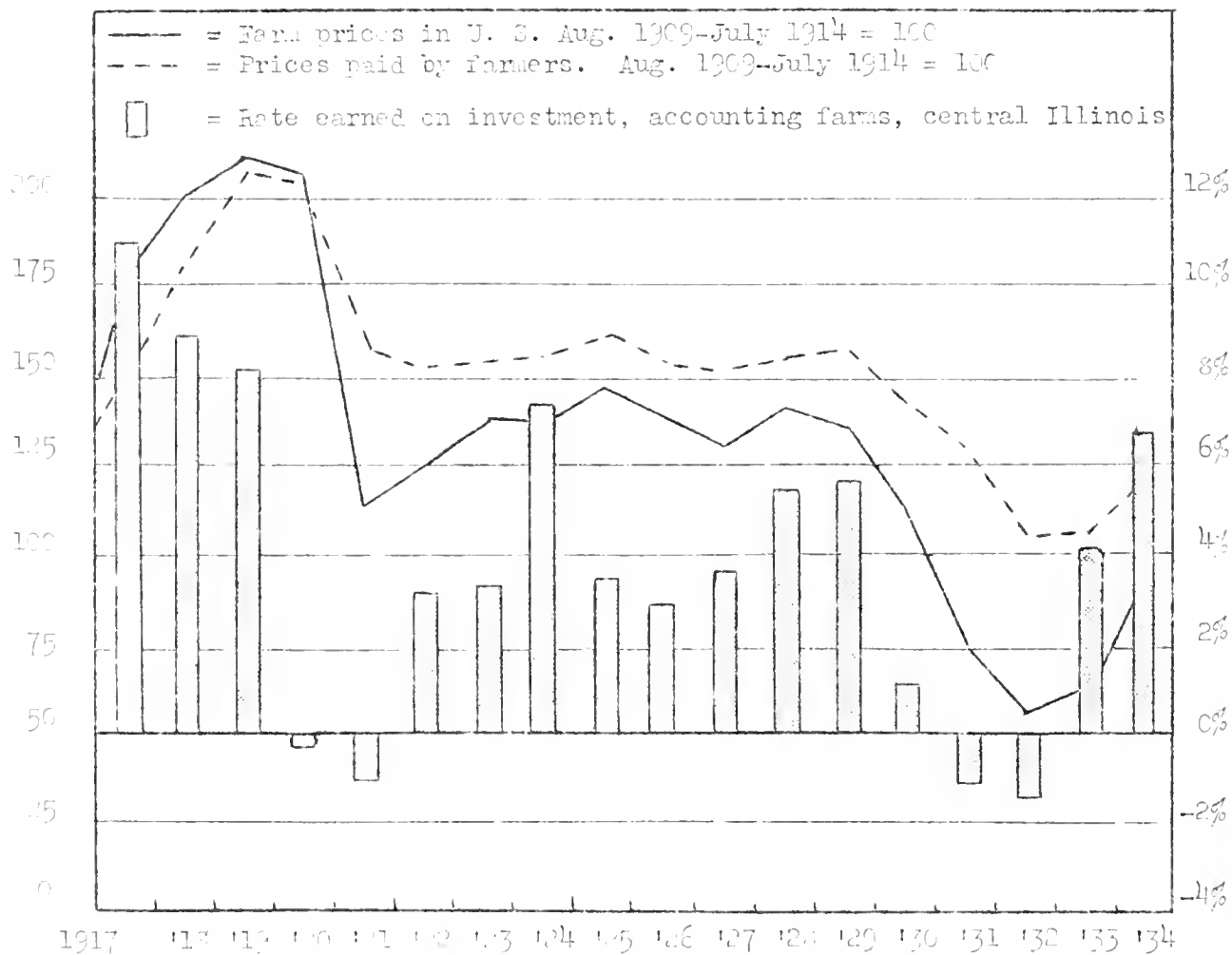
Rate earned on investment	Bushels per acre			Hogs: Income per litter	Dairy sales per dairy cows	Poultry income per \$100 invested	L.S. income per \$100 of feed fed	Cost per crop acre		Labor cost per \$100 gross receipts	Increase in inventory	Sales over cash expenses	Gross receipts		Acres in farm
	Corn	Oats	Barley					Labor	Power and machinery				Per acre	Per farm	
10.30	52	40	20	180	124	380	270	3.10	1.90	—	2330	6000	39	8200	340
9.30	47	35	18	165	114	350	240	3.60	2.40	2	1930	5200	35	7300	310
8.30	42	30	16	150	104	320	210	4.10	2.90	7	1530	4400	31	6400	280
7.30	37	25	14	135	94	290	180	4.60	3.40	12	1130	3600	27	5500	250
6.30	32	20	12	120	84	260	150	5.10	3.90	17	730	2800	23	4600	220
5.30	27.1	14.5	10.1	104	74	229	119	5.63	4.39	22	330	2010	19	3678	189
4.30	22	10	8	90	64	200	90	6.10	4.90	27	-130	1200	15	2800	160
3.30	17	5	6	75	54	170	60	6.60	5.40	32	-530	400	11	1900	130
2.20	12	---	4	60	44	140	30	7.10	5.90	37	-950	-400	7	1000	100
1.20	7	---	2	45	34	110	0	7.60	6.40	42	-1330	-1200	3	100	70
.20	2	---	---	30	24	80	---	8.10	6.90	47	-1730	-2000	---	---	40

Influence of Price Changes on Farm Earnings

Farm prices in 1934 advanced more rapidly than did the prices of commodities which farmers bought. Farmers of the United States as a group could exchange their farm products in 1934 for 74 percent as many goods as for the period 1909-1914, while in 1933 they received only 64 percent, and 1932 only 51 percent as much in exchange for what they had to sell as in the prewar period. In the month of February, 1935, this index of purchasing power had increased to 87 percent of prewar, the index of farm prices having risen to 111 as compared with an index of 127 for commodities which farmers buy. When the line representing farm prices drops below the line representing prices paid by farmers, farm earnings are very low, but when these lines come close together farm earnings increase. (See following graph.)

Index of Prices

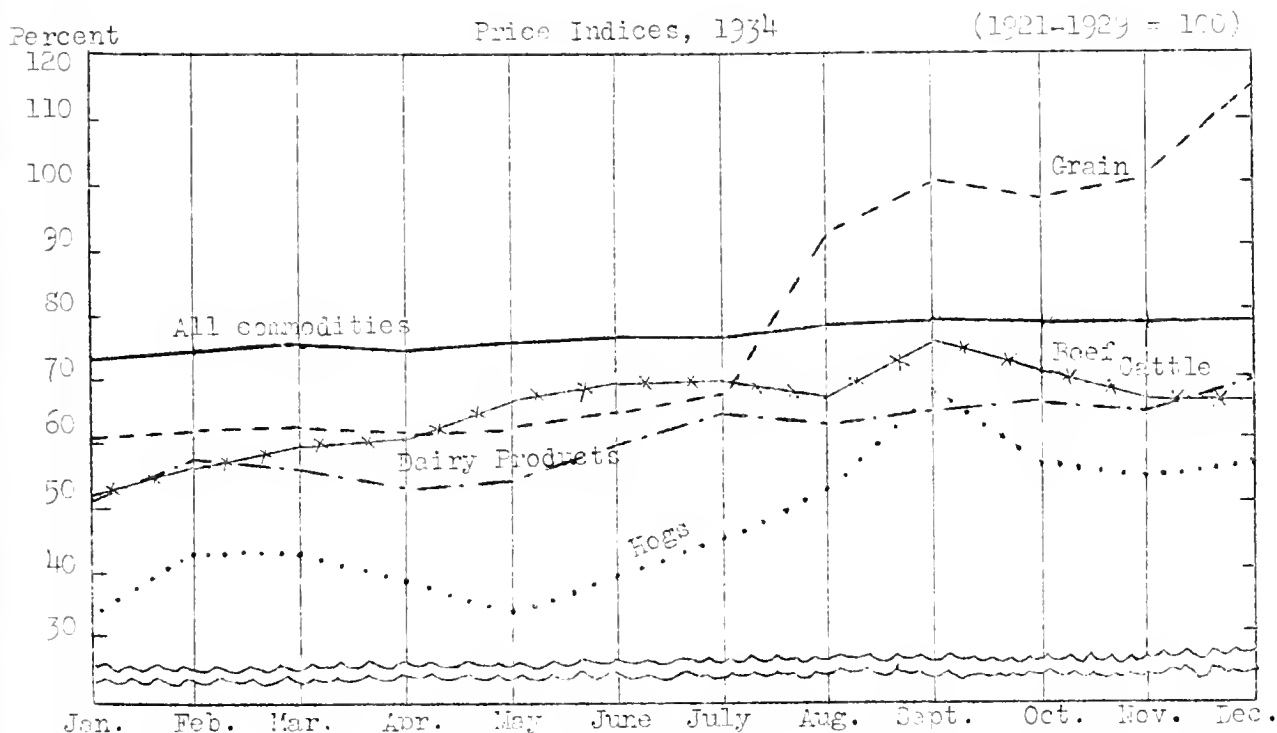
Rate Earned



Since the price of some farm products advanced much more rapidly during 1934 than other products, it is evident that some farms would benefit more than others, depending upon the kind and quantity of products sold. Grain prices advanced much more rapidly than livestock prices; which resulted in a very bad price ratio for farmers who buy large quantities of feed. The average Illinois farm price of corn was 41 cents a bushel in January, 1934; it advanced steadily until the end of the year when it was 88 cents a bushel. Other grains made marked advance although not so great an advance as corn. The price of hogs fluctuated from a low of \$5.20 a hundred in May to a high of \$6.30 in September. The low point in the fall came in November when the average price was \$5.10. The price has advanced quite rapidly since November, the average price being \$7.50 for February, 1935. Beef cattle were worth \$4.10 a hundred in January, 1934 and advanced each month until September, when the price was \$5.90. They dropped to \$5.20 in December but increased again to \$7.40 for February, 1935.

The year 1934 set a record for the reduction in the numbers of livestock. The percentage decreases by species were as follows: horses, 1.1 percent; mules, 2.6 percent; all cattle, 11.2 percent; sheep, 4.7 percent; hogs, 35.3 percent. When all species are combined on the basis of their capacity to consume feed, the reduction was 13 percent. This reduction will greatly reduce the demand for feeds produced in 1935.

The relative change in prices of important commodities may be noted in the following graph, which shows the average Illinois farm prices by months as a percentage of the average prices for the period 1921-1929.



All commodities index represents the wholesale price of a large number of commodities for the United States, as computed by Bureau of Labor Statistics.

Grain and livestock indices represent average monthly farm prices in Illinois.

Variation in Earnings Over Five-Year Period

A comparison of production, income, and expenditures on the accounting farms in DeKalb County for the last five years is very interesting because of the violent changes in price level. 1934 was the second year of very low crop yields, yet total receipts per farm were higher than in any other year in the last four and were 59 percent of the 1929 gross receipts. Operating costs per acre were lower than in any year of the five. Thus profits were the best the county had experienced since 1928.

Earnings in 1935 as usual will depend upon individual efficiency, weather, and prices. A normal year will mean larger yields of grain and probably lower prices.

Comparison of Earnings and Investments on Accounting Farms in
DeKalb County for 1930-1934

Items	1930	1931	1932	1933	1934
Number of farms - - - - -	45	50	50	36	35
Average size of farms, acres- - - -	220	202	199	177	189
Average rate earned, to pay for management, risk and capital - - -	2.8%	-1.3%	-1.3%	5.2%	5.3%
Average labor and management wage -	\$-341	\$-1 891	\$-1 761	\$606	\$610
Gross income per acre - - - - -	20.77	12.49	10.68	20.09	19.49
Operating cost per acre - - - - -	14.68	14.99	13.05	11.24	10.76
Average value of land per acre- - -	131	119	114	105	103
Total investment per acre - - - - -	217	195	182	170	165
Investment per farm in:					
Total livestock- - - - -	5 395	4 104	3 068	3 606	2 435
Cattle - - - - -	3 076	2 109	1 736	1 480	1 298
Hogs - - - - -	1 263	1 172	603	484	386
Poultry- - - - -	187	181	139	93	182
Gross income per farm - - - - -	4 562	2 522	2 127	3 547	3 678
Income per farm from:					
Crops- - - - -	41	---	---	1 216	306
Miscellaneous income - - - - -	57	46	39	35	1
Total livestock- - - - -	4 464	2 476	2 088	2 296	3 261
Cattle - - - - -	1 132	461	561	711	942
Dairy sales- - - - -	963	824	662	534	710
Hogs - - - - -	2 028	898	630	305	1 197
Poultry- - - - -	293	253	171	167	68
Average yield of corn in bu.- - - -	44	47	60	50	27
Average yield of oats in bu.- - - -	56	50	56	43	14

ANNUAL FARM BUSINESS REPORT ON THIRTY-FIVE FARMS
IN WILL COUNTY, ILLINOIS, 1934

P. E. Johnston, T. R. Hedges, and J. B. Andrews*

The farm earnings of 35 account-keeping farmers in Will County showed an increase in 1934 over those of 1933. This is the second consecutive year of improvement in the business of these farms. The three years previous to 1933 showed very low returns.

These 35 accounts show for 1934 an average net income of \$752 per farm, as compared with an average of \$692 in 1933, and an average net loss of \$224 in 1932. The average cash income in 1934 was \$3 261 per farm, the cash business expenditures \$1 698 per farm, leaving a cash balance of \$1 563 to meet interest payments and family living expenses. (Those who keep home account books use the latter figure to represent the cash contribution of the farm to the "realized family income".) An inventory decrease of \$121 per farm occurred in 1934 when, chiefly because of reduced yields resulting from the drouth, the increase in the feed and grain inventory was not sufficient to offset the decreases in the farm improvements and machinery. This decrease, subtracted from the cash balance, resulted in an average excess of receipts over expenses of \$1,442 per farm.

These data must not be considered representative of average farm conditions, for they were secured from farms which are larger than average and, were managed by farmers who are more efficient than the average of all farmers in the county.

For the state as a whole, farm earnings were better in 1934 than in 1933, in spite of the fact that corn and oat yields were very low due to the drouth and to chinch bug damage. In the western and southwestern parts of the state the drouth caused an almost total failure of both corn and oats, which accounts for farm earnings being lower there than in other parts of the state.

The corn crop was best in the southeastern part of the state, and was fair in the northwestern section. Wheat yields were particularly good in the south and central portions of the state. Soybean yields were very good throughout the state, and there was a larger than normal acreage in Illinois in 1934. This state produced over half of the nation's 1934 crop of soybeans.

Chinch bug damage extended over most of the state last year, but was much more severe in some sections than in others, and was much worse on some farms than on other farms in the same community. Conditions affecting crop yields were very spotted; which accounts in part for the wide variation in farm earnings from one section of the state to another, and the wider variations than usual from one farm to another.

* L. W. Brahan, farm adviser in Will County, cooperated in supervising and collecting the records on which this report is based.

Industries other than agriculture again showed improved earnings over the previous year. A group of 340 industrial corporations reported by a nationally known bank showed average earnings of 5.0 percent on their invested capital in 1934, as compared with 3.4 percent for the same corporations in 1933. A similar group had a loss of one-tenth of one percent in 1932 and average earnings of 3.3 percent in 1931.

In comparing the average earnings of corporations with the rate earned on investment on accounting farms, it is well to keep in mind that in corporation accounting, charges are made for management, while in the farm accounts no comparable deduction has been made. On the other hand the farmer and his family receive food, fuel, and other items of living from the farm for which the farm has received no credit in the records used in this report. For the average central Illinois farm family, consisting of five persons, the value of the food and fuel furnished by the farm was about \$250 in 1934, when estimated on the basis of the wholesale price for farm products.

Variations in Farm Incomes

There was a much wider range in farm earnings on the accounting farms in 1934 than in 1933. This was true for the farms included in this report, and was also true when the average earnings of farms in one section of the state are compared with the earnings of farms in other areas.

The extremely wide range in earnings was due to a combination of physical and economic factors. The average yields of wheat and soybeans were much better, compared with the five-year average, than the average yields of corn and oats. This variation favored those sections which had larger acreages of the higher yielding crops in 1934. There was also a wide range in average corn yields from one section of the state to another, as well as between individual farms in the same area. The price of grains was high in 1934 as compared with prices of livestock and livestock products. Farms where grain sales constitute a large part of the farm income thus had an advantage. The rapid increase in the prices of farm products, particularly grains, favored those farms which had large stocks of salable products on hand at the beginning of the year. Many farmers who inventoried the corn on hand at the beginning of 1934 at 40 cents a bushel, later sold this corn for 80 cents.

In this group of 35 accounting farms, the most successful third shows an average net income of \$1,618, while the average net loss of the least successful third of the farms was \$207. In 1933 the comparable net incomes for the two groups were \$1,466, and \$-57 respectively. Figured on a cash basis the most successful farms had on an average \$1,056 more cash income left with which to meet interest payments and family living expenses, than did the least successful farms.

Investments, Receipts, Expenses and Earnings on
35 Will County Farms in 1934

Items	Your farm	Average of 35 farms	12 most profitable farms	12 least profitable farms
<u>CAPITAL INVESTMENTS</u>				
Land - - - - -		19 362	17 441	21 455
Farm improvements- - - - -		4 924	4 062	5 309
Livestock total- - - - -		<u>1 665</u>	<u>1 606</u>	<u>1 468</u>
Horses - - - - -		370	344	341
Cattle - - - - -		1 065	1 014	918
Hogs - - - - -		138	159	118
Sheep- - - - -		8	14	---
Poultry- - - - -		84	75	91
Machinery and equipment- - - -		1 579	1 864	1 603
Feed and grains- - - - -		1 396	1 620	1 481
Total capital investment	\$ _____	\$28 926	\$26 593	\$31 316
<u>RECEIPTS AND NET INCREASES</u>				
Livestock total- - - - -		<u>1 993</u>	<u>2 217</u>	<u>1 591</u>
Horses - - - - -		16	13	29
Cattle - - - - -		328	515	297
Hogs (including AAA payments)		350	457	338
Sheep- - - - -		33	88	---
Poultry- - - - -		59	63	40
Egg sales- - - - -		133	130	125
Dairy sales- - - - -		1 074	951	762
Feed and grains (including AAA payments) - - - - -		586	1 103	359
Labor off farm - - - - -		54	78	27
Miscellaneous receipts - - - -		7	13	2
Total receipts & net increases	\$ _____	\$ 2 640	\$ 3 416	\$ 1 979
<u>EXPENSES AND NET DECREASES</u>				
Farm improvements- - - - -		232	182	326
Horses - - - - -		---	---	---
Miscellaneous livestock decreases		---	---	---
Machinery and equipment- - - -		400	421	500
Feed and grains- - - - -		---	---	---
Livestock expense- - - - -		31	26	15
Crop expense - - - - -		149	154	158
Hired labor- - - - -		159	171	164
Taxes- - - - -		195	182	233
Miscellaneous expenses - - - -		32	30	33
Total expenses & net decreases	\$ _____	\$ 1 198	\$ 1 146	\$ 1 429
<u>RECEIPTS LESS EXPENSES-</u> - - - -	\$ _____	\$ 1 442	\$ 2 270	\$ 550
Total unpaid labor- - - - -		690	652	757
Operator's labor - - - - -		513	540	540
Family labor - - - - -		177	112	217
Net income from investment and management- - - - -		752	1 613	-207
<u>RATE EARNED ON INVESTMENT</u> - - - -	%	<u>2.60%</u>	<u>6.08%</u>	<u>-.66%</u>
Return to capital and operator's labor and management- - - - -		1 265	2 158	333
% of capital invested- - - - -		1 446	1 330	1 566
LABOR AND MANAGEMENT WAGE	\$ _____	\$ 181	\$ 228	\$ 1 233

The following table shows the number of farms having certain net incomes per acre. There was a marked difference between the most successful and the least successful farms.

<u>Average net in-</u> <u>come per acre</u>	<u>Number of</u> <u>farms</u>	<u>Average net in-</u> <u>come per acre</u>	<u>Number of</u> <u>farms</u>
\$13.	1	\$3.	6
11.	1	1.	3
9.	7	-1.	4
7.	7	-3 and under. . .	4
5.	2		

A further study of the farm businesses, made by comparing the investments, receipts, and expenses of the group of farms with the highest net incomes with those having the lowest, should throw some light on the question of why some farmers are more successful than others. This comparison is shown in the table on page 3.

The most successful farms averaged 168 acres each, the least successful 219. Chiefly because of their smaller investments in land and improvements, the most successful group had smaller total investments than either the least successful group, or the average of all accounting farms. However, in spite of their smaller size, the most successful group received over three times as much income from feed and grain as the least successful group. This difference was one of the two chief factors accounting for the difference in total income between the two groups, the other factor being the higher income from livestock and livestock products. The most successful group also had less total expense per farm, and per acre, including the charge for family labor, than either the least successful or the average of all accounting farms.

Changes in Inventories and Inventory Values

The year 1934 was similar to 1933 in that the prices of farm products continued to advance, causing further increases in inventory values. Owing to the poor crop yields in 1934, there were fewer bushels of grain on hand to inventory at the end of the year than at the beginning. The value of the smaller amount of grain, however, was greater than for the larger amount on hand at the beginning of the year.

Bushels of Corn Inventoried

	Jan. 1, 1934	Dec. 31, 1934
Average of all farms.	1 310	425
Average of 12 most successful farms . .	1 424	311
Average of 12 least successful farms. .	1 475	620
Your farm		

The least profitable farms had more bushels of corn inventoried at the beginning and at the end of the year, however, the total value of all feed and grain on the most profitable farms was inventoried at \$139 more at the beginning of the year, and \$279 more at the end of the year, than on the least profitable farms. These larger inventories of feeds and grains other than corn may be explained by the larger acreage of hay and feed crops on the most profitable farms.

For the accounting farms in Will County there was an average inventory decrease of \$121 per farm in 1934, as compared with average inventory decreases of \$59 per farm in 1933 and \$895 per farm in 1932. The inventory of total livestock showed an increase of \$9, while feed and grains increased \$81. The machinery inventory decreased \$92, and farm improvements decreased \$119. Many individual farms showed an increase in the machinery inventory due to the value of new replacements during the year exceeding depreciation costs.

Inventory Changes for 1934

Items	Beginning inventory 1-1-34	Closing inventory 12-31-34	Inventory changes 1934	Inventory changes your farm
Total livestock.	\$1 665	\$1 674	\$ 9	\$
Feed and grains.	1 396	1 477	81	
Machinery.	1 579	1 487	-92	
Improvements (except residence)	4 924	4 805	-119	
Total.	\$9 564	\$9 443	\$-121	\$

Some Adjustments on Will County Farms Since 1929

Farmers have been forced to make adjustments in their cash expenditures as the result of changes in their cash incomes. From 1929 through 1933 farm operating costs declined each year, but the year 1934 brought a reversal of this trend. Total operating expenses were 9 cents an acre higher in 1934 than in 1933, while cash operating expenses were \$1,698 a farm in 1934, as compared with \$1,327 in 1933. This increase in cash operating expense of \$371 in 1934 can be attributed very largely to the increase in cash expenditures for feed and grain, and for machinery and supplies for machinery. The increase in expense for feed and grain may be attributed to the drouth, but, because of postponement of needed machinery replacements during the four years beginning with 1929, an even greater expansion of spending for machinery may be expected as soon as incomes will permit.

Cash Income and Expenses on Accounting Farms in Will County
1929 and 1934

Items	Your farm 1934	Average cash expense per farm 1934	1929	Your farm 1934	Average cash income per farm 1934	1929
Livestock	\$	\$ 266	\$ 824	\$	\$2 250	\$4 577
Feed and grains		369	406		874	1 387
Machinery		383	728		75	83
Improvements.		114	378		1	2
Labor		159	419		54	38
Miscellaneous		32	40		7	9
Livestock expense		31	54		--	--
Crop expense.		149	203		--	--
Taxes		195	320		--	--
Total	\$	\$1 698	\$3 372	\$	\$5 261	\$6 596
Excess of cash sales over expenses.	\$			\$	\$1 563	\$3 224
Increase in inventory					-121	-188
Income to labor and capital (Receipts less expenses)					1 442	3 036

The cumulative effect of several years of low agricultural prices on the demand for manufactured goods can be readily ascertained by a comparison of cash expenditures in 1934 with those in 1929. The average accounting farm in Will County spent 51 percent of the cash income as operating expenses in 1929, while in 1934 the average accounting farm spent 52 percent. The relationship, therefore, between cash income and expenses for the two years is the same, but the 1934 cash income and expenses are only 50 percent as large as 1929. There was, however, considerable difference in the distribution of the expense items. In 1934 the livestock purchases were 32 percent, and feed and grain purchases 91 percent as large as in 1929. In 1934 these farms paid 53 percent as much for machinery, and 73 percent as much for crop expense as in 1929, while taxes were reduced to only 61 percent of the 1929 level.

Comparison of Farms With High and Low Earnings

The most profitable farms in this study had net receipts per acre of \$8.59, as compared with \$-.95 for the least profitable group. The reasons for this difference may be obtained from a study of the data on pages 3 and 8.

Although smaller and having less total investments, the most profitable farms had larger investments in both livestock and feed and grains on which to make a profit when prices advanced. The higher yields of the principal grains more than offset the smaller acreages of these crops on the most profitable farms, while the larger acreage of legumes and other feed crops, the yields of which were not so severely affected by the drouth, was a significant factor in accounting for much larger increases in feeds other than grains on the most profitable farms.

The most profitable group had more livestock and fed more feed, both per acre and total, than the least profitable group. The returns per acre from productive livestock were \$11.70 for the most profitable group and \$7.14 for the least profitable group. Income per litter was \$27 higher, and dairy sales per cow \$14 higher, on the most profitable farms. Returns for each \$100 of feed fed to livestock were \$135 as compared with \$118 for the least profitable group.

An interesting and unusual situation is presented by the fact that returns for each \$100 of feed fed were \$140 for the average of all accounting farms. This is \$5 higher than for the most profitable third. The middle group, data for which are not shown in the table, averaged \$160 returns from cattle receipts and increases, and \$1,550 returns from dairy sales, while the averages for these two items for the most profitable group were \$515 and \$951 respectively. The \$172 return to farms in the middle group for each \$100 of feed fed was sufficient to raise the average of all accounting farms for this factor to \$140, or \$5 more than the most profitable group. However, returns for each \$100 invested in cattle, including both cattle receipts and increases and dairy sales were \$154 for the most profitable group as compared with \$136 for the middle group. The comparable figure for the average of all accounting farms was \$136.

The larger income on the most profitable farms was secured with a total operating cost of \$9.54 per acre, as compared with \$10.00 per acre for the least profitable farms. The man labor costs per \$100 gross income were \$22 on the most profitable farms, as compared with \$40 on the least profitable farms.

Influence of AAA Programs on Cropping Systems and Farm Incomes

The farm-account records in Illinois were influenced both directly and indirectly by the corn-hog and wheat adjustment programs. A large percentage of accounting farms were under one or both contracts in 1934. The acreages of corn and wheat on these farms were therefore less than normal. This should have resulted in lower operating costs. Corn-hog benefit payments for the entire 1934 program will total about 40 million dollars for the state, while wheat benefit payments will be about 2.4 million dollars.

The benefit payments for accounting farms are indicated in the following table, which shows the average payment for those farms receiving payments, and includes only those payments received by the cooperator before the 1934 books were closed. In some cases only the first corn-hog check is included, while in other cases the second check had been received. The second payments not received, and the third payments will be entered in the 1935 book.

AAA Benefit Payments Received in 1934

	Corn		Wheat		Hogs		Average of all payments ^{1/}
	Number of farms	Amount per farm	Number of farms	Amount per farm	Number of farms	Amount per farm	
1/3 most profitable farms	12	\$108	5	\$290	9	\$106	\$309
1/3 least profitable farms	7	147	3	444	6	57	226
All accounting farms	29	114	12	265	20	84	233

^{1/} Total benefit payments reported by accounting farms under contract for 1934 divided by total number of accounting farms.

On most farms the cash received from benefit payments will more than pay for the year's taxes. As an average for all accounting farms, the payments actually received were \$33 more than sufficient to pay the 1934 taxes.

It is interesting to note the use made of the contracted acres on the accounting farms. The average farm had 20 contracted acres which were used as follows: 4.9 idle; 1.9 red clover; 8.7 soybeans; 2.1 alfalfa; and 2.4 acres were in other crops. These data indicate that most farmers made good use of their contracted acres from the standpoint of soil improvement, for most of them were in legumes. When the government restrictions on the use of crops grown on contracted acres were removed, they were, on many farms, the most profitable crops as they furnished hay and pasture where badly needed in drouth areas. The legumes had the further advantage of being immune to attack from chinch bugs.

Farm earnings were influenced indirectly by the AAA programs in that the reduction in production increased the price of the commodities involved. The drouth was a more important factor in reducing production than the adjustment programs, yet if it had not been for the corn-sealing program there would have been but little corn in the hands of farmers at the time the major price advance became effective.

Factors Helping to Analyze the Farm Business on
35 Will County Farms in 1934

Items	Your farm	Average of 35 farms	12 <u>most</u> profitable farms	12 <u>least</u> profitable farms
Size of farms--acres - - - - -	_____	195.1	188.4	218.7
Percent of land area tillable- - -	_____	87.0	90.0	84.2
Percent of tillable land in hay and pasture- - - - -	_____	35.9	40.5	28.1
Gross receipts per acre- - - - -	_____	13.53	18.13	9.05
Total expenses per acre- - - - -	_____	9.68	9.54	10.00
Net receipts per acre- - - - -	_____	3.85	8.59	-.95
Value of land per acre - - - - -	_____	99	93	98
Total investment per acre- - - - -	_____	148	141	143
Acres in Corn- - - - -	_____	51.1	48.4	54.6
Oats- - - - -	_____	36.1	33.3	45.3
Wheat - - - - -	_____	5.6	5.5	9.4
Soybeans- - - - -	_____	6.4	8.7	8.3
Hay - - - - -	_____	39.2	43.8	34.0
Tillable pasture- - - - -	_____	21.7	25.2	17.8
Crop yields--Corn, bu. per acre- -	_____	12.7	14.2	12.3
Oats, bu. per acre- -	_____	15.1	21.9	11.5
Soybeans, bu. per acre	_____	19.2	23.7	15.8
Value of feed fed to productive L.S.	_____	1 410	1 628	1 324
Returns per \$100 of feed fed to productive livestock- - - - -	_____	140	135	118
Returns per \$100 invested in:				
Cattle- - - - -	_____	139	154	126
Poultry - - - - -	_____	234	254	206
Figs weaned per litter - - - - -	_____	5.6	5.0	5.7
Income per litter farrowed - - - -	_____	85	99	72
Dairy sales per dairy cow- - - - -	_____	99	97	83
Investment in productive L.S. per A.	_____	6.60	7.03	4.76
Receipts from productive L.S. per A.	_____	10.13	11.70	7.14
Man labor cost per crop acre - - -	_____	5.37	5.37	5.36
Machinery cost per crop acre - - -	_____	2.70	2.90	3.00
Power and mach. cost per crop A. -	_____	4.18	4.52	3.92
Farms with tractor - - - - -	_____	71%	92%	33%
Value of feed fed to horses- - - -	_____	235	247	183
Man labor cost per \$100 gross income- - - - -	_____	28	22	40
Expenses per \$100 gross income - -	_____	66	50	96
Farm improvements cost per acre- -	_____	1.19	.97	1.49
Excess of sales over cash expenses	_____	1 563	2 096	1 040
Increase in inventory- - - - -	_____	-121	174	-490
Rate earned on investment- - - - -	_____	2.50%	6.08%	-.66%
Gross receipts per farm- - - - -	_____	2 640	3 416	1 979

Chart for Studying the Efficiency of Various Parts of Your Business,
Will County, 1934

The numbers above the lines across the middle of the page are the averages for the 35 farms included in this report for the factors named at the top of the page. By drawing a line across each column at the number measuring the efficiency of your farm in that factor, you can compare your efficiency with that of other farmers in your locality.

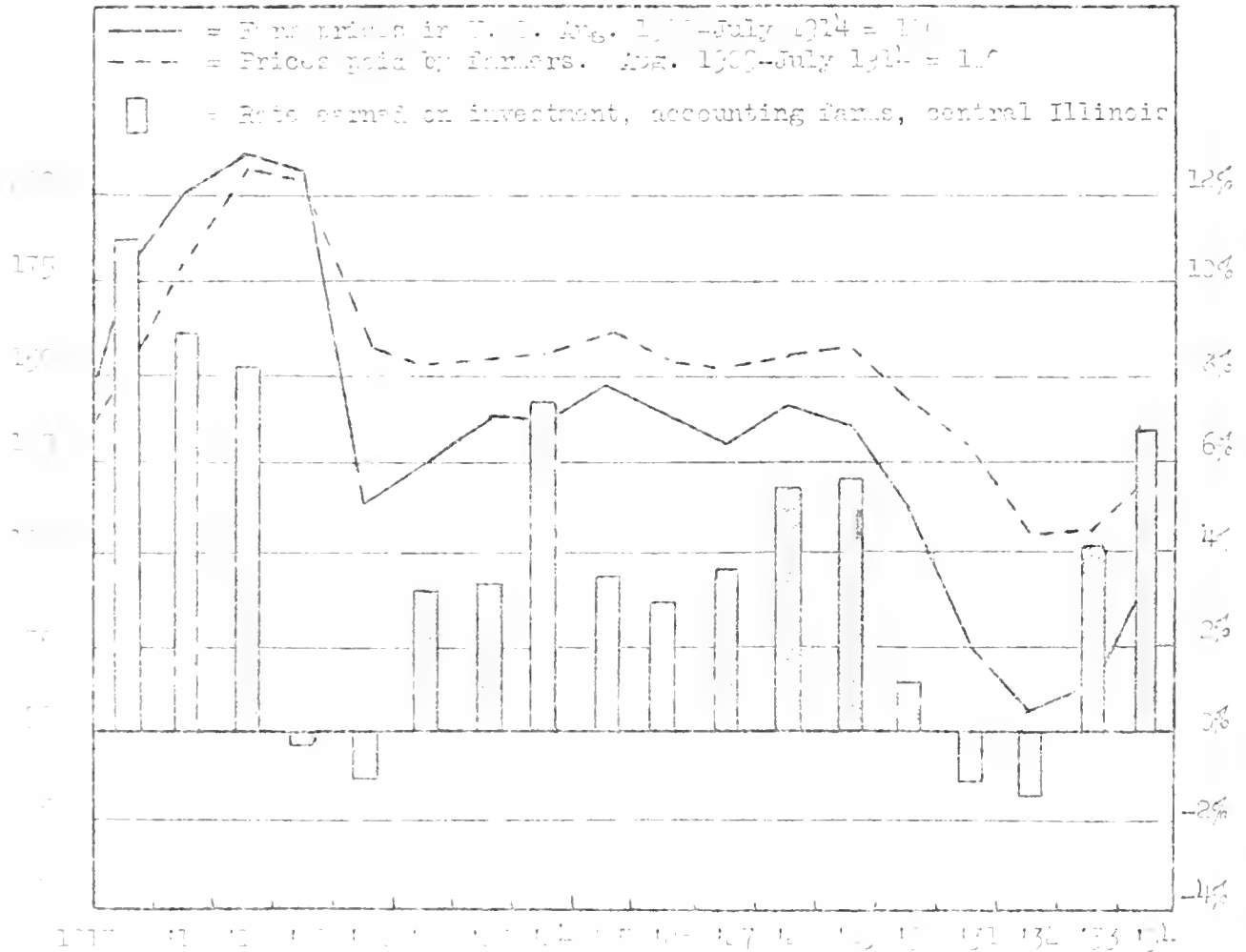
Rate earned on investment	Bushels per acre			Hogs: Income per litter	Dairy sales per dairy cow	Poultry income per \$100 invested	L.S. income per \$100 of feed fed	Cost per crop acre		Labor cost per \$100 gross receipts	Increase in inventory	Sales over cash expenses	Gross receipts		Acres in farm
	Corn	Oats	Soybeans					Labor	Power and machinery				Per acre	Per farm	
9.10	34	42	29	110	149	334	240	1.37	1.18	--	1920	3100	24	5100	440
7.80	30	38	27	105	139	314	220	2.57	1.78	4	1520	2800	22	4600	390
6.50	26	34	25	100	129	294	200	3.27	2.38	10	1120	2500	20	4100	340
5.20	22	30	23	95	119	274	180	3.97	2.98	16	720	2200	18	3600	290
3.90	18	26	21	90	109	254	160	4.67	3.58	22	320	1900	16	3100	240
2.60	14.2	21.9	19.2	85	99	234	140	5.37	4.13	28	-121	1563	13.53	2640	195
1.30	10	18	17	80	89	214	120	6.07	4.78	34	-520	1300	12	2100	140
0	6	14	15	75	79	194	100	6.77	5.38	40	-920	1000	10	1600	90
-1.30	2	10	13	70	69	174	80	7.47	5.98	46	-1320	7000	8	1100	40
-2.60	--	6	11	65	59	154	60	8.17	6.58	52	-1720	4000	6	600	--
-3.90	--	2	9	60	49	134	40	8.87	7.18	58	-2120	1000	4	100	--

Influence of Price Changes on Farm Earnings

Farm prices in 1934 advanced more rapidly than did the prices of commodities which farmers bought. Farmers of the United States as a group could exchange their farm products in 1934 for 74 percent as many goods as for the period 1909-14, while in 1933 they received only 61 percent, and 1932 only 51 percent as much in exchange for what they had to sell as in the pre-war period. In the month of February, 1935, this index of purchasing power had increased to 77 percent of pre-war, the index of farm prices having risen to 111 as compared with an index of 107 for commodities which farmers buy. When the line representing farm prices drops below the line representing prices paid by farmers, farm earnings are very low, but when these lines come close together farm earnings increase. (See following graph.)

Index of Prices

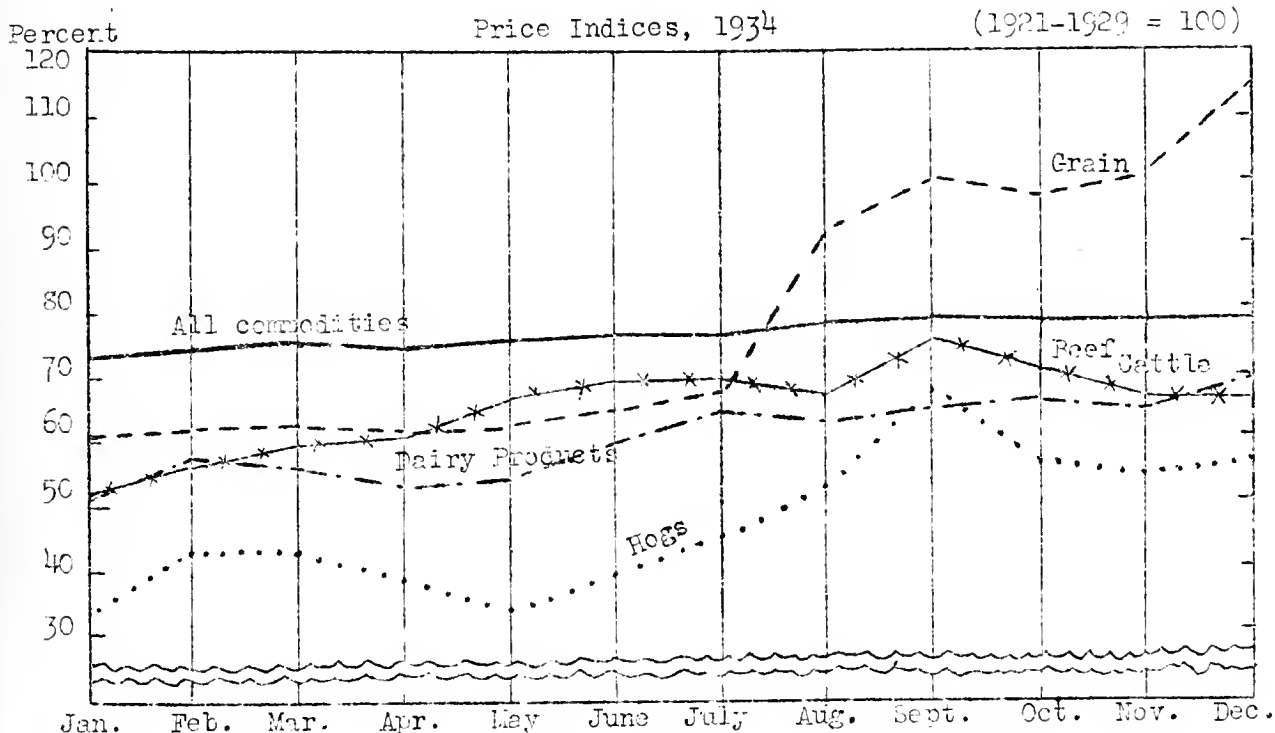
Rate Earned



Since the price of some farm products advanced much more rapidly during 1934 than other products, it is evident that some farms would benefit more than others, depending upon the kind and quantity of products sold. Grain prices advanced much more rapidly than livestock prices; which resulted in a very bad price ratio for farmers who buy large quantities of feed. The average Illinois farm price of corn was 41 cents a bushel in January, 1934; it advanced steadily until the end of the year when it was 88 cents a bushel. Other grains made marked advance although not so great an advance as corn. The price of hogs fluctuated from a low of \$3.20 a hundred in May to a high of \$6.30 in September. The low point in the fall came in November when the average price was \$5.10. The price has advanced quite rapidly since November, the average price being \$7.50 for February, 1935. Beef cattle were worth \$4.10 a hundred in January, 1934 and advanced each month until September, when the price was \$5.90. They dropped to \$5.20 in December but increased again to \$7.40 for February, 1935.

The year 1934 set a record for the reduction in the numbers of livestock. The percentage decreases by species were as follows: horses, 1.1 percent; mules, 2.6 percent; all cattle, 11.2 percent; sheep, 4.7 percent; hogs, 35.3 percent. When all species are combined on the basis of their capacity to consume feed, the reduction was 13 percent. This reduction will greatly reduce the demand for feeds produced in 1935.

The relative change in prices of important commodities may be noted in the following graph, which shows the average Illinois farm prices by months as a percentage of the average prices for the period 1921-1929.



All commodities index represents the wholesale price of a large number of commodities for the United States, as computed by Bureau of Labor Statistics. Grain and livestock indices represent average monthly farm prices in Illinois.

Variation in Earnings Over Five-Year Period

A comparison of production, income, and expenditures on the accounting farms in Will County for the last five years is very interesting because of the violent changes in price level. 1934 was the second year of very low crop yields, yet total receipts per farm were higher than in any other year in the last three, and were 54 percent of the 1929 gross receipts. Operating costs per acre were lower than in any year of the five except 1933. Thus profits were the best the county had experienced since 1929.

Earnings in 1935 as usual will depend upon individual efficiency, weather and prices. A normal year will mean larger yields of grain and probably lower prices.

Comparison of Earnings and Investments on Accounting Farms in
Will County for 1930-1934

Items	1930	1931	1932	1933	1934
Number of farms - - - - -	31	30	30	30	35
Average size of farms, acres- -	205	200	214	191	195
Average rate earned, to pay for management, risk and capital -	1.5%	-1.7%	-.7%	2.4%	2.6%
Average labor and management wage	\$-747	\$-1 821	\$-1 391	\$-206	\$-181
Gross income per acre - - - - -	16.74	9.57	9.18	13.21	13.53
Operating cost per acre - - - - -	13.47	12.67	10.23	9.59	9.68
Average value of land per acre-	147	119	101	102	99
Total investment per acre - - -	211	179	158	151	148
Investment per farm in:					
Total livestock- - - - -	2 824	2 809	2 440	1 728	1 665
Cattle - - - - -	1 732	1 774	1 649	1 055	1 065
Hogs - - - - -	473	474	250	181	158
Poultry- - - - -	170	149	110	106	84
Gross income per farm - - - - -	3 436	1 913	1 968	2 523	2 640
Income per farm from:					
Crops- - - - -	564	---	---	852	586
Miscellaneous income - - -	25	30	49	59	7
Total livestock- - - - -	2 847	1 883	1 919	1 612	1 993
Cattle - - - - -	340	---	451	315	328
Dairy sales- - - - -	1 373	1 232	950	847	1 074
Hogs - - - - -	829	346	320	297	350
Poultry- - - - -	305	250	189	147	59
Average yield of corn in bu.--	30	36	47	24	13
Average yield of oats in bu.--	45	29	50	22	15

ANNUAL FARM BUSINESS REPORT ON FIFTY-FOUR FARMS
IN BOONE, WINNEBAGO, AND McHENRY COUNTIES, ILLINOIS, 1934

P. E. Johnston, T. R. Hedges, and J. Ackerman*

The farm earnings of 54 account-keeping farmers in Boone, Winnebago, and McHenry Counties showed an increase in 1934 over those of 1933. This is the second consecutive year of improvement in the business of these farms. The three years previous to 1933 showed very low returns.

These 54 accounts show for 1934 an average net income of \$1,337 per farm, as compared with an average of \$937 in 1933, and an average net loss of \$213 in 1932. The average cash income in 1934 was \$4,125 per farm, the cash business expenditures \$2,512 per farm, leaving a cash balance of \$1,613 to meet interest payments and family living expenses. (Those who keep home account books use the latter figure to represent the cash contribution of the farm to the "realized family income".) Besides the cash income there was an inventory increase of \$372 per farm due to the rise in the prices of farm products. This increase, added to the cash balance, resulted in an average excess of receipts over expenses of \$1,985 per farm. The inventory increase was a larger part of the total farm income in 1934 than in 1933.

These data must not be considered representative of average farm conditions, for they were secured from farms which are larger than average, and which were managed by farmers who are more efficient than the average of all farmers in the county.

For the state as a whole, farm earnings were better in 1934 than in 1933 in spite of the fact that corn and oat yields were very low due to the drouth and to chinch bug damage. In the western and southwestern parts of the state the drouth caused an almost total failure of both corn and oats. This accounts for farm earnings being lower there than in other parts of the state.

The corn crop was best in the southeastern part of the state and was fair in the northwestern section. Wheat yields were particularly good in the south and central portions of the state. Soybean yields were very good throughout the state, and there was a larger than normal acreage in Illinois in 1934. This state produced over half of the nation's 1934 crop of soybeans.

Chinch bug damage extended over most of the state last year but was much more severe in some sections than in others and was much worse on some farms than other farms in the same community. Conditions affecting crop yields were very spotted. This accounts in part for the wide variation in farm earnings from one section of the state to another, and the wider variations than usual from one farm to another.

* Edward C. Foley, C. H. Keltner, and W. A. Herrington, farm advisers in Boone, Winnebago, and McHenry Counties, cooperated in supervising and collecting the records on which this report is based.

Industries other than agriculture again showed improved earnings over the previous year. A group of 840 industrial corporations reported by a nationally known bank showed average earnings of 5.0 percent on their invested capital in 1934, as compared with 3.4 percent for the same corporations in 1933. A similar group had a loss of one-tenth of one percent in 1932 and average earnings of 3.3 percent in 1931.

In comparing the average earnings of corporations with the rate earned on investment on accounting farms it is well to keep in mind that in corporation accounting, charges are made for management, while in the farm accounts no comparable deduction has been made. On the other hand, the farmer and his family receive food, fuel, and other items of living from the farm for which the farm has received no credit in the records used in this report. For the average central Illinois farm family, consisting of five persons, the value of the food and fuel furnished by the farm was about \$250 in 1934, when estimated on the basis of the wholesale price for farm products.

Variations in Farm Incomes

There was a much wider range in farm earnings on the accounting farms in 1934 than in 1933. This was true for the farms included in this report and it was also true when the average earnings of farms in one section of the state are compared with the earnings of farms in other areas.

The extremely wide range in earnings was due to a combination of physical and economic factors. The average yields of wheat and soybeans were much better, compared with the five-year average, than the average yields of corn and oats. This variation favored those sections which had larger acreages of the higher yielding crops in 1934. There was also a wide range in average corn yields from one section of the state to another, as well as between individual farms in the same area. The price of grains was high in 1934 as compared with prices of livestock and livestock products. Farms where grain sales constitute a large part of the farm income thus had an advantage. The rapid increase in the prices of farm products, particularly grains, favored those farms which had large stocks of salable products on hand at the beginning of the year. Many farmers who inventoried the corn on hand at the beginning of 1934 at 40 cents a bushel, later sold this corn for 80 cents.

In this group of 54 accounting farms the most successful third shows an average net income of \$2,629, while the average net income of the least successful third of the farms was only \$174. In 1933 the most successful third showed a net income of \$2,148, while the least successful third showed a net loss of \$26.

-3-
Investments, Receipts, Expenses and Earnings on
Boone, Winnebago and McHenry County Farms in 1934

Items	Your farm	Average of 54 farms	18 most profitable farms	18 least profitable farms
<u>CAPITAL INVESTMENTS</u>				
Land - - - - -		15 088	16 666	13 724
Farm improvements- - - - -		6 430	6 270	5 825
Livestock total- - - - -		<u>2 632</u>	<u>2 571</u>	<u>2 345</u>
Horses - - - - -		397	415	429
Cattle - - - - -		1 797	1 687	1 549
Hogs - - - - -		273	298	241
Sheep- - - - -		71	63	48
Poultry- - - - -		94	108	78
Machinery and equipment- - - - -		1 555	1 584	1 238
Feed and grains- - - - -		1 538	1 700	1 266
Total capital investment	\$	<u>\$27 243</u>	<u>\$28 791</u>	<u>\$24 398</u>
<u>RECEIPTS AND NET INCREASES</u>				
Livestock total- - - - -		<u>3 387</u>	<u>3 367</u>	<u>2 635</u>
Horses - - - - -		12	11	25
Cattle - - - - -		561	551	389
Hogs (including AAA payments)-		695	855	496
Sheep- - - - -		173	331	62
Poultry- - - - -		70	101	34
Egg sales- - - - -		150	186	96
Dairy sales- - - - -		1 726	1 832	1 533
Feed and grains (including AAA payments) - - - - -		---	730	---
Labor off farm - - - - -		63	82	35
Miscellaneous receipts - - - - -		9	18	---
Total receipts & net increases	\$	<u>\$ 3 459</u>	<u>\$ 4 697</u>	<u>\$ 2 670</u>
<u>EXPENSES AND NET DECREASES</u>				
Farm improvements- - - - -		265	240	272
Horses - - - - -		---	---	---
Miscellaneous livestock decreases		---	---	---
Machinery and equipment- - - - -		393	369	348
Feed and grains- - - - -		54	---	514
Livestock expense- - - - -		49	51	42
Crop expense - - - - -		155	165	150
Hired labor- - - - -		294	321	241
Taxes- - - - -		231	234	216
Miscellaneous expenses - - - - -		33	34	24
Total expenses & net decreases	\$	<u>\$ 1 474</u>	<u>\$ 1 414</u>	<u>\$ 1 807</u>
<u>RECEIPTS LESS EXPENSES-</u>				
Total unpaid labor- - - - -	\$	<u>\$ 1 985</u>	<u>\$ 3 283</u>	<u>\$ 863</u>
Operator's labor - - - - -		648	654	689
Family labor - - - - -		509	533	495
Family labor - - - - -		139	121	194
Net income from investment and management - - - - -		1 337	2 629	174
RATE EARNED ON INVESTMENT - - - - -	%	<u>4.91%</u>	<u>9.14%</u>	<u>.71%</u>
Return to capital and operator's labor and management - - - - -		1 846	3 162	669
% of capital invested- - - - -		1 362	1 440	1 220
LABOR AND MANAGEMENT WAGE - - - - -	\$	<u>\$ 484</u>	<u>\$ 1 722</u>	<u>\$ - 551</u>

The following table shows the number of farms having certain net incomes per acre. There was a marked difference between the most successful and the least successful farms.

<u>Average net income per acre</u>	<u>Number of farms</u>	<u>Average net income per acre</u>	<u>Number of farms</u>
\$23	1	\$ 9	1
21	0	7	10
19	0	5	10
17	1	3	10
15	2	1	5
13	3	-1	4
11	5	-3	1

A further study of the farm businesses made by comparing the investments, receipts, and expenses of the group of farms having the highest net income, with those having the lowest income will throw some light on the question of why some farmers are more successful than others. This comparison is shown in the table on page 3.

The most profitable farms averaged 227.0 acres each, the least profitable 123.5 acrs. This difference in size accounts in part for the variation in the average investments and receipts in the two groups. Difference in the receipts from the sale of livestock, livestock products, and grains accounts for most of the difference in income between the two groups. The most profitable farms had less total expense per farm and per acre, including the charge for family labor, than the least profitable farms.

The year 1934 was similar to 1933 in that the prices of farm products continued to advance, causing further increases in inventory values. Owing to the poor crop yields in 1934, there were fewer bushels of grain on hand to inventory at the end of the year than at the beginning. The value of the smaller amount of grain, however, was greater than for the larger amount on hand at the beginning of the year.

Bushels of Corn Inventoried

	Jan. 1, 1934	Dec. 31, 1934
Average of all farms	1 105	534
Average of 18 most successful farms . .	1 406	896
Average of 18 least successful farms . .	845	220
Your farm		

The most profitable farms had a larger inventory of corn, both at the beginning and at the end of the year than either the average of all farms, or the least profitable farms. This difference, with the rapid rise in corn prices, was an important factor in accounting for a considerable part of their higher receipts and net increases from feed and grain.

The average inventory increase for the accounting farms in Boone, Winnebago, and McHenry counties was \$372 per farm in 1934, as compared with \$135 in 1933, and an inventory loss of \$1,305 per farm in 1932. There were increases of \$260 in feed and grains, \$209 in total livestock, and \$27 in machinery, while improvements showed a decrease of \$124 per farm. Such an increase in inventory as that for machinery results from the value of new replacements during the year being in excess of depreciation costs. This increase is of considerable interest, for it is the first time that such an increase in machinery inventories has occurred since farm earnings began to decline so drastically with the general depression.

Inventory Changes for 1934

Items	Beginning inventory 1-1-34	Closing inventory 12-31-34	Inventory changes 1934	Inventory changes, your farm
Total livestock.	\$2 632	\$2 841	\$209	\$
Feed and grains.	1 538	1 798	260	
Machinery.	1 555	1 582	27	
Improvements (except residence)	6 430	6 306	-124	
Total.	\$12 155	\$12 527	\$372	\$

Some Adjustments on Boone, Winnebago, and McHenry County Farms Since 1929

Farmers have been forced to make adjustments in their cash expenditures as the result of changes in their cash incomes. Total operating expenses were \$10.05 per acre in 1934, as compared with \$10.17 per acre in 1933, while cash operating expenses were \$2,512 per farm in 1934, as compared with \$2,074 per farm in 1933. This increase in cash operating expense of \$438 in 1934 can be attributed very largely to the increase in cash expenditure for feed and grain, due to the low crop yields, and the increase in expenditures for machinery, labor and crop expense. The expenditures for livestock and taxes were less in 1934 than 1933. If farm incomes continue to increase, indications point to an expansion of spending in 1935, particularly for machinery and improvements, since farmers have postponed replacements and repairs of these items during the five-year period since 1929.

Cash Income and Expenses on Accounting Farms in Boone, Winnebago, and McHenry Counties for 1929 and 1934

Items	Your farm	Average cash expense per farm		Your farm	Average cash income per farm	
	1934	1934	1929	1934	1934	1929
Livestock	\$	\$ 474	\$ 870	\$	\$3 652	\$6 068
Feed and grains		613	671		299	317
Machinery		518	822		98	114
Improvements.		145	267		4	2
Labor		294	440		63	30
Miscellaneous		33	34		9	26
Livestock expense		49	98		---	---
Crop expense.		155	196		---	---
Taxes		231	278		---	---
Total	\$	\$2 512	\$3 676	\$	\$4 125	\$6 557
Excess of cash sales over expenses.	\$			\$	\$1 613	\$2 881
Increase in inventory					372	277
Income to labor and capital (Receipts less expenses). . .					1 985	3 158

The cumulative effect of several years of low agricultural prices on the demand for manufactured goods can readily be ascertained by a comparison of cash farm expenditures in 1934 with those in 1929. While the average cash income in 1934 was only 63 percent of that in 1929, cash expenditures were 68 percent as large. In 1934, livestock purchases were 54 percent and feed and grain purchases 91 percent as large as in 1929. In 1934 these farms paid out 63 percent as much for machinery, 54 percent as much for improvements, and 79 percent as much for crop expense as in 1929, while taxes were reduced to 83 percent of the 1929 level.

Comparison of Farms With High and Low Earnings

The most profitable farms in this study had net receipts per acre of \$11.58 as compared with \$0.95 for the least profitable group. The reasons for this difference may be obtained from a study of the data on pages 3 and 7.

The most profitable farms were more intensive and more efficient in their livestock production than the least profitable farms. They had an investment in productive livestock of \$10.73 per acre, and fed \$2,565 of feed per farm, as compared with \$10.54 invested an acre, and \$2,131 of feed fed per farm on the least profitable farms. The returns per \$100 of feed fed to productive livestock was \$150 on the most profitable farms, as compared with \$122 on the least profitable farms. The dairy sales per dairy cow were \$105 on the most profitable farms, as compared with \$93 on the least profitable farms. The most profitable farms had an income of \$89 per litter farrowed, as compared with an income of \$78 per litter farrowed on the least profitable farms.

The most profitable farms averaged 43.5 acres larger, and had 21.2 acres more corn, 4.4 acres more oats, 6 acres more hay, and 7 acres more tillable pasture than the least profitable farms. The most profitable farms carried larger inventories of feed and grain on which to make a profit when prices advanced. In addition to the larger acreage of crops, another reason for the larger inventories of feed and grain was the higher crop yields, the most profitable farms having an advantage of 10.6 bushels of corn and 1.7 bushels of oats per acre.

Higher total operating expense on the least profitable farms, was an important factor in accounting for the reduced net earnings of this group. The man labor costs were \$6.27 per crop acre on the most profitable farms, as compared with \$7.94 per crop acre on the least profitable farms, while power and machinery costs per crop acre amounted to \$4.34 on the most profitable farms and \$5.04 on the least profitable farms.

The Influence of AAA Programs on Cropping Systems and Farm Incomes

The farm-account records in Illinois were influenced both directly and indirectly by the corn-hog and wheat adjustment programs. A large percentage of accounting farms were under one or both contracts in 1934. The acreages of corn and wheat on these farms were therefore less than normal. This should have resulted in lower operating costs. Corn-hog benefit payments for the entire 1934 program will total about 40 million dollars for the state, while wheat benefit payments will be about 2.4 million dollars.

The benefit payments for accounting farms are indicated in the following table, which shows the average payment for those farms receiving payments, and includes only those payments received by the cooperator before the 1934 books were closed. In some cases only the first corn-hog check is included, while in other cases the second check had been received. The second payments not received and the third payments will be entered in the 1935 book.

AAA Benefit Payments Received in 1934

	Corn		Wheat		Hogs		Average of all payments ^{1/}
	Number of farms	Amount per farm	Number of farms	Amount per farm	Number of farms	Amount per farm	
1/3 most profitable farms	13	\$116	2	\$36	12	\$136	\$173
1/3 least profitable farms	15	79	--	--	14	117	157
All accounting farms	44	90	5	32	40	132	174

^{1/} Total benefit payments reported by accounting farms under contract for 1934 divided by total number of accounting farms.

On many farms the cash received from benefit payments will more than pay for the year's taxes. As an average of all accounting farms, the payments actually received were sufficient to pay 75 percent of the 1934 taxes.

It is interesting to note the use made of the contracted acres on the accounting farms. The average farm had 9.6 contracted acres which were used as follows: 2.7 idle; 0.6 mixed red clover and timothy; 0.2 sweet clover; 2.1 soybeans; 1.0 alfalfa; and 3.0 acres were in other crops. These data indicate that most farmers made good use of their contracted acres from the standpoint of soil improvement, as a large part of them were in legumes. When the Government restrictions on the use of crops grown on contracted acres were removed, they were on many farms the most profitable crops as they furnished hay and pasture where badly needed in drouth areas. The legumes had the further advantage of being immune to attack from chinch bugs.

Farm earnings were influenced indirectly by the AAA programs in that the reduction in production increased the price of the commodities involved. The drouth was a more important factor in reducing production than the adjustment programs, yet if it had not been for the corn-sealing program there would have been but little corn in the hands of farmers at the time the major price advance became effective.

Factors Helping to Analyze the Farm Business on
Boone, Winnebago and McHenry County Farms in 1934

Items	Your farm	Average of 54 farms	15 most profitable farms	18 least profitable farms
Size of farms--acres - - - - -	_____	211.0	227.0	183.5
Percent of land area tillable- - - - -	_____	79.8	83.3	79.5
Percent of tillable land in hay and pasture - - - - -	_____	42.4	41.0	44.2
Gross receipts per acre- - - - -	_____	16.39	20.69	14.55
Total expenses per acre- - - - -	_____	10.05	9.11	13.60
Net receipts per acre- - - - -	_____	6.34	11.58	.95
Value of land per acre - - - - -	_____	72	73	75
Total investment per acre- - - - -	_____	129	127	133
Acres in Corn- - - - -	_____	28.6	40.4	19.2
Oats- - - - -	_____	21.0	23.0	18.6
Wheat - - - - -	_____	2.9	1.6	2.9
Barley- - - - -	_____	14.6	20.6	8.9
Hay - - - - -	_____	34.5	37.4	31.4
Tillable pasture- - - - -	_____	36.9	40.0	33.0
Crop yields--Corn, bu. per acre- - - - -	_____	28.1	32.0	21.4
Oats, bu. per acre- - - - -	_____	15.2	15.5	13.8
Barley, bu. per acre- - - - -	_____	8.8	8.3	8.9
Value of feed fed to productive L.S.	_____	2 444	2 565	2 131
Returns per \$100 of feed fed to productive livestock- - - - -	_____	138	150	122
Returns per \$100 invested in:				
Cattle- - - - -	_____	129	140	124
Poultry - - - - -	_____	220	247	165
Pigs weaned per litter - - - - -	_____	5.8	5.4	6.2
Income per litter farrowed - - - - -	_____	85	89	78
Dairy sales per dairy cow- - - - -	_____	100	105	93
Investment in productive L.S. per A.	_____	11.02	10.73	10.54
Receipts from productive L.S. per A.	_____	16.00	16.99	14.22
Man labor cost per crop acre - - - - -	_____	6.93	6.27	7.94
Machinery cost per crop acre - - - - -	_____	3.00	2.48	3.09
Power and mach. cost per crop A. - - - - -	_____	4.94	4.34	5.04
Farms with tractor - - - - -	_____	81%	83%	78%
Value of feed fed to horses- - - - -	_____	268	288	246
Man labor cost per \$100 gross income- - - - -	_____	26	20	34
Expenses per \$100 gross income - - - - -	_____	61	44	93
Farm improvements cost per acre- - - - -	_____	1.26	1.06	1.48
Excess of sales over cash expenses - - - - -	_____	1 613	1 973	1 024
Increase in inventory- - - - -	_____	372	1 310	-161
Rate earned on investment- - - - -	_____	4.91%	9.14%	.71
Gross receipts per farm- - - - -	_____	3 459	4 687	2 670

Chart for Studying the Efficiency of Various Parts of Your Business,
Boone, Winnebago and McHenry Counties, 1934

The numbers above the lines across the middle of the page are the averages for the 54 farms included in this report for the factors named at the top of the page. By drawing a line across each column at the number measuring the efficiency of your farm in that factor, you can compare your efficiency with that of other farmers in your locality.

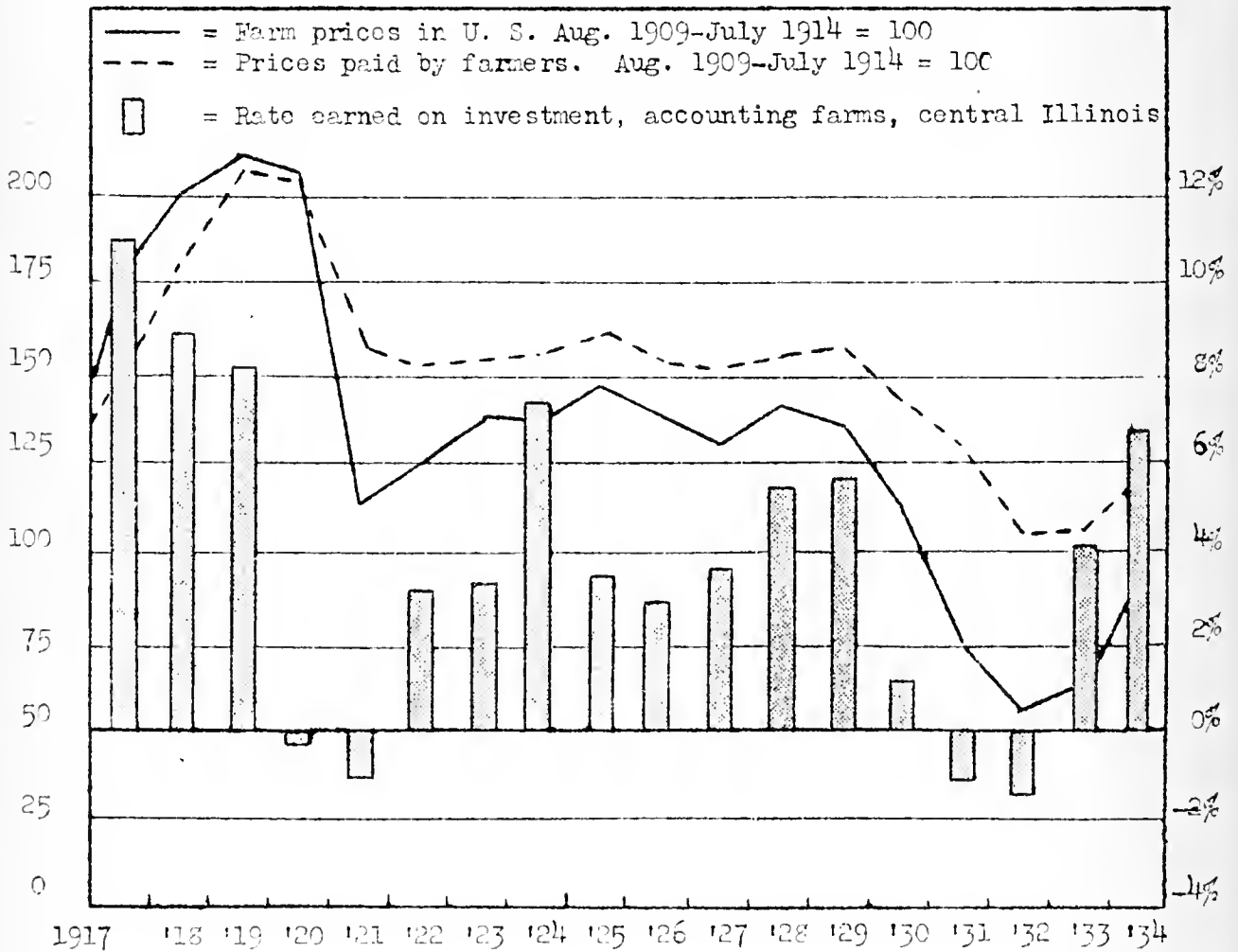
Rate earned on investment	Bushels per acre			Hogs: Income per litter	Dairy sales per dairy cow	Poultry income per \$100 invested	L.S. income per \$100 of feed fed	Cost per crop acre		Labor cost per \$100 gross receipts	Increase in inventory	Sales over cash expenses	Gross receipts		Acres in farm
	Corn	Oats	Barley					Labor	Power and machinery				Per acre	Per farm	
12.4	53	40	19	185	200	420	238	--	--	--	3372	4600	36	6459	361
10.9	48	35	17	165	180	380	218	.13	.14	6	3172	4000	32	5859	331
9.4	43	30	15	145	150	340	198	1.83	1.34	11	2472	3400	28	5259	301
7.9	38	25	13	125	140	300	178	3.53	2.54	16	1772	2800	24	4659	271
6.4	33	20	11	105	120	260	158	5.23	3.74	21	1072	2200	20	4059	241
4.91	28.1	15.2	8.8	85	100	220	138	6.93	4.94	26	372	1613	16.39	3459	211
3.4	23	10	7	65	80	180	118	8.63	6.14	31	-328	1000	12	2859	181
1.9	18	5	5	45	60	140	98	10.33	7.34	36	-1028	400	8	2259	151
.4	13	0	3	25	40	100	78	12.03	8.54	41	-1728	-200	4	1659	121
-1.5	8	--	1	5	20	60	58	13.73	9.74	46	-2428	--	--	1059	91
-3.0	3	--	0	--	--	20	38	15.43	10.94	51	--	--	--	459	61

Influence of Price Changes on Farm Earnings

Farm prices in 1934 advanced more rapidly than did the prices of commodities which farmers bought. Farmers of the United States as a group could exchange their farm products in 1934 for 74 percent as many goods as for the period 1909-1914, while in 1933 they received only 64 percent, and 1932 only 61 percent as much in exchange for what they had to sell as in the prewar period. In the month of February, 1935, this index of purchasing power had increased to 87 percent of prewar, the index of farm prices having risen to 111 as compared with an index of 127 for commodities which farmers buy. When the line representing farm prices drops below the line representing prices paid by farmers, farm earnings are very low, but when these lines come close together farm earnings increase. (See following graph.)

Index of Prices

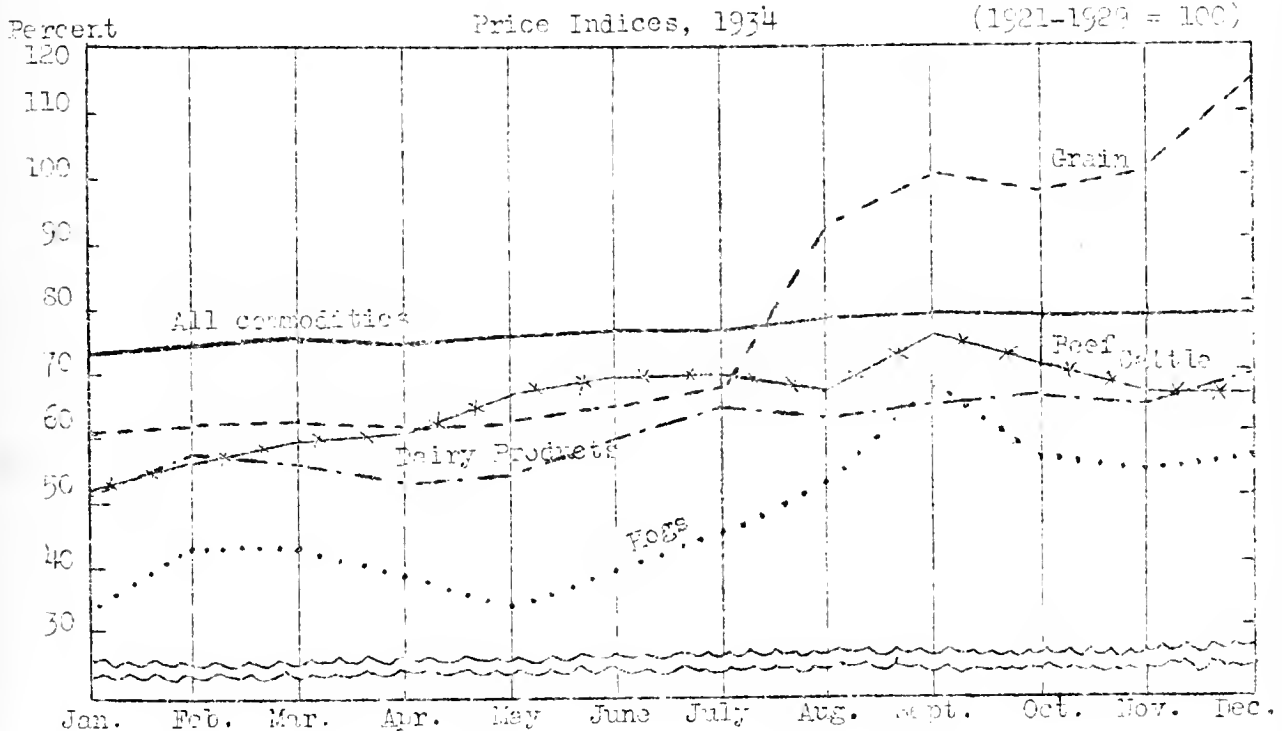
Rate Earned



Since the price of some farm products advanced much more rapidly during 1934 than other products, it is evident that some farms would benefit more than others, depending upon the kind and quantity of products sold. Grain prices advanced much more rapidly than livestock prices; which resulted in a very bad price ratio for farmers who buy large quantities of feed. The average Illinois farm price of corn was 41 cents a bushel in January, 1934; it advanced steadily until the end of the year when it was 88 cents a bushel. Other grains made marked advance although not so great an advance as corn. The price of hogs fluctuated from a low of \$5.20 a hundred in May to a high of \$6.30 in September. The low point in the fall came in November when the average price was \$5.10. The price has advanced quite rapidly since November, the average price being \$7.50 for February, 1935. Beef cattle were worth \$4.10 a hundred in January, 1934 and advanced each month until September, when the price was \$5.90. They dropped to \$5.20 in December but increased again to \$7.40 for February, 1935.

The year 1934 set a record for the reduction in the numbers of livestock. The percentage decreases by species were as follows: horses, 1.1 percent; mules, 2.6 percent; all cattle, 11.2 percent; sheep, 4.7 percent; hogs, 35.3 percent. When all species are combined on the basis of their capacity to consume feed, the reduction was 13 percent. This reduction will greatly reduce the demand for feeds produced in 1935.

The relative change in prices of important commodities may be noted in the following graph, which shows the average Illinois farm prices by months as a percentage of the average prices for the period 1921-1929.



All commodities index represents the wholesale price of a large number of commodities for the United States, as computed by Bureau of Labor Statistics. Grain and livestock indices represent average monthly farm prices in Illinois.

Variation in Earnings Over Five-Year Period

A comparison of production, income, and expenditures on the accounting farms in Boone, Winnebago, and McHenry Counties for the last five years is very interesting because of the violent changes in price level. Crop yields in 1934 were low, yet total receipts per farm were higher than in any other year since 1930, and were 63 percent of the 1929 gross receipts. Operating costs per acre were lower than in any year of the last five. Thus profits were the best these counties have experienced since 1929.

Earnings in 1935, as usual, will depend upon individual efficiency, weather, and prices. With normal weather conditions, prices of grain are likely to go down to a more normal level which will give individual efficiency the responsibility for higher earnings on each farm.

Comparison of Earnings and Investments on Accounting Farms in
Boone, Winnebago, and McHenry Counties for 1930-1934

Items	1930 ^{1/}	1931 ^{1/}	1932 ^{2/}	1933 ^{2/}	1934
Number of farms - - - - -	31	30	37	37	54
Average size of farms, acres- - -	206	203	193	202	211
Average rate earned, to pay for management, risk and capital - -	4.6%	-.8%	-.3%	3.5%	4.9%
Average labor and management wage	\$ 571	\$-1 349	\$-1 095	\$113	\$484
Gross income per acre - - - - -	22.01	15.16	14.25	14.68	16.39
Operating cost per acre - - - - -	14.01	16.49	15.35	10.17	10.05
Average value of land per acre- -	99	87	77	72	72
Total investment per acre - - - -	173	161	143	129	129
Investment per farm in:					
Total livestock- - - - -	4 583	4 000	3 209	2 609	2 632
Cattle - - - - -	3 059	2 611	2 258	1 672	1 797
Hogs - - - - -	727	605	261	305	273
Poultry- - - - -	159	138	126	101	94
Gross income per farm - - - - -	4 537	3 078	2 755	3 051	3 459
Income per farm from:					
Crops- - - - -	548	---	---	604	---
Miscellaneous income - - - -	42	28	50	35	9
Total livestock- - - - -	3 947	3 050	2 705	2 412	3 337
Cattle - - - - -	313	---	9	290	561
Dairy sales- - - - -	2 231	2 022	2 042	1 226	1 726
Hogs - - - - -	965	667	329	570	695
Poultry and eggs - - - - -	316	295	236	222	70
Average yield of corn in bu.- - -	45	44	43	45	28
Average yield of oats in bu.- - -	50	32	44	25	15

^{1/} Records from Boone County only for 1930 and 1931.

^{2/} Records from Boone and Winnebago Counties only for 1932 and 1933.

ANNUAL FARM BUSINESS REPORT ON FORTY-TWO FARMS
IN KENDALL, DUPAGE, LAKE, COOK, AND KANE COUNTIES, ILLINOIS, 1934

P. E. Johnston, A. L. Leonard, and J. Ackerman*

The farm earnings of 42 account-keeping farmers in this area showed an increase in 1934 over those of 1933. This is the second consecutive year of improvement in the business of these farms. The three years previous to 1933 showed very low returns.

These 42 accounts show for 1934 an average net income of \$1,192 per farm, as compared with an average of \$988 in 1933, and an average of \$3 in 1932. The average cash income in 1934 was \$3,935 per farm, the cash business expenditures \$2,297 per farm, leaving a cash balance of \$1,638 to meet interest payments and family living expenses. (Those who keep home account books use the latter figure to represent the cash contribution of the farm to the "realized family income".) Besides the cash income, there was an inventory increase of \$338 a farm due in large part to the rise in prices of farm products. This increase, added to the cash balance, resulted in an average excess of receipts over expenses of \$1,976 a farm. The inventory increase was larger in 1934 than in 1933.

These data must not be considered representative of average farm conditions, for they were secured from farms which are larger than average, and which were managed by farmers who are more efficient than the average of all farmers in the county.

For the state as a whole, farm earnings were better in 1934 than in 1933, in spite of the fact that corn and oat yields were very low due to the drouth and to chinch bug damage. In the western and southwestern parts of the state the drouth caused an almost total failure of both corn and oats. This accounts for farm earnings being lower there than in other parts of the state.

The corn crop was best in the southeastern part of the state, and was fair in the northwestern section. Wheat yields were particularly good in the south and central portions of the state. Soybean yields were very good throughout the state, and there was a larger than normal acreage in Illinois in 1934. This state produced over half of the nation's 1934 crop of soybeans.

Chinch bug damage extended over most of the state last year, but was much more severe in some sections than in others, and was much worse on some farms than on other farms in the same community. Conditions affecting crop yields were very spotted. This accounts in part for the wide variation in farm earnings from one section of the state to another, and the wider variations than usual from one farm to another.

*W. P. Miller, H. S. Wright, H. C. Gilkerson, O. G. Barrett and H. P. Kelly, farm advisers in the above Counties, cooperated in supervising and collecting the records on which this report is based.

Industries other than agriculture again showed improved earnings over the previous year. A group of 840 industrial corporations reported by a nationally known bank showed average earnings of 5.0 percent on their invested capital in 1934, as compared with 3.4 percent for the same corporations in 1933. A similar group had a loss of one-tenth of one percent in 1932, and average earnings of 3.3 percent in 1931.

In comparing the average earnings of corporations with the rate earned on investment on accounting farms, it is well to keep in mind that in corporation accounting, charges are made for management, while in the farm accounts no comparable deduction has been made. On the other hand the farmer and his family receive food, fuel, and other items of living from the farm for which the farm has received no credit in the records used in this report. For the average central Illinois farm family, consisting of five persons, the value of the food and fuel furnished by the farm was about \$250 in 1934, when estimated on the basis of the wholesale price for farm products.

Variations in Farm Incomes

There was a much wider range in farm earnings on the accounting farms in 1934 than in 1933. This was true for the farms included in this report, and it was also true when the average earnings of farms in one section of the state are compared with the earnings of farms in other areas.

The extremely wide range in earnings was due to a combination of physical and economic factors. The average yields of wheat and soybeans were much better, compared with the five-year average, than the average yields of corn and oats. This variation favored those sections which had larger acreages of the higher yielding crops in 1934. There was also a wide range in average corn yields from one section of the state to another, as well as between individual farms in the same area. The price of grains was high in 1934 as compared with prices of livestock and livestock products. Farms where grain sales constitute a large part of the farm income thus had an advantage. The rapid increase in the prices of farm products, particularly grains, favored those farms which had large stocks of salable products on hand at the beginning of the year. Many farmers who inventoried the corn on hand at the beginning of 1934 at 40 cents a bushel, later sold this corn for 80 cents.

In this group of 42 accounting farms, the most successful third shows an average net income of \$3,013, while the average net loss of the least successful third of the farms was \$255. In 1933 the comparable figures for the two groups are a net income of \$2,086, and a net loss of \$178, respectively.

-3-
Investments, Receipts, Expenses and Earnings on 42
Kendall, DuPage, Lake, Cook and Kane County Farms in 1934

Items	Your farm	Average of 42 farms	14 most profitable farms	14 least profitable farms
CAPITAL INVESTMENTS				
Land - - - - -		22 090	29 594	15 894
Farm improvements- - - - -		5 821	6 220	5 264
Livestock total- - - - -		<u>2 366</u>	<u>3 116</u>	<u>1 806</u>
Horses - - - - -		455	563	355
Cattle - - - - -		1 414	1 825	988
Hogs - - - - -		289	414	236
Sheep- - - - -		104	210	89
Poultry- - - - -		104	104	138
Machinery and equipment- - - -		1 818	2 346	1 621
Feed and grains- - - - -		1 524	2 035	924
Total capital investment	\$	\$33 619	\$43 311	\$25 509
RECEIPTS AND NET INCREASES				
Livestock total- - - - -		<u>2 869</u>	<u>3 935</u>	<u>2 055</u>
Horses - - - - -		---	---	---
Cattle - - - - -		457	782	211
Hogs (including AAA payments)		839	1 335	603
Sheep- - - - -		91	200	55
Poultry- - - - -		50	81	36
Egg sales- - - - -		176	197	198
Dairy sales- - - - -		1 256	1 340	952
Feed and grains (including AAA payments) - - - - -		444	1 659	---
Labor off farm - - - - -		69	128	43
Miscellaneous receipts - - - - -		1	2	1
Total receipts & net increases	\$	\$ 3 383	\$ 5 724	\$ 2 099
EXPENSES AND NET DECREASES				
Farm improvements- - - - -		261	283	257
Horses - - - - -		9	36	9
Miscellaneous livestock decreases		---	---	---
Machinery and equipment- - - -		416	556	311
Feed and grains- - - - -		---	---	527
Livestock expense- - - - -		55	75	37
Crop expense - - - - -		156	191	116
Hired labor- - - - -		167	266	113
Taxes- - - - -		313	429	196
Miscellaneous expenses - - - -		30	26	30
Total expenses & net decreases	\$	\$ 1 407	\$ 1 862	\$ 1 596
RECEIPTS LESS EXPENSES- - - - -	\$	\$ 1 976	\$ 3 862	\$ 503
Total unpaid labor- - - - -		734	849	758
Operator's labor - - - - -		553	540	520
Family labor - - - - -		251	309	238
Net income from investment and management - - - - -		1 192	3 013	-255
RATE EARNED ON INVESTMENT - - - -	%	<u>3.54%</u>	<u>6.96%</u>	<u>-1.00%</u>
Return to capital and operator's labor and management - - - - -		1 725	3 553	265
% of capital invested- - - - -		1 681	2 166	1 275
LABOR AND MANAGEMENT WAGE - - - -	\$	\$ 44	\$ 1 387	\$-1 010

The following table shows the number of farms having certain net incomes per acre. There was a marked difference between the most successful and the least successful farms.

<u>Average net income</u> <u>per acre</u>	<u>Number of</u> <u>farms</u>	<u>Average net income</u> <u>per acre</u>	<u>Number of</u> <u>farms</u>
\$13 and over	5	\$ 1	11
11.	3	-1	2
9.	5	-3	2
7.	6	-5	0
5.	3	-7	2
3.	2	-9	1

A further study of the farm businesses, made by comparing the investment, receipts, and expenses of the group of farms having the highest net income with those having the lowest income, will throw some light on the question of why some farmers are more successful than others. This comparison is shown in the table on page 3.

The most successful farms averaged 299 acres each, the least successful 137 acres. This difference in size accounts in part for the variation in the average investments, receipts, and expenses in the two groups. Difference in receipts from the sale of feed and grains, hogs, cattle, and dairy products accounts for most of the difference in income between the two groups. Although the expenses per farm were higher on the most profitable farms, the total expense per acre, including the charge for family labor, was less than it was on the least profitable farms.

The year 1934 was similar to 1933 in that the prices of farm products continued to advance, causing further increases in inventory values. Owing to the poor crop yields in 1934, there were fewer bushels of grain on hand to inventory at the end of the year than at the beginning. The value of the smaller amount of grain, however, was greater than for the larger amount on hand at the beginning of the year.

Bushels of Grain Inventoried

	<u>Corn</u>		<u>Oats</u>	
	<u>Jan. 1, '34</u>	<u>Dec. 31, '34</u>	<u>Jan. 1, '34</u>	<u>Dec. 31, '34</u>
Average of all farms.	1 371	837	596	403
Average of 14 high farms.	1 808	1 564	821	638
Average of 14 low farms	561	211	392	199
Your farm				

The difference in quantities of grain inventoried was one of the factors influencing the difference in earnings. The most profitable farms had a larger inventory of corn and oats, both at the beginning and at the end of the year than did the least profitable farms.

For the accounting farms in Kendall, DuPage, Lake, Cook, and Kane Counties there was an average inventory increase of \$338 per farm in 1934, as compared with \$147 in 1933, and a decrease of \$1,073 per farm in 1932. There were increases of \$389 in feed and grain and \$112 in livestock, and decreases of \$137 in improvements, and \$26 in machinery. The inventory decrease in machinery was the smallest since 1929 on account-keeping farms, and indicates that needed repairs and replacements are being made, but still not enough to offset the current depreciation costs.

Inventory Changes for 1934

Items	Beginning inventory 1-1-34	Closing inventory 12-31-34	Inventory changes 1934	Inventory changes, your farm
Total livestock.	\$2 366	\$2 478	\$112	\$
Feed and grains.	1 524	1 913	389	
Machinery.	1 818	1 792	-26	
Improvements (except residence).	<u>5 821</u>	<u>5 684</u>	<u>-137</u>	
Total.	\$11 529	\$11 867	\$338	\$

Some Adjustments on Kendall, DuPage, Lake, Cook and Kane County Farms Since 1929

Farmers have been forced to make adjustments in their cash expenditures as the result of changes in their cash income. From 1929 through 1934 farm operating costs declined each year. The total operating expenses were 75 cents an acre lower in 1934 than in 1933, while cash operating expenses were \$2,297 a farm in 1934, as compared with \$2,065 a farm in 1933. Low crop yields, combined with the usual large amount of livestock on the farms included in this study, necessitated the purchase of considerable more feed in 1934 than in 1933. Indications point to an increase of expenditure for machinery and improvements in 1935, since farmers have postponed repairs and replacements for these items during the four-year period since 1930.

Cash Income and Expenses on Accounting Farms in Kendall, DuPage, Lake, Cook and Kane Counties for 1929 and 1934

Items	Your farm 1934	Average cash expense per farm		Your farm 1934	Average cash income per farm	
		1934	1929		1934	1929
Livestock	\$	\$ 418	\$1 160	\$	\$3 166	\$5 878
Feed and grains		578	745		633	719
Machinery		448	787		58	127
Improvements.		132	236		8	2
Labor		167	517		69	58
Miscellaneous		30	39		1	4
Livestock expense		55	100		---	---
Crop expense.		156	220		---	---
Taxes		<u>313</u>	<u>318</u>		---	---
Total	\$	<u>\$2 297</u>	<u>\$4 122</u>	\$	<u>\$3 935</u>	<u>\$6 788</u>
Excess of cash sales over expenses.	\$			\$	\$1 638	\$2 666
Increase in inventory					338	529
Income to labor and capital (Receipts less expenses).					1 976	3 195

The cumulative effect of several years of low agricultural prices on the demand for manufactured goods can be readily ascertained by a comparison of cash expenditures in 1934 with those in 1929. The average accounting farm in this area spent 61 percent of the cash income as operating expenses in 1929, while in 1934 the average accounting farm spent 58 percent. The relationship, therefore, between cash income and expenses for the two years is practically the same, but the 1934 cash income was only 58 percent as large as in 1929. There was, however, considerable difference in the distribution of the expense items. In 1934 the livestock purchases were 36 percent, and feed and grain purchases 78 percent as large as in 1929. In 1934 these farms paid 57 percent as much for machinery, 56 percent as much for improvements, and 71 percent as much for crop expense as in 1929, while taxes were 93 percent of the 1929 level.

Comparison of Farms With High and Low Earnings

The most profitable farms in this study had net receipts per acre of \$10.07, as compared with a net loss of \$1.85 per acre for the least profitable group. The reason for this difference may be obtained from a study of the data on pages 3 and 8.

The most profitable averaged 161.9 acres larger, had 47.7 acres more corn, 22.4 acres more oats, 13.2 acres more hay and 16.1 acres more tillable pasture than the least profitable farms. The most profitable farms carried larger inventories of feed and grain on which to make a profit when prices advanced. In addition to the larger acreage, another reason for the larger inventories was the higher crop yields, the most profitable farms having an advantage of 5.6 bushels of corn, and 6.1 bushels of oats per acre. Crop yields were so low on the least profitable farms that they had an average inventory loss of \$447 per farm in spite of the price advance.

The most profitable farms had more livestock per farm, and were more efficient in their livestock production than the least profitable farms. They had an investment in productive livestock of \$9.51 per acre, and fed \$2,567 of feed per farm. The comparable figures for the least profitable farms were \$10.11 invested per acre, and \$1,640 of feed fed per farm. The most profitable farms secured a return of \$153 for each \$100 worth of feed fed, as compared with a return of \$125 for each \$100 worth of feed fed on the least profitable farms. The most profitable farms had an income of \$99 per litter farrowed, as compared with an income of \$81 per litter farrowed on the least profitable farms. Although the most profitable farms had 15.2 dairy cows per farm, as compared with 8.8 dairy cows on the least profitable farms, the dairy sales per dairy cow were only \$88 on the most profitable farms, as compared with \$103 on the least profitable group.

The larger income on the most profitable farms was secured with a total operating cost of \$9.05 per acre, as compared with \$17.13 per acre for the least profitable farms. The man labor costs were \$4.18 per crop acre lower, and power and machinery costs were \$1.30 per crop acre lower for the most successful farms.

Influences of AAA Programs on Cropping Systems and Farm Incomes

The farm-account records in Illinois were influenced both directly and indirectly by the corn-hog and wheat adjustment programs. A large percentage of accounting farms were under one or both contracts in 1934. The acreages of corn and wheat on these farms were therefore less than normal. This should have resulted in lower operating costs. Corn-hog benefit payments for the entire 1934 program will total about 40 million dollars for the state, while wheat benefit payments will be about 2.4 million dollars.

The benefit payments for accounting farms are indicated in the following table, which shows the average payment for those farms receiving payments, and includes only those payments received by the cooperator before the 1934 books were closed. In some cases only the first corn-hog check is included, while in other cases the second check had been received. The second payments not received, and the third payments will be entered in the 1935 book.

AAA Benefit Payments Received in 1934

	Corn		Wheat		Hogs		Average of all payments ^{1/}
	Number of farms	Amount per farm	Number of farms	Amount per farm	Number of farms	Amount per farm	
1/3 most profitable farms	10	\$199	1	\$54	9	\$205	\$278
1/3 least profitable farms	11	73	3	58	9	138	159
All accounting farms	33	131	6	57	23	155	215

^{1/} Total benefit payments reported by accounting farms under contract for 1934 divided by total number of accounting farms.

On many farms the cash received from benefit payments will more than pay for the year's taxes. As an average for all accounting farms, the payments actually received were sufficient to pay 69 percent of the taxes.

It is interesting to note the use made of the contracted acres on the accounting farms. The average farm had 17.6 contracted acres which were used as follows: 7.0 idle; 1.2 mixed red clover and timothy; 2.3 sweet clover; 2.0 soybeans; 0.8 alfalfa; and 4.3 acres were in other crops. These data indicate that most farmers made good use of their contracted acres from the standpoint of soil improvement as a large part of them were in legumes. When the Government restrictions on the use of crops grown on contracted acres were removed, they were, on many farms, the most profitable crops as they furnished hay and pasture where badly needed in drouth areas. The legumes had the further advantage of being immune to attack from chinch bugs.

Farm earnings were influenced indirectly by the AAA programs in that the reduction in production increased the price of the commodities involved. The drouth was a more important factor in reducing production than the adjustment programs, yet if it had not been for the corn-sealing program there would have been but little corn in the hands of farmers at the time the major price advance became effective.

Factors Helping to Analyze the Farm Business on 42
Kendall, DuPage, Lake, Cook and Kane County Farms in 1934

Items	Your farm	Average of 42 farms	14 most profitable farms	14 least profitable farms
Size of farms--acres - - - - -	_____	206.6	299.3	137.4
Percent of land area tillable- - - - -	_____	85.9	85.8	80.9
Percent of tillable land in hay and pasture - - - - -	_____	35.5	31.3	41.4
Gross receipts per acre- - - - -	_____	16.37	19.12	15.28
Total expenses per acre- - - - -	_____	10.60	9.05	17.13
Net receipts per acre- - - - -	_____	5.77	10.07	-1.85
Value of land per acre - - - - -	_____	107	99	116
Total investment per acre- - - - -	_____	163	145	186
Acres in Corn- - - - -	_____	40.0	65.7	18.0
Oats- - - - -	_____	36.6	45.2	22.8
Wheat - - - - -	_____	4.7	7.6	4.7
Soybeans- - - - -	_____	2.8	6.1	1.2
Hay - - - - -	_____	34.1	46.3	28.1
Tillable pasture- - - - -	_____	28.9	34.0	17.9
Crop yields--Corn, bu. per acre- - - - -	_____	18.2	19.6	14.0
Oats, bu. per acre- - - - -	_____	12.2	15.2	9.1
Wheat, bu. per acre - - - - -	_____	3.4	6.3	0.6
Value of feed fed to productive L.S.	_____	2 060	2 567	1 640
Returns per \$100 of feed fed to productive livestock- - - - -	_____	139	153	125
Returns per \$100 invested in:				
Cattle- - - - -	_____	121	113	125
Poultry - - - - -	_____	217	238	186
Pigs weaned per litter - - - - -	_____	5.7	6.2	5.4
Income per litter farrowed - - - - -	_____	88	99	81
Dairy sales per dairy cow- - - - -	_____	95	88	108
Investment in productive L.S. per A.	_____	9.63	9.51	10.11
Receipts from productive L.S. per A.	_____	13.89	13.15	14.96
Man labor cost per crop acre - - - - -	_____	6.16	4.70	8.88
Machinery cost per crop acre - - - - -	_____	2.80	2.49	3.34
Power and mach. cost per crop A. - - - - -	_____	4.53	4.05	5.36
Farms with tractor - - - - -	_____	83%	93%	71%
Value of feed fed to horses- - - - -	_____	248	312	180
Man labor cost per \$100 gross income- - - - -	_____	27	18	39
Expenses per \$100 gross income - - - - -	_____	65	47	112
Farm improvements cost per acre- - - - -	_____	1.26	.94	1.87
Excess of sales over cash expenses - - - - -	_____	1 638	2 281	950
Increase in inventory- - - - -	_____	338	1 581	-447
Rate earned on investment- - - - -	_____	3.54	6.96	-1.00
Gross receipts per farm- - - - -	_____	3 383	5 724	2 099

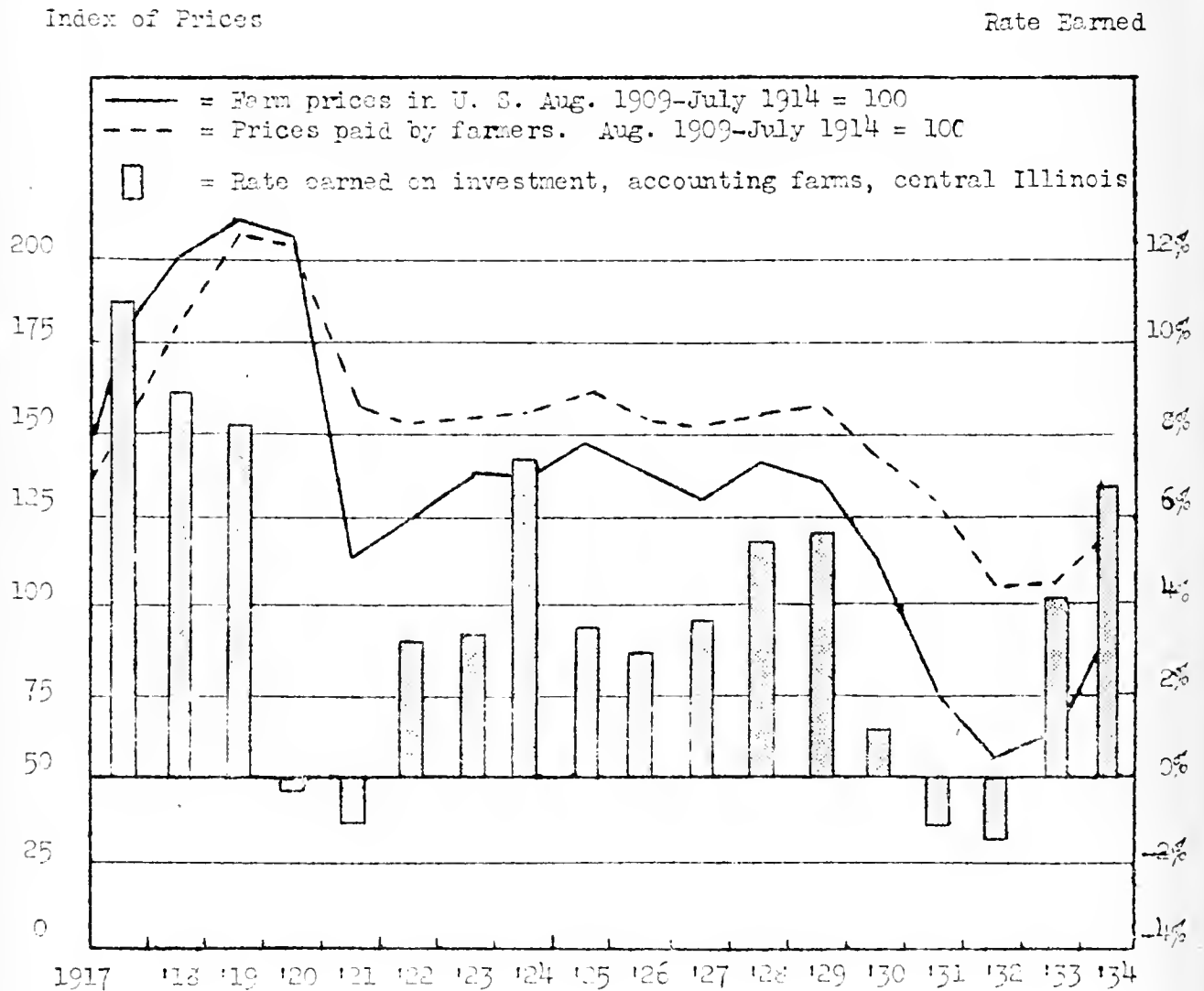
Chart for Studying the Efficiency of Various Parts of Your Business,
Kendall, DuPage, Lake, Cook and Kane Counties, 1934

The numbers above the lines across the middle of the page are the averages for the 42 farms included in this report for the factors named at the top of the page. By drawing a line across each column at the number measuring the efficiency of your farm in that factor, you can compare your efficiency with that of other farmers in your locality.

Rate earned on investment	Bushels per acre		Hogs: Income per litter	Dairy sales per dairy cow	Poultry income per \$100 invested	L.S. income per \$100 of feed fed	Cost per crop acre		Labor cost per \$100 gross receipts	Increase in inventory	Sales over cash expenses	Gross receipts		Acres in farm
	Corn	Oats					Labor	Power and machinery				Per acre	Per farm	
3.5	33	32	138	195	467	214	--	--	2	4300	3600	36	8400	457
1.5	30	28	128	175	417	199	--	--	7	3500	3200	32	7400	407
9.5	27	24	118	155	367	184	.16	--	12	2700	2800	28	6400	357
7.5	24	20	108	135	317	169	2.16	1.33	17	1900	2400	24	5400	307
5.5	21	16	98	115	267	154	4.16	2.93	22	1100	2000	20	4400	257
3.54	18.2	12.2	88	95	217	139	6.16	4.53	27	338	1638	16.37	3383	206.6
1.5	15	8	78	75	167	124	8.16	6.13	32	-462	1200	12	2400	157
-.5	12	4	68	55	117	109	10.16	7.73	37	-1262	800	8	1400	107
2.5	9	0	58	35	67	94	12.16	9.33	42	-2062	400	4	400	57
4.5	6	--	48	15	17	79	14.16	10.93	47	-2862	0	0	--	7
6.5	3	--	38	--	--	64	16.16	12.53	52	--	--	--	--	--

Influence of Price Changes on Farm Earnings

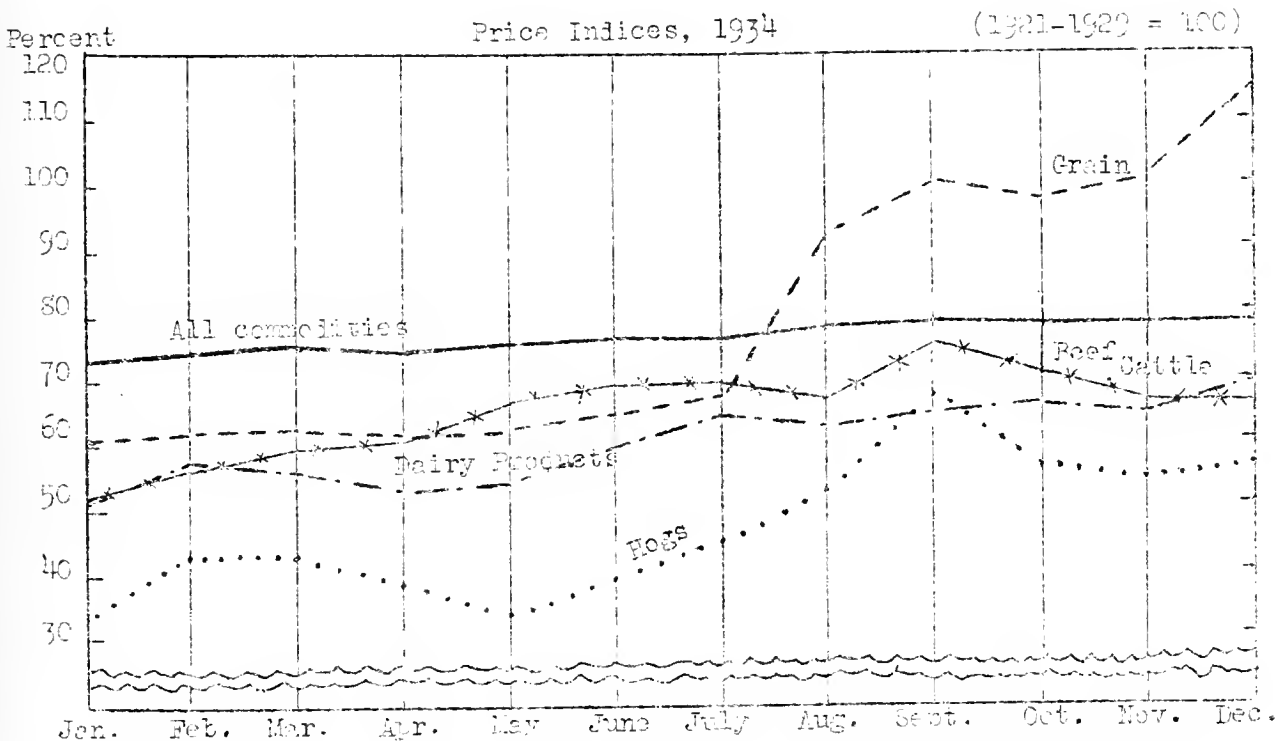
Farm prices in 1934 advanced more rapidly than did the prices of commodities which farmers bought. Farmers of the United States as a group could exchange their farm products in 1934 for 74 percent as many goods as for the period 1909-1914, while in 1933 they received only 64 percent, and 1932 only 61 percent as much in exchange for what they had to sell as in the prewar period. In the month of February, 1935, this index of purchasing power had increased to 87 percent of prewar, the index of farm prices having risen to 111 as compared with an index of 127 for commodities which farmers buy. When the line representing farm prices drops below the line representing prices paid by farmers, farm earnings are very low, but when these lines come close together farm earnings increase. (See following graph.)



Since the price of some farm products advanced much more rapidly during 1934 than other products, it is evident that some farms would benefit more than others, depending upon the kind and quantity of products sold. Grain prices advanced much more rapidly than livestock prices; which resulted in a very bad price ratio for farmers who buy large quantities of feed. The average Illinois farm price of corn was 41 cents a bushel in January, 1934; it advanced steadily until the end of the year when it was 88 cents a bushel. Other grains made marked advance although not so great an advance as corn. The price of hogs fluctuated from a low of \$5.20 a hundred in May to a high of \$6.30 in September. The low point in the fall came in November when the average price was \$5.10. The price has advanced quite rapidly since November, the average price being \$7.50 for February, 1935. Beef cattle were worth \$4.10 a hundred in January, 1934 and advanced each month until September, when the price was \$5.90. They dropped to \$5.20 in December but increased again to \$7.40 for February, 1935.

The year 1934 set a record for the reduction in the numbers of livestock. The percentage decreases by species were as follows: horses, 1.1 percent; mules, 2.6 percent; all cattle, 11.2 percent; sheep, 4.7 percent; hogs, 35.3 percent. When all species are combined on the basis of their capacity to consume feed, the reduction was 13 percent. This reduction will greatly reduce the demand for feeds produced in 1935.

The relative change in prices of important commodities may be noted in the following graph, which shows the average Illinois farm prices by months as a percentage of the average prices for the period 1921-1929.



All commodities index represents the wholesale price of a large number of commodities for the United States, as computed by Bureau of Labor Statistics. Grain and livestock indices represent average monthly farm prices in Illinois.

Variation in Earnings Over Five-Year Period

A comparison of production, income, and expenditures on the accounting farms in this area for the last five years is very interesting because of the violent changes in price level. 1934 was the second year of very low crop yields, yet total receipts per farm were higher than in any other year in the last five, and were 64 percent of the 1929 gross receipts. Operating costs per acre were lower than in any year of the five. Thus profits were the best this area has experienced since 1929.

Earnings in 1935, as usual, will depend upon individual efficiency, weather and prices. A normal year will mean larger yields of grain and probably lower prices.

Comparison of Earnings and Investments on Accounting Farms in
Kendall, DuPage, Lake, Cook and Kane Counties for 1930-1934

Items	1930 ^{1/}	1931 ^{2/}	1932	1933 ^{2/}	1934
Number of farms - - - - -	50	54	51	50	42
Average size of farms, acres- - -	171	187	194	193	207
Average rate earned, to pay for management, risk and capital - -	2.7%	-.04%	.01%	3.3%	3.5%
Average labor and management wage	\$-137	\$-1 236	\$-1 413	\$ 6	\$44
Gross income per acre - - - - -	23.46	16.64	14.52	16.47	16.37
Operating cost per acre - - - - -	17.40	16.71	14.50	11.35	10.60
Average value of land per acre- -	145	121	130	99	107
Total investment per acre - - - -	225	193	200	156	163
Investment per farm in:					
Total livestock- - - - -	3 780	3 549	3 289	2 776	2 366
Cattle - - - - -	2 586	2 514	2 332	1 962	1 414
Hogs - - - - -	431	442	576	238	289
Poultry- - - - -	193	164	137	119	104
Gross income per farm - - - - -	4 004	3 106	2 821	3 179	3 383
Income per farm from:					
Crops- - - - -	544	---	---	418	444
Miscellaneous income - - - - -	77	38	85	39	1
Total livestock- - - - -	3 383	3 068	2 736	2 722	2 860
Cattle - - - - -	193	38	188	301	457
Dairy sales- - - - -	2 155	2 216	1 954	1 771	1 256
Hogs - - - - -	747	571	549	415	839
Poultry- - - - -	276	276	235	204	50
Average yield of corn in bu.- - -	37	43	50	35	18
Average yield of oats in bu.- - -	51	41	46	26	12

1/ Records from DuPage, Cook, Kendall, and Kane Counties included for 1930.

2/ Records from McHenry, Kendall, DuPage, Lake, Cook, and Kane Counties included for 1931 and 1933.

ANNUAL FARM BUSINESS REPORT ON THIRTY FARMS
IN CARROLL COUNTY, ILLINOIS, 1934

P. E. Johnston, J. B. Andrews, and J. Ackerman*

The farm earnings of 30 account-keeping farmers in Carroll County showed an increase in 1934 over those of 1933. This is the second consecutive year of improvement in the business of these farms. The three years previous to 1933 showed very low returns.

These 30 accounts show for 1934 an average net income of \$1,740 per farm, as compared with an average of \$1,091 in 1933, and an average net loss of \$526 in 1932. The average cash income in 1934 was \$3,507 per farm, the cash business expenditures \$1,682 per farm, leaving a cash balance of \$1,825 to meet interest payments and family living expenses. (Those who keep home account books use the latter figure to represent the cash contribution of the farm to the "realized family income".) Besides the cash income, there was an inventory increase of \$681 a farm due mostly to the rise in prices of farm products. This increase, added to the cash balance, resulted in an average excess of receipts over expenses of \$2,506 a farm.

Those data must not be considered representative of average farm conditions, for they were secured from farms which are larger than average, and which were managed by farmers who are more efficient than the average of all farmers in the county.

For the state as a whole, farm earnings were better in 1934 than in 1933, in spite of the fact that corn and oat yields were very low due to the drouth and to chinch bug damage. In the western and southwestern parts of the state the drouth caused an almost total failure of both corn and oats. This accounts for farm earnings being lower there than in other parts of the state.

The corn crop was best in the southeastern part of the state, and was fair in the northwestern section. Wheat yields were particularly good in the south and central portions of the state. Soybean yields were very good throughout the state, and there was a larger than normal acreage in Illinois in 1934. This state produced over half of the nation's 1934 crop of soybeans.

Chinch bug damage extended over most of the state last year, but was much more severe in some sections than in others, and was much worse on some farms than on other farms in the same community. Conditions affecting crop yields were very spotted. This accounts in part for the wide variation in farm earnings from one section of the state to another, and the wider variations than usual from one farm to another.

* M. P. Roske, farm adviser in Carroll County, cooperated in supervising and collecting the records on which this report is based.

Industries other than agriculture again showed improved earnings over the previous year. A group of 840 industrial corporations reported by a nationally known bank showed average earnings of 5.0 percent on their invested capital in 1934, as compared with 3.4 percent for the same corporations in 1933. A similar group had a loss of one-tenth of one percent in 1932 and average earnings of 3.3 percent in 1931.

In comparing the average earnings of corporations with the rate earned on investment on accounting farms, it is well to keep in mind that in corporation accounting, charges are made for management, while in the farm accounts no comparable deduction has been made. On the other hand the farmer and his family receive food, fuel, and other items of living from the farm for which the farm has received no credit in the records used in this report. For the average central Illinois farm family, consisting of five persons, the value of the food and fuel furnished by the farm was about \$250 in 1934, when estimated on the basis of the wholesale price for farm products.

Variations in Farm Incomes

There was a much wider range in farm earnings on the accounting farms in 1934 than in 1933. This was true for the farms included in this report, and it was also true when the average earnings of farms in one section of the state are compared with the earnings of farms in other areas.

The extremely wide range in earnings was due to a combination of physical and economic factors. The average yields of wheat and soybeans were much better, compared with the five-year average, than the average yields of corn and oats. This variation favored those sections which had larger acreages of the higher yielding crops in 1934. There was also a wide range in average corn yields from one section of the state to another, as well as between individual farms in the same area. The price of grains was high in 1934 as compared with prices of livestock and livestock products. Farms where grain sales constitute a large part of the farm income thus had an advantage. The rapid increase in the prices of farm products, particularly grains, favored those farms which had large stocks of salable products on hand at the beginning of the year. Many farmers who inventoried the corn on hand at the beginning of 1934 at 40 cents a bushel, later sold this corn for 30 cents.

In this group of 30 accounting farms the most successful third shows an average net income of \$2,949, while the average net income of the least successful third of the farms was only \$372. In 1933 the comparable net incomes for the two groups was \$1,977, and \$70 respectively.

Investments, Receipts, Expenses and Earnings on 30
Carroll County Farms in 1934

Items	Your farm	Average of 30 farms	10 most profitable farms	10 least profitable farms
CAPITAL INVESTMENTS				
Land - - - - -		\$16 183	\$16 632	\$12 632
Farm improvements- - - - -		4 168	4 930	3 351
Livestock total- - - - -		<u>1 770</u>	<u>1 961</u>	<u>1 324</u>
Horses - - - - -		349	341	332
Cattle - - - - -		902	940	619
Hogs - - - - -		383	557	238
Sheep- - - - -		42	31	35
Poultry- - - - -		94	92	100
Machinery and equipment- - - - -		1 079	1 199	1 023
Feed and grains- - - - -		1 377	1 495	1 253
Total capital investment	\$	<u>\$24 577</u>	<u>\$26 217</u>	<u>\$19 583</u>
RECEIPTS AND NET INCREASES				
Livestock total- - - - -		<u>\$ 3 030</u>	<u>\$ 3 938</u>	<u>\$ 1 882</u>
Horses - - - - -		38	38	44
Cattle - - - - -		831	1 150	471
Hogs (including AAA payments)-		1 278	1 629	844
Sheep- - - - -		52	55	27
Poultry- - - - -		86	97	80
Egg sales- - - - -		165	185	126
Dairy sales- - - - -		580	784	290
Feed and grains (including AAA payments) - - - - -		270	791	---
Labor off farm - - - - -		57	28	41
Miscellaneous receipts - - - - -		3	1	6
Total receipts & net increases	\$	<u>\$ 3 360</u>	<u>\$ 4 758</u>	<u>\$ 1 929</u>
EXPENSES AND NET DECREASES				
Farm improvements- - - - -		\$ 200	\$ 188	\$ 139
Horses - - - - -		---	---	---
Miscellaneous livestock decreases		---	---	---
Machinery and equipment- - - - -		228	321	157
Feed and grains- - - - -		---	---	257
Livestock expense- - - - -		33	45	18
Crop expense - - - - -		131	184	81
Hired labor- - - - -		85	116	37
Taxes- - - - -		154	174	116
Miscellaneous expenses - - - - -		23	23	24
Total expenses & net decreases	\$	<u>\$ 854</u>	<u>\$ 1 051</u>	<u>\$ 829</u>
RECEIPTS LESS EXPENSES- - - - - -	\$	<u>\$ 2 506</u>	<u>\$ 3 707</u>	<u>\$ 1 100</u>
Total unpaid labor- - - - -		766	758	728
Operator's labor - - - - -		539	538	540
Family labor - - - - -		227	220	188
Net income from investment and management - - - - -		1 740	2 949	372
RATE EARNED ON INVESTMENT - - - - -	%	<u>7.03%</u>	<u>11.25%</u>	<u>1.90%</u>
Return to capital and operator's labor and management - - - - -		2 279	3 487	912
5% of capital invested- - - - -		1 229	1 311	979
LABOR AND MANAGEMENT WAGE - - - - -	\$	<u>\$ 1 050</u>	<u>\$ 2 176</u>	<u>\$ -67</u>

The following table shows the number of farms having certain net incomes per acre. There was a marked difference between the most successful and the least successful farms.

<u>Average net income per acre</u>	<u>Number of farms</u>	<u>Average net income per acre</u>	<u>Number of farms</u>
\$25	1	\$11	3
23	1	9	3
21	0	7	2
19	3	5	4
17	3	3	3
15	0	1	3
13	2	-1	2

A further study of the farm businesses made by comparing the investments, receipts, and expenses of the group of farms having the highest net income, with those having the lowest income will throw some light on the question of why some farmers are more successful than others. This comparison is shown in the table on page 3.

The most successful farms averaged 179 acres each, the least successful 162 acres. This difference in size accounts in part for the variation in the average investments, receipts, and expenses in the two groups. Differences in receipts from the sale of cattle, hogs, feed and grains, and dairy sales accounts for most of the difference in income between the two groups. The total expense per farm and per acre, including the charge for family labor, was slightly higher on the most profitable farms than on the least profitable farms.

The year 1934 was similar to 1933 in that the prices of farm products continued to advance, causing further increases in inventory values. Owing to the poor crop yields in 1934, there were fewer bushels of grain on hand to inventory at the end of the year than at the beginning. The value of the smaller amount of grain, however, was greater than for the larger amount on hand at the beginning of the year.

Bushels of Grain Inventoried

	Corn		Oats	
	Jan. 1, '34	Dec. 31, '34	Jan. 1, '34	Dec. 31, '34
Average of all farms	1 506	965	777	476
Average of 10 high farms	1 889	1 779	745	649
Average of 10 low farms.	1 285	312	802	308
Your farm.				

The difference in quantities of grain inventoried was one of the factors influencing the difference in earnings. The most profitable farms had a larger inventory of corn, both at the beginning and at the end of the year, and a larger inventory of oats at the end of the year than did the least profitable farms.

The average inventory increase for the accounting farms in Carroll County was \$681 in 1934, as compared with \$571 in 1933, and an inventory loss of \$920 per farm in 1932. There were increases of \$114 in total livestock, and \$372 in feed and grain, while improvements showed a decrease of \$96, and machinery a decrease of \$9. The decrease in machinery and improvements was the smallest it has been since 1930, indicating that more of the necessary repairs and replacements are being made, but still not enough to offset the depreciation costs.

Inventory Changes for 1934

Items	Beginning inventory 1-1-34	Closing inventory 12-31-34	Inventory changes 1934	Inventory changes, your farm
Total livestock.	\$1 770	\$2 184	\$414	\$
Feed and grains.	1 377	1 749	372	
Machinery.	1 073	1 070	-3	
Improvements (except residence).	4 162	4 072	-96	
Total.	\$8 394	\$9 075	\$681	\$

Some Adjustments on Carroll County Farms Since 1929

Farmers have been forced to make adjustments in their cash expenditures as the result of changes in their cash incomes. Farm operating costs declined each year from 1929 through 1934. In 1934 total operating expenses were \$1.10 an acre lower than in 1933, however the cash operating expenses were \$1,682 a farm, as compared with \$1,446 a farm in 1933. There were increases in expenditures over the previous year for feed and grain, livestock, crop expense and improvements, and a slight decrease in expenditures for taxes, labor and machinery. Because of the postponement of needed machinery replacements during the five years since 1929, we may expect an expansion of spending for these items as soon as incomes will permit.

Cash Income and Expenses on Accounting Farms in Carroll County
for 1929 and 1934

Items	Your farm 1934	Average cash expense per farm		Your farm 1934	Average cash income per farm	
		1934	1929		1934	1929
Livestock	\$	\$ 429	\$1 425	\$	\$3 045	\$6 283
Feed and grains		478	1 165		376	362
Machinery		245	571		26	131
Improvements.		104	241		---	---
Labor		85	268		57	37
Miscellaneous		23	35		3	3
Livestock expense		33	64		---	---
Crop expense.		131	199		---	---
Taxes		154	245		---	---
Total	\$	\$1 682	\$4 213	\$	\$3 507	\$6 816
Excess of cash sales over expenses.	\$			\$	\$1 825	\$2 603
Increase in inventory					681	324
Income to labor and capital (Receipts less expenses).					2 506	2 927

The cumulative effect of several years of low agricultural prices on the demand for manufactured goods can be readily ascertained by a comparison of cash expenditures in 1934 with those in 1929. The average cash income in 1934 was 51 percent of that in 1929, while cash expenditures were only 40 percent as large. In 1934 livestock purchases were 30 percent, and feed and grain purchases 41 percent as large as in 1929. In 1934 these farms paid out 43 percent as much for machinery, 66 percent as much for crop expense, and 43 percent as much for improvements as in 1929, while taxes were reduced to 63 percent of the 1929 level.

Comparison of Farms With High and Low Earnings

After deducting total expenses and net decreases, including family labor, from income and net increases, there remained a net increase of \$16.44 per acre for the most profitable farms, as compared with \$2.30 per acre for the least profitable farms. This represents a return on the capital invested in the farm business of 11.25 percent on the most profitable farms, and 1.9 percent on the least profitable farms. The reasons for the difference may be obtained from a study of the data on pages 3 and 8.

The most profitable farms were more intensive, and more efficient in their livestock production than the least profitable farms. The most profitable farms had an investment in productive livestock of \$10.48 per acre, and fed \$2,550 of feed per farm, as compared with an investment of \$6.85 invested per acre and \$1,672 of feed fed per farm, on the least profitable farms. The productive livestock on the most profitable farms returned \$153 for each \$100 of feed fed, as compared with a return of \$110 for the least profitable farms. On the most profitable farms 17 litters were farrowed, while 10 litters were farrowed on the least profitable farms. The return per litter farrowed was \$95 on the most profitable farms, as compared with \$36 on the least profitable farms. Cattle on the most profitable farms returned \$136 per \$100 invested, and \$106 on the least profitable farms. Dairy sales per dairy cow were \$73 on the most profitable farms, and \$58 on the least profitable farms.

In Carroll County the most profitable farms were 17.7 acres larger, and a larger percentage of their land area was tillable than on the least profitable farms. The most profitable farms had 36.4 acres more crops, and 24.3 acres more corn than the least profitable farms. The most profitable farms carried larger inventories of feed and grains on which to make a profit when prices advanced. In addition to the larger acreage of crops, another reason for the larger inventories of feed and grain was the higher crop yields. There was an advantage of 15.5 bushels of corn, and 9.4 bushels of oats per acre in favor of the high-profit group.

The larger income on the most profitable farms was secured with a total operating cost of only 45 cents an acre above that on the least profitable farms. The man labor costs were \$6.70 per crop acre on the most profitable farms, as compared with \$8.05 on the least profitable farms, while power and machinery costs per crop acre amounted to \$3.97 on the most profitable farms, and \$3.79 on the least profitable farms.

-7-

Influence of AAA Programs on Cropping Systems and Farm Incomes

The farm-account records in Illinois were influenced both directly and indirectly by the corn-hog and wheat adjustment programs. A large percentage of accounting farms was under one or both contracts in 1934. The acreages of corn and wheat on these farms were therefore less than normal. This should have resulted in lower operating costs. Corn-hog benefit payments for the entire 1934 program will total about 40 million dollars for the state, while wheat benefit payments will be about 2.4 million dollars.

The benefit payments for accounting farms are indicated in the following table, which shows the average payment for those farms receiving payments, and includes only those payments received by the cooperator before the 1934 books were closed. In some cases only the first corn-hog check is included, while in other cases the second check had been received. The second payments not received, and the third payments will be entered in the 1935 book.

AAA Benefit Payments Received in 1934

	Corn		Wheat		Hogs		Average of all payments ^{1/}
	Number of farms	Amount per farm	Number of farms	Amount per farm	Number of farms	Amount per farm	
1/3 most profitable farms	9	\$153	--	\$--	9	\$299	\$345
1/3 least profitable farms	9	71	--	--	9	141	190
All accounting farms	25	106	1	24	28	180	268

^{1/} Total benefit payments reported by accounting farms under contract for 1934 divided by total number of accounting farms.

On most farms the cash received from benefit payments will more than pay for the year's taxes. As an average for all accounting farms, the payments actually received were \$114 more than sufficient to pay the 1934 taxes.

It is interesting to note the use made of the contracted acres on the accounting farms. The average farm had 12.8 contracted acres which were used as follows: 2.9 idle; 3.6 mixed red clover and timothy; 1.5 sweet clover; 3.7 soybeans; 0.4 alfalfa; and 0.7 acres were in other crops. These data indicate that most farmers made good use of their contracted acres from the standpoint of soil improvement, as a large part of them were in legumes. When the Government restrictions on the use of crops grown on contracted acres were removed, they were on many farms the most profitable crops as they furnished hay and pasture where badly needed in drouth areas. The legumes had the further advantage of being immune to attack from chinch bugs.

Farm earnings were influenced indirectly by the AAA programs in that the reduction in production increased the price of the commodities involved. The drouth was a more important factor in reducing production than the adjustment programs, yet if it had not been for the corn-sealing program, there would have been but little corn in the hand of farmers at the time the major price advance became effective.

Factors Helping to Analyze the Farm Business on 30
Carroll County Farms in 1934

Items	Your farm	Average of 30 farms	10 most profitable farms	10 least profitable farms
Size of farms--acres - - - - -	_____	177.9	179.4	161.7
Percent of land area tillable- - - - -	_____	84.4	88.2	77.5
Percent of tillable land in hay and pasture - - - - -	_____	43.6	35.8	48.2
Gross receipts per acre- - - - -	_____	18.89	26.52	11.93
Total expenses per acre- - - - -	_____	9.11	10.08	9.63
Net receipts per acre- - - - -	_____	9.78	16.44	2.30
Value of land per acre - - - - -	_____	91	93	78
Total investment per acre- - - - -	_____	138	146	121
Acres in Corn- - - - -	_____	35.3	47.8	23.5
Oats- - - - -	_____	28.0	28.6	26.7
Wheat - - - - -	_____	1.3	2.5	.6
Hay - - - - -	_____	27.9	24.6	25.0
Tillable pasture- - - - -	_____	37.7	32.0	35.4
Crop yields--Corn, bu. per acre- - -	_____	39.3	44.8	29.3
Oats, bu. per acre- - -	_____	14.9	19.4	10
Wheat, bu. per acre - - -	_____	24.2	1.9	2
Value of feed fed to productive L.S.	_____	2 188	2 550	1 672
Returns per \$100 of feed fed to productive livestock- - - - -	_____	137	153	110
Returns per \$100 invested in:				
Cattle- - - - -	_____	141	186	106
Poultry - - - - -	_____	249	261	199
Number of litters farrowed - - - - -	_____	14.0	17.2	10.3
Pigs weaned per litter - - - - -	_____	6.0	5.9	5.8
Income per litter farrowed - - - - -	_____	69	95	86
Dairy sales per dairy cow- - - - -	_____	64	73	58
Investment in productive L.S. per A.	_____	9.04	10.48	6.85
Receipts from productive L.S. per A.	_____	16.82	21.74	11.37
Man labor cost per crop acre - - - - -	_____	7.05	6.70	8.05
Machinery cost per crop acre - - - - -	_____	2.02	2.54	1.75
Power and mach. cost per crop A. - - -	_____	3.76	3.97	3.79
Farms with tractor - - - - -	_____	57%	70%	50%
Value of feed fed to horses- - - - -	_____	234	219	228
Man labor cost per \$100 gross income- - - - -	_____	24	18	38
Expenses per \$100 gross income - - -	_____	48	38	81
Farm improvements cost per acre- - -	_____	1.12	1.05	.86
Excess of sales over cash expenses -	_____	1 825	2 114	1 232
Increase in inventory- - - - -	_____	681	1 593	-132
Rate earned on investment- - - - -	_____	7.08%	11.25%	1.90%
Gross receipts per farm- - - - -	_____	3 360	4 758	1 929

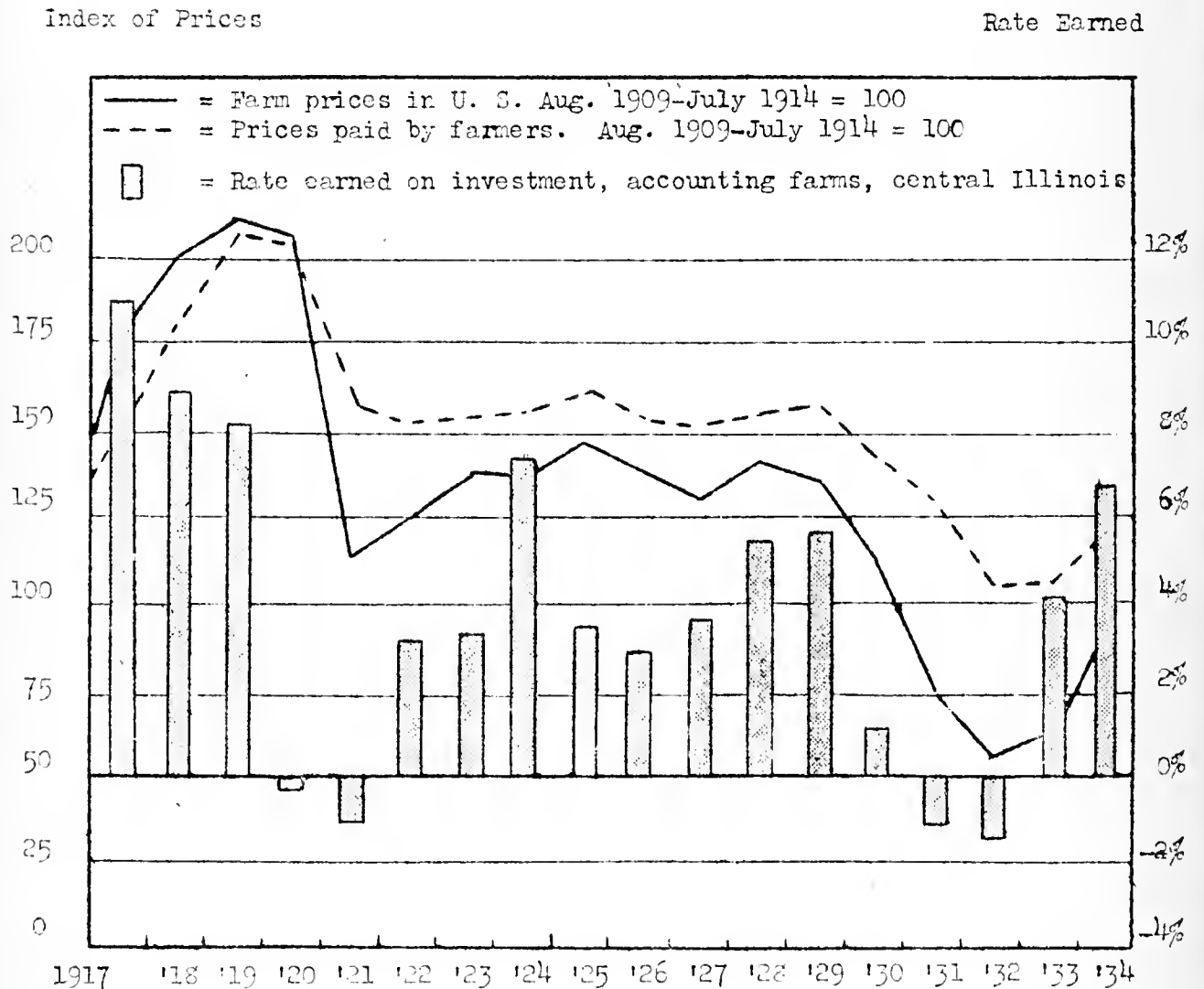
Chart for Studying the Efficiency of Various Parts of Your Business,
Carroll County, 1934

The numbers above the lines across the middle of the page are the averages for the 30 farms included in this report for the factors named at the top of the page. By drawing a line across each column at the number measuring the efficiency of your farm in that factor, you can compare your efficiency with that of other farmers in your locality.

Rate earned on investment	Bushels per acre		Number of litters farrowed	Hogs: Income per litter	Dairy sales per dairy cow	Poultry income per \$100 invested	L.S. income per \$100 of feed fed	Cost per crop acre		Labor cost per \$100 gross receipts	Increase in inventory	Sales over cash expenses	Gross receipts		Acres in farm
	Corn	Oats						Labor	Power and machinery				Per acre	Per farm	
15.1	54	25	29	144	139	499	287	1.55	--	--	2200	4300	34	5900	278
13.5	51	23	26	129	124	449	257	2.65	--	--	1900	3800	31	5400	258
11.9	48	21	23	114	109	399	227	3.75	.76	3	1600	3300	28	4900	238
10.3	45	19	20	99	94	349	197	4.85	1.76	10	1300	2800	25	4400	218
8.7	42	17	17	84	79	299	167	5.95	2.76	17	1000	2300	22	3900	198
7.08	39.3	14.9	14	69	64	249	137	7.05	3.76	24	681	1825	18.89	3360	177.9
5.5	36	13	11	54	49	199	107	8.15	4.76	31	400	1300	16	2900	158
3.9	33	11	8	39	34	149	77	9.25	5.76	38	100	800	13	2400	138
2.3	30	9	5	24	19	99	47	10.35	6.76	45	-200	300	10	1900	118
.7	27	7	2	9	4	49	17	11.45	7.76	52	-500	--	7	1400	98
-.9	24	5	--	--	--	--	--	12.55	8.76	59	-800	--	4	900	78

Influence of Price Changes on Farm Earnings

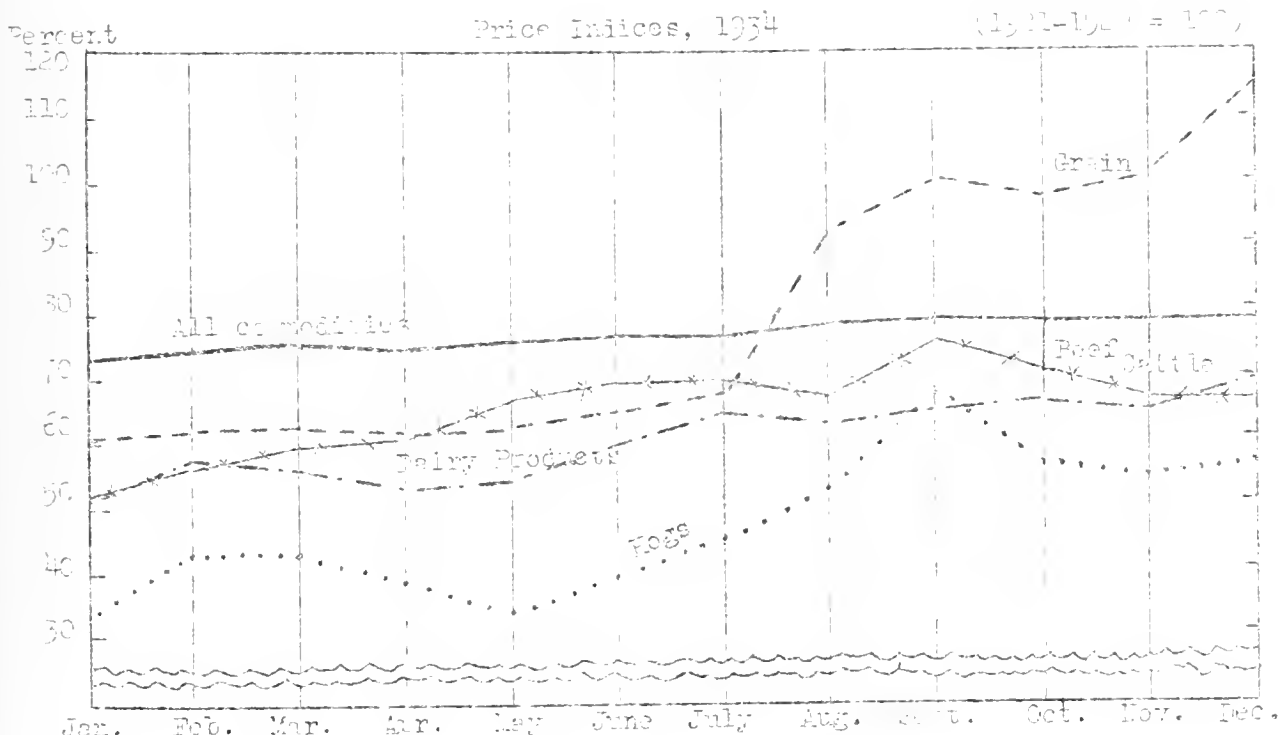
Farm prices in 1934 advanced more rapidly than did the prices of commodities which farmers bought. Farmers of the United States as a group could exchange their farm products in 1934 for 74 percent as many goods as for the period 1909-1914, while in 1933 they received only 64 percent, and 1932 only 61 percent as much in exchange for what they had to sell as in the prewar period. In the month of February, 1935, this index of purchasing power had increased to 87 percent of prewar, the index of farm prices having risen to 111 as compared with an index of 127 for commodities which farmers buy. When the line representing farm prices drops below the line representing prices paid by farmers, farm earnings are very low, but when these lines come close together farm earnings increase. (See following graph.)



Since the price of some farm products advanced much more rapidly during 1934 than other products, it is evident that some farms would benefit more than others, depending upon the kind and quantity of products sold. Grain prices advanced much more rapidly than livestock prices; which resulted in a very bad price ratio for farmers who buy large quantities of feed. The average Illinois farm price of corn was 41 cents a bushel in January, 1934; it advanced steadily until the end of the year when it was 79 cents a bushel. Other grains made marked advance although not so great an advance as corn. The price of hogs fluctuated from a low of \$5.20 a hundred in May to a high of \$6.30 in September. The low point in the fall came in November when the average price was \$5.15. The price has advanced quite rapidly since November, the average price being \$7.50 for February, 1935. Beef cattle were worth \$4.10 a hundred in January, 1934 and advanced each month until September, when the price was \$6.30. They dropped to \$5.20 in December but increased again to \$7.40 for February, 1935.

The year 1934 set a record for the reduction in the numbers of livestock. The percentage decreases by species were as follows: horses, 1.1 percent; mules, 2.6 percent; all cattle, 11.2 percent; sheep, 4.7 percent; hogs, 35.3 percent. When all species are combined on the basis of their capacity to consume feed, the reduction was 13 percent. This reduction will greatly reduce the demand for feeds produced in 1935.

The relative change in prices of important commodities may be noted in the following graph, which shows the average Illinois farm prices by month as a percentage of the average prices for the period 1921-1929.



All commodities index represents the wholesale price of a large number of commodities for the United States, as computed by Bureau of Labor Statistics. Grain and livestock indices represent average monthly farm prices in Illinois.

Variation in Earnings Over Five-Year Period

A comparison of production, income, and expenditures on the accounting farms in Carroll County for the last five years is very interesting because of the violent fluctuations in price level. Although the 1934 crop was below average, the increased prices of both grain and livestock caused the 1934 earnings to be the highest for the five-year period 1930-1934.

Earnings in 1935 as usual will depend upon individual efficiency, weather, and prices. With normal weather conditions, prices of grain are likely to go down to a more normal level which will give individual efficiency the responsibility for higher earnings on each farm.

Comparison of Earnings and Investments on Accounting Farms in
Carroll County for 1930-1934

Items	1930 ^{1/}	1931 ^{1/}	1932 ^{2/}	1933 ^{2/}	1934
Number of farms - - - - -	59	62	52	33	30
Average size of farms, acres - -	178	177	155	157	178
Average rate earned, to pay for management, risk and capital -	2.2%	-3.1%	-2.0%	4.4%	7.1%
Average labor and management wage	\$-243	\$-2 094	\$-1 294	\$398	\$1 050
Gross income per acre - - - - -	22.19	11.80	10.14	17.14	18.89
Operating cost per acre - - - -	17.89	17.63	13.54	10.21	9.11
Average value of land per acre-	120	117	107	103	91
Total investment per acre - - -	194	186	169	156	138
Investment per farm in:					
Total livestock- - - - -	4 025	3 427	2 290	1 694	1 770
Cattle - - - - -	2 067	1 720	1 280	883	902
Hogs - - - - -	1 208	1 005	483	348	383
Poultry- - - - -	209	171	136	96	94
Gross income per farm - - - - -	3 956	2 039	1 568	2 699	3 360
Income per farm from:					
Crops- - - - -	---	---	---	703	270
Miscellaneous income - - -	42	60	53	53	3
Total livestock- - - - -	3 914	2 029	1 515	1 943	3 030
Cattle - - - - -	691	279	284	410	331
Dairy sales- - - - -	624	486	446	415	580
Hogs - - - - -	2 167	1 009	587	915	1 278
Poultry- - - - -	350	237	194	165	86
Average yield of corn in bu.- -	46	45	65	56	39
Average yield of oats in bu.- -	46	41	55	35	15

^{1/} Records from Rock Island and Whiteside Counties included for 1930 and 1931.

^{2/} Records from Whiteside County included for 1932 and 1933.

ANNUAL FARM BUSINESS REPORT ON THIRTY-FIVE FARMS
IN ROCK ISLAND COUNTY, ILLINOIS, 1934

P. E. Johnston, J. B. Andrews, and T. R. Hedges*

The farm earnings of 35 account-keeping farmers in Rock Island County showed an increase in 1934 over those of 1933. This is the second consecutive year of improvement in the business of these farms. The three years previous to 1933 showed very low returns.

These 35 accounts show for 1934 an average net income of \$1,711 per farm, as compared with an average of \$1,440 in 1933 and an average net loss of \$591 in 1932. The average cash income in 1934 was \$3,357 per farm, the cash business expenditures \$1,524 per farm, leaving a cash balance of \$1,833 to meet interest payments and family living expenses. (Those who keep home account books use the latter figure to represent the cash contribution of the farm to the "realized family income".) Besides the cash income, there was an inventory increase of \$607 per farm due to the rise in the prices of farm products. This increase, added to the cash balance, resulted in an average excess of receipts over expenses of \$2,440 per farm. The inventory increase was a smaller part of the total farm income in 1934 than in 1933.

These data must not be considered representative of average farm conditions, for they were secured from farms which are larger than average, and were managed by farmers who are more efficient than the average of all farmers in the county.

For the state as a whole, farm earnings were better in 1934 than in 1933 in spite of the fact that corn and oat yields were very low due to the drouth and to chinch bug damage. In the western and southwestern parts of the state the drouth caused an almost total failure of both corn and oats, which accounts for farm earnings being lower there than in other parts of the state.

The corn crop was best in the southeastern part of the state, and was fair in the northwestern section. Wheat yields were particularly good in the south and central portions of the state. Soybean yields were very good throughout the state, and there was a larger than normal acreage in Illinois in 1934. This state produced over half of the nation's 1934 crop of soybeans.

Chinch bug damage extended over most of the state last year, but was much more severe in some sections than in others, and was much worse on some farms than on other farms in the same community. Conditions affecting crop yields were very spotted; which accounts in part for the wide variation in farm earnings from one section of the state to another, and the wider variations than usual from one farm to another.

*J. R. Spencer, farm adviser in Rock Island County, cooperated in supervising and collecting the records on which this report is based.

Industries other than agriculture again showed improved earnings over the previous year. A group of 840 industrial corporations reported by a nationally known bank showed average earnings of 5.0 percent on their invested capital in 1934, as compared with 3.4 percent for the same corporations in 1933. A similar group had a loss of one-tenth of one percent in 1932 and average earnings of 3.3 percent in 1931.

In comparing the average earnings of corporations with the rate earned on investment on accounting farms it is well to keep in mind that in corporation accounting, charges are made for management, while in the farm accounts no comparable deduction has been made. On the other hand the farmer and his family receive food, fuel, and other items of living from the farm for which the farm has received no credit in the records used in this report. For the average central Illinois farm family, consisting of five persons, the value of the food and fuel furnished by the farm was about \$250 in 1934, when estimated on the basis of the wholesale price for farm products.

Variations in Farm Incomes

There was a much wider range in farm earnings on the accounting farms in 1934 than in 1933. This was true for the farms included in this report, and was also true when the average earnings of farms in one section of the state are compared with the earnings of farms in other areas.

The extremely wide range in earnings was due to a combination of physical and economic factors. The average yields of wheat and soybeans were much better, compared with the five-year average, than the average yields of corn and oats. This variation favored those sections which had larger acreages of the higher yielding crops in 1934. There was also a wide range in average corn yields from one section of the state to another, as well as between individual farms in the same area. The price of grains was high in 1934, as compared with prices of livestock and livestock products. Farms where grain sales constitute a large part of the farm income thus had an advantage. The rapid increase in the prices of farm products, particularly grains, favored those farms which had large stocks of salable products on hand at the beginning of the year. Many farmers who inventoried the corn on hand at the beginning of 1934 at 40 cents a bushel, later sold this corn for 80 cents.

In this group of 35 accounting farms the most successful third shows an average net income of \$2,743, while the average net income of the least successful third of the farms was only \$713. In 1933 the comparable net income for the two groups was \$2,760, and \$577 respectively.

Investments, Receipts, Expenses and Earnings on
75 Rock Island County Farms in 1934

Items	Your farm	Average of 35 farms	12 most profitable farms	12 least profitable farms
<u>CAPITAL INVESTMENTS</u>				
Land - - - - -		18 151	18 559	16 575
Farm improvements- - - - -		4 552	4 007	5 202
Livestock total- - - - -		<u>1 924</u>	<u>2 089</u>	<u>1 904</u>
Horses - - - - -		380	426	362
Cattle - - - - -		849	928	798
Hogs - - - - -		478	492	476
Sheep- - - - -		127	150	116
Poultry- - - - -		90	93	82
Machinery and equipment- - - -		1 561	1 380	1 670
Feed and grains- - - - -		1 660	1 752	1 303
Total capital investment -	\$	<u>\$27 848</u>	<u>\$27 787</u>	<u>\$26 654</u>
<u>RECEIPTS AND NET INCREASES</u>				
Livestock total- - - - -		<u>2 732</u>	<u>3 414</u>	<u>2 139</u>
Horses - - - - -		22	50	13
Cattle - - - - -		570	931	350
Hogs (including AAA payments)		1 518	1 756	1 207
Sheep- - - - -		94	133	109
Poultry- - - - -		76	72	34
Egg sales- - - - -		120	120	76
Dairy sales- - - - -		326	352	350
Feed and grains (including AAA payments) - - - - -		600	970	260
Labor off farm - - - - -		72	55	71
Miscellaneous receipts - - - -		4	7	---
Total receipts & net increases	\$	<u>\$ 3 408</u>	<u>\$ 4 446</u>	<u>\$ 2 470</u>
<u>EXPENSES AND NET DECREASES</u>				
Farm improvements- - - - -		161	205	166
Horses - - - - -		---	---	---
Miscellaneous livestock decreases		---	---	---
Machinery and equipment- - - -		302	269	364
Feed and grains- - - - -		---	---	---
Livestock expense- - - - -		39	31	42
Crop expense - - - - -		101	101	113
Hired labor- - - - -		107	167	84
Taxes- - - - -		231	226	210
Miscellaneous expenses - - - -		27	27	29
Total expenses & net decreases	\$	<u>\$ 968</u>	<u>\$ 1 026</u>	<u>\$ 1 008</u>
<u>RECEIPTS LESS EXPENSES- - - - -</u>				
	\$	<u>\$ 2 440</u>	<u>\$ 3 420</u>	<u>\$ 1 462</u>
Total unpaid labor- - - - -		729	672	749
Operator's labor - - - - -		536	529	540
Family labor - - - - -		193	143	209
Net income from investment and management- - - - -		1 711	2 748	713
<u>RATE EARNED ON INVESTMENT</u> - - - -	%	<u>6.14%</u>	<u>9.89%</u>	<u>2.67%</u>
return to capital and operator's labor and management- - - - -		2 247	3 277	1 253
% of capital invested- - - - -		1 392	1 389	1 330
<u>LABOR AND MANAGEMENT WAGE</u> - - - -	\$	<u>\$ 855</u>	<u>\$ 1 053</u>	<u>\$ 80</u>

The following table shows the number of farms having certain net incomes per acre. There was a marked difference between the most successful and the least successful farms.

<u>Average net in-</u> <u>come per acre</u>	<u>Number of</u> <u>farms</u>	<u>Average net in-</u> <u>come per acre</u>	<u>Number of</u> <u>farms</u>
\$19.	2	\$9.	6
17.	1	7.	5
15.	4	5.	6
13.	--	3.	3
11.	5	1.	3

A further study of the farm businesses made by comparing the investments, receipts, and expenses of the group of farms with the highest net incomes with those having the lowest should throw some light on the question of why some farmers are more successful than others. This comparison is shown in the table on page 3.

The most successful farms averaged 193.2 acres each, the least successful 178.8 acres. This difference in size accounts in part for the variation in the average investment, receipts, and expenses in the two groups. Difference in receipts from the sales of grains, cattle, and hogs accounts for most of the difference in income between the two groups. Although the expenses per farm were slightly higher on the most profitable farms, the total expense per acre, including the charge for family labor, was less than it was on the least profitable farms.

Changes in Inventories and Inventory Values

The year 1934 was similar to 1933 in that the prices of farm products continued to advance, causing further increases in inventory values. Owing to the poor crop yields in 1934 there were fewer bushels of grain on hand to inventory at the end of the year than at the beginning. The value of the smaller amount of grain, however, was greater than for the larger amount on hand at the beginning of the year.

Bushels of Corn Inventoried

	Jan. 1, 1934	Dec. 31, 1934
Average of all farms.	2 641	1 391
Average of 12 most successful farms . .	3 035	1 868
Average of 12 least successful farms. .	2 101	968
Your farm		

The most profitable farms had a much larger inventory of corn, both at the beginning and at the end of the year. This difference accounted for a considerable part of their higher receipts and net increases from feed and grains.

The average inventory increase for the accounting farms in Rock Island County was \$607 in 1934, as compared with \$248 in 1933, and an inventory loss of \$686 per farm in 1932. There were increases of \$403 in total livestock, and \$305 in feed and grain, while improvements showed a decrease of \$77 and machinery a decrease of \$24. The decrease in machinery and improvements was the smallest it has been since 1930, indicating that more of the necessary repairs and replacements are being made, but still not enough to offset the depreciation costs.

Inventory Changes for 1934

Items	Beginning inventory 1-1-34	Closing inventory 12-31-34	Inventory changes 1934	Inventory changes your farm
Total livestock.	\$1 924	\$2 327	\$403	\$
Feed and grains.	1 660	1 965	305	
Machinery.	1 561	1 537	-24	
Improvements (except residence).	4 852	4 475	-77	
Total.	\$9 697	\$10 304	\$607	\$

Some Adjustments on Rock Island County Farms Since 1929

Farmers have been forced to make adjustments in their cash expenditures as the result of changes in their cash incomes. Farm operating costs declined each year from 1929 through 1933. In 1934 total operating expenses were only 2 cents an acre above those of 1933, while the cash operating expenses were \$1,524 a farm, as compared with \$1,622 in 1933. There were decreases in expenditures from the previous year for livestock, labor, and taxes which more than offset the increase in expenditures for feed, crop expense, improvements, and machinery. Indications point to an expansion of spending for 1935, particularly for machinery and improvements, since farmers have postponed replacements and repairs of these items during the four-year period since 1929.

Cash Income and Expenses on Accounting Farms in Rock Island County
for 1929 and 1934

Items	Your farm 1934	Average cash expense per farm		Your farm 1934	Average cash income per farm	
		1934	1929		1934	1929
Livestock	\$	\$ 271	\$1 290	\$	\$2 600	\$6 128
Feed and grains		332	863		627	665
Machinery		332	743		54	121
Improvements.		34	283		---	---
Labor		107	342		72	36
Miscellaneous		27	36		4	3
Livestock expense		39	75		---	---
Crop expense.		101	213		---	---
Taxes		231	321		---	---
Total	\$	\$1 524	\$4 166	\$	\$3 357	\$6 953
Excess of cash sales over expenses.	\$			\$	\$1 833	\$2 727
Increase in inventory					607	275
Income to labor and capital (Receipts less expenses).					2 440	3 062

The cumulative effect of several years of low agricultural prices on the demand for manufactured goods can readily be ascertained by a comparison of cash farm expenditures in 1934 with those in 1929. Although the average cash income in 1934 was 48.3 percent of that in 1929, cash expenditures were only 36.6 as large. In 1934 livestock purchases were 21 percent, and feed and grain purchases 38.5 percent as large as in 1929. In 1934 these farms paid out 44.7 percent as much for machinery, and 47.4 percent as much for crop expense as in 1929, while taxes were reduced to 72 percent of the 1929 level.

Comparison of Farms With High and Low Earnings

The most profitable farms in this study had net receipts per acre of \$14.22, as compared with \$3.98 for the least profitable group. The reasons for this difference may be obtained from a study of the data on pages 3 and 8.

The most profitable farms had more livestock, and were more efficient in their livestock operations than the least profitable farms. The most profitable farms had an investment of \$10.09 an acre in productive livestock, as compared with an investment of \$8.95 an acre on the least profitable farms. The most profitable farms fed \$2,547 worth of feed to productive livestock, securing a return of \$132 for each \$100 worth of feed fed, while the least profitable farms fed \$2,063 worth of feed and secured only \$103 for each \$100 worth of feed fed.

The most profitable farms carried larger inventories of feed and grain on which to make a profit when prices advanced. Farms in this group were 14.4 acres larger than the least successful; they had 20.9 more tillable acres, a larger acreage of corn, and a higher percent of their tillable land in hay and pasture. Corn yields were 4.3 bushels per acre higher on the most profitable farms and while oats yields were 2.8 bushels higher on the least profitable farms, it must be recalled that this crop was almost a failure in 1934 and that the early oats suffered the most from the drouth.

Total operating costs were \$1.04 per acre higher on the least profitable farms. Their power and machinery costs were \$5.15 per crop acre, as compared with \$3.85 on the most profitable farms. This difference in power and machinery costs per crop acre was a major factor in accounting for the higher total operating expenses on the least profitable farms.

Influence of AAA Programs on Cropping Systems and Farm Incomes

The farm-account records in Illinois were influenced both directly and indirectly by the corn-hog and wheat adjustment programs. A large percentage of accounting farms was under one or both contracts in 1934. The acreages of corn and wheat on these farms were therefore less than normal. This should have resulted in lower operating costs. Corn-hog benefit payments for the entire 1934 program will total about 40 million dollars for the state, while wheat benefit payments will be about 2.4 million dollars.

The benefit payments for accounting farms are indicated in the following table, which shows the average payment for those farms receiving payments, and includes only those payments received by the cooperator before the 1934 books were closed. In some cases only the first corn-hog check is included, while in other cases the second check had been received. The second payments not received, and the third payments will be entered in the 1935 book.

AAA Benefit Payments Received in 1934

	Corn		Wheat		Hogs		Average of all payments ^{1/}
	Number of farms	Amount per farm	Number of farms	Amount per farm	Number of farms	Amount per farm	
1/3 most profitable farms	12	\$129	--	\$---	11	\$106	\$308
1/3 least profitable farms	12	95	1	17	12	153	259
All accounting farms	35	111	2	66	34	187	296

^{1/} Total benefit payments reported by accounting farms under contract for 1934, divided by total number of accounting farms.

On many farms the cash received from benefit payments will more than pay the year's taxes. As an average of all accounting farms, the payments actually received (\$196), were more than sufficient to pay all of the 1934 taxes (\$331).

It is interesting to note the use made of the contracted acres on the accounting farms. The average farm had 17.7 contracted acres which were used as follows: 3.7 idle; .6 red clover; 1.7 sweet clover; 3.6 soybeans and cowpeas; 3.3 alfalfa; and 4.8 acres were in other crops. These data indicate that most farmers made good use of their contracted acres from the standpoint of soil improvement, as a large part of them were in legumes. When the government restrictions on the use of crops grown on contracted acres were removed, they were on many farms the most profitable crops as they furnished hay and pasture where badly needed in drouth areas. The legumes had the further advantage of being immune to attack from chinch bugs.

Farm earnings were influenced indirectly by the AAA programs in that the reduction in production increased the price of the commodities involved. The drouth was a more important factor in reducing production than the adjustment programs, yet if it had not been for the corn-sealing program, there would have been but little corn in the hands of farmers at the time the major price advance became effective.

Factors Helping to Analyze the Farm Business on
35 Rock Island County Farms in 1934

Items	Your farm	Average of 35 farms	12 most profitable farms	12 least profitable farms
Size of farms--acres - - - - -	_____	187.4	193.2	178.8
Percent of land area tillable- - -	_____	83.7	86.9	82.2
Percent of tillable land in hay and pasture- - - - -	_____	43.7	49.9	41.7
Gross receipts per acre- - - - -	_____	18.19	23.01	13.81
Total expenses per acre- - - - -	_____	9.06	8.79	9.83
Net receipts per acre- - - - -	_____	9.13	14.22	3.98
Value of land per acre - - - - -	_____	97	96	93
Total investment per acre- - - - -	_____	149	144	149
Acres in Corn- - - - -	_____	53.5	56.8	47.7
Oats- - - - -	_____	21	18.3	16.5
Wheat - - - - -	_____	3.8	---	5.8
Soybeans- - - - -	_____	2.1	1.3	3.2
Hay - - - - -	_____	26.9	30.9	26.3
Tillable pasture- - - - -	_____	41.6	52.8	35
Crop yields--Corn, bu. per acre- -	_____	35.8	38.3	34
Oats, bu. per acre- -	_____	4.6	3.6	6.4
Value of feed fed to productive L.S.	_____	2 238	2 547	2 063
Returns per \$100 of feed fed to productive livestock- - - - -	_____	121	132	103
Returns per \$100 invested in:	_____			
Cattle- - - - -	_____	99	125	86
Poultry - - - - -	_____	315	204	138
Pigs weaned per litter - - - - -	_____	5.6	5.8	5.2
Income per litter farrowed - - - -	_____	93	102	80
Dairy sales per dairy cow- - - - -	_____	44	43	41
Investment in productive L.S. per A.	_____	9.25	10.09	8.95
Receipts from productive L.S. per A.	_____	14.43	17.41	11.89
Man labor cost per crop acre - - -	_____	6.81	6.94	7.04
Machinery cost per crop acre - - -	_____	2.62	2.33	3.25
Power and mach. cost per crop A. -	_____	4.33	3.85	5.15
Farms with tractor - - - - -	_____	85%	83%	83%
Value of feed fed to horses- - - -	_____	226	224	226
Man labor cost per \$100 gross income- - - - -	_____	23	18	32
Expenses per \$100 gross income - -	_____	50	38	71
Farm improvements cost per acre- -	_____	.86	1.06	.93
Excess of sales over cash expenses	_____	1 833	1 975	1 467
Increase in inventory- - - - -	_____	607	1 445	-5
Rate earned on investment- - - - -	_____	6.14	9.89	2.67
Gross receipts per farm- - - - -	_____	3 403	4 446	2 470

Chart for Studying the Efficiency of Various Parts of Your Business,
Rock Island County 1934

The numbers above the lines across the middle of the page are the averages for the 35 farms included in this report for the factors named at the top of the page. By drawing a line across each column at the number measuring the efficiency of your farm in that factor, you can compare your efficiency with that of other farmers in your locality.

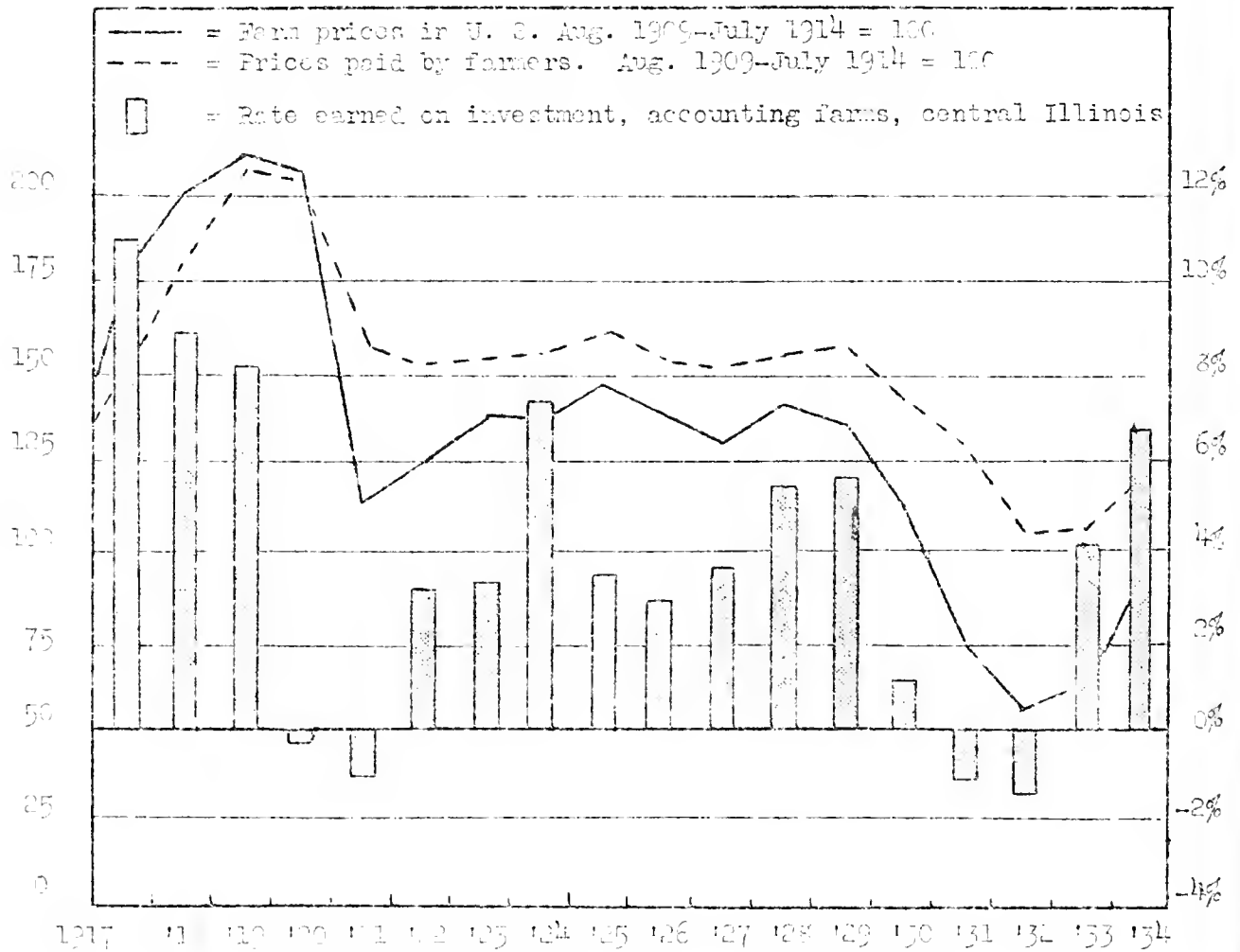
Rate earned on investment	Bushels per acre		Hogs: Income per litter	Dairy sales per dairy cow	Poultry income per \$100 invested	L.S. income per \$100 of feed fed	Cost per crop acre		Labor cost per \$100 gross receipts	Increase in inventory	Sales over cash expenses	Gross receipts		Acres in farm
	Corn	Oats					Labor	Power and machinery				Per acre	Per farm	
11	60	15	128	64	440	170	4.30	1.80	3	2600	4300	33	3400	340
10	55	13	121	60	415	160	4.80	2.30	7	2200	3800	30	7400	310
9	50	11	114	56	390	150	5.30	2.80	11	1800	3300	27	6400	280
8	45	9	107	52	365	140	5.80	3.30	15	1400	2800	24	5400	250
7	40	7	100	48	340	130	6.30	3.80	19	1000	2300	21	4400	220
6.14	35.8	4.6	93	44	315	121	6.81	4.33	23	607	1833	18	3403	137
5	30	3	86	40	290	110	7.30	4.80	27	200	1300	15	2400	160
4	25	1	79	36	265	100	7.80	5.30	31	-200	800	12	1400	130
3	20	--	72	32	240	90	8.30	5.80	35	-600	300	9	400	110
2	15	--	65	28	215	80	8.80	6.30	39	-1000	---	6	---	70
1	10	--	59	24	190	70	9.30	6.80	43	-1400	---	3	---	40

Influence of Price Changes on Farm Earnings

Farm prices in 1934 advanced more rapidly than did the prices of commodities which farmers bought. Farmers of the United States as a group could exchange their farm products in 1934 for 74 percent as many goods as for the period 1909-1914, while in 1935 they received only 64 percent, and 1932 only 51 percent as much in exchange for what they had to sell as in the prewar period. In the month of February, 1935, this index of purchasing power had increased to 67 percent of prewar, the index of farm prices having risen to 111 as compared with an index of 127 for commodities which farmers buy. When the line representing farm prices drops below the line representing prices paid by farmers, farm earnings are very low, but when these lines come close together farm earnings increase. (See following graph.)

Index of Prices

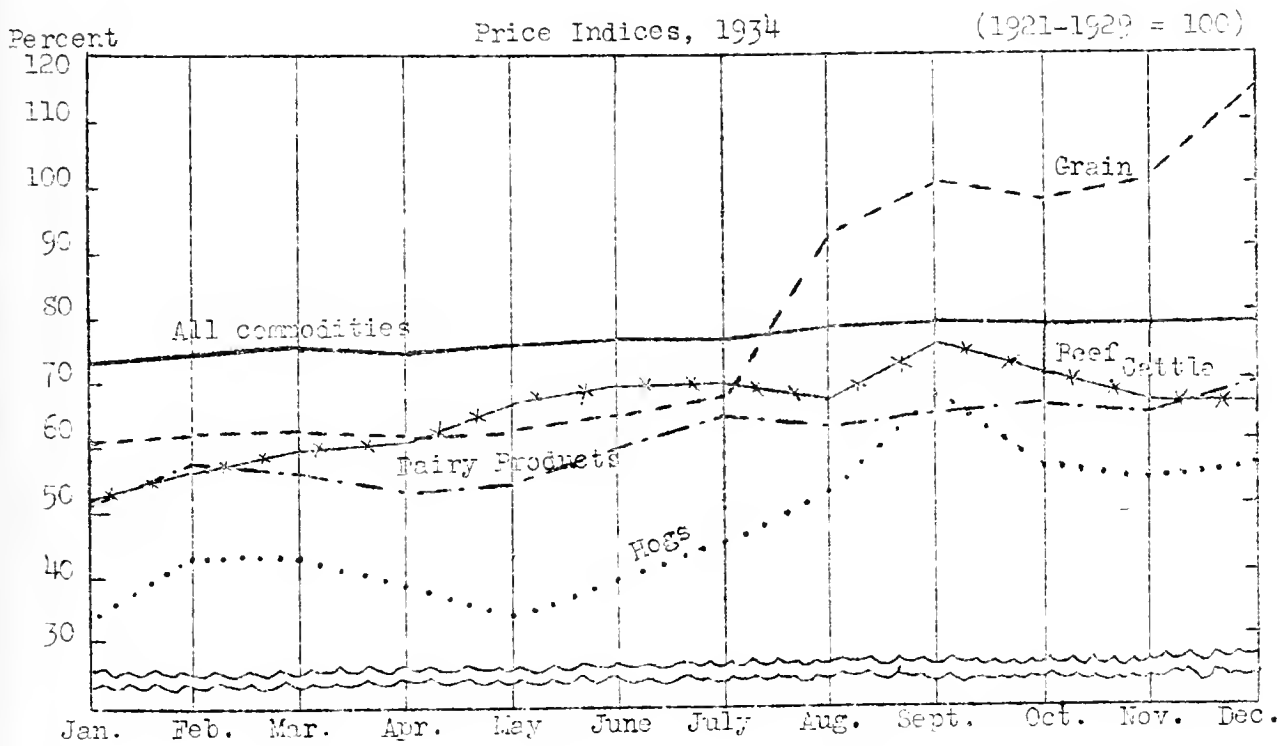
Rate Earned



Since the price of some farm products advanced much more rapidly during 1934 than other products, it is evident that some farms would benefit more than others, depending upon the kind and quantity of products sold. Grain prices advanced much more rapidly than livestock prices; which resulted in a very bad price ratio for farmers who buy large quantities of feed. The average Illinois farm price of corn was 41 cents a bushel in January, 1934; it advanced steadily until the end of the year when it was 88 cents a bushel. Other grains made marked advance although not so great an advance as corn. The price of hogs fluctuated from a low of \$5.20 a hundred in May to a high of \$6.30 in September. The low point in the fall came in November when the average price was \$5.10. The price has advanced quite rapidly since November, the average price being \$7.50 for February, 1935. Beef cattle were worth \$4.10 a hundred in January, 1934 and advanced each month until September, when the price was \$5.90. They dropped to \$5.20 in December but increased again to \$7.40 for February, 1935.

The year 1934 set a record for the reduction in the numbers of livestock. The percentage decreases by species were as follows: horses, 1.1 percent; mules, 2.6 percent; all cattle, 11.2 percent; sheep, 4.7 percent; hogs, 35.3 percent. When all species are combined on the basis of their capacity to consume feed, the reduction was 13 percent. This reduction will greatly reduce the demand for feeds produced in 1935.

The relative change in prices of important commodities may be noted in the following graph, which shows the average Illinois farm prices by months as a percentage of the average prices for the period 1921-1929.



All commodities index represents the wholesale price of a large number of commodities for the United States, as computed by Bureau of Labor Statistics. Grain and livestock indices represent average monthly farm prices in Illinois.

Variation in Earnings Over Five-Year Period

A comparison of production, income, and expenditures on the accounting farms in Rock Island County for the last five years is very interesting because of the violent fluctuations in price level. Although the 1934 crop was nearly a failure and followed the smaller than average crop of 1933, the increased prices of both grain and livestock caused the 1934 earnings to be the highest, for the five-year period 1930-1934.

Earnings in 1935 as usual will depend upon individual efficiency, weather, and prices. With normal weather conditions, prices of grain are likely to go down to a more normal level which will give individual efficiency the responsibility for higher earnings on each farm.

Comparison of Earnings and Investments on Accounting Farms in
Rock Island County for 1930-1934

Items	1930 ^{1/}	1931 ^{1/}	1932	1933	1934
Number of farms - - - - -	59	62	30	30	35
Average size of farms, acres - - -	178	177	188	195	187
Average rate earned, to pay for management, risk and capital - -	2.2%	-3.1%	-2.1%	5.1%	6.14%
Average labor and management wage	\$-243	\$-2 094	\$-1 488	\$559	\$355
Gross income per acre - - - - -	22.19	11.80	7.82	16.44	18.19
Operating cost per acre - - - - -	17.89	17.63	10.96	9.04	9.06
Average value of land per acre - -	120	117	100	94	97
Total investment per acre - - - -	194	186	152	144	149
Investment per farm in:					
Total livestock- - - - -	4 025	3 427	2 162	2 049	1 924
Cattle - - - - -	2 067	1 720	1 070	1 033	349
Hogs - - - - -	1 208	1 005	539	499	478
Poultry- - - - -	209	171	121	93	90
Gross income per farm - - - - -	3 956	2 089	1 470	3 199	3 408
Income per farm from:					
Crops- - - - -	---	---	---	1 097	600
Miscellaneous income - - - -	42	50	54	48	4
Total livestock- - - - -	3 914	2 029	1 416	2 054	2 732
Cattle - - - - -	591	279	253	461	570
Dairy sales- - - - -	684	486	282	240	326
Hogs - - - - -	2 167	1 009	741	1 141	1 518
Poultry- - - - -	350	237	120	146	76
Average yield of corn in bu. - - -	46	45	66	53	36
Average yield of oats in bu. - - -	46	41	48	34	5

^{1/} Records from Carroll and Whiteside Counties included for 1930 and 1931.

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ACTUAL FARM BUSINESS REPORT ON FORTY-THREE FARMS
IN JO DAVIESS AND STEPHENSON COUNTIES, ILLINOIS, 1954

P. E. Johnston, J. D. Mills, and T. R. Hedges

The farm earnings of 43 account-keeping farmers in Jo Daviess and Stephenson Counties showed an increase in 1954 over those of 1953. This is the second consecutive year of improvement in the business of these farms. The three years previous to 1953 showed very low returns.

These 43 accounts show for 1954 an average net income of \$1,253 per farm, as compared with an average of \$447 in 1953, and an average net loss of \$836 in 1952. The average cash income in 1954 was \$1,125 per farm, the cash business expenditures \$1,220 per farm, leaving a cash balance of \$1,603 to meet interest payments and family living expenses. (Those who keep home account books use the latter figure to represent the cash contribution of the farm to the "realized family income".) Besides the cash income, there was an inventory increase of \$449 per farm due to the rise in the prices of farm products. This increase, added to the cash balance, resulted in an average excess of receipts over expenses of \$4,652 per farm. The inventory increase was a larger part of the total farm income in 1954 than in 1953.

These data must not be considered representative of average farm conditions, for they were secured from farms which are larger than average, and which were managed by farmers who are more efficient than the average of all farmers in the county.

For the state as a whole, farm earnings were better in 1954 than in 1953 in spite of the fact that corn and oat yields were very low due to drouth and to chinch bug damage. In the western and southwestern parts of the state the drouth caused an almost total failure of both corn and oats. This accounts for farm earnings being lower there than in other parts of the state.

The corn crop was best in the southeastern part of the state, and was fair in the northwestern section. Wheat yields were particularly good in the south and central portions of the state. Soybean yields were very good throughout the state, and there was a larger than normal acreage in Illinois in 1954. This state produced over half of the nation's 1954 crop of soybeans.

Chinch bug damage extended over most of the state last year, but was much more severe in some sections than in others, and was much worse on some farms than on other farms in the same community. Conditions affecting crop yields were very spotted. This accounts in part for the wide variation in farm earnings from one section of the state to another, and the wider variations than usual from one farm to another.

* H. R. Brunnemeyer and V. J. Bunter, farm advisers in Jo Daviess and Stephenson Counties, cooperated in supervising and collecting the records on which this report is based.

Industries other than agriculture again showed improved earnings over the previous year. A group of 240 industrial corporations reported by a nationally known bank showed average earnings of 5.0 percent on their invested capital in 1934, as compared with 3.4 percent for the same corporations in 1933. A similar group had a loss of one-tenth of one percent in 1932 and average earnings of 3.3 percent in 1931.

In comparing the average earnings of corporations with the rate earned on investment on accounting farms, it is well to keep in mind that in corporation accounting, charges are made for management, while in the farm accounts no comparable deduction has been made. On the other hand the farmer and his family receive food, fuel, and other items of living from the farm for which the farm has received no credit in the records used in this report. For the average central Illinois farm family, consisting of five persons, the value of the food and fuel furnished by the farm was about \$250 in 1934, when estimated on the basis of the wholesale price for farm products.

Variations in Farm Incomes

There was a much wider range in farm earnings on the accounting farms in 1934 than in 1933. This was true for the farms included in this report, and it was also true when the average earnings of farms in one section of the state are compared with the earnings of farms in other areas.

The extremely wide range in earnings was due to a combination of physical and economic factors. The average yields of wheat and soybeans were much better, compared with the five-year average, than the average yields of corn and oats. This variation favored those sections which had larger acreages of the higher yielding crops in 1934. There was also a wide range in average corn yields from one section of the state to another, as well as between individual farms in the same area. The price of grains was high in 1934 as compared with prices of livestock and livestock products. Farms where grain sales constitute a large part of the farm income thus had an advantage. The rapid increase in the prices of farm products, particularly grains, favored those farms which had large stocks of salable products on hand at the beginning of the year. Many farmers who inventoried the corn on hand at the beginning of 1934 at 40 cents a bushel, later sold this corn for 30 cents.

In this group of 43 accounting farms the most successful third shows an average net income of \$2,225, while the average net income of the least successful third of the farms was only \$134. In 1933 the net income for the most successful third was \$1,248, while the least successful third of the farms had a net loss of \$276.

-3-
Investments, Receipts, Expenses and Earnings on 43
Jo Daviess, Stephenson County Farms in 1934

Items	Your farm	Average of 43 farms	14 most profitable farms	14 least profitable farms
<u>CAPITAL INVESTMENTS</u>				
Land - - - - -		13 287	12 722	13 736
Farm improvements- - - - -		5 067	5 131	4 855
Livestock total- - - - -	_____	<u>2 001</u>	<u>2 001</u>	<u>2 213</u>
Horses - - - - -		317	264	371
Cattle - - - - -		1 317	1 358	1 407
Hogs - - - - -		221	267	237
Sheep- - - - -		56	19	109
Poultry- - - - -		90	93	89
Machinery and equipment- - - -		1 379	1 406	1 425
Feed and grains- - - - -		1 085	1 164	989
Total capital investment	\$ _____	\$22 819	\$22 424	\$23 218
<u>RECEIPTS AND NET INCREASES</u>				
Livestock total- - - - -	_____	<u>2 465</u>	<u>3 121</u>	<u>1 891</u>
Horses - - - - -		5	5	9
Cattle - - - - -		486	545	511
Hogs (including AAA payments)		860	1 326	594
Sheep- - - - -		64	18	123
Poultry- - - - -		81	67	53
Egg sales- - - - -		131	149	125
Dairy sales- - - - -		333	993	476
Feed and grains (including AAA payments) - - - - -		327	562	---
Labor off farm - - - - -		107	155	98
Miscellaneous receipts - - - -		7	---	16
Total receipts & net increases	\$ _____	\$ 2 904	\$ 3 838	\$ 2 005
<u>EXPENSES AND NET DECREASES</u>				
Farm improvements- - - - -		169	189	153
Horses - - - - -		---	---	---
Miscellaneous livestock decreases		---	---	---
Machinery and equipment- - - -		266	245	282
Feed and grains- - - - -		---	---	130
Livestock expense- - - - -		39	60	30
Crop expense - - - - -		97	120	75
Hired labor- - - - -		106	87	99
Taxes- - - - -		146	127	161
Miscellaneous expenses - - - -		29	34	23
Total expenses & net decreases	\$ _____	\$ 852	\$ 862	\$ 953
<u>RECEIPTS LESS EXPENSES- - - - -</u>				
	\$ _____	\$ 2 052	\$ 2 976	\$ 1 052
Total unpaid labor- - - - -		799	751	868
Operator's labor - - - - -		534	537	536
Family labor - - - - -		265	214	332
Net income from investment and management - - - - -		1 253	2 225	184
<u>RATE EARNED ON INVESTMENT - - - - -</u>	%	<u>5.49%</u>	<u>9.92%</u>	<u>.79%</u>
Return to capital and operator's labor and management - - - - -		1 787	2 762	720
% of capital invested- - - - -		1 141	1 121	1 161
<u>LABOR AND MANAGEMENT WAGE - - - - -</u>	\$ _____	\$ 646	\$ 1 641	\$ 441

The following table shows the number of farms having certain net incomes per acre. There was a marked difference between the most successful and the least successful farms.

<u>Average net income per acre</u>	<u>Number of farms</u>	<u>Average net income per acre</u>	<u>Number of farms</u>
\$19 and over	2	\$7	3
17	3	5	6
15	4	3	7
13	2	1	3
11	3	-1	3
9	6	-3	1

A further study of the farm businesses made by comparing the investments, receipts, and expenses of the group of farms with the highest net incomes with those having the lowest should throw some light on the question of why some farmers are more successful than others. This comparison is shown in the table on page 3.

The most profitable farms averaged 171.5 acres each, the least profitable 232.9 acres. Because of their smaller investment in land, the most profitable group had a smaller total investment than either the least profitable farms, or the average of all accounting farms. The most profitable farms, in spite of their smaller size had a much larger income from productive livestock, and feed and grains than the least profitable farms. The most profitable group also had less total expense per farm, including the charge for family labor, than the least successful farms.

Changes in Inventories and Inventory Values

The year 1934 was similar to 1933 in that the prices of farm products continued to advance, causing further increases in inventory values. Owing to the poor crop yields in 1934 there were fewer bushels of grain on hand to inventory at the end of the year than at the beginning. The value of the smaller amount of grain, however, was greater than for the larger amount on hand at the beginning of the year.

Bushels of Corn Inventoried

	Jan. 1, 1934	Dec. 31, 1934
Average of all farms	812	588
Average of 14 most successful farms . . .	934	684
Average of 14 least successful farms . . .	539	250
Your farm		

The most profitable farms had a much larger inventory of corn both at the beginning and at the end of the year. This difference accounted for a considerable part of their higher receipts and net increases from feed and grains.

The average inventory increase for the accounting farms in Jo Daviess and Stephenson Counties was \$449 in 1934, as compared with \$27 in 1933, and an inventory loss of \$1,021 per farm in 1932. There were increases of \$362 in feed and grains, and \$233 in total livestock, while machinery showed a decrease of \$73 and improvements a decrease of \$73. On many farms the decrease in machinery and improvements was the smallest it has been since 1930, indicating that more of the necessary repairs and replacements are being made, but still not enough to offset the depreciation costs.

Inventory Changes for 1934

Items	Beginning inventory 1-1-34	Closing inventory 12-31-34	Inventory changes 1934	Inventory changes, your farm
Total livestock.	\$2 001	\$2 234	\$233	\$
Feed and grains.	1 085	1 447	362	
Machinery.	1 379	1 306	-73	
Improvements (except residence).	5 067	4 994	-73	
Total.	\$9 532	\$9 981	\$ 449	\$

Some Adjustments on Jo Daviess and Stephenson
County Farms Since 1929

Farmers have been forced to make adjustments in their cash expenditures as the result of changes in their cash incomes. From 1929 through 1933, farm operating costs declined each year, but the year 1934 brought a reversal of this trend. The total operating expenses were 66 cents an acre higher in 1934 than in 1933, while the cash operating expenses were \$1,220 per farm in 1934, as compared with \$1,113 in 1933. There were significant increases in expenditures from the previous year for livestock, feed and grains, improvements and crop expenses. The expenditures for taxes and machinery were considerably less in 1934 than in 1933. If farm incomes continue to increase, indications point to an expansion of spending for 1935, particularly for machinery and improvements, since farmers have postponed replacements and repairs of these items during the five-year period since 1929.

Cash Income and Expenses on Accounting
Farms in Jo Daviess and Stephenson Counties for 1929 and 1934

Items	Your farm	Average cash		Your farm	Average cash	
	1934	expense per farm 1934	1929	1934	income per farm 1934	1929
Livestock	\$	\$ 240	\$ 617	\$	\$2 470	\$5 155
Feed and grains		228	626		193	224
Machinery		239	556		46	105
Improvements.		96	255		---	1
Labor		106	281		107	40
Miscellaneous		29	32		7	17
Livestock expense		39	43		---	---
Crop expense.		97	160		---	---
Taxes		146	203		---	---
Total	\$	\$1 220	\$2 773	\$	\$2 823	\$5 542
Excess of cash sales over expenses.	\$			\$	\$1 603	\$2 769
Increase in inventory					449	250
Income to labor and capital (Receipts less expenses).					2 052	3 019

The cumulative effect of several years of low agricultural prices on the demand for manufactured goods can readily be ascertained by a comparison of cash farm expenditures in 1934 with those in 1929. Although the average cash income in 1934 was 51 percent of that in 1929, cash expenditures were only 44 percent as large. In 1934 livestock purchases were 59 percent and feed and grain purchases 36 percent as large as in 1929. In 1934 these farms paid out 43 percent as much for machinery, 38 percent as much for improvements, and 60 percent as much for crop expense as in 1929, while taxes were reduced to 72 percent of the 1929 level.

Comparison of Farms With High and Low Earnings

The most profitable farms in this study had net receipts per acre of \$12.07, as compared with \$4.79 for the least profitable group. The reasons for this difference may be obtained from a study of the data on pages 3 and 4.

The most profitable farms had more livestock, and were more efficient in their livestock operations than the least profitable farms. The most profitable farms had an investment of \$11.29 an acre in productive livestock, as compared with an investment of \$6.38 an acre on the least profitable farms. The most profitable farms fed \$1,938 worth of feed to productive livestock, and secured a return of \$157 for each \$100 worth of feed fed, while the least profitable farms fed \$1,740 worth of feed, and secured only \$108 for each \$100 worth of feed fed. The most profitable farms had an average of 11.5 litters per farm, weaned an average of 6.5 pigs per litter, and had an income of \$103 per litter. The comparable figures for the least profitable farms were 7.2 litters per farm, 5.0 pigs weaned per litter, and an income of \$68 per litter.

The most profitable farms, although 61.4 acres smaller in size, had a much larger proportion of their land area tillable than the least profitable farms, and had 105.2 acres of crops as compared with 39.0 acres of crops on the least profitable farms. The most profitable farms had 7.4 acres more corn, and 3.2 acres more oats than the least profitable farms. The most profitable farms carried larger inventories of feed and grain on which to make a profit when prices advanced. In addition to the larger acreage of crops, another reason for the larger inventories of feed and grains was the higher crop yields, there being an advantage of 3.2 bushels of corn, and 2.5 bushels of oats per acre in favor of the high profit group.

The larger income on the most profitable farms was secured with a total operating expense of only \$1.59 an acre above that on the least profitable farms. Man labor costs per crop acre was \$7.29 on the most profitable farms, as compared with \$10.36 on the least profitable farms, while power and machinery cost per crop acre was \$4.10 on the most profitable farms, and \$4.27 on the least profitable group.

Influences of AAA Programs on Cropping Systems and Farm Incomes

The farm-account records in Illinois were influenced both directly and indirectly by the corn-hog and wheat adjustment programs. A large percentage of accounting farms were under one or both contracts in 1934. The acreages of corn and wheat on these farms were therefore less than normal. This should have resulted in lower operating costs. Corn-hog benefit payments for the entire 1934 program will total about 40 million dollars for the state, while wheat benefit payments will be about 2.4 million dollars.

The benefit payments for accounting farms are indicated in the following table, which shows the average payment for those farms receiving payments, and includes only those payments received by the cooperator before the 1934 books were closed. In some cases only the first corn-hog check is included, while in other cases the second check had been received. The second payments not received, and the third payments will be entered in the 1935 book.

AAA Benefit Payments Received in 1934

	Corn		Wheat		Hogs		Average of all payments ^{1/}
	Number of farms	Amount per farm	Number of farms	Amount per farm	Number of farms	Amount per farm	
1/3 most profitable farms	11	\$77	--	\$--	13	\$187	\$234
1/3 least profitable farms	10	46	--	--	12	105	123
All accounting farms	34	62	--	--	38	132	166

^{1/} Total benefit payments reported by accounting farms under contract for 1934 divided by total number of accounting farms.

On most farms the cash received from benefit payments will more than pay for the year's taxes. As an average for all accounting farms, the payments actually received were \$20 more than sufficient to pay the 1934 taxes.

It is interesting to note the use made of the contracted acres on the accounting farms. The average farm had 10.7 contracted acres which were used as follows: 1.1 idle; 3.3 mixed red clover and timothy; 1.3 sweet clover; 2.0 soybeans; 1.5 alfalfa; and 1.5 acres were in other crops. These data indicate that most farmers made good use of their contracted acres from the standpoint of soil improvement as a large part of them were in legumes. When the Government restrictions on the use of crops grown on contracted acres were removed, they were, on many farms, the most profitable crops as they furnished hay and pasture where badly needed in drouth areas. The legumes had the further advantage of being immune to attack from chinch bugs.

Farm earnings were influenced indirectly by the AAA programs in that the reduction in production increased the price of the commodities involved. The drouth was a more important factor in reducing production than the adjustment programs, yet if it had not been for the corn-sealing program there would have been but little corn in the hands of farmers at the time the major price advance became effective.

Factors Helping to Analyze the Farm Business on 43
Jo Daviess and Stephenson County Farms in 1934

Items	Your farm	Average of 43 farms	14 most profitable farms	14 least profitable farms
Size of farms--acres - - - - -	_____	191.9	171.5	232.9
Percent of land area tillable- - -	_____	69.1	79.2	53.6
Percent of tillable land in hay and pasture - - - - -	_____	53.1	51.7	59.1
Gross receipts per acre- - - - -	_____	15.13	22.38	8.61
Total expenses per acre- - - - -	_____	8.60	9.41	7.82
Net receipts per acre- - - - -	_____	6.53	12.97	.79
Value of land per acre - - - - -	_____	69	74	59
Total investment per acre- - - - -	_____	119	131	100
Acres in Corn- - - - -	_____	25.0	27.2	19.8
Oats- - - - -	_____	21.7	24.8	19.6
Hay - - - - -	_____	37.4	37.6	38.0
Tillable pasture- - - - -	_____	33.0	32.6	35.8
Crop yields--Corn, bu. per acre- -	_____	39.6	41.2	31.4
Oats, bu. per acre- -	_____	13.2	14.2	11.9
Value of feed fed to productive L.S.	_____	1 900	1 988	1 740
Returns per \$100 of feed fed to productive livestock- - - - -	_____	129	157	108
Returns per \$100 invested in:				
Cattle- - - - -	_____	98	103	70
Poultry - - - - -	_____	226	236	1 936
Number of litters- - - - -	_____	9.0	11.5	7.2
Pigs weaned per litter - - - - -	_____	6.3	6.6	6.0
Income per litter farrowed - - - -	_____	87	103	68
Dairy sales per dairy cow- - - - -	_____	63	72	97
Investment in productive L.S. per A.	_____	9.33	11.29	8.38
Receipts from productive L.S. per A.	_____	12.82	18.17	8.08
Man labor cost per crop acre - - -	_____	8.48	7.29	10.36
Machinery cost per crop acre - - -	_____	2.67	2.37	3.17
Power and mach. cost per crop A. -	_____	4.43	4.10	4.87
Farms with tractor - - - - -	_____	65%	78.6%	64%
Value of feed fed to horses- - - -	_____	178	184	160
Man labor cost per \$100 gross income- - - - -	_____	29	19	46
Expenses per \$100 gross income - -	_____	57	42	91
Farm improvements cost per acre- -	_____	.88	1.10	.66
Excess of sales over cash expenses	_____	1 603	2 120	1 010
Increase in inventory- - - - -	_____	449	855	42
Rate earned on investment- - - - -	_____	5.49%	9.92%	.79%
Gross receipts per farm- - - - -	_____	2 904	3 838	2 005

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Chart for Studying the Efficiency of Various Parts of Your Business,
Jo Daviess, and Stephenson Counties, 1934

The numbers above the lines across the middle of the page are the averages for the 43 farms included in this report for the factors named at the top of the page. By drawing a line across each column at the number measuring the efficiency of your farm in that factor, you can compare your efficiency with that of other farmers in your locality.

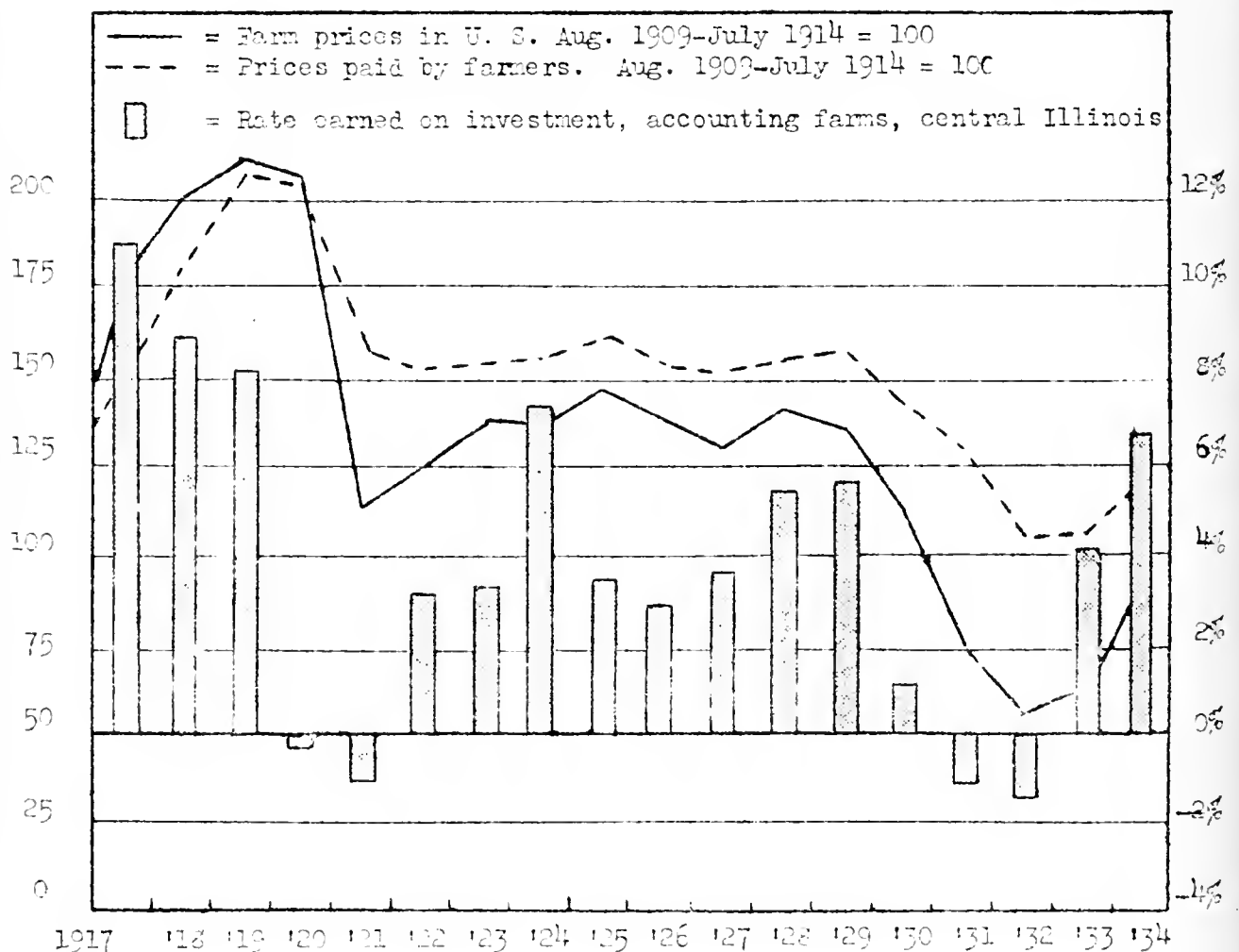
Rate earned on investment	Bushels per acre		Number of litters	Hogs: Income per litter	Dairy sales per dairy cow	Poultry income per \$100 invested	L.S. income per \$100 of feed fed	Cost per crop acre		Labor cost per \$100 gross receipts	Increase in inventory	Sales over cash expenses	Gross receipts		Acres in farm
	Corn	Oats						Labor	Power and machinery				Per acre	Per farm	
12.5	70	28	14	152	103	476	379	.48	--	--	2449	3350	40	5900	392
11.1	64	25	13	139	95	426	329	2.08	--	--	2049	3000	35	5300	352
9.7	58	22	12	126	87	376	279	3.68	.23	5	1549	2650	30	4700	312
8.3	52	19	11	115	79	326	229	3.88	1.63	13	1249	2300	25	4100	272
6.9	46	16	10	100	71	276	179	6.88	3.03	21	849	1950	20	3500	232
5.49	39.6	13.2	9.0	87	63	226	129	8.48	4.43	29	449	1603	15.13	2904	191.9
4.1	34	10	8	74	55	176	79	10.08	5.83	37	49	1250	10	2300	152
2.7	28	7	7	61	47	126	29	11.68	7.23	45	-351	900	5	1700	112
1.3	22	4	6	48	39	76	--	13.28	8.63	53	-751	550	0	1100	72
-.1	16	1	5	35	31	26	--	14.88	10.03	61	-1151	200	--	500	32
-1.5	10	--	4	22	23	--	--	16.48	11.43	69	-1551	--	--	--	--

Influence of Price Changes on Farm Earnings

Farm prices in 1934 advanced more rapidly than did the prices of commodities which farmers bought. Farmers of the United States as a group could exchange their farm products in 1934 for 74 percent as many goods as for the period 1909-1914, while in 1933 they received only 64 percent, and 1932 only 61 percent as much in exchange for what they had to sell as in the prewar period. In the month of February, 1935, this index of purchasing power had increased to 87 percent of prewar, the index of farm prices having risen to 111 as compared with an index of 127 for commodities which farmers buy. When the line representing farm prices drops below the line representing prices paid by farmers, farm earnings are very low, but when these lines come close together farm earnings increase. (See following graph.)

Index of Prices

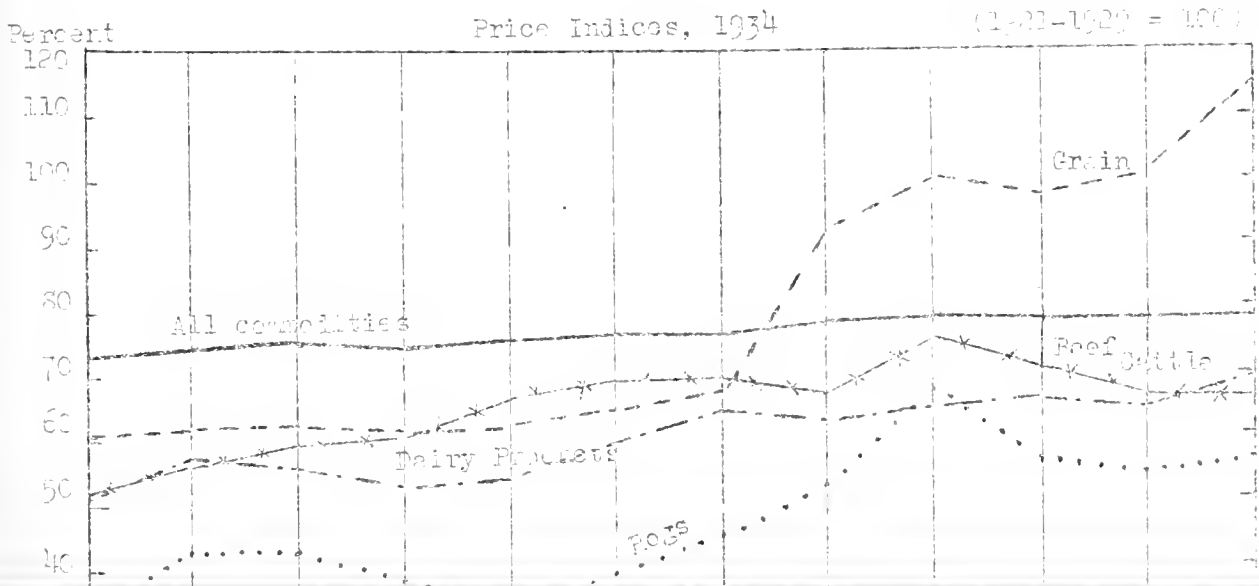
Rate Earned



Since the price of some farm products advanced much more rapidly during 1934 than other products, it is evident that some farms would benefit more than others, depending upon the kind and quantity of products sold. Grain prices advanced much more rapidly than livestock prices; which resulted in a very bad price ratio for farmers who buy large quantities of feed. The average Illinois farm price of corn was 41 cents a bushel in January, 1934; it advanced steadily until the end of the year when it was 86 cents a bushel. Other grains made marked advance although not so great an advance as corn. The price of hogs fluctuated from a low of \$5.20 a hundred in May to a high of \$6.30 in September. The low point in the fall came in November when the average price was \$7.10. The price has advanced quite rapidly since November, the average price being \$7.50 for February, 1935. Beef cattle were worth \$4.10 a hundred in January, 1934 and advanced each month until September, when the price was \$5.90. They dropped to \$5.20 in December but increased again to \$7.40 for February, 1935.

The year 1934 set a record for the reduction in the numbers of livestock. The percentage decreases by species were as follows: horses, 1.1 percent; mules, 2.6 percent; all cattle, 11.2 percent; sheep, 4.7 percent; hogs, 35.3 percent. When all species are combined on the basis of their capacity to consume feed, the reduction was 14 percent. This reduction will greatly reduce the demand for feeds produced in 1935.

The relative changes in prices of important commodities may be noted in the following graph, which shows the average Illinois farm prices by months as a percentage of the average prices for the period 1921-1929.



Variations in Earnings Over Five-Year Period

A comparison of production, income, and expenditure on the accounting farms in Jo Daviess and Stephenson counties for the last five years is very interesting because of the violent fluctuations in price level. Although the 1934 corn crop was almost average in this area, the small grain crops were almost a failure and followed the smaller than average small grain crop of 1933. The increased prices of both grain and livestock caused the 1934 earnings to be the highest for the five year period 1930-1934.

Earnings in 1935, as usual, will depend upon individual efficiency, weather, and prices. With normal weather conditions, prices of grain are likely to go down to a more normal level which will give individual efficiency the responsibility for higher earnings on each farm.

Comparison of Earnings and Investments on Accounting Farms
Jo Daviess and Stephenson Counties for 1930-1934

Items	1930 ^{2/}	1931 ^{2/}	1932 ^{2/}	1933	1934
Number of farms - - - - -	30	30	30	36	43
Average size of farms, acres- - - -	213	217	223	216	192
Average rate earned, to pay for management, risk and capital - - -	3.8%	-2.5%	-3.3%	1.7%	5.5%
Average labor and management wage -	\$ 311	\$-1 727	\$-1 558	\$-309	\$ 646
Gross income per acre - - - - -	16.87	9.85	6.22	10.00	15.13
Operating cost per acre - - - - -	11.23	13.40	9.97	7.94	8.60
Average value of land per acre- - -	91	84	67	72	69
Total investment per acre - - - - -	149	142	113	120	119
Investment per farm in:					
Total livestock- - - - -	4 158	3 700	2 611	2 269	2 001
Cattle - - - - -	2 603	2 243	1 678	1 463	1 317
Hogs - - - - -	841	702	332	303	221
Poultry- - - - -	203	140	126	86	90
Gross income per farm - - - - -	3 595	2 141	1 386	2 164	2 904
Income per farm from:					
Crops- - - - -	---	---	---	213	327
Miscellaneous income - - - - -	42	89	112	65	7
Total livestock- - - - -	3 553	2 052	1 274	1 886	2 463
Cattle - - - - -	458	81	70	387	486
Dairy sales- - - - -	1 183	899	523	677	838
Hogs - - - - -	1 589	797	483	625	860
Poultry- - - - -	235	256	193	134	21 212
Average yield of corn in bu.- - - -	47	40	48	40	40
Average yield of oats in bu.- - - -	51	40	44	20	13

^{2/} Records from Jo Daviess County only for 1929-1932.

ANNUAL FARM BUSINESS REPORT OF SIXTY-EIGHT FARMS
IN LEE, WHITESIDE, AND OGLE COUNTIES, ILLINOIS, 1934

P. E. Johnston, T. R. Hedges, and A. L. Leonard*

The farm earnings of 68 account-keeping farmers in Lee, Whiteside, and Ogle counties showed an increase in 1934 over those of 1933. This is the second consecutive year of improvement in the businesses of these farms. The three years previous to 1933 showed very low returns.

These 68 accounts show for 1934 an average net income of \$2,089 per farm, as compared with an average of \$1,410 in 1933, and an average net loss of \$588 in 1932. The average cash income in 1934 was \$4,349 per farm, the cash business expenditures \$2,293 per farm, leaving a cash balance of \$2,056 to meet interest payments and family living expenses. (Those who keep home account books use the latter figure to represent the cash contribution of the farm to the "realized family income".) Besides the cash income, there was an inventory increase of \$692 a farm due mostly to the rise in prices of farm products. This increase, added to the cash balance, resulted in an average excess of receipts over expenses of \$2,746 a farm.

These data must not be considered representative of average farm conditions, for they were secured from farms which are larger than average, and which were managed by farmers who are more efficient than the average of all farmers in the county.

For the state as a whole, farm earnings were better in 1934 than in 1933, in spite of the fact that corn and oat yields were very low due to the drouth and to chinch bug damage. In the western and southwestern parts of the state the drouth caused an almost total failure of both corn and oats. This accounts for farm earnings being lower there than in other parts of the state.

The corn crop was best in the southeastern part of the state, and was fair in the northwestern section. Wheat yields were particularly good in the south and central portions of the state. Soybean yields were very good throughout the state, and there was a larger than normal acreage in Illinois in 1934. This state produced over half of the nation's 1934 crop of soybeans.

Chinch bug damage extended over most of the state last year, but was much more severe in some sections than in others, and was much worse on some farms than on other farms in the same community. Conditions affecting crop yields were very spotted. This accounts in part for the wide variation in farm earnings from one section of the state to another, and the wider variations than usual from one farm to another.

*C. E. Yale, F. H. Shuman, and D. E. Warren, farm advisers in the above Counties, cooperated in supervising and collecting the records on which this report is based.

Industries other than agriculture again showed improved earnings over the previous year. A group of 840 industrial corporations reported by a nationally known bank showed average earnings of 5.0 percent on their invested capital in 1934, as compared with 3.4 percent for the same corporations in 1933. A similar group had a loss of one-tenth of one percent in 1932, and average earnings of 3.3 percent in 1931.

In comparing the average earnings of corporations with the rate earned on investments on accounting farms, it is well to keep in mind that in corporation accounting, charges are made for management, while in the farm accounts no comparable deduction has been made. On the other hand the farmer and his family receive food, fuel, and other items of living from the farm for which the farm has received no credit in the records used in this report. For the average central Illinois farm family, consisting of five persons, the value of the food and fuel furnished by the farm was about \$250 in 1934, when estimated on the basis of the wholesale price for farm products.

Variations in Farm Incomes

There was a much wider range in farm earnings on the accounting farms in 1934 than in 1933. This was true for the farms included in this report, and it was also true when the average earnings of farms in one section of the state were compared with the earnings of farms in other areas.

The extremely wide range in earnings was due to a combination of physical and economic factors. The average yields of wheat and soybeans was much better compared with the five-year average, than the average yields of corn and oats. This variation favored those sections which had larger acreages of the higher yielding crops in 1934. There was also a wide range in average corn yields from one section of the state to another, as well as between individual farms in the same area. The price of grains was high in 1934 as compared with prices of livestock and livestock products. Farms where grain sales constitute a large part of the farm income thus had an advantage. The rapid increase in the prices of farm products, particularly grains, favored those farms which had large stocks of salable products on hand at the beginning of the year. Many farmers who inventoried the corn on hand at the beginning of 1934 at 40 cents a bushel, later sold this corn for 80 cents.

In this group of 68 accounting farms the most successful third shows an average net income of \$3,570, while the average net income on the least successful third of the farms was \$865. In 1933, the comparable net income for the two groups was \$2,843, and \$186 respectively.

Investments, Receipts, Expenses and Earnings on 68
Lee, Whiteside, and Ogle County Farms in 1934

Items	Your farm	Average of 68 farms	23 most profitable farms	23 least profitable farms
<u>CAPITAL INVESTMENTS</u>				
Land - - - - -		20 014	19 749	20 902
Farm improvements- - - - -		4 837	4 814	4 511
Livestock total- - - - -		<u>2 237</u>	<u>2 713</u>	<u>1 857</u>
Horses - - - - -		400	387	477
Cattle - - - - -		1 362	1 751	977
Hogs - - - - -		330	379	288
Sheep- - - - -		60	94	40
Poultry- - - - -		85	102	75
Machinery and equipment- - -		1 555	1 658	1 304
Feed and grains- - - - -		1 809	2 217	1 539
Total capital investment	\$ _____	<u>\$30 452</u>	<u>\$31 151</u>	<u>\$30 113</u>
<u>RECEIPTS AND NET INCREASES</u>				
Livestock total- - - - -		<u>2 999</u>	<u>4 144</u>	<u>1 963</u>
Horses - - - - -		23	54	---
Cattle - - - - -		1 152	1 953	514
Hogs (including AAA payments)		1 043	1 368	660
Sheep- - - - -		102	164	37
Poultry- - - - -		73	74	65
Egg sales- - - - -		114	113	111
Dairy sales- - - - -		492	418	576
Feed and grains (including AAA payments) - - - - -		820	1 234	577
Labor off farm - - - - -		80	130	31
Miscellaneous receipts - - -		8	17	4
Total receipts & net increases	\$ _____	<u>\$ 3 907</u>	<u>\$ 5 525</u>	<u>\$ 2 575</u>
<u>EXPENSES AND NET DECREASES</u>				
Farm improvements- - - - -		230	267	175
Horses - - - - -		---	---	---
Miscellaneous livestock decreases		---	---	---
Machinery and equipment- - -		342	360	337
Feed and grains- - - - -		---	---	---
Livestock expense- - - - -		32	32	36
Crop expense - - - - -		119	133	105
Hired labor- - - - -		181	202	165
Taxes- - - - -		223	239	210
Miscellaneous expenses - - -		27	28	26
Total expenses & net decreases	\$ _____	<u>\$ 1 159</u>	<u>\$ 1 261</u>	<u>\$ 1 054</u>
<u>RECEIPTS LESS EXPENSES- - - - -</u>				
	\$ _____	<u>\$ 2 748</u>	<u>\$ 4 264</u>	<u>\$ 1 521</u>
Total unpaid labor- - - - -		659	694	656
Operator's labor - - - - -		518	540	493
Family labor - - - - -		141	154	163
Net income from investment and management - - - - -		2 089	3 570	865
RATE EARNED ON INVESTMENT - - - - -	_____ %	<u>6.36%</u>	<u>11.46%</u>	<u>2.87%</u>
Return to capital and operator's labor and management - - - - -		2 607	4 110	1 358
5% of capital invested- - - - -		1 523	1 557	1 506
LABOR AND MANAGEMENT WAGE - - - -	\$ _____	<u>\$ 1 084</u>	<u>\$ 2 553</u>	<u>\$ -148</u>

The following table shows the number of farms having certain net incomes per acre. There was a marked difference between the most successful and the least successful farms.

<u>Average net income per acre</u>	<u>Number of farms</u>	<u>Average net income per acre</u>	<u>Number of farms</u>
\$21 and over	5	\$9	12
19.	2	7	9
17.	5	5	7
15.	7	3	4
13.	3	1	7
11.	6	-1	1

A further study of the farm businesses made by comparing the investments, receipts, and expenses of the group of farms having the highest net income, with those having the lowest income will throw some light on the question of why some farmers are more successful than others. This comparison is shown in the table on page 3.

The most successful farms averaged 205 acres each, the least successful 201 acres. The most profitable farms had a larger investment in total livestock and in feed and grains, and also a larger total farm investment than the least profitable farms. They had higher total receipts and net increases than the least profitable farms, due mostly to larger sales of cattle, hogs, and feed and grains. The total expense per farm and per acre, including the charge for family labor, was somewhat higher on the most profitable farms.

The year 1934 was similar to 1933 in that the prices of farm products continued to advance, causing further increases in inventory values. Owing to the poor crop yields in 1934, there were fewer bushels of grain on hand to inventory at the end of the year than at the beginning. The value of the smaller amount of grain, however, was greater than for the larger amount on hand at the beginning of the year.

Bushels of Corn Inventoried

	Jan. 1, 1934	Dec. 31, 1934
Average of all farms.	2 526	1 563
Average of 23 most successful farms . .	3 289	2 251
Average of 23 least successful farms. .	1 894	1 174
Your farm		

The most profitable farms had a much larger inventory of corn, both at the beginning and at the end of the year. With the rise in corn prices, this was one of the important factors accounting for their higher returns from feed and grains.

The average inventory increase for the accounting farms in Lee, Whiteside, and Ogle counties was \$692 in 1934, as compared with \$218 in 1933, and a decrease of \$1,084 in 1932. There were increases of \$382 in feed and grain, \$286 in livestock, and \$54 in improvements, and a decrease of \$40 in machinery. The inventory decrease in machinery was the smallest since 1929 on account-keeping farms, and indicates that needed repairs and replacements are being made, but still not enough to offset the current depreciation costs. The increase in the improvements inventory is of considerable interest, for it is the first time that such an increase has occurred since farm earnings began to decline so drastically with the general depression.

Inventory Changes for 1934

Items	Beginning inventory 1-1-34	Closing inventory 12-31-34	Inventory change 1934	Inventory changes, your farm
Total livestock.	\$2 237	\$2 523	\$286	\$
Feed and grains.	1 809	2 191	382	
Machinery.	1 555	1 515	-40	
Improvements (except residence).	4 837	4 901	64	
Total.	\$10 438	\$11 130	\$692	\$

Some Adjustments on Lee, Whiteside, and Ogle County Farms since 1929

Farmers have been forced to make adjustments in their cash expenditures as the result of changes in their cash income. From 1930 through 1933, farm operating costs declined each year, but the year 1934 brought a reversal of this trend. The total operating expenses were 26 cents an acre higher in 1934 than in 1933, while cash operating expenses were \$2,293 a farm in 1934, as compared with \$2,323 in 1933. There were increases in expenditures over 1933 for improvements, crop expense, and labor, and decreases in expenditures as compared with 1933 for livestock, taxes, and feed and grain. Indications point to an increase in expenditures for repairs and replacement of machinery in 1935, since farmers have postponed purchase of these items during the five-year period since 1929.

Cash Income and Expenses on Accounting Farms in Lee, Whiteside, and Ogle County for 1929 and 1934

Items	Your farm	Average cash expense per farm		Your farm	Average cash income per farm	
	1934	1934	1929	1934	1934	1929
Livestock	\$	\$ 651	\$1 290	\$	\$3 364	\$6 128
Feed and grains		367	863		805	665
Machinery		393	743		91	121
Improvements.		295	283		1	---
Labor		181	342		80	36
Miscellaneous		27	36		8	3
Livestock expense		32	75		---	---
Crop expense.		119	213		---	---
Taxes		228	321		---	---
Total	\$	\$2 293	\$4 166	\$	\$4 349	\$6 953
Excess of cash sales over expenses.	\$			\$	\$2 056	\$2 787
Increase in inventory					692	275
Income to labor and capital (Receipts less expenses).					2 748	3 062

The cumulative effect of several years of low agricultural prices on the demand for manufactured goods can be readily ascertained by a comparison of cash expenditures in 1934 with those in 1929. The average cash income in 1934 was 63 percent of that in 1929, while cash expenditures were only 55 percent as large. In 1934 livestock purchases were 50 percent, and feed and grain purchases 43 percent as large as in 1929. In 1934 these farms paid out 53 percent as much for machinery, 56 percent as much for crop expense and 53 percent as much for hired labor as in 1929, while taxes were reduced to 71 percent of the 1929 level.

Comparison of Farms With High and Low Earnings

The most profitable farms in this study had net receipts per acre of \$17.44 as compared with \$4.30 for the least profitable group. The reasons for this difference may be obtained from a study of the data on pages 3 and 8.

The most profitable farms were more intensive and more efficient in their livestock production than the least profitable farms. They had an investment in productive livestock of \$12.11 per acre, and fed \$2,938 of feed per farm, as compared with \$7.21 invested per acre, and \$1,730 of feed fed per farm, on the least profitable farms. The productive livestock on the most profitable farms returned \$139 for each \$100 of feed fed, as compared with a return of \$113 per \$100 of feed fed on the least profitable farms. The most profitable farms had an average of 12.2 litters per farm, weaned an average of 6.3 pigs per litter, and had an income of \$114 per litter. The comparable figures for the least profitable farms were 7.9 litters per farm, 5.7 pigs weaned per litter, and an income of \$84 per litter. The most profitable farms had an average investment in cattle of \$1,781 per farm, and had returns of \$133 per \$100 invested in cattle, as compared with an average investment in cattle of \$1,016 per farm, and returns of \$107 per \$100 invested in cattle on the least profitable farms.

The most profitable farms, although only 3.4 acres larger in size, had a larger proportion of their land area tillable, and had 12.4 acres more corn, 5.3 acres more oats, 16.3 acres more soybeans and 5.7 acres more hay than the least profitable farms. The most profitable farms carried larger inventories of feed and grain on which to make a profit when prices advanced. In addition to the larger acreage of crops, another reason for the larger inventories of feed and grain was the higher crop yields, there being an advantage of 12.0 bushels of corn, 2.8 bushels of oats, and 11.6 bushels of soybeans per acre in favor of the high-profit group.

The larger income on the most profitable farms was secured with a total operating cost of only \$1.06 an acre greater than on the least profitable farms. Man labor cost per crop acre was \$5.86 on the most profitable farms as compared with \$6.07 on the least profitable group, while power and machinery costs per crop acre was \$3.87 on the most profitable group, and \$4.62 per crop acre on the least profitable farms.

Influence of AAA Programs on Cropping Systems and Farm Incomes

The farm-account records in Illinois were influenced both directly and indirectly by the corn-hog and wheat adjustment programs. A large percentage of accounting farms were under one or both contracts in 1934. The acreages of corn and wheat on these farms were therefore less than normal. This should have resulted in lower operating costs. Corn-hog benefit payments for the entire 1934 program will total about 40 million dollars for the state, while wheat benefit payments will be about 2.4 million dollars.

The benefit payments for accounting farms are indicated in the following table, which shows the average payment for those farms receiving payments, and includes only those payments received by the cooperator before the 1934 books were closed. In some cases only the first corn-hog check is included, while in other cases the second check had been received. The second payments not received, and the third payments will be entered in the 1935 book.

AAA Benefit Payments Received in 1934

	Corn		Wheat		Hogs		Average of all payments ^{1/}
	Number of farms	Amount per farm	Number of farms	Amount per farm	Number of farms	Amount per farm	
1/3 most profitable farms	23	\$136	5	\$ 89	22	\$178	\$325
1/3 least profitable farms	18	78	3	118	17	88	141
All accounting farms	63	109	8	100	60	139	231

^{1/} Total benefit payments reported by accounting farms under contract for 1934 divided by total number of accounting farms.

On many farms the cash received from benefit payments will more than pay for the year's taxes. As an average for all accounting farms, the payments actually received were \$3 more than sufficient to pay the 1934 taxes.

It is interesting to note the use made of the contracted acres on the accounting farms. The average farm had 15.8 contracted acres which were used as follows: 4.3 idle; 3.4 red clover; 1.8 sweet clover; 2.7 soybeans; 1.2 alfalfa; and 2.4 acres were in other crops. These data indicate that most farmers made good use of their contracted acres from the standpoint of soil improvement, as a large part of them were in legumes. When the Government restrictions on the use of crops grown on contracted acres were removed, they were on many farms the most profitable crops as they furnished hay and pasture where badly needed in drouth areas. The legumes had the further advantage of being immune to attack from chinch bugs.

Farm earnings were influenced indirectly by the AAA programs in that the reduction in production increased the price of the commodities involved. The drouth was a more important factor in reducing production than the adjustment programs, yet if it had not been for the corn-sealing program there would have been but little corn in the hands of farmers at the time the major price advance became effective.

Factors Helping to Analyze the Farm Business on 68
Lee, Whiteside, and Ogle County Farms in 1934

Items	Your farm	Average of 68 farms	23 most profitable farms	23 least profitable farms
Size of farms--acres - - - - -	_____	205.0	204.7	201.3
Percent of land area tillable- - -	_____	85.3	87.1	80.8
Percent of tillable land in hay and pasture - - - - -	_____	38.0	39.2	37.0
Gross receipts per acre- - - - -	_____	19.06	26.99	12.79
Total expenses per acre- - - - -	_____	8.87	9.55	8.49
Net receipts per acre- - - - -	_____	10.19	17.44	4.30
Value of land per acre - - - - -	_____	98	96	104
Total investment per acre- - - - -	_____	149	152	150
Acres in Corn- - - - -	_____	49.1	54.5	42.1
Oats- - - - -	_____	32.2	34.0	28.7
Soybeans- - - - -	_____	2.0	19.3	3.0
Hay - - - - -	_____	30.6	33.2	27.5
Tillable pasture- - - - -	_____	35.9	36.7	32.6
Crop yields--Corn, bu. per acre- -	_____	39.6	47.0	35.0
Oats, bu. per acre- -	_____	10.3	11.8	9.0
Soybeans, bu. per acre	_____	10.1	17.4	5.8
Value of feed fed to productive L.S.	_____	2 308	2 938	1 730
Returns per \$100 of feed fed to productive livestock- - - - -	_____	129	139	113
Returns per \$100 invested in:				
Cattle- - - - -	_____	116	133	107
Poultry - - - - -	_____	213	191	226
Litters per farm - - - - -	_____	10.2	12.2	7.9
Pigs weaned per litter - - - - -	_____	6.1	6.3	5.7
Income per litter farrowed - - - -	_____	103	114	84
Dairy sales per dairy cow- - - - -	_____	59	57	63
Investment in productive L.S. per A.	_____	9.64	12.11	7.21
Receipts from productive L.S. per A.	_____	14.52	19.98	9.75
Man labor cost per crop acre - - -	_____	5.76	5.86	6.07
Machinery cost per crop acre - - -	_____	2.46	2.54	2.59
Power and mach. cost per crop A. -	_____	3.96	3.87	4.62
Farms with tractor - - - - -	_____	64.7%	69.6%	47.8%
Value of feed fed to horses- - - -	_____	231	242	264
Man labor cost per \$100 gross income- - - - -	_____	21	15	31
Expenses per \$100 gross income - -	_____	47	35	66
Farm improvements cost per acre- -	_____	1.12	1.30	.87
Excess of sales over cash expenses	_____	2 056	3 311	1 359
Increase in inventory- - - - -	_____	692	953	162
Rate earned on investment- - - - -	_____	6.86	11.46	2.87
Gross receipts per farm- - - - -	_____	3 907	5 525	2 575

Chart for Studying the Efficiency of Various Parts of Your Business,
Lee, Whiteside, and Ogle Counties, 1934

The numbers above the lines across the middle of the page are the averages for the 68 farms included in this report for the factors named at the top of the page. By drawing a line across each column at the number measuring the efficiency of your farm in that factory, you can compare your efficiency with that of other farmers in your locality.

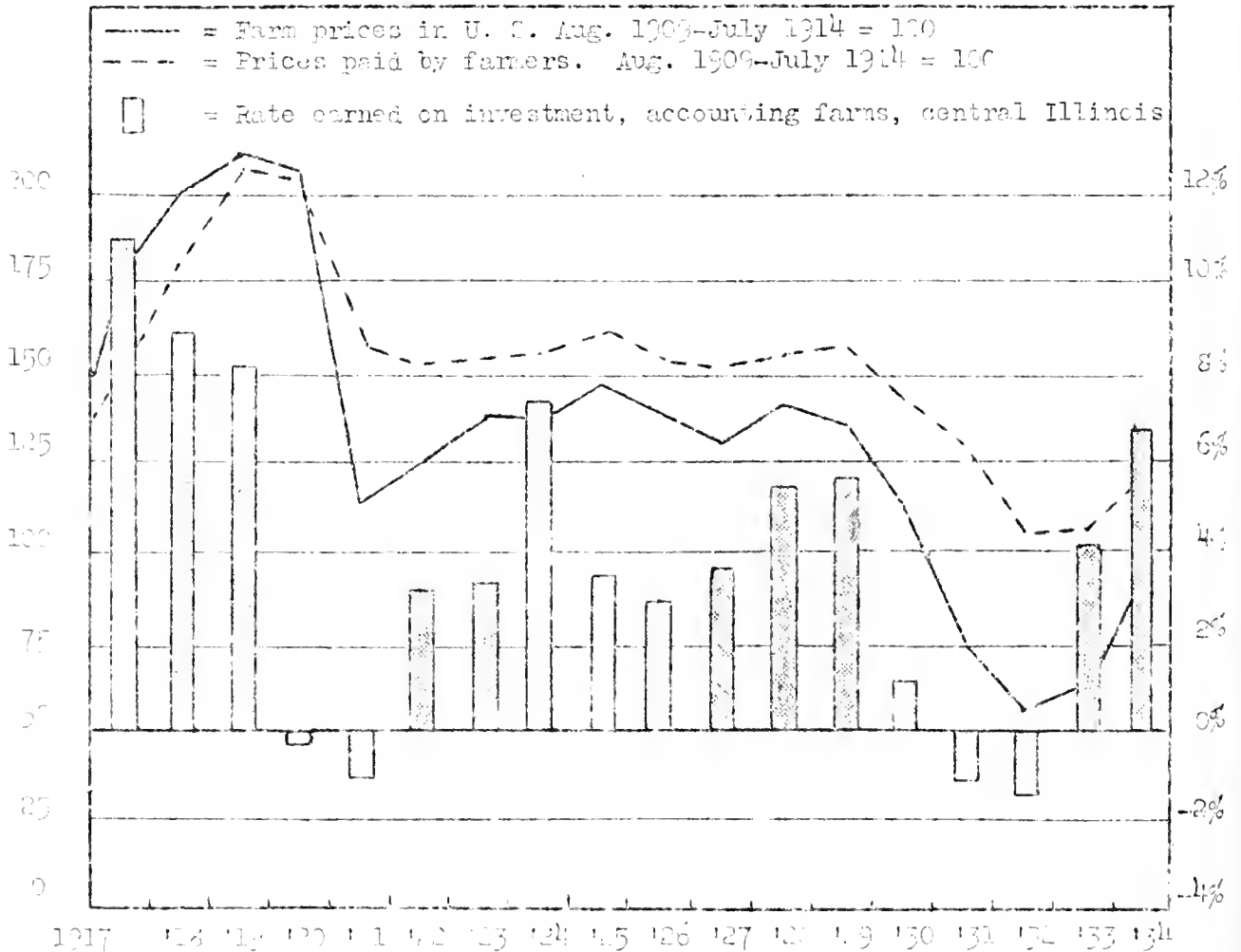
Rate earned on investment	Bushels per acre		Cattle income per \$100 invested	Hogs: Income per litter	Dairy sales per dairy cow	Poultry income per \$100 invested	L.S. income per \$100 of feed fed	Cost per crop acre		Labor cost per \$100 gross receipts	Increase in inventory	Sales over cash expenses	Gross receipts		Acres in farm
	Corn	Oats						Labor	Power and machinery				Per acre	Per farm	
14.5	60	20	166	153	39	388	199	.75	.25	--	4200	4050	29.00	8900	355
13.0	56	18	156	143	33	353	185	1.75	1.00	--	3500	3650	27.00	7900	325
11.5	52	16	146	133	77	318	171	2.75	1.75	3	2800	3250	25.00	6900	295
10.0	48	14	136	123	71	283	157	3.75	2.50	9	2100	2750	23.00	5900	265
8.5	44	12	126	113	67	248	143	4.75	3.25	15	1400	2450	21.00	4700	235
6.86	39.6	10.3	116	103	59	213	129	5.76	3.96	21	692	2056	19.06	3907	205
5.5	36	8	106	93	53	178	115	6.75	4.75	27	0	1650	17.00	2900	175
4.0	32	6	96	83	47	143	101	7.75	5.50	33	-700	1250	15.00	1900	145
2.5	28	4	86	73	41	108	87	8.75	6.25	39	-1400	850	13.00	900	115
1.0	24	2	76	63	35	73	73	9.75	7.00	45	--	450	11.00	--	85
-.5	20	0	66	53	29	38	59	10.75	7.75	51	--	50	9.00	--	55

Influence of Price Changes on Farm Earnings

Farm prices in 1934 advanced more rapidly than did the prices of commodities which farmers bought. Farmers of the United States as a group could exchange their farm products in 1934 for 74 percent as many goods as for the period 1909-1914, while in 1933 they received only 64 percent, and 1932 only 61 percent as much in exchange for what they had to sell as in the prewar period. In the month of February, 1935, this index of purchasing power had increased to 87 percent of prewar, the index of farm prices having risen to 111 as compared with an index of 127 for commodities which farmers buy. When the line representing farm prices drops below the line representing prices paid by farmers, farm earnings are very low, but when these lines come close together farm earnings increase. (See following graph.)

Index of Prices

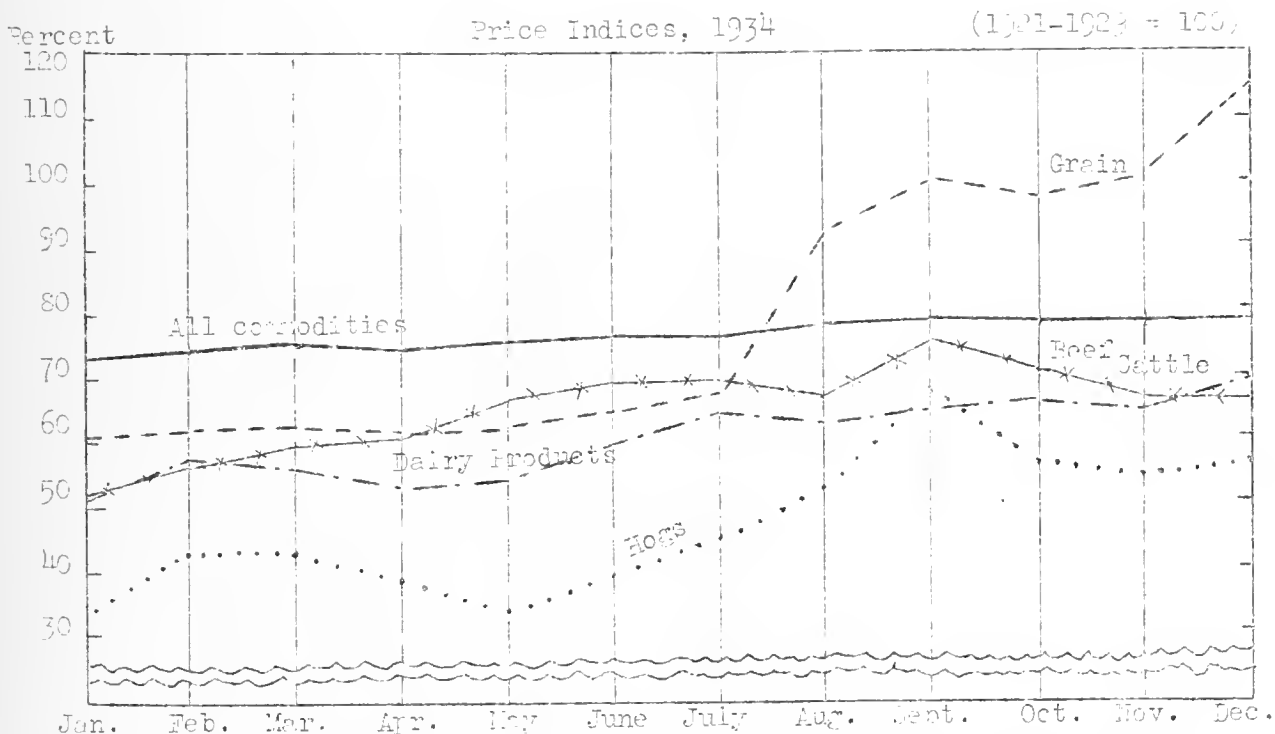
Rate Earned



Since the price of some farm products advanced much more rapidly during 1934 than other products, it is evident that some farms would benefit more than others, depending upon the kind and quantity of products sold. Grain prices advanced much more rapidly than livestock prices; which resulted in a very bad price ratio for farmers who buy large quantities of feed. The average Illinois farm price of corn was 41 cents a bushel in January, 1934; it advanced steadily until the end of the year when it was 88 cents a bushel. Other grains made marked advance although not so great an advance as corn. The price of hogs fluctuated from a low of \$5.20 a hundred in May to a high of \$6.30 in September. The low point in the fall came in November when the average price was \$5.10. The price has advanced quite rapidly since November, the average price being \$7.50 for February, 1935. Beef cattle were worth \$4.10 a hundred in January, 1934 and advanced each month until September, when the price was \$5.30. They dropped to \$3.20 in December but increased again to \$7.40 for February, 1935.

The year 1934 set a record for the reduction in the numbers of livestock. The percentage decreases by species were as follows: horses, 1.1 percent; mules, 2.6 percent; all cattle, 11.2 percent; sheep, 4.7 percent; hogs, 35.3 percent. When all species are combined on the basis of their capacity to consume feed, the reduction was 15 percent. This reduction will greatly reduce the demand for feeds produced in 1935.

The relative change in prices of important commodities may be noted in the following graph, which shows the average Illinois farm prices by months as a percentage of the average prices for the period 1921-1929.



All commodities index represents the wholesale price of a large number of commodities for the United States, as computed by Bureau of Labor Statistics. Grain and livestock indices represent average monthly farm prices in Illinois.

Variation in Earnings Over Five-Year Period

A comparison of production, income, and expenditures on the accounting farms in Lee, Whiteside, and Ogle counties for the last five years is very interesting because of the violent changes in the price level. 1934 was a year of low crop yields, yet total receipts per farm were higher than in any other year in the last five, and were 80 percent of the 1929 gross receipts. Operating costs per acre were lower than in any year of the five except 1933. Thus profits were the best these counties have experienced since 1929.

Earnings in 1935, as usual, will depend upon individual efficiency, weather, and prices. With normal weather conditions, prices of grain are likely to go down to a more normal level which will give individual efficiency the responsibility for higher earnings on each farm.

Comparison of Earnings and Investments on Accounting Farms in
Lee, Whiteside, and Ogle Counties for 1930-1934

Items	1930 ^{1/}	1931 ^{2/}	1932 ^{2/}	1933 ^{2/}	1934
Number of farms - - - - -	55	37	36	33	68
Average size of farms, acres- - -	206	232	225	225	205
Average rate earned, to pay for management, risk and capital - -	2.8%	-1.9%	-1.7%	-4.3%	6.9%
Average labor and management wage	\$-72	\$-2 148	\$-1 768	\$297	\$1 084
Gross income per acre - - - - -	18.15	9.13	7.86	14.87	19.06
Operating cost per acre - - - - -	12.94	12.41	10.47	8.61	8.87
Average value of land per acre- -	113	98	98	98	98
Total investment per acre - - - -	183	172	152	145	149
Investment per farm in:					
Total livestock- - - - -	4 293	4 118	3 010	2 471	2 237
Cattle - - - - -	2 652	2 586	1 913	1 584	1 362
Hogs - - - - -	812	808	477	329	330
Poultry- - - - -	173	139	102	87	85
Gross income per farm - - - - -	3 740	2 115	1 771	3 350	3 907
Income per farm from:					
Crops- - - - -	----	----	----	1 315	820
Miscellaneous- - - - -	64	42	26	25	8
Total livestock- - - - -	3 676	2 073	1 745	2 010	2 999
Cattle - - - - -	631	564	631	725	1 152
Dairy sales- - - - -	1 158	520	370	400	492
Hogs - - - - -	1 548	757	542	659	1 043
Poultry- - - - -	239	207	140	152	73 127
Average yield of corn in bu.- - -	41	49	58	52	40
Average yield of oats in bu.- - -	49	44	49	35	10

^{1/} Records from Stephenson county included for 1930.

^{2/} Records from Ogle and Lee Counties only for 1931, 1932, 1933.

ANNUAL FARM BUSINESS REPORT ON FORTY-THREE FARMS
IN MERCER COUNTY, ILLINOIS, 1934

P. E. Johnston, E. L. Sauer, and J. B. Andrews*

The farm earnings of 43 account-keeping farmers in Mercer County showed an increase in 1934 over those of 1933. This is the second consecutive year of improvement in the business of these farms. The three years previous to 1933 showed very low returns.

These 43 accounts show for 1934 an average net income of \$2,471 per farm, as compared with an average of \$1,937 in 1933, and an average net loss of \$481 in 1932. The average cash income in 1934 was \$5,303 per farm, the cash business expenditures \$3,057 per farm, leaving a cash balance of \$2,246 to meet interest payments and family living expenses. (Those who keep home account books use the latter figure to represent the cash contribution of the farm to the "realized family income".) Besides the cash income, there was an inventory increase of \$357 per farm due to the rise in the prices of farm products. This increase, added to the cash balance, resulted in an average excess of receipts over expenses of \$3,103 per farm. The inventory increase was a larger part of the total farm income in 1934 than in 1933.

These data must not be considered representative of average farm conditions, for they were secured from farms which are larger than average, and which were managed by farmers who are more efficient than the average of all farmers in the county.

For the state as a whole, farm earnings were better in 1934 than in 1933 in spite of the fact that corn and oat yields were very low due to drouth and to chinch bug damage. In the western and southwestern parts of the state the drouth caused an almost total failure of both corn and oats. This accounts for farm earnings being lower there than in other parts of the state.

The corn crop was best in the southeastern part of the state, and was fair in the northwestern section. Wheat yields were particularly good in the south and central portions of the state. Soybean yields were very good throughout the state, and there was a larger than normal acreage in Illinois in 1934. This state produced over half of the nation's 1934 crop of soybeans.

Chinch bug damage extended over most of the state last year, but was much more severe in some sections than in others, and was much worse on some farms than on other farms in the same community. Conditions affecting crop yields were very spotted. This accounts in part for the wide variation in farm earnings from one section of the state to another, and the wider variations than usual from one farm to another.

* W. F. Furnell, farm adviser in Mercer County, cooperated in supervising and collecting the records on which this report is based.

Industries other than agriculture again showed improved earnings over the previous year. A group of 840 industrial corporations reported by a nationally known bank showed average earnings of 5.0 percent on their invested capital in 1934, as compared with 3.4 percent for the same corporations in 1933. A similar group had a loss of one-tenth of one percent in 1932 and average earnings of 3.3 percent in 1931.

In comparing the average earnings of corporations with the rate earned on investment on accounting farms it is well to keep in mind that in corporation accounting, charges are made for management, while in the farm accounts no comparable deduction has been made. On the other hand the farmer and his family receive food, fuel, and other items of living from the farm for which the farm has received no credit in the records used in this report. For the average central Illinois farm family, consisting of five persons, the value of the food and fuel furnished by the farm was about \$250 in 1934, when estimated on the basis of the wholesale price for farm products.

Variations in Farm Incomes

There was a much wider range in farm earnings on the accounting farms in 1934 than in 1933. This was true for the farms included in this report, and was also true when the average earnings of farms in one section of the state are compared with the earnings of farms in other areas.

The extremely wide range in earnings was due to a combination of physical and economic factors. The average yields of wheat and soybeans were much better, compared with the five-year average, than the average yields of corn and oats. This variation favored those sections which had larger acreages of the higher yielding crops in 1934. There was also a wide range in average corn yields from one section of the state to another, as well as between individual farms in the same area. The price of grains was high in 1934, as compared with prices of livestock and livestock products. Farms where grain sales constitute a large part of the farm income thus had an advantage. The rapid increase in the prices of farm products, particularly grains, favored those farms which had large stocks of salable products on hand at the beginning of the year. Many farmers who inventoried the corn on hand at the beginning of 1934 at 40 cents a bushel, later sold this corn for 80 cents.

In this group of 43 accounting farms the most successful third shows an average net income of \$4,123, while the average net income of the least successful third of the farms was only \$919. In 1933 the comparable net incomes for the two groups was \$2,833, and \$1,245 respectively.

Investments, Receipts, Expenses and Earnings on 15
Mercer County Farms in 1954

Items	Your farm	Average of 43 farms	14 most profitable farms	14 least profitable farms
CAPITAL INVESTMENTS				
Land - - - - -		22 801	23 190	23 639
Farm improvements- - - - -		4 385	4 508	4 400
Livestock total- - - - -		<u>2 538</u>	<u>3 312</u>	<u>2 358</u>
Horses - - - - -		419	410	464
Cattle - - - - -		1 395	2 001	1 118
Hogs - - - - -		615	690	612
Sheep- - - - -		92	131	98
Poultry- - - - -		87	80	66
Machinery and equipment- - - - -		1 322	1 229	1 416
Feed and grains- - - - -		1 852	2 525	1 389
Total capital investment	\$	<u>\$32 948</u>	<u>\$34 764</u>	<u>\$33 202</u>
RECEIPTS AND NET INCREASES				
Livestock total- - - - -		<u>4 371</u>	<u>5 988</u>	<u>3 168</u>
Horses - - - - -		40	48	7
Cattle - - - - -		1 396	2 059	934
Hogs (including AAA payments)-		2 373	3 159	1 753
Sheep- - - - -		67	61	76
Poultry- - - - -		95	151	85
Egg sales- - - - -		100	146	76
Dairy sales- - - - -		300	364	237
Feed and grains (including AAA payments) - - - - -		---	126	---
Labor off farm - - - - -		78	65	22
Miscellaneous receipts - - - - -		23	66	---
Total receipts & net increases	\$	<u>\$ 4 472</u>	<u>\$ 6 245</u>	<u>\$ 3 140</u>
EXPENSES AND NET DECREASES				
Farm improvements- - - - -		263	239	325
Horses - - - - -		---	---	---
Miscellaneous livestock decreases		---	---	---
Machinery and equipment- - - - -		368	413	366
Feed and grains- - - - -		73	---	373
Livestock expense- - - - -		48	62	40
Crop expense - - - - -		122	170	139
Hired labor- - - - -		224	311	158
Taxes- - - - -		245	278	225
Miscellaneous expenses - - - - -		26	29	26
Total expenses & net decreases	\$	<u>\$ 1 369</u>	<u>\$ 1 502</u>	<u>\$ 1 622</u>
RECEIPTS LESS EXPENSES-				
	\$	<u>\$ 3 103</u>	<u>\$ 4 743</u>	<u>\$ 1 568</u>
Total unpaid labor- - - - -		632	620	649
Operator's labor - - - - -		524	540	492
Family labor - - - - -		108	80	157
Net income from investment and management - - - - -		2 471	4 123	919
RATE EARNED ON INVESTMENT	%	<u>7.50%</u>	<u>11.86%</u>	<u>2.77%</u>
Return to capital and operator's labor and management - - - - -		2 995	4 663	1 411
5% of capital invested- - - - -		1 647	1 738	1 660
LABOR AND MANAGEMENT WAGE	\$	<u>\$ 1 348</u>	<u>\$ 2 925</u>	<u>\$ -249</u>

The following table shows the number of farms having certain net incomes per acre. There was a marked difference between the most successful and the least successful farms.

<u>Average net in-</u> <u>come per acre</u>	<u>Number of</u> <u>farms</u>	<u>Average net in-</u> <u>come per acre</u>	<u>Number of</u> <u>farms</u>
\$21 and over	3	\$9	8
19.	2	7	3
17.	1	5	2
15.	7	3	2
13.	6	1	3
11.	5	-1	1

A further study of the farm businesses made by comparing the investments, receipts, and expenses of the group of farms with the highest net incomes, with those having the lowest should throw some light on the question of why some farmers are more successful than others. This comparison is shown in the table on page 3.

The most successful farms averaged 275 acres each, the least successful 217 acres each. This difference in size accounts in part for the variation in the average investment, receipts, and expenses in the two groups. Difference in receipts from the sale of hogs, cattle, and feed and grains accounts for most of the difference in income between the two groups. The most successful farms had less total expense per farm, and per acre, including the charge for family labor, than the least successful farms.

Changes in Inventories and Inventory Values

The year 1934 was similar to 1933 in that the prices of farm products continued to advance, causing further increases in inventory values. Owing to the poor crop yields in 1934 there were fewer bushels of grain on hand to inventory at the end of the year than at the beginning. The value of the smaller amount of grain, however, was greater than for the larger amount on hand at the beginning of the year.

Bushels of Corn Inventoried

	Jan. 1, 1934	Dec. 31, 1934
Average of all farms	3 265	1 836
Average of 14 most successful farms	4 608	3 034
Average of 14 least successful farms	2 355	895
Your farm		

The most profitable farms had a much larger inventory of corn both at the beginning and at the end of the year. This difference accounted for a considerable part of their higher receipts and net increases from feed and grains.

The average inventory increase for the accounting farms in Mercer County was \$857 in 1934, as compared with \$799 in 1933, and an inventory loss of \$1,222 per farm in 1932. There were increases of \$496 in total livestock, and \$519 in feed and grain, and decreases of \$20 in machinery and \$138 in improvements. The decrease in machinery was the smallest it has been since 1930, indicating that more of the necessary repairs and replacements are being made, but still not enough to offset the depreciation costs.

Inventory Changes for 1934

Items	Beginning	Closing	Inventory	Inventory
	inventory 1-1-34	inventory 12-31-34	changes 1934	changes, your farm
Total livestock.	\$2 588	\$3 084	\$ 496	\$
Feed and grains.	1 852	2 371	519	
Machinery.	1 322	1 302	-20	
Improvements (except residence).	4 355	4 247	-138	
Total.	\$10 147	\$11 004	\$ 857	\$

Some Adjustments on Mercer County Farms Since 1929

Farmers have been forced to make adjustments in their cash expenditures as the result of changes in their cash incomes. From 1929 through 1933 farm operating costs declined each year, but the year 1934 brought a reversal of this trend. In 1934 total operating expenses were 28 cents an acre higher than in 1933, while cash operating expenses were \$3,957 per farm in 1934, as compared with \$3,098 per farm in 1933. There were decreases in expenditures from the previous year for livestock, labor, and taxes, which more than offset the increase in expenditures for feed, crop expense, improvements, and machinery. Indications point to an expansion of spending for 1935, particularly for machinery and improvements, since farmers have postponed replacements and repairs of these items during the four-year period since 1929.

Cash Income and Expenses on Accounting Farms in Mercer County for 1929 and 1934

Items	Your	Average cash		Your	Average cash	
	farm 1934	expense per farm 1934	expense per farm 1929	farm 1934	income per farm 1934	income per farm 1929
Livestock	\$	\$ 580	\$2 283	\$	\$4 455	\$8 666
Feed and grains		1 255	1 762		663	1 075
Machinery		424	806		76	153
Improvements.		133	219		8	2
Labor		224	574		78	34
Miscellaneous		26	34		23	5
Livestock expense		48	82		---	---
Crop expense.		122	193		---	---
Taxes		245	376		---	---
Total	\$	\$3 057	\$6 329	\$	\$5 303	\$9 935
Excess of cash sales over expenses.	\$			\$	\$2 246	\$3 606
Increase in inventory					857	643
Income to labor and capital (Receipts less expenses).					3 103	4 249

The cumulative effect of several years of low agricultural prices on the demand for manufactured goods can readily be ascertained by a comparison of cash farm expenditures in 1934 with those in 1929. Although the average cash income in 1934 was 53 percent of that in 1929, cash expenditures were only 48 percent as large. In 1934 livestock purchases were 25 percent, and feed and grain purchases 71 percent as large as in 1929. In 1934 these farms paid out 53 percent as much for machinery, and 63 percent as much for crop expense as in 1929, while taxes were reduced to 65 percent of the 1929 level.

Comparison of Farms With High and Low Earnings

The most profitable farms in this study had net receipts per acre of \$15.01, as compared with \$4.23 for the least profitable group. The reasons for this difference may be obtained from a study of the data on pages 3 and 4.

The most profitable farms averaged 57.5 acres larger, and had a larger proportion of their land area tillable than the least profitable farms. They had 17.7 acres more corn, 2.7 acres more oats, 5.7 acres more hay, and 26.2 acres more tillable pasture than the least profitable farms. The most profitable farms carried larger inventories of feed and grain on which to make a profit when prices advanced. The most profitable farms also produced 19.9 bushels more corn, and 3.5 bushels more oats than the least profitable farms.

The most profitable farms had more livestock, and were more efficient in their livestock operations than the least profitable farms. The most profitable farms had an investment of \$11.87 an acre in productive livestock, as compared with an investment of \$9.43 an acre on the least profitable farms. The most profitable farms fed \$4,419 worth of feed to productive livestock, securing a return of \$134 for each \$100 worth of feed fed, while the least profitable farms fed \$2,586 worth of feed, and secured \$122 for each \$100 worth of feed fed.

The larger income on the most profitable farms was secured with a total operating cost of \$7.72 per acre, as compared with \$10.46 per acre on the least profitable farms. Man labor costs per crop acre were \$6.15 on the most profitable farms, as compared with \$6.87 for the least profitable farms. Power and machinery costs per crop acre amounted to \$4.29 on the most profitable farms, and \$4.80 on the least profitable farms.

Influence of AAA Programs on Cropping Systems and Farm Incomes

The farm-account records in Illinois were influenced both directly and indirectly by the corn-hog and wheat adjustment programs. A large percentage of accounting farms was under one or both contracts in 1934. The acreages of corn and wheat on these farms were therefore less than normal. This should have resulted in lower operating costs. Corn-hog benefit payments for the entire 1934 program will total about 40 million dollars for the state, while wheat benefit payments will be about 2.4 million dollars.

The benefit payments for accounting farms are indicated in the following table, which shows the average payment for those farms receiving payments, and includes only those payments received by the cooperator before the 1934 books were closed. In some cases only the first corn-hog check is included, while in other cases the second check had been received. The second payments not received, and the third payments will be entered in the 1935 book.

AAA Benefit Payments Received in 1934

	Corn		Wheat		Hogs		Average of all payments ^{1/}
	Number of farms	Amount per farm	Number of farms	Amount per farm	Number of farms	Amount per farm	
1/3 most profitable farms	14	\$166	2	\$40	14	\$300	\$378
1/3 least profitable farms	14	110	0	--	14	225	334
All accounting farms	43	126	3	35	45	258	386

^{1/} Total benefit payments reported by accounting farms under contract for 1934 divided by total number of accounting farms.

On many farms the cash received from benefit payments will more than pay for the year's taxes. As an average for all accounting farms, the payments actually received were \$141 more than sufficient to pay the 1934 taxes.

It is interesting to note the use made of the contracted acres on the accounting farms. The average farm had 20.3 contracted acres which were used as follows: 4.2 idle; 2.3 mixed clover; 1.6 sweet clover; 8.7 soybeans; .7 alfalfa; and 2.8 acres were in other crops. These data indicate that most farmers made good use of their contracted acres from the standpoint of soil improvement, as a large part of them were in legumes. When the Government restrictions on the use of crops grown on contracted acres were removed, they were on many farms the most profitable crops as they furnished hay and pasture where badly needed in drouth areas. The legumes had the further advantage of being immune to attack from chinch bugs.

Farm earnings were influenced indirectly by the AAA programs in that the reduction in production increased the price of the commodities involved. The drouth was a more important factor in reducing production than the adjustment programs, yet if it had not been for the corn-sealing program, there would have been but little corn in the hands of farmers at the time the major price advance became effective.

Factors Helping to Analyse the Farm Business on 43
Mercer County Farms in 1934

Items	Your farm	Average of 43 farms	14 most profitable farms	14 least profitable farms
Size of farms--acres - - - - -	_____	221.5	274.7	217.2
Percent of land area tillable- - - - -	_____	76.8	76.6	70.8
Percent of tillable land in hay and pasture - - - - -	_____	51.2	51.7	50.0
Gross receipts per acre- - - - -	_____	20.19	22.73	14.69
Total expenses per acre- - - - -	_____	9.03	7.72	10.46
Net receipts per acre- - - - -	_____	11.16	15.01	4.23
Value of land per acre - - - - -	_____	103	84	109
Total investment per acre- - - - -	_____	149	127	153
Acres in Corn- - - - -	_____	53.3	66.9	49.2
Oats- - - - -	_____	22.2	24.6	20.9
Soybeans- - - - -	_____	1.5	2.7	1.8
Hay - - - - -	_____	35.7	43.1	37.4
Tillable pasture- - - - -	_____	51.4	65.7	39.5
Crop yields--Corn, bu. per acre- - -	_____	36.1	39.3	28.4
Oats, bu. per acre- - -	_____	4.8	5.7	2.2
Value of feed fed to productive L.S.	_____	3 291	4 419	2 586
Returns per \$100 of feed fed to productive livestock- - - - -	_____	132	134	122
Returns per \$100 invested in:				
Cattle- - - - -	_____	117	115	101
Poultry - - - - -	_____	232	250	212
Pigs weaned per litter - - - - -	_____	6.0	6.1	5.9
Income per litter farrowed - - - - -	_____	104	101	99
Dairy sales per dairy cow- - - - -	_____	43	41	46
Investment in productive L.S. per A.	_____	10.86	11.87	9.43
Receipts from productive L.S. per A.	_____	19.55	21.62	14.55
Man labor cost per crop acre - - - - -	_____	6.79	6.15	6.87
Machinery cost per crop acre - - - - -	_____	3.10	2.35	3.20
Power and mach. cost per crop A. - - -	_____	4.55	4.29	4.80
Farms with tractor - - - - -	_____	58%	64%	57%
Value of feed fed to horses- - - - -	_____	212	256	190
Man labor cost per \$100 gross income- - - - -	_____	18	14	25
Expenses per \$100 gross income - - - -	_____	45	34	71
Farm improvements cost per acre- - - -	_____	1.19	.87	1.50
Excess of sales over cash expenses - - -	_____	2 246	2 397	1 548
Increase in inventory- - - - -	_____	857	1 846	20
Rate earned on investment- - - - -	_____	7.50%	11.86%	2.77%
Gross receipts per farm- - - - -	_____	4 472	5 245	3 190

Chart for Studying the Efficiency of Various Parts of Your Business.
Mercer County, 1954

The numbers above the lines across the middle of the page are the averages for the 43 farms included in this report for the factors named at the top of the page. By drawing a line across each column at the number measuring the efficiency of your farm in that factor, you can compare your efficiency with that of other farmers in your locality.

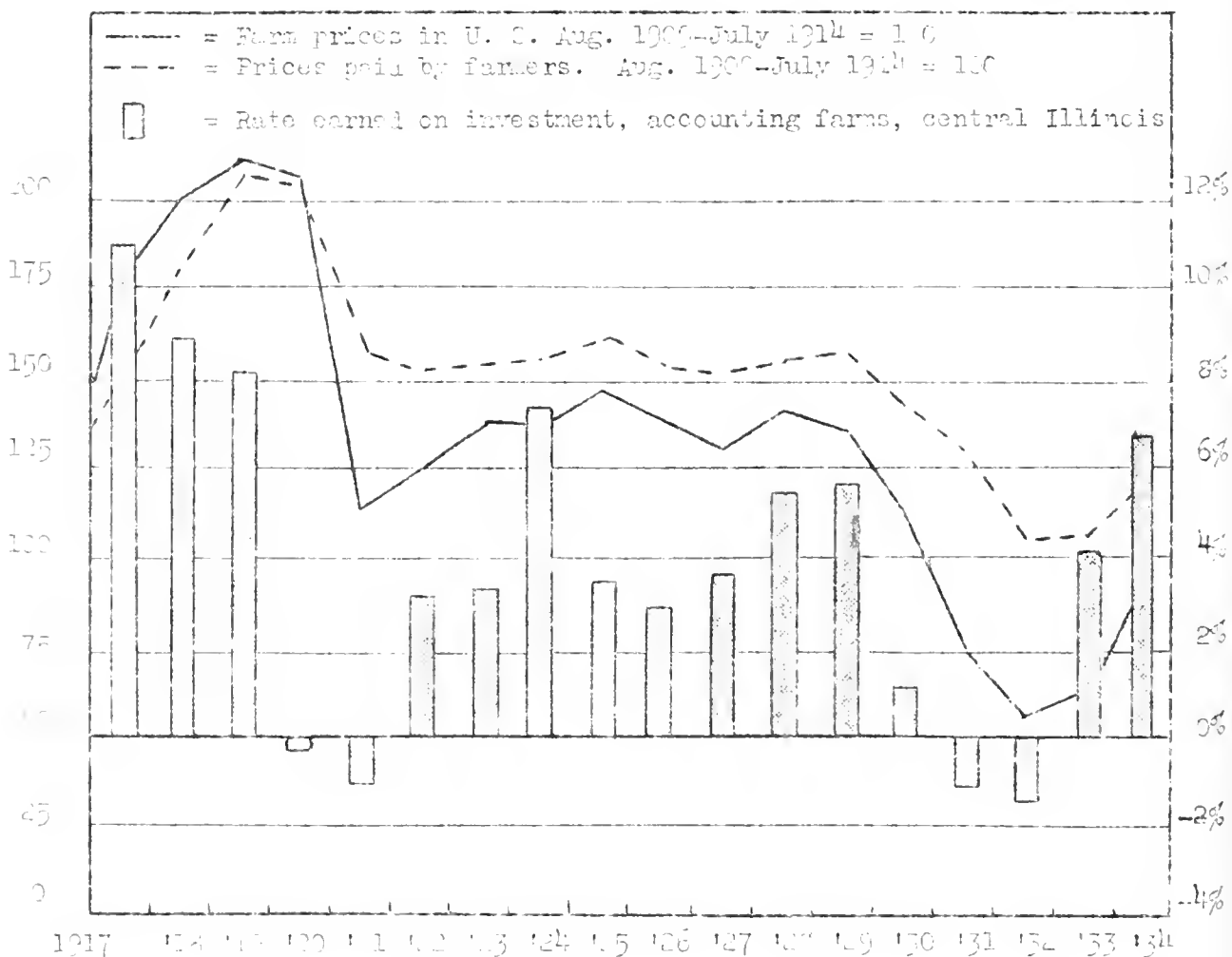
Rate earned on investment	Bushels per acre			Hogs: Income per litter	Dairy sales per dairy cow	Poultry income per \$100 invested	U.S. income per \$100 of feed fed	Cost per crop acre		Labor cost per \$100 gross receipts	Increase in inventory	Sales over cash expenses	Gross receipts		Acres in farm
	Corn	Oats	Cattle income per \$100 invested					Labor	Power and machinery				Per acre	Per farm	
16.0	61	15	292	179	78	382	307	1.79	--	--	3857	6246	45	9500	470
14.3	56	13	257	164	71	352	272	2.79	.55	--	3257	6146	40	8500	420
12.6	51	11	222	140	64	322	237	3.79	1.55	--	2657	4646	35	7500	370
10.9	46	9	187	134	57	292	202	4.79	2.55	2	2057	3246	30	6500	320
9.2	41	7	152	119	50	262	167	5.79	3.55	10	1457	3046	25	5500	270
7.5	36.1	4.8	117	104	43	232	132	6.79	4.55	18	857	2246	20.19	4472	221.5
5.8	31	3	82	89	36	202	97	7.79	5.55	26	257	1446	15	3500	170
4.1	26	1	47	74	29	172	62	8.79	6.55	34	-343	646	10	2500	120
2.4	21	--	12	59	22	142	27	9.79	7.55	42	-945	--	5	1500	70
.7	16	--	--	44	15	112	--	10.79	8.55	50	-1543	--	--	500	20
-1.0	11	--	--	29	8	82	--	11.79	9.55	55	-2443	--	--	--	--

Influence of Price Changes on Farm Earnings

Farm prices in 1934 advanced more rapidly than did the prices of commodities which farmers bought. Farmers of the United States as a group could exchange their farm products in 1934 for 74 percent as many goods as for the period 1909-1914, while in 1937 they received only 64 percent, and 1938 only 61 percent as much in exchange for what they had to sell as in the former period. In the month of February, 1935, this index of purchasing power had increased to 67 percent of prewar, the index of farm prices having risen to 111 as compared with an index of 127 for commodities which farmers buy. When the line representing farm prices drops below the line representing prices paid by farmers, farm earnings are very low, but when these lines come close together farm earnings increase. (See following graph.)

Index of Prices

Rate Earned

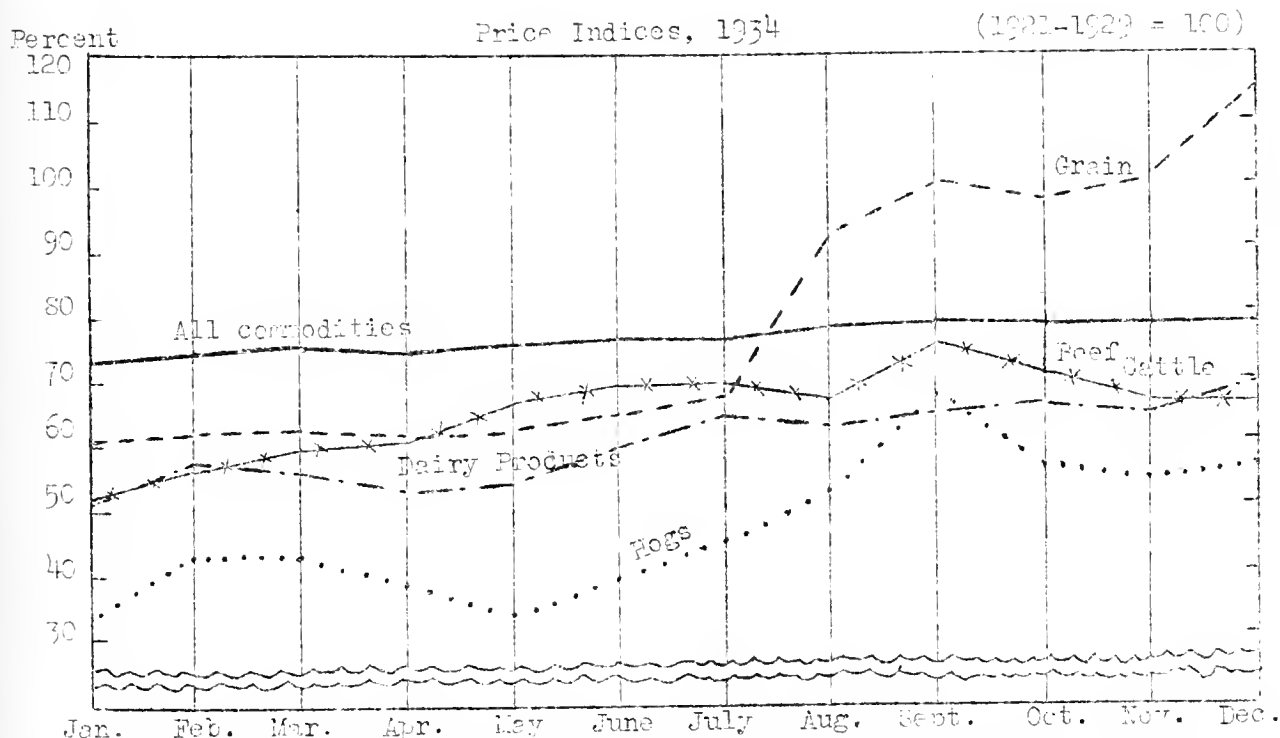


-11-

Since the price of some farm products advanced much more rapidly during 1934 than other products, it is evident that some farms would benefit more than others, depending upon the kind and quantity of products sold. Grain prices advanced much more rapidly than livestock prices; which resulted in a very bad price ratio for farmers who buy large quantities of feed. The average Illinois farm price of corn was 41 cents a bushel in January, 1934; it advanced steadily until the end of the year when it was 88 cents a bushel. Other grains made marked advance although not so great an advance as corn. The price of hogs fluctuated from a low of \$3.20 a hundred in May to a high of \$6.30 in September. The low point in the fall came in November when the average price was \$5.10. The price has advanced quite rapidly since November, the average price being \$7.50 for February, 1935. Beef cattle were worth \$4.10 a hundred in January, 1934 and advanced each month until September, when the price was \$5.90. They dropped to \$5.20 in December but increased again to \$7.40 for February, 1935.

The year 1934 set a record for the reduction in the numbers of livestock. The percentage decreases by species were as follows: horses, 1.1 percent; mules, 2.6 percent; all cattle, 11.2 percent; sheep, 4.7 percent; hogs, 35.3 percent. When all species are combined on the basis of their capacity to consume feed, the reduction was 13 percent. This reduction will greatly reduce the demand for feeds produced in 1935.

The relative change in prices of important commodities may be noted in the following graph, which shows the average Illinois farm prices by months as a percentage of the average prices for the period 1921-1929.



All commodities index represents the wholesale price of a large number of commodities for the United States, as computed by Bureau of Labor Statistics. Grain and livestock indices represent average monthly farm prices in Illinois.

Variation in Earnings Over Five-Year Period

A comparison of production, income, and expenditures on the accounting farms in Mercer County for the last five years is very interesting because of the violent fluctuations in price level. Although the 1934 crop was nearly a failure and followed the smaller than average crop of 1933, the increased prices of both grain and livestock caused the 1934 earnings to be the highest for the five-year period 1930-1934.

Earnings in 1935 as usual will depend upon individual efficiency, weather, and prices. With normal weather conditions, prices of grain are likely to go down to a more normal level which will give individual efficiency the responsibility for higher earnings on each farm.

Comparison of Earnings and Investments on Accounting Farms in Mercer County for 1930-1934

Items	1930	1931	1932	1933	1934
Number of farms - - - - -	40	46	44	36	43
Average size of farms, acres- - -	260	240	240	244	222
Average rate earned, to pay for management, risk and capital - -	2.1%	-2.8%	-1.2%	5.5%	7.5%
Average labor and management wage	\$-774	\$-2 969	\$-142	\$706	\$1 348
Gross income per acre - - - - -	20.63	11.74	10.74	16.90	20.19
Operating cost per acre - - - - -	16.34	17.09	12.54	8.75	9.03
Average value of land per acre- -	138	129	111	102	103
Total investment per acre - - - -	202	190	162	147	149
Investment per farm in:					
Total livestock- - - - -	5 416	4 296	3 228	2 967	2 588
Cattle - - - - -	2 640	1 665	1 618	1 565	1 395
Hogs - - - - -	1 860	1 872	988	746	615
Poultry- - - - -	149	130	98	80	67
Gross income per farm - - - - -	5 374	2 615	2 534	4 125	4 472
Income per farm from:					
Crops- - - - -	---	---	---	746	---
Miscellaneous income - - - -	35	44	35	35	25
Total livestock- - - - -	5 339	2 771	2 501	3 344	4 371
Cattle - - - - -	1 156	400	868	1 047	1 396
Dairy sales- - - - -	333	197	211	231	300
Hogs - - - - -	3 578	1 872	1 229	1 831	2 373
Poultry- - - - -	238	174	149	114	195
Average yield of corn in bu.- - -	49	51	60	53	36
Average yield of oats in bu.- - -	41	39	45	36	5

ANNUAL FARM BUSINESS REPORT ON FORTY FARMS
IN HENDERSON COUNTY, ILLINOIS, 1934

P. E. Johnston, J. B. Andrews, and J. Ackerman*

The farm earnings of 40 account-keeping farmers in Henderson County showed an increase in 1934 over those of 1933. This is the second consecutive year of improvement in the business of these farms. The three years previous to 1933 showed very low returns.

These 40 accounts show for 1934 an average net income of \$1,639 per farm, as compared with an average of \$1,553 in 1933 and an average net loss of \$586 in 1932. The average cash income in 1934 was \$3,171 per farm, the cash business expenditures \$1,488 per farm, leaving a cash balance of \$1,683 to meet interest payments and family living expenses. (Those who keep home account books use the latter figure to represent the cash contribution of the farm to the "realized family income".) Besides the cash income, there was an inventory increase of \$629 per farm due to the rise in the prices of farm products. This increase, added to the cash balance, resulted in an average excess of receipts over expenses of \$2,312 per farm. The inventory increase was a smaller part of the total farm income in 1934 than in 1933

These data must not be considered representative of average farm conditions for they were secured from farms which are larger than average, and which were managed by farmers who are more efficient than the average of all farmers in the county.

For the state as a whole, farm earnings were better in 1934 than in 1933 in spite of the fact that corn and oat yields were very low due to the drouth and to chinch bug damage. In the western and southwestern parts of the state the drouth caused an almost total failure of both corn and oats. This accounts for farm earnings being lower there than in other parts of the state.

The corn crop was best in the southeastern part of the state, and was fair in the northwestern section. Wheat yields were particularly good in the south and central portions of the state. Soybean yields were very good throughout the state, and there was a larger than normal acreage in Illinois in 1934. This state produced over half of the nation's 1934 crop of soybeans.

Chinch bug damage extended over most of the state last year, but was much more severe in some sections than in others, and was much worse on some farms than other farms in the same community. Conditions affecting crop yields were very spotted. This accounts in part for the wide variation in farm earnings from one section of the state to another, and the wider variations than usual from one farm to another.

* G. B. Whitman, farm adviser in Henderson County, cooperated in supervising and collecting the records on which this report is based.

Industries other than agriculture again showed improved earnings over the previous year. A group of 840 industrial corporations reported by a nationally known bank showed average earnings of 5.0 percent on their invested capital in 1934, as compared with 3.4 percent for the same corporations in 1933. A similar group had a loss of one-tenth of one percent in 1932 and average earnings of 3.3 percent in 1931.

In comparing the average earnings of corporations with the rate earned on investment on accounting farms it is well to keep in mind that in corporation accounting, charges are made for management, while in the farm accounts no comparable deduction has been made. On the other hand, the farmer and his family receive food, fuel, and other items of living from the farm for which the farm has received no credit in the records used in this report. For the average central Illinois farm family, consisting of five persons, the value of the food and fuel furnished by the farm was about \$250 in 1934, when estimated on the basis of the wholesale price for farm products.

Variations in Farm Incomes

There was a much wider range in farm earnings on the accounting farms in 1934 than in 1933. This was true for the farms included in this report, and it was also true when the average earnings of farms in one section of the state are compared with the earnings of farms in other areas.

The extremely wide range in earnings was due to a combination of physical and economic factors. The average yields of wheat and soybeans were much better, compared with the five-year average, than the average yields of corn and oats. This variation favored those sections which had larger acreages of the higher yielding crops in 1934. There was also a wide range in average corn yields from one section of the state to another, as well as between individual farms in the same area. The price of grains was high in 1934 as compared with prices of livestock and livestock products. Farms where grain sales constitute a large part of the farm income thus had an advantage. The rapid increase in the prices of farm products, particularly grains, favored those farms which had large stocks of salable products on hand at the beginning of the year. Many farmers who inventoried the corn on hand at the beginning of 1934 at 40 cents a bushel, later sold this corn for 80 cents.

In this group of 40 accounting farms the most successful third shows an average net income of \$2,499, while the average net income of the least successful third of the farms was only \$724. In 1933 the comparable net incomes for the two groups was \$2,549, and \$726 respectively.

-3-
Investments, Receipts, Expenses and Earnings on 40
Henderson County Farms in 1934

Items	Your farm	Average of 40 farms	13 most profitable farms	13 least profitable farms
<u>CAPITAL INVESTMENTS</u>				
Land - - - - -		14 599	13 253	14 661
Farm improvements- - - - -		3 022	2 237	3 556
Livestock total- - - - -		<u>1 506</u>	<u>1 276</u>	<u>1 639</u>
Horses - - - - -		322	322	358
Cattle - - - - -		654	538	541
Hogs - - - - -		384	348	447
Sheep- - - - -		92	18	235
Poultry- - - - -		54	50	58
Machinery and equipment- - - -		931	919	969
Feed and grains- - - - -		1 219	1 351	1 144
Total capital investment	\$ _____	\$21 277	\$19 036	\$21 969
<u>RECEIPTS AND NET INCREASES</u>				
Livestock total- - - - -		<u>2 048</u>	<u>2 175</u>	<u>1 975</u>
Horses - - - - -		42	33	54
Cattle - - - - -		442	462	426
Hogs (including AAA payments)		1 213	1 348	1 096
Sheep- - - - -		61	30	120
Poultry- - - - -		63	70	64
Egg sales- - - - -		48	46	46
Dairy sales- - - - -		179	186	169
Feed and grains (including AAA payments) - - - - -		1 048	1 920	108
Labor off farm - - - - -		71	71	49
Miscellaneous receipts - - - - -		1	3	1
Total receipts & net increases	\$ _____	\$ 3 168	\$ 4 169	\$ 2 133
<u>EXPENSES AND NET DECREASES</u>				
Farm improvements- - - - -		139	145	126
Horses - - - - -		---	---	---
Miscellaneous livestock decreases		---	---	---
Machinery and equipment- - - -		234	267	206
Feed and grains- - - - -		---	---	---
Livestock expense- - - - -		31	26	45
Crop expense - - - - -		109	153	71
Hired labor- - - - -		100	124	83
Taxes- - - - -		218	267	182
Miscellaneous expenses - - - -		25	24	25
Total expenses & net decreases	\$ _____	\$ 856	\$ 1 006	\$ 738
<u>RECEIPTS LESS EXPENSES- - - - -</u>				
	\$ _____	\$ 2 312	\$ 3 163	\$ 1 395
Total unpaid labor- - - - -		673	664	671
Operator's labor - - - - -		540	540	540
Family labor - - - - -		133	124	131
Net income from investment and management - - - - -		1 639	2 499	724
RATE EARNED ON INVESTMENT - - - -	%	<u>7.70%</u>	<u>13.13%</u>	<u>3.30%</u>
Return to capital and operator's labor and management - - - - -		2 179	3 039	1 264
% of capital invested- - - - -		1 064	952	1 098
LABOR AND MANAGEMENT WAGE - - - - -	\$ _____	\$ 1 115	\$ 2 087	\$ 166

The following table shows the number of farms having certain net incomes per acre. There was a marked difference between the most successful and the least successful farms.

<u>Average net in-</u> <u>come per acre</u>	<u>Number of</u> <u>farms</u>	<u>Average net in-</u> <u>come per acre</u>	<u>Number of</u> <u>farms</u>
\$19	1	\$7	5
17	2	5	8
15	0	3	1
13	3	1	2
11	2	-1	3
9	13		

A further study of the farm businesses, made by comparing the investments, receipts, and expenses of the group of farms with the highest net incomes with those having the lowest, should throw some light on the question of why some farmers are more successful than others. This comparison is shown in the table on page 3.

The most successful farms averaged 230 acres each, the least successful 171 acres each. The most profitable farms, while having a larger investment in feed and grains, had a smaller total investment than either the least successful group or the average of all accounting farms. Despite their smaller total investment, the most profitable farms had a larger income than the least successful farms, due chiefly to their larger returns from feed and grains and hogs. Although the total expenses per farm were higher on the most profitable farms, the total expense per acre, including the charge for family labor, was less than it was on the least profitable farms.

Changes in Inventories and Inventory Values

The year 1934 was similar to 1933 in that the prices of farm products continued to advance, causing further increases in inventory values. Owing to the poor crop yields in 1934, there were fewer bushels of grain on hand to inventory at the end of the year than at the beginning. The value of the smaller amount of grain, however, was greater than for the larger amount on hand at the beginning of the year.

Bushels of Corn Inventoried

	Jan. 1, 1934	Dec. 31, 1934
Average of all farms.	2 158	1 320
Average of 13 most successful farms.	2 592	2 155
Average of 13 least successful farms	2 022	631
Your farm		

The most profitable farms had a much larger inventory of corn both at the beginning and end of the year. This difference accounts for a considerable part of their higher receipts and net increases from feed and grains.

The average inventory increase for the accounting farms in Henderson County was \$629 in 1934, as compared with \$1,003 in 1933, and an inventory loss of \$811 a farm in 1932. There were increases of \$150 in total livestock, \$499 in feed and grain, and \$62 in machinery, while improvements showed a decrease of \$82. Such an increase in inventory as that for machinery results from the value of new replacements during the year being in excess of depreciation costs. This increase is of considerable interest for it is the first time that such an increase in machinery inventories has occurred since farm earnings began to decline so drastically with the general depression.

Inventory Changes for 1934

Items	Beginning inventory 1-1-34	Closing inventory 12-31-34	Inventory changes 1934	Inventory changes, your farm
Total livestock.	\$1 506	\$1 656	\$150	\$
Feed and grains.	1 219	1 718	499	
Machinery.	931	993	62	
Improvements (except residence).	3 022	2 940	-82	
Total.	\$6 678	\$7 307	\$629	\$

Some Adjustments on Henderson County Farms Since 1929

Farmers have been forced to make adjustments in their cash expenditures as the result of changes in their cash incomes. From 1929 through 1933 farm operating costs declined each year, but the year 1934 brought a reversal of this trend. Total operating expenses were 36 cents an acre higher in 1934 than in 1933, while cash operating expenses were \$1,488 a farm in 1934, as compared with \$1,538 in 1933. There were significant increases in expenditures over the previous year for machinery, feed and grain, and crop expenses, and significant decreases in expenditures for livestock, taxes, and labor. Indications point to an expansion of spending for repairs and replacements for machinery and improvements in 1935, since farmers have postponed purchase of these items during the four-year period since 1929.

Cash Income and Expenses on Accounting
Farms in Henderson County for 1929 and 1934

Items	Your farm 1934	Average cash expense per farm		Your farm 1934	Average cash income per farm	
		1934	1929		1934	1929
Livestock	\$	\$ 329	\$1 258	\$	\$2 227	\$5 488
Feed and grains		287	808		836	1 395
Machinery		332	739		36	135
Improvements.		57	182		---	5
Labor		100	472		71	59
Miscellaneous		25	33		1	2
Livestock expense		31	44		---	---
Crop expense.		109	222		---	---
Taxes		218	363		---	---
Total	\$	\$1 488	\$4 121	\$	\$3 171	\$7 034
Excess of cash sales over expenses.	\$			\$	\$1 683	\$2 963
Increase in inventory					629	480
Income to labor and capital (Receipts less expenses).					2 312	3 443

The cumulative effect of several years of low agricultural prices on the demand for manufactured goods can readily be ascertained by a comparison of cash farm expenditures in 1934 with those in 1929. Although the average cash income in 1934 was 45 percent of that in 1929, cash expenditures were only 36 percent as large. In 1934 livestock purchases were 26 percent, and feed and grain purchases 36 percent as large as in 1929. In 1934 these farms paid out 45 percent as much for machinery, 31 percent as much for improvements, and 49 percent as much for crop expense as in 1929, while taxes were reduced to 60 percent of the 1929 level.

Comparison of Farms With High and Low Earnings

The most profitable farms in this study had net receipts per acre of \$10.89, as compared with \$4.23 for the least profitable group. The reasons for this difference may be obtained from a study of the data on pages 3 and 8.

The most profitable farms were 58.2 acres larger, and had 23.4 acres more corn, 7.5 acres more oats, and 6.2 acres more tillable pasture than the least profitable farms. The most profitable farms carried larger inventories of feed and grain on which to make a profit when prices advanced. In addition to the larger acreage of crops, another reason for the larger inventories of feed and grain was the higher crop yields, there being an advantage of 8.5 bushels of corn, 2.0 bushels of oats, and 3.6 bushels of soybeans per acre in favor of the high-profit group. Because of small acreages and low yields, the least profitable farms had an inventory loss of \$174 in the feed and grain account, in spite of the price advance.

The most profitable farms had a smaller total livestock investment, but they were more efficient in their livestock operations than the least profitable farms. They had an investment of \$4.74 an acre in productive livestock, as compared with an investment of \$7.59 an acre on the least profitable farms. The most profitable farms fed \$1,516 worth of feed to productive livestock, securing a return of \$141 for each \$100 worth of feed fed, while the least profitable farms fed \$1,713 worth of feed, and secured a return of \$112 for each \$100 worth of feed fed.

The larger income on the most profitable farms was secured with a total operating cost of \$7.28 per acre, as compared with \$8.23 per acre for the least profitable farms. The man labor costs were \$5.15 per crop acre on the most profitable farms, as compared with \$6.59 on the least profitable farms, while power and machinery costs per crop acre amounted to \$2.96 on the most profitable farms, and \$3.28 on the least profitable farms.

Influences of AAA Programs on Cropping Systems and Farm Incomes

The farm-account records in Illinois were influenced both directly and indirectly by the corn-hog and wheat adjustment programs. A large percentage of accounting farms was under one or both contracts in 1934. The acreages of corn and wheat on these farms were therefore less than normal. This should have resulted in lower operating costs. Corn-hog benefit payments for the entire 1934 program will total about 40 million dollars for the state, while wheat benefit payments will be about 2.4 million dollars.

The benefit payments for accounting farms are indicated in the following table, which shows the average payment for those farms receiving payments, and includes only those payments received by the cooperator before the 1934 books were closed. In some cases only the first corn-hog check is included, while in other cases the second check had been received. The second payments not received, and the third payments will be entered in the 1935 book.

AAA Benefit Payments Received in 1934

	Corn		Wheat		Hogs		Average of all payments ^{1/}
	Number of farms	Amount per farm	Number of farms	Amount per farm	Number of farms	Amount per farm	
1/3 most profitable farms	13	\$143	1	\$254	13	\$181	\$344
1/3 least profitable farms	13	101	-	---	13	143	244
All accounting farms	40	116	2	176	40	164	289

^{1/} Total benefit payments reported by accounting farms under contract for 1934 divided by total number of accounting farms.

On most farms the cash received from benefit payments will more than pay for the year's taxes. As an average for all accounting farms, the payments actually received were \$71 more than sufficient to pay the 1934 taxes.

It is interesting to note the use made of the contracted acres on the accounting farms. The average farm had 18.7 contracted acres which were used as follows: 3.9 idle; 7.2 mixed clover and timothy; 1.3 sweet clover; 3.3 soybeans; 0.9 alfalfa; and 2.1 acres were in other crops. These data indicate that most farmers made good use of their contracted acres from the standpoint of soil improvement, as a large part of them were in legumes. When the Government restrictions on the use of crops grown on contracted acres were removed, they were, on many farms, the most profitable crops as they furnished hay and pasture where badly needed in drouth areas. The legumes had the further advantage of being immune to attack from chinch bugs.

Farm earnings were influenced indirectly by the AAA programs in that the reduction in production increased the price of the commodities involved. The drouth was a more important factor in reducing production than the adjustment programs, yet if it had not been for the corn-sealing program there would have been but little corn in the hands of farmers at the time the major price advance became effective.

Factors Helping to Analyze the Farm Business on 40
Henderson County Farms in 1934

Items	Your farm	Average of 40 farms	13 most profitable farms	13 least profitable farms
Size of farms--acres - - - - -	_____	205.3	229.5	171.3
Percent of land area tillable- - - - -	_____	78.2	79.0	79.0
Percent of tillable land in hay and pasture - - - - -	_____	35.1	32.3	37.9
Gross receipts per acre- - - - -	_____	15.43	18.17	12.46
Total expenses per acre- - - - -	_____	7.45	7.22	8.23
Net receipts per acre- - - - -	_____	7.98	10.89	4.23
Value of land per acre - - - - -	_____	71	58	86
Total investment per acre- - - - -	_____	104	83	128
Acres in Corn- - - - -	_____	55.3	68.3	44.9
Oats- - - - -	_____	29.4	33.9	26.4
Wheat - - - - -	_____	3.6	5.5	.9
Soybeans- - - - -	_____	6.1	3.9	4.7
Hay - - - - -	_____	22.6	24.0	23.0
Tillable pasture- - - - -	_____	33.7	34.5	28.3
Crop yields--Corn, bu. per acre- - -	_____	27.8	30.6	22.1
Oats, bu. per acre- - -	_____	5.7	6.9	4.9
Soybeans, bu. per acre- - -	_____	17.1	18.9	15.3
Value of feed fed to productive L.S.	_____	1 576	1 516	1 713
Returns per \$100 of feed fed to productive livestock- - - - -	_____	127	141	112
Returns per \$100 invested in:				
Cattle- - - - -	_____	94	111	104
Poultry - - - - -	_____	191	207	180
Pigs weaned per litter - - - - -	_____	5.7	5.5	6.0
Income per litter farrowed - - - - -	_____	93	96	95
Dairy sales per dairy cow- - - - -	_____	37	43	42
Investment in productive L.S. per A.	_____	6.08	4.74	7.59
Receipts from productive L.S. per A.	_____	9.77	9.33	11.21
Man labor cost per crop acre - - - - -	_____	5.92	5.15	6.59
Machinery cost per crop acre - - - - -	_____	1.85	1.32	1.93
Power and mach. cost per crop A. - - -	_____	3.04	2.96	3.28
Farms with tractor - - - - -	_____	52%	69%	31%
Value of feed fed to horses- - - - -	_____	193	200	199
Man labor cost per \$100 gross income- - - - -	_____	24	18	33
Expenses per \$100 gross income - - - - -	_____	48	40	66
Farm improvements cost per acre- - - - -	_____	.68	.63	.74
Excess of sales over cash expenses - - -	_____	1 683	1 819	1 537
Increase in inventory- - - - -	_____	629	1 344	-142
Rate earned on investment- - - - -	_____	7.70%	13.13%	3.30%
Gross receipts per farm- - - - -	_____	3 168	4 169	2 133

Chart for Studying the Efficiency of Various Parts of Your Business,
Henderson County, 1934

The numbers above the lines across the middle of the page are the averages for the 40 farms included in this report for the factors named at the top of the page. By drawing a line across each column at the number measuring the efficiency of your farm in that factor, you can compare your efficiency with that of other farmers in your locality.

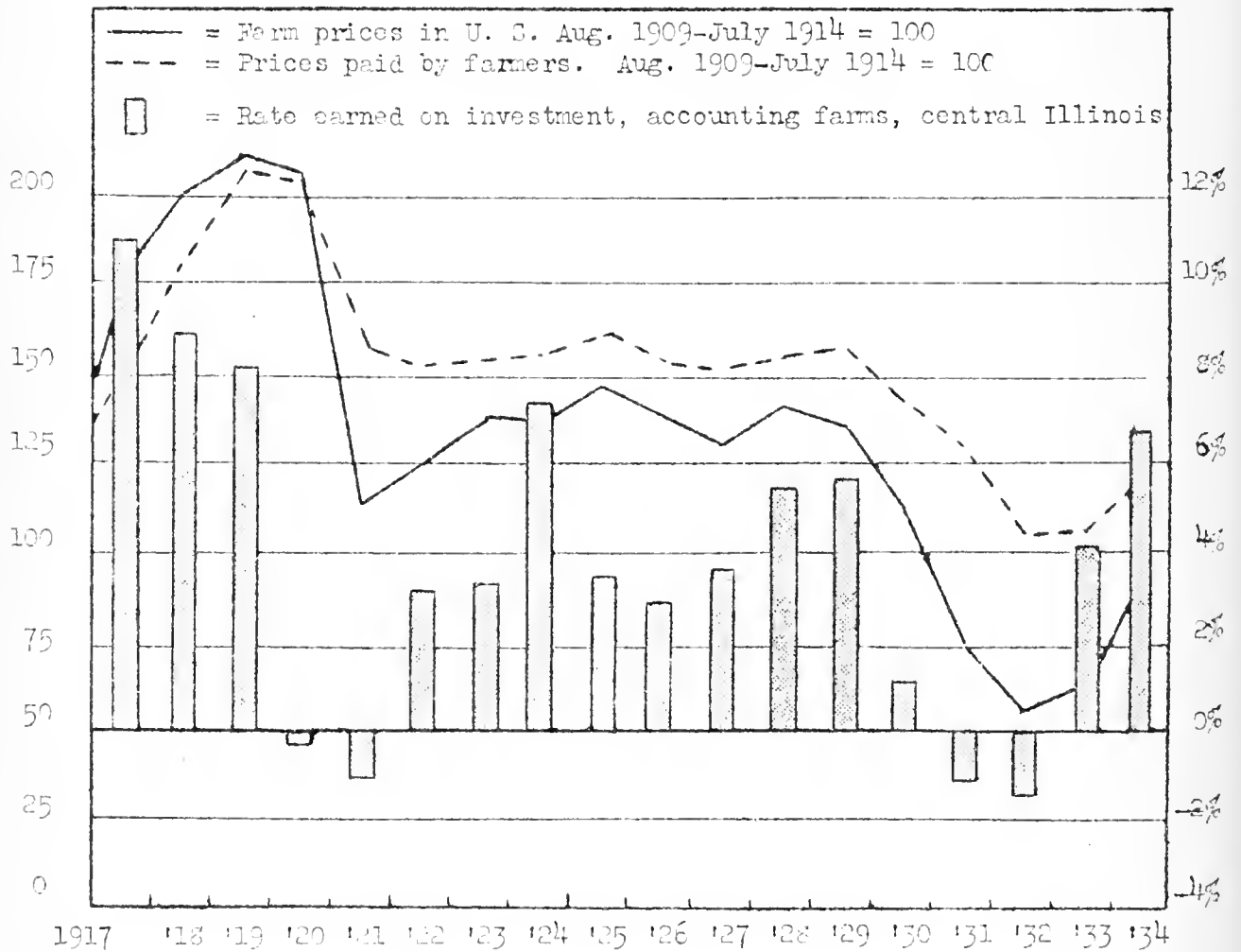
Rate earned on investment	Bushels per acre			Hogs: Income per litter	Dairy sales per dairy cow	Poultry income per \$100 invested	L.S. income per \$100 of feed fed	Cost per crop acre		Labor cost per \$100 gross receipts	Increase in inventory	Sales over cash expenses	Gross receipts		Acres in farm
	Corn	Oats	Soybeans					Labor	Power and machinery				Per acre	Per farm	
16.2	43	16	27	143	62	366	192	1.00	--	--	2600	4200	28.00	6200	400
14.5	40	14	25	133	57	331	179	2.00	0	0	2200	3700	25.50	5600	360
12.8	37	12	23	123	52	295	166	3.00	.75	6	1300	3200	23.00	5000	320
11.1	34	10	21	113	47	261	153	4.00	1.50	12	1400	2700	20.50	4400	280
9.4	31	8	19	103	42	226	140	5.00	2.25	18	1000	2200	18.00	3800	240
7.7	27.8	5.7	17.1	93	37	191	127	5.92	3.04	24	629	1683	15.43	3168	205.3
6.0	25	4	15	83	32	155	114	7.00	3.75	30	200	1200	13.00	2600	160
4.3	22	2	13	73	27	121	101	8.00	4.50	36	-200	700	10.50	2000	120
2.6	19	0	11	63	22	85	88	9.00	5.25	42	-500	200	8.00	1400	80
.9	16	--	9	53	17	51	75	10.00	6.00	48	-1300	-300	5.50	800	40
-.8	13	--	7	43	12	16	62	11.00	6.75	54	-1400	-300	3.00	200	--

Influence of Price Changes on Farm Earnings

Farm prices in 1934 advanced more rapidly than did the prices of commodities which farmers bought. Farmers of the United States as a group could exchange their farm products in 1934 for 74 percent as many goods as for the period 1909-1914, while in 1933 they received only 64 percent, and 1932 only 61 percent as much in exchange for what they had to sell as in the prewar period. In the month of February, 1935, this index of purchasing power had increased to 87 percent of prewar, the index of farm prices having risen to 111 as compared with an index of 127 for commodities which farmers buy. When the line representing farm prices drops below the line representing prices paid by farmers, farm earnings are very low, but when these lines come close together farm earnings increase. (See following graph.)

Index of Prices

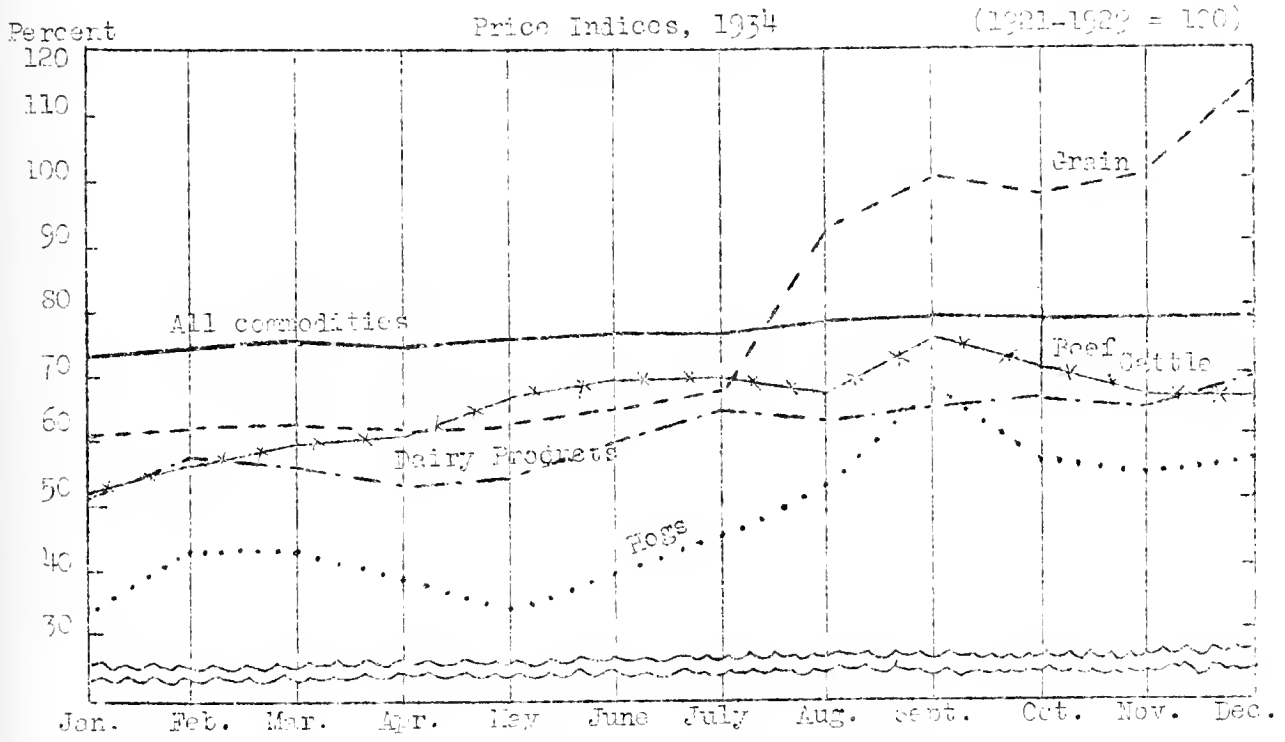
Rate Earned



Since the price of some farm products advanced much more rapidly during 1934 than other products, it is evident that some farms would benefit more than others, depending upon the kind and quantity of products sold. Grain prices advanced much more rapidly than livestock prices; which resulted in a very bad price ratio for farmers who buy large quantities of feed. The average Illinois farm price of corn was 41 cents a bushel in January, 1934; it advanced steadily until the end of the year when it was 88 cents a bushel. Other grains made marked advance although not so great an advance as corn. The price of hogs fluctuated from a low of \$5.20 a hundred in May to a high of \$6.30 in September. The low point in the fall came in November when the average price was \$5.10. The price has advanced quite rapidly since November, the average price being \$7.50 for February, 1935. Beef cattle were worth \$4.10 a hundred in January, 1934 and advanced each month until September, when the price was \$5.90. They dropped to \$5.20 in December but increased again to \$7.40 for February, 1935.

The year 1934 set a record for the reduction in the numbers of livestock. The percentage decreases by species were as follows: horses, 1.1 percent; mules, 2.6 percent; all cattle, 11.2 percent; sheep, 4.7 percent; hogs, 35.3 percent. When all species are combined on the basis of their capacity to consume feed, the reduction was 13 percent. This reduction will greatly reduce the demand for feeds produced in 1935.

The relative change in prices of important commodities may be noted in the following graph, which shows the average Illinois farm prices by months as a percentage of the average prices for the period 1921-1929.



All commodities index represents the wholesale price of a large number of commodities for the United States, as computed by Bureau of Labor Statistics. Grain and livestock indices represent average monthly farm prices in Illinois.

Variation in Earnings Over Five-Year Period

A comparison of production, income, and expenditures on the accounting farms in Henderson County for the last five years is interesting because of the violent changes in price level. 1934 was the second year of very low crop yields, yet total receipts per farm were higher than in any other year in the last three, and were 60 percent of the 1929 gross receipts. Operating costs per acre were lower than in any year of the five except 1933. Thus profits were the best the county had experienced since 1929.

Earnings in 1935, as usual, will depend upon individual efficiency, weather, and prices. A normal year will mean larger yields of grain and probably lower prices.

Comparison of Earnings and Investments on Accounting Farms in Henderson County for 1929-1934

Items	1930	1931	1932	1933	1934
Number of farms - - - - -	62	50	41	32	40
Average size of farms, acres- - -	224	202	205	214.9	205
Average rate earned, to pay for management, risk and capital - -	2.1%	-2.7%	-2.3%	6.4%	7.70%
Average labor and management wage	\$-271	\$-1 555	\$-1 314	\$872	\$1 115
Gross income per acre - - - - -	13.47	7.02	5.56	14.31	15.43
Operating cost per acre - - - - -	10.21	10.78	8.42	7.09	7.45
Average value of land per acre- -	109	95	86	83	71
Total investment per acre - - - -	153	137	123	114	104
Investment per farm in:					
Total livestock- - - - -	2 898	2 458	1 919	1 709	1 506
Cattle - - - - -	1 123	806	844	830	654
Hogs - - - - -	1 012	1 016	521	414	384
Poultry- - - - -	126	98	82	62	54
Gross income per farm - - - - -	3 021	1 421	1 140	3 076	3 168
Income per farm from:					
Crops- - - - -	387	---	---	1 352	1 048
Miscellaneous income - - - - -	58	31	34	40	1
Total livestock- - - - -	2 566	1 390	1 106	1 684	2 048
Cattle - - - - -	270	181	200	328	442
Dairy sales- - - - -	209	150	119	155	179
Hogs - - - - -	1 940	924	693	1 045	1 213
Poultry- - - - -	123	114	67	83	63-111
Average yield of corn in bu.- - -	37	46	56	45	28
Average yield of oats in bu.- - -	35	44	40	31	6

ANNUAL FARM BUSINESS REPORT ON THIRTY-SIX FARMS
IN McDONOUGH COUNTY, ILLINOIS, 1934

P. E. Johnston, J. Ackerman, and T. R. Hedges*

Farm earnings on the 36 accounting farms in McDonough County averaged 5.7 percent for 1934. This is the second highest return during the past five years, while 1933 was highest, with an average return of 6.9 percent. The 1934 return is remarkable, considering the severe drouth and chinch bug damage.

These 36 accounts show for 1934 an average net income of \$1,879 per farm, as compared with an average of \$2,084 in 1933, and an average net loss of \$347 in 1932. The average cash income in 1934 was \$5,343 per farm, the cash business expenditures \$3,036 per farm, leaving a cash balance of \$2,307 to meet interest payments and family living expenses. (Those who keep home account books use the latter figure to represent the cash contribution of the farm to the "realized family income".) Besides the cash income, there was an inventory increase of \$221 a farm due mostly to the rise in prices of farm products. This increase, added to the cash balance, resulted in an average excess of receipts over expenses of \$2,428 a farm.

These data must not be considered representative of average farm conditions, for they were secured from farms which are larger than average, and which were managed by farmers who are more efficient than the average of all farmers in the county.

For the state as a whole, farm earnings were better in 1934 than in 1933, in spite of the fact that corn and oat yields were very low due to the drouth and to chinch bug damage. In the western and southwestern parts of the state the drouth caused an almost total failure of both corn and oats, which accounts for farm earnings being lower there than in other parts of the state.

The corn crop was best in the southeastern part of the state, and was fair in the northwestern section. Wheat yields were particularly good in the south and central portions of the state. Soybean yields were very good throughout the state, and there was a larger than normal acreage in Illinois in 1934. This state produced over half of the nation's 1934 crop of soybeans.

Chinch bug damage extended over most of the state last year, but was much more severe in some sections than in others, and was much worse on some farms than on other farms in the same community. Conditions affecting crop yields were very spotted, this accounts in part for the wide variation in farm earnings from one section of the state to another, and the wider variations than usual from one farm to another.

*R. C. Doneghue, farm adviser in McDonough County, cooperated in supervising and collecting the records on which this report is based.

Industries other than agriculture again showed improved earnings over the previous year. A group of 840 industrial corporations reported by a nationally known bank showed average earnings of 5.0 percent on their invested capital in 1934, as compared with 3.4 percent for the same corporations in 1933. A similar group had a loss of one-tenth of one percent in 1932, and average earnings of 3.3 percent in 1931.

In comparing the average earnings of corporations with the rate earned on investments on accounting farms, it is well to keep in mind that in corporation accounting, charges are made for management, while in the farm accounts no comparable deduction has been made. On the other hand the farmer and his family receive food, fuel, and other items of living from the farm for which the farm has received no credit in the records used in this report. For the average central Illinois farm family, consisting of five persons, the value of the food and fuel furnished by the farm was about \$250 in 1934, when estimated on the basis of the wholesale price for farm products.

Variations in Farm Incomes

There was a much wider range in farm earnings on the accounting farms in 1934 than in 1933. This was true for the farms included in this report, and it was also true when the average earnings of farms in one section of the state were compared with the earnings of farms in other areas.

The extremely wide range in earnings was due to a combination of physical and economic factors. The average yields of wheat and soybeans was much better compared with the five-year average, than the average yields of corn and oats. This variation favored those sections which had larger acreages of the higher yielding crops in 1934. There was also a wide range in average corn yields from one section of the state to another, as well as between individual farms in the same area. The price of grains was high in 1934, as compared with prices of livestock and livestock products. Farms where grain sales constitute a large part of the farm income thus had an advantage. The rapid increase in the prices of farm products, particularly grains, favored those farms which had large stocks of salable products on hand at the beginning of the year. Many farmers who inventoried the corn on hand at the beginning of 1934 at 40 cents a bushel, later sold this corn for 30 cents.

In this group of 36 accounting farms the most successful third shows an average net income of \$3,515, while the average net income on the least successful third of the farms was \$353. In 1933 the comparable net income for the two groups was \$3,953, and \$495 respectively.

Investments, Receipts, Expenses and Earnings on
36 McDonough County Farms in 1934

Items	Your farm	Average of 36 farms	12 most profitable farms	12 least profitable farms
<u>CAPITAL INVESTMENTS</u>				
Land - - - - -		23 501	23 028	23 701
Farm improvements- - - - -		3 758	4 014	3 315
Livestock total- - - - -		2 027	2 553	1 464
Horses - - - - -		348	336	323
Cattle - - - - -		1 025	1 446	576
Hogs - - - - -		542	600	456
Sheep- - - - -		34	25	51
Poultry- - - - -		78	96	58
Machinery and equipment- - - -		1 503	1 656	1 095
Feed and grains- - - - -		1 969	2 627	1 382
Total capital investment -	\$	\$32 758	\$33 878	\$30 957
<u>RECEIPTS AND NET INCREASES</u>				
Livestock total- - - - -		3 500	4 765	2 032
Horses - - - - -		44	63	--
Cattle - - - - -		999	1 745	364
Hogs (including AAA payments)		2 002	2 502	1 268
Sheep- - - - -		42	35	31
Poultry- - - - -		80	76	66
Egg sales- - - - -		108	176	46
Dairy sales- - - - -		225	168	257
Feed and grains (including AAA payments) - - - - -		265	712	65
Labor off farm - - - - -		54	30	38
Miscellaneous receipts - - - -		2	1	3
Total receipts & net increases	\$	\$ 3 821	\$ 5 508	\$ 2 138
<u>EXPENSES AND NET DECREASES</u>				
Farm improvements- - - - -		232	196	219
Horses - - - - -		---	---	1
Miscellaneous livestock decreases		---	---	---
Machinery and equipment- - - -		367	382	303
Feed and grains- - - - -		---	---	---
Livestock expense- - - - -		72	85	46
Crop expense - - - - -		165	198	137
Hired labor- - - - -		221	264	130
Taxes- - - - -		207	222	178
Miscellaneous expenses - - - -		29	24	28
Total expenses & net decreases	\$	\$ 1 293	\$ 1 371	\$ 1 042
<u>RECEIPTS LESS EXPENSES-</u>				
Total unpaid labor- - - - -	\$	\$ 2 528	\$ 4 137	\$ 1 096
Operator's labor - - - - -		649	622	743
Family labor - - - - -		517	506	540
Family labor - - - - -		132	116	203
Net income from investment and management- - - - -		1 879	3 515	353
RATE EARNED ON INVESTMENT - - - -	%	5.73%	10.38%	1.14%
Return to capital and operator's labor and management- - - - -		2 396	4 021	893
% of capital invested- - - - -		1 638	1 694	1 548
LABOR AND MANAGEMENT WAGE-- - - -	\$	\$ 758	\$ 2 327	\$ -655

The following table shows the number of farms having certain net incomes per acre. There was a marked difference between the most successful and the least successful farms.

<u>Average net income</u> <u>per acre</u>	<u>Number of</u> <u>farms</u>	<u>Average net income</u> <u>per acre</u>	<u>Number of</u> <u>farms</u>
\$19 and over.	5	\$7.	1
17	0	5.	6
15	2	3.	6
13	2	1.	2
11	1	-1.	1
9	7	-3 and under.	3

A further study of the farm businesses made by comparing the investments, receipts, and expenses of the group of farms having the highest net income, with those having the lowest income will throw some light on the question of why some farmers are more successful than others. This comparison is shown in the table on page 3.

The most successful farms averaged 245 acres each, the least successful 209 acres. This difference in size accounts in part for the variation in the average investments, receipts, and expenses in the two groups. Difference in receipts from the sale of cattle, hogs, and grains accounts for most of the difference in income between the two groups. Although the expenses per farm were higher on the most profitable farms, the total expense per acre, including the charge for family labor, was less than it was on the least profitable farms.

The year 1934 was similar to 1933 in that the prices of farm products continued to advance, causing further increases in inventory values. Owing to the poor crop yields in 1934, there were fewer bushels of grain on hand to inventory at the end of the year than at the beginning. The value of the smaller amount of grain, however, was greater than for the larger amount on hand at the beginning of the year.

Bushels of Corn Inventoried

	Jan. 1, 1934	Dec. 31, 1934
Average of all farms.	3 272	1 229
Average of 12 most successful farms	4 601	2 347
Average of 12 least successful farms	2 308	242
Your farm		

The most profitable farms had a much larger inventory of corn, both at the beginning and at the end of the year. The rapid rise in corn price was an important factor in accounting for the difference in returns from feed and grains.

The average inventory increase for the accounting farms in McDonough County was \$221, as compared with \$273 in 1933, and a decrease of \$789 in 1932. There were increases of \$211 in feed and grain, and \$86 in livestock, and decreases of \$45 in improvements, and \$31 in machinery. The inventory decrease in machinery and improvements was the smallest since 1929 on account-keeping farms, and indicates that needed repairs and replacements are being made but still not enough to offset the current depreciation costs.

Inventory Changes for 1934

Items	Beginning inventory 1-1-34	Closing inventory 12-31-34	Inventory changes 1934	Inventory changes, your farm
Total livestock.	\$2 027	\$2 113	\$ 86	\$
Feed and grains.	1 969	2 180	211	
Machinery.	1 503	1 472	-31	
Improvements (except residence)	3 752	3 713	-45	
Total.	\$9 257	\$9 478	\$221	\$

Some Adjustments on McDonough County Farms Since 1929

Farmers have been forced to make adjustments in their cash expenditures as the result of changes in their cash income. From 1930 through 1933, farm operating costs declined each year, but the year 1934 brought a reversal of this trend. The total operating expenses were 3 cents an acre higher in 1934 than in 1933, while cash operating expenses were \$5,036 a farm in 1934 as compared with \$2,174 in 1933. Low crop yields, combined with the usual large amount of livestock on McDonough County farms, necessitated the purchase of considerably more feed in 1934 than in 1933. There was also a significant increase in expenditures over 1933 for crop expense, machinery, livestock, and improvements. Indications point to an increase of expenditures for machinery and improvements in 1935, since farmers have postponed repairs and replacements for these items during the four-year period since 1930.

Cash Income and Expenses on Accounting Farms in McDonough County for 1929 and 1934

Items	Your farm 1934	Average cash expense per farm		Your farm 1934	Average cash income per farm	
		1934	1929		1934	1929
Livestock	\$	\$ 651	\$1 543	\$	\$4 065	\$6 557
Feed and grains		1 097	1 308		1 151	1 508
Machinery		405	606		69	83
Improvements.		189	401		2	4
Labor		221	436		54	46
Miscellaneous		29	24		2	3
Livestock expense		72	79		---	---
Crop expense.		165	266		---	---
Taxes		207	318		---	---
Total	\$	\$3 036	\$4 981	\$	\$5 343	\$8 201
Excess of cash sales over expenses.	\$			\$	\$2 307	\$3 220
Increase in inventory					221	468
Income to labor and capital (Receipts less expenses).					2 528	3 688

The cumulative effect of several years of low agricultural prices on the demand for manufactured goods can be readily ascertained by a comparison of cash expenditures in 1934 with those in 1929. The average cash income in 1934 was 65 percent of that in 1929, while cash expenditures were only 61 percent as large. In 1934 livestock purchases were 42 percent, and feed and grain purchases 84 percent as large as in 1929. In 1934 these farms paid out 67 percent as much for machinery, 62 percent as much for crop expense and 47 percent as much for improvements as in 1929, while taxes were reduced to 65 percent of the 1929 level.

Comparison of Farms With High and Low Earnings

The most profitable farms in this study had net receipts per acre of \$14.32, as compared with \$1.68 for the least profitable group. The reasons for this difference may be obtained from a study of the data on pages 3 and 8.

The most profitable farms were larger, having 35 more crop acres and 21 more acres of corn than the least profitable farms. They also carried larger inventories of both crops and livestock on which to make a profit when prices advanced. In addition to the larger acreage of crops, the most profitable farms had higher yields. They raised 7.8 bushels more corn, and 7.3 bushels more soybeans per acre than the least profitable farms.

The most profitable farms were more intensive, and more efficient in their livestock production than the least profitable farms. They had an investment in productive livestock of \$9.36 per acre and fed \$3,310 of feed per farm. The comparable figures for the least profitable group were \$5.45 per acre invested, and \$1,652 of feed fed per farm. Cattle sales account for 37 percent of the livestock receipts on the most profitable farms, as compared with 13 percent on the least profitable farms. Six of the twelve farms in the most profitable group had net increases of over \$1,000 from cattle, as compared with one farm in the least profitable group. Fifty percent of the \$3,310 of feed fed to livestock on the most profitable farms was purchased during the year, as compared with only 21 percent for the least profitable group. The comparison between the most profitable group and the least profitable group was, therefore, as far as cattle returns are concerned, a comparison between farms specializing in cattle feeding, and farms on which mixed cattle predominated. These facts, together with the additional point that a charge for pasture is not included in feed costs as figured in this report, explain why the advantage of the most profitable group in returns per \$100 of feed fed appears so slight.

Dairy and mixed cattle secure a larger proportion of their feed from pasture and are able to utilize it better than beef cattle being fattened for market. The higher returns per \$100 of feed fed for the average of all farms is due to a concentration of dairy farms in the middle group. Figures for this group are not shown in this report. Cattle on the most profitable farms returned \$130 per \$100 invested, and \$101 on the least profitable farms. The most successful farms secured an income of \$113 per litter farrowed, as compared to \$68 on the least successful farms.

The larger income on the most profitable farms was secured with a total operating cost of \$8.12 per acre, as compared with \$8.34 per acre for the least profitable farms. The man labor costs were \$1.15 per crop acre lower, while power and machinery costs were 57 cents per crop acre lower for the most successful farms.

Influence of AAA Programs on Cropping Systems and Farm Incomes

The farm-account records in Illinois were influenced both directly and indirectly by the corn-hog and wheat adjustment programs. A large percentage of accounting farms were under one or both contracts in 1934. The acreages of corn and wheat on these farms were therefore less than normal. This should have resulted in lower operating costs. Corn-hog benefit payments for the entire 1934 program will total about 40 million dollars for the state, while wheat benefit payments will be about 2.4 million dollars.

The benefit payments for accounting farms are indicated in the following table, which shows the average payment for those farms receiving payments, and includes only those payments received by the cooperator before the 1934 books were closed. In some cases only the first corn-hog check is included, while in other cases the second check had been received. The second payments not received, and the third payments will be entered in the 1935 book.

AAA Benefit Payments Received in 1934

	Corn		Wheat		Hogs		Average of all payments ^{1/}
	Number of farms	Amount per farm	Number of farms	Amount per farm	Number of farms	Amount per farm	
1/3 most profitable farms	12	\$155	2	\$176	10	\$239	\$425
1/3 least profitable farms	11	108	2	210	11	354	468
All accounting farms	35	136	7	204	33	292	439

^{1/} Total benefit payments reported by accounting farms under contract for 1934 divided by total number of accounting farms.

On many farms the cash received from benefit payments will more than pay for the year's taxes. As an average for all accounting farms, the payments actually received were \$232 more than sufficient to pay the 1934 taxes.

It is interesting to note the use made of the contracted acres on the accounting farms. The average farm had 21.8 contracted acres which were used as follows: 4.5 idle; 5.0 red clover; .3 sweet clover; 5.3 soybeans; 1.9 alfalfa; and 4.8 acres were in other crops. These data indicate that most farmers made good use of their contracted acres from the standpoint of soil improvement, as a large part of them were in legumes. When the Government restrictions on the use of crops grown on contracted acres were removed, they were on many farms the most profitable crops as they furnished hay and pasture where badly needed in drouth areas. The legumes had the further advantage of being immune to attack from chinch bugs.

Farm earnings were influenced indirectly by the AAA programs in that the reduction in production increased the price of the commodities involved. The drouth was a more important factor in reducing production than the adjustment programs, yet if it had not been for the corn-sealing program there would have been but little corn in the hands of farmers at the time the major price advance became effective.

Factors Helping to Analyze the Farm Business on
36 McDonough County Farms in 1934

Items	Your farm	Average of 36 farms	12 most profitable farms	12 least profitable farms
Size of farms--acres - - - - -	_____	237.3	245.4	209.1
Percent of land area tillable- - - - -	_____	85.7	85.1	86.1
Percent of tillable land in hay and pasture - - - - -	_____	40.0	32.5	37.7
Gross receipts per acre- - - - -	_____	16.10	22.44	10.22
Total expenses per acre- - - - -	_____	8.18	8.12	8.54
Net receipts per acre- - - - -	_____	7.92	14.32	1.68
Value of land per acre - - - - -	_____	99	94	113
Total investment per acre- - - - -	_____	138	138	148
Acres in Corn- - - - -	_____	63.5	78.4	57.0
Oats- - - - -	_____	23.2	22.7	19.0
Wheat - - - - -	_____	15.8	21.9	17.5
Soybeans- - - - -	_____	11.7	13.9	10.1
Hay - - - - -	_____	31.7	30.2	23.7
Tillable pasture- - - - -	_____	49.6	37.6	44.2
Crop yields--Corn, bu. per acre- - -	_____	14.9	19.2	11.4
Oats, bu. per acre- - -	_____	8.7	10.8	11.3
Wheat, bu. per acre - -	_____	15.5	13.2	14.5
Soybeans, bu. per acre-	_____	19.9	23.8	16.5
Value of feed fed to productive L.S.	_____	2 757	3 810	1 684
Returns per \$100 of feed fed to productive livestock- - - - -	_____	125	123	121
Returns per \$100 invested in:				
Cattle- - - - -	_____	119	130	101
Poultry - - - - -	_____	244	274	196
Pigs weaned per litter - - - - -	_____	6.2	6.5	5.6
Income per litter farrowed - - - - -	_____	108	113	68
Dairy sales per dairy cow- - - - -	_____	45	36	51
Investment in productive L.S. per A.	_____	7.19	9.36	5.45
Receipts from productive L.S. per A.	_____	14.56	19.16	9.72
Man labor cost per crop acre - - - - -	_____	5.31	5.00	6.15
Machinery cost per crop acre - - - - -	_____	2.39	2.23	2.23
Power and mach. cost per crop A. - - -	_____	3.51	3.10	3.67
Farms with tractor - - - - -	_____	80%	75%	75%
Value of feed fed to horses- - - - -	_____	217	211	195
Man labor cost per \$100 gross income- - - - -	_____	21	16	39
Expenses per \$100 gross income - - - - -	_____	51	36	83
Farm improvements cost per acre - - -	_____	.98	.80	1.05
Excess of sales over cash expenses -	_____	2 307	2 912	1 708
Increase in inventory- - - - -	_____	221	1 225	-612
Rate earned on investment- - - - -	_____	5.73%	10.38%	1.14%
Gross receipts per farm- - - - -	_____	3 821	5 508	2 138

Chart for Studying the Efficiency of Various Parts of Your Business,
McDonough County, 1934

The numbers above the lines across the middle of the page are the averages for the 36 farms included in this report for the factors named at the top of the page. By drawing a line across each column at the number measuring the efficiency of your farm in that factor, you can compare your efficiency with that of other farmers in your locality.

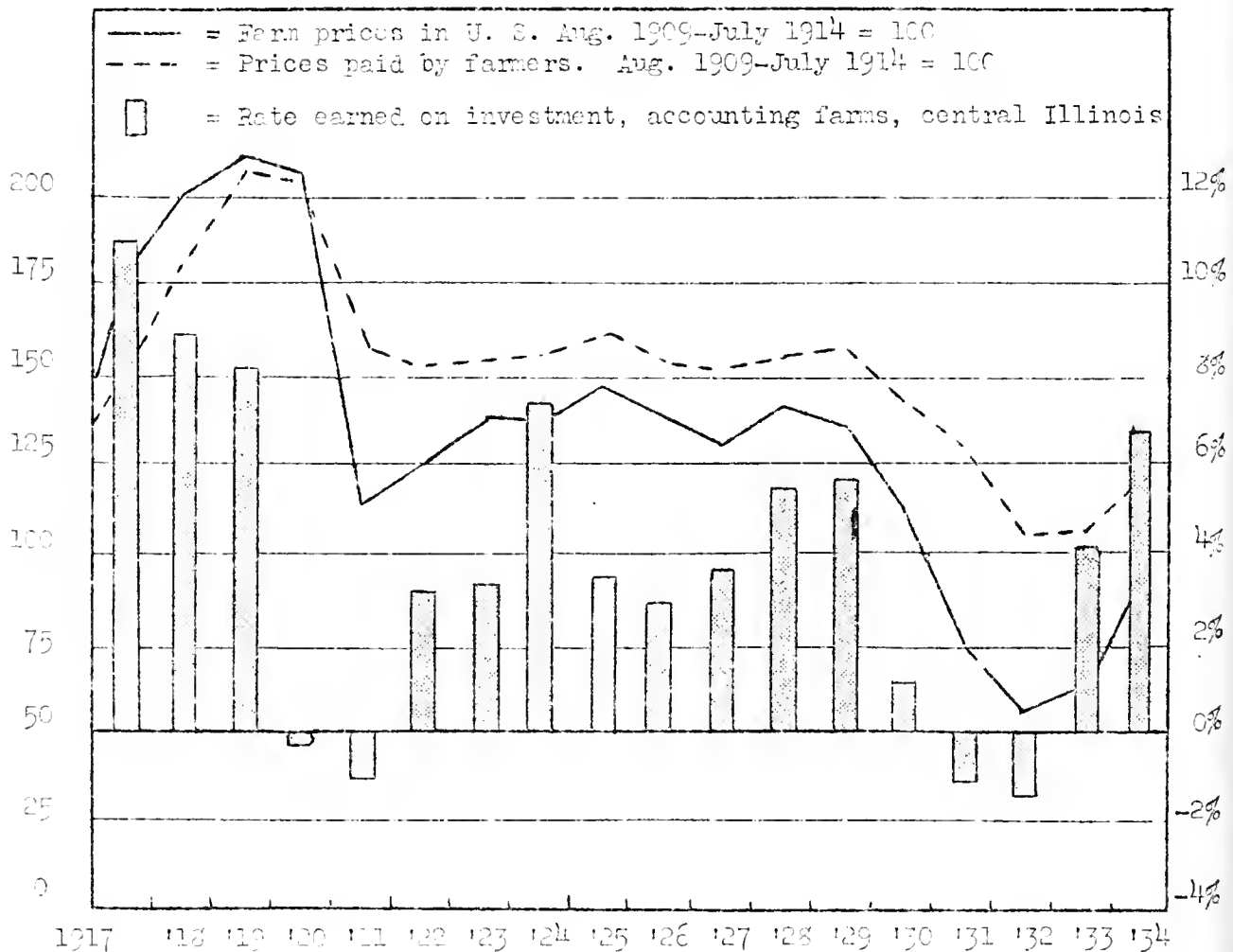
Rate earned on investment	Bushels per acre			Hogs: Income per litter	Dairy sales per daily cow	Poultry income per \$100 invested	L.S. income per \$100 of feed fed	Cost per crop acre		Labor cost per \$100 gross receipts	Increase in inventory	Sales over cash expenses	Gross receipts		Acres in farm
	Corn	Oats	Wheat					Labor	Power and machinery				Per acre	Per farm	
15.7	30	24	26	163	70	444	196	.31	1.00	--	2721	4807	31	8800	440
13.7	27	21	24	156	65	404	132	1.31	1.50	1	2221	4307	28	7800	400
11.7	24	13	22	144	50	354	168	2.31	2.00	6	1721	3807	25	6800	350
9.7	21	15	20	132	55	324	154	3.31	2.50	11	1221	3707	22	5800	320
7.7	18	12	16	120	50	284	140	4.31	3.00	16	721	2807	19	4800	280
5.73	14.9	5.7	15.5	108	45	244	126	5.31	3.51	21	.221	2307	16.10	3821	237.3
3.7	12	6	14	96	40	204	112	6.31	4.00	25	-279	1807	13	2800	200
1.7	9	3	12	84	35	164	98	7.31	4.50	31	-779	1307	10	1800	150
-.3	6	0	10	72	30	124	84	8.31	5.00	36	-1279	807	7	1000	120
2.3	3	--	8	60	25	84	70	9.31	5.50	41	-1779	307	4	---	80
4.3	0	--	6	48	20	44	56	10.31	6.00	46	-2279	-193	1	---	40

Influence of Price Changes on Farm Earnings

Farm prices in 1934 advanced more rapidly than did the prices of commodities which farmers bought. Farmers of the United States as a group could exchange their farm products in 1934 for 74 percent as many goods as for the period 1909-1914, while in 1933 they received only 64 percent, and 1932 only 61 percent as much in exchange for what they had to sell as in the prewar period. In the month of February, 1935, this index of purchasing power had increased to 87 percent of prewar, the index of farm prices having risen to 111 as compared with an index of 127 for commodities which farmers buy. When the line representing farm prices drops below the line representing prices paid by farmers, farm earnings are very low, but when these lines come close together farm earnings increase. (See following graph.)

Index of Prices

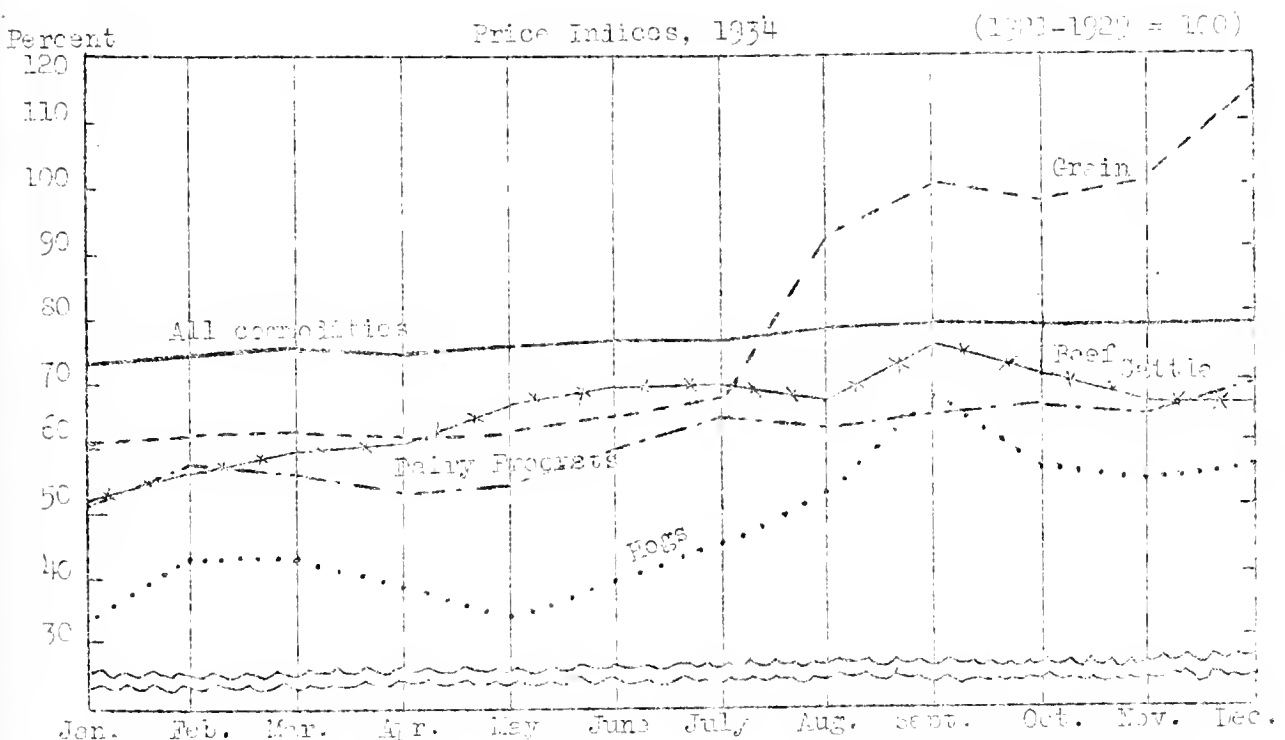
Rate Earned



Since the price of some farm products advanced much more rapidly during 1934 than other products, it is evident that some farmers would benefit more than others, depending upon the kind and quantity of products sold. Grain prices advanced much more rapidly than livestock prices; which resulted in a very bad price ratio for farmers who buy large quantities of feed. The average Illinois farm price of corn was 41 cents a bushel in January, 1934; it advanced steadily until the end of the year when it was 88 cents a bushel. Other grains made marked advance although not so great an advance as corn. The price of hogs fluctuated from a low of \$5.30 a hundred in May to a high of \$6.30 in September. The low point in the fall came in November when the average price was \$5.10. The price has advanced quite rapidly since November, the average price being \$7.50 for February, 1935. Beef cattle were worth \$4.10 a hundred in January, 1934 and advanced each month until September, when the price was \$5.90. They dropped to \$5.20 in December but increased again to \$7.40 for February, 1935.

The year 1934 set a record for the reduction in the numbers of livestock. The percentage decreases by species were as follows: horses, 1.1 percent; mules, 2.6 percent; all cattle, 11.2 percent; sheep, 4.7 percent; hogs, 35.3 percent. When all species are combined on the basis of their capacity to consume feed, the reduction was 13 percent. This reduction will greatly reduce the demand for feeds produced in 1935.

The relative change in prices of important commodities may be noted in the following graph, which shows the average Illinois farm prices by months as a percentage of the average prices for the period 1921-1929.



All commodities index represents the wholesale price of a large number of commodities for the United States, as computed by Bureau of Labor Statistics. Grain and livestock indices represent average monthly farm prices in Illinois.

Variation in Earnings Over Five-Year Period

A comparison of production, income, and expenditures on the accounting farms in McDonough County for the last five years is very interesting because of the violent fluctuations in price level. Although the 1934 crop was nearly a failure and followed a smaller than average crop of 1933, the increased prices of both grain and livestock did have considerable effect in holding earnings in second place for the five-year period 1930-1934.

Earnings in 1935, as usual, will depend upon individual efficiency, weather, and prices. With normal weather conditions, prices of grain are likely to go down to a more normal level which will give individual efficiency the responsibility for higher earnings on each farm.

Comparison of Earnings and Investments on Accounting Farms in
McDonough County, 1930-1934

Items	1930	1931	1932	1933	1934
Number of farms - - - - -	36	39	30	30	36
Average size of farms, acres - - - -	212	216	222	221	237
Average rate earned, to pay for management, risk and capital - - -	2.2%	-1.7%	-1.1%	6.9%	5.7%
Average labor and management wage -	\$-431	\$-1 979	\$-1 374	\$1 090	\$758
Gross income per acre - - - - -	20.31	10.38	8.59	17.58	16.10
Operating cost per acre - - - - -	16.10	13.44	10.16	8.15	8.18
Average value of land per acre - - -	133	127	97	98	99
Total investment per acre - - - - -	193	176	140	137	138
Investment per farm in:					
Total livestock- - - - -	3 574	2 842	1 981	2 024	2 027
Cattle - - - - -	1 271	1 125	795	963	1 025
Hogs - - - - -	1 570	1 086	638	543	542
Poultry- - - - -	158	137	57	115	78
Gross income per farm - - - - -	5 303	2 245	1 905	3 885	3 821
Income per farm from:					
Crops- - - - -	---	---	---	1 329	265
Miscellaneous income - - - - -	44	36	61	26	2
Total livestock- - - - -	4 259	2 209	---	2 530	3 500
Cattle - - - - -	489	309	403	474	999
Dairy sales- - - - -	308	279	219	262	225
Hogs - - - - -	3 214	1 394	1 022	1 590	2 002
Poultry- - - - -	241	220	190	151	60
Average yield of corn in bu.- - - -	35	45	63	50	15
Average yield of oats in bu.- - - -	40	47	53	34	9
Average yield of wheat in bu. - - -	24	23	17	24	16

ANNUAL FARM BUSINESS REPORT ON THIRTY-ONE FARMS
IN ADAMS COUNTY, ILLINOIS, 1934

P. E. Johnston, J. Ackerman, T. R. Hedges*

Farm earnings on the 31 accounting farms in Adams County averaged 2.3 percent for 1934 which is the second highest return during the past five years. 1933 was highest with an average return of 3.6 percent. The 1934 return is remarkable considering the severe drouth and chinch bug damage.

These 31 accounts show for 1934 an average net income of \$625 per farm, as compared with an average of \$867 in 1933 and an average net loss of \$612 in 1932. The average cash income in 1934 was \$3,874 per farm, the cash business expenditures \$2,240 per farm, leaving a cash balance of \$1,634 to meet interest payments and family living expenses. (Those who keep home account books use the latter figure to represent the cash contribution of the farm to the "realized family income".) The low yields were directly responsible for the decrease in inventory of \$242 a farm. This decrease, deducted from the cash balance, resulted in an average excess of receipts over expenses of \$1,392 a farm.

These data must not be considered representative of average farm conditions, for they were secured from farms which are larger than average and were managed by farmers who are more efficient than the average of all farmers in the county.

For the state as a whole, farm earnings were better in 1934 than in 1933 in spite of the fact that corn and oat yields were very low due to the drouth and to chinch bug damage. In the western and southwestern parts of the state the drouth caused an almost total failure of both corn and oats, which accounts for farm earnings being lower there than in other parts of the state.

The corn crop was best in the southeastern part of the state and was fair in the northwestern section. Wheat yields were particularly good in the south and central portions of the state. Soybean yields were very good throughout the state and there was a larger than normal acreage in Illinois in 1934. This state produced over half of the nation's 1934 crop of soybeans.

Chinch bug damage extended over most of the state last year but was much more severe in some sections than in others and was much worse on some farms than on other farms in the same community. Conditions affecting crop yields were very spotted; which accounts in part for the wide variation in farm earnings from one section of the state to another and the wider variations than usual from one farm to another.

*S. F. Russell, farm adviser in Adams County cooperated in supervising and collecting the records on which this report is based.

Industries other than agriculture again showed improved earnings over the previous year. A group of 840 industrial corporations reported by a nationally known bank showed average earnings of 5.0 percent on their invested capital in 1934, as compared with 3.4 percent for the same corporations in 1933. A similar group has a loss of one-tenth of one percent in 1932 and average earnings of 3.3 percent in 1931.

In comparing the average earnings of corporations with the rate earned on investments on accounting farms it is well to keep in mind that in corporation accounting, charges are made for management, while in the farm accounts no comparable deduction has been made. On the other hand the farmer and his family receive food, fuel, and other items of living from the farm for which the farm has received no credit in the records used in this report. For the average central Illinois farm family, consisting of five persons, the value of the food and fuel furnished by the farm was about \$250 in 1934, when estimated on the basis of the wholesale price for farm products.

Variations in Farm Incomes

There was a much wider range in farm earnings on the accounting farms in 1934 than in 1933. This was true for the farms included in this report and was also true when the average earnings of farms in one section of the state were compared with the earnings of farms in other areas.

The extremely wide range in earnings was due to a combination of physical and economic factors. The average yields of wheat and soybeans were much better, compared with the five-year average, than the average yields of corn and oats. This variation favored those sections which had larger acreages of the higher yielding crops in 1934. There was also a wide range in average corn yields from one section of the state to another as well as between individual farms in the same area. The price of grains was high in 1934 as compared with prices of livestock and livestock products. Farms where grain sales constitute a large part of the farm income thus had an advantage. The rapid increase in the prices of farm products, particularly grains, favored those farms which had large stocks of salable products on hand at the beginning of the year. Many farmers who inventoried the corn on hand at the beginning of 1934 at 40 cents a bushel, later sold this corn for 80 cents.

In this group of 31 accounting farms the most successful third shows an average net income of \$2,056, the average net loss of the least successful third of the farms was \$438. In 1933 the comparable net incomes for the two groups was \$1,876 and \$-12 respectively.

Investments, Receipts, Expenses and Earnings on
31 Adams County Farms in 1934

Items	Your farm	Average of 31 farms	10 most profitable farms	10 least profitable farms
CAPITAL INVESTMENTS				
Land - - - - -		19 081	22 947	12 853
Farm improvements- - - - -		3 710	3 756	3 882
Livestock total- - - - -		<u>1 662</u>	<u>2 193</u>	<u>1 159</u>
Horses - - - - -		409	402	333
Cattle - - - - -		739	1 153	493
Hogs - - - - -		410	551	241
Sheep- - - - -		45	28	35
Poultry- - - - -		59	59	57
Machinery and equipment- - - -		1 018	1 216	849
Feed, grain and supplies - - - -		1 231	1 778	763
Total capital investment	\$	<u>\$26 702</u>	<u>\$38 890</u>	<u>\$19 506</u>
RECEIPTS AND NET INCREASES				
Livestock total- - - - -		<u>2 446</u>	<u>3 382</u>	<u>1 522</u>
Horses - - - - -		39	52	3
Cattle - - - - -		592	1 291	139
Hogs (including AAA payments)		1 437	2 185	968
Sheep- - - - -		47	38	18
Poultry- - - - -		61	57	69
Egg sales- - - - -		69	64	88
Dairy sales- - - - -		201	195	237
Feed and grains (including AAA payments) - - - - -		---	269	---
Labor off farm - - - - -		142	93	98
Miscellaneous receipts - - - - -		6	1	14
Total receipts & net increases	\$	<u>\$ 2 594</u>	<u>\$ 4 245</u>	<u>\$ 1 634</u>
EXPENSES AND NET DECREASES				
Farm improvements- - - - -		178	203	152
Horses - - - - -		---	---	---
Miscellaneous livestock decreases		---	---	---
Machinery and equipment- - - - -		298	389	233
Feed, grain and supplies - - - - -		158	---	397
Livestock expense- - - - -		64	140	20
Crop expense - - - - -		128	219	87
Hired labor- - - - -		135	207	54
Taxes- - - - -		221	256	237
Miscellaneous expenses - - - - -		20	23	14
Total expenses & net decreases	\$	<u>\$ 1 202</u>	<u>\$ 1 437</u>	<u>\$ 1 194</u>
RECEIPTS LESS EXPENSES- - - - -	\$	<u>\$ 1 392</u>	<u>\$ 2 808</u>	<u>\$ 440</u>
Total unpaid labor- - - - -		767	752	878
Operator's labor - - - - -		540	540	540
Family labor - - - - -		227	212	338
Net income from investment and management- - - - -		625	2 056	-438
RATE EARNED ON INVESTMENT - - - - -	%	<u>2.34%</u>	<u>5.28%</u>	<u>-2.24%</u>
Return to capital and operator's labor and management- - - - -		1 165	2 596	102
5% of capital invested- - - - -		1 335	1 945	975
LABOR AND MANAGEMENT WAGE - - - - -	\$	<u>\$ -170</u>	<u>\$ 551</u>	<u>\$ -873</u>

The following table shows the number of farms having certain net incomes per acre. There was a marked difference between the most successful and the least successful farms.

<u>Average net income</u> <u>per acre</u>	<u>Number of</u> <u>farms</u>	<u>Average net income</u> <u>per acre</u>	<u>Number of</u> <u>farms</u>
\$11.	1	\$ 1.	8
9.	4	-1.	5
7.	0	-3.	4
5.	4	-5.	1
3.	4		

A further study of the farm businesses made by comparing the investments, receipts, and expenses of the group of farms with the highest net incomes with those having the lowest should throw some light on the question of why some farmers are more successful than others. This comparison is shown in the table on page 3.

The most successful farms averaged 311 acres each, the least successful 226 acres. This difference in size accounts in part for the variation in the average investment, receipts, and expenses in the two groups. Difference in receipts from the sales of hogs, cattle and grains accounts for most of the difference in income between the two groups. Although the expenses per farm were higher on the most profitable farms, the total expense per acre, including the charge for family labor, was less than it was on the least profitable farms.

The year 1934 was similar to 1933 in that the prices of farm products continued to advance. Owing to the extremely poor yields in Adams County, the value of grain at the end of the year was not as much as at the beginning even though prices of grain had more than doubled. This condition was aggravated by the fact that Adams County has much livestock and with very little feed produced, farmers were compelled to buy grain at a high price while livestock prices were still relatively low.

Bushels of Corn Inventoried

	Jan. 1, 1934	Dec. 31, 1934
Average of all farms.	1,797	365
Average of 10 most successful farms .	2,723	700
Average of 10 least successful farms.	1,096	49
Your farm		

The most profitable farms had a much larger inventory of corn both at the beginning and end of the year; which with the rise of the grain prices, was one of the important factors accounting for the difference in farm earnings.

The decrease in inventory for the 31 Adams County farms averages \$242. The 1933 inventory values increased \$596; while in 1932 there was a decrease of \$808. The decreases in 1934 were: livestock, \$10; feed and grain, \$153; improvements, \$91. The machinery inventory increased \$12. Such an increase in inventory as that for machinery results from the value of new replacements during the year being in excess of depreciation costs. This increase is of considerable interest for it is the first time that such an increase in machinery inventories has occurred since farm earnings began to decline so drastically with the general depression.

Inventory Changes for 1934

Items	Beginning Inventory 1-1-34	Closing inventory 12-31-34	Inventory changes 1934	Inventory changes your farm
Total livestock.	1,662	1,652	-10	
Feed and grains.	1,231	1,078	-153	
Machinery.	1,018	1,030	12	
Improvements (except residence)	3,710	3,619	-91	
Total.	7,621	7,379	-242	_____

Some Adjustments on Adams County Farms Since 1929

Farmers have been forced to make adjustments in their cash expenditures as the result of changes in their cash incomes. Operating costs on the accounting farms in Adams County declined from \$12.82 an acre in 1931 to \$8.11 an acre in 1934. In this county, 1934 operating costs were the lowest since 1928. While in some other areas more favored by rainfall, the operating costs increased because of better crops resulting in a larger cash income which in turn permitted the purchase of repair and replacements of machinery and improvements. Adams County farmers must wait for more favorable weather and crop conditions before making this expansion.

Cash Income and Expenses on Accounting Farms in Adams County for 1929 and 1934

Items	Your farm 1934	Average cash expense per farm 1934	1929	Your farm 1934	Average cash in- come per farm 1934	1929
Livestock.	392	1 155		2 848	4 412	
Feed and grains.	822	987		817	847	
Machinery.	360	515		50	61	
Improvements	98	180		11	1	
Labor.	135	336		142	78	
Miscellaneous.	20	31		6	13	
Livestock expense.	64	61		---	---	
Crop expense	128	197		---	---	
Taxes.	221	259		---	---	
Total	2 040	3 721		3 849	5 412	
Excess of cash sales over expenses.				1 634	1 691	
Increase in inventory				-242	145	
Income to labor and capital (Receipts less expenses)				1 392	1 836	

The cumulative effect of several years of low agricultural prices on the demand for manufactured goods can readily be ascertained by a comparison of cash farm expenditures in 1934 with those in 1929. Although the average cash income in 1934 was 71 percent of that in 1929, cash expenditures were only 55 percent as large. In 1934 livestock purchases were 34 percent and feed and grain purchases 83 percent as large as in 1929. In 1934 these farms paid out 70 percent as much for machinery and 65 percent as much for crop expense as in 1929, while taxes were reduced to only 85 percent of the 1929 level.

Comparison of Farms With High and Low Earnings

The most profitable farms in this study had net receipts per acre of \$6.61 as compared with a loss of \$1.94 for the least profitable group. The reasons for this difference may be obtained from a study of the data on pages 3 and

The most profitable farms were larger and carried larger inventories on which to make a profit when prices advanced. All crop yields were near a complete failure and yet the most profitable farms had 6.5 bushels an acre of corn and 5.0 bushels an acre of oats more than the least profitable. This advantage in crop yields and the larger beginning inventories of grain, combined with more and better livestock, were the principal factors for the higher earnings of the most profitable farms.

The total operating costs on the acre basis were \$2.12 higher on the least profitable farms. This is accounted for mostly by a difference of \$1.34 in labor cost. Machinery cost was \$.10 an acre less on the least profitable farms.

Influence of AAA Programs on Cropping Systems and Farm Incomes

The farm-account records in Illinois were influenced both directly and indirectly by the corn-hog and wheat adjustment programs. A large percentage of accounting farms were under one or both contracts in 1934. The acreages of corn and wheat on these farms were therefore less than normal. This should have resulted in lower operating costs. Corn-hog benefit payments for the entire 1934 program will total about 40 million dollars for the state, while wheat benefit payments will be about 2.4 million dollars.

The benefit payments for accounting farms are indicated in the following table, which shows the average payment for those farms receiving payments and includes only those payments received by the cooperator before the 1934 books were closed. In some cases only the first corn-hog check is included, while in other cases the second check had been received. The second payments not received and the third payments will be entered in the 1935 book.

AAA Benefit Payments Received in 1934

	Corn		Wheat		HOGS		Average of all payments ^{1/}
	Number of farms	Amount per farm	Number of farms	Amount per farm	Number of farms	Amount per farm	
1/3 most profitable farms	9	\$106	4	\$122	8	\$263	\$355
1/3 least profitable farms	8	81	5	66	8	183	245
All accounting farms	26	85	13	84	25	227	290
^{1/} Total benefit payments reported by accounting farms under contract for 1934 divided by total number of accounting farms.							

As an average of all accounting farms, the payments actually received (\$290) were more than sufficient to pay all of the 1934 taxes, (\$221).

It is interesting to note the use made of the contracted acres on the accounting farms. The average farm had 20.8 contracted acres which were used as follows: 5.7 idle; 2.9 red clover; 3.5 sweet clover; 3.0 soybeans; 2.7 alfalfa and 3.0 acres were in other crops. These data indicate that most farmers made good use of their contracted acres from the standpoint of soil improvement, as most of them were in legumes. When the Government restrictions on the use of crops grown on contracted acres were removed, they were on many farms the most profitable crops as they furnished hay and pasture where badly needed in drouth areas. The legumes had the further advantage of being immune to attack from chinch bugs.

Farm earnings were influenced indirectly by the AAA programs in that the reduction in production increased the price of the commodities involved. The drouth was a more important factor in reducing production than the adjustment programs, yet if it had not been for the corn-sealing program there would have been but little corn in the hands of farmers at the time the major price advance became effective.

Factors Helping to Analyze the Farm Business on
31 Adams County Farms in 1934

Items	Your farm	Average of 31 farms	10 most profitable farms	10 least profitable farms
Size of farms--acres - - - - -	_____	242.7	311.1	226.2
Percent of land area tillable- - -	_____	82.8	75.	74.7
Percent of tillable land in hay and pasture- - - - -	_____	45.7	43.0	41.4
Gross receipts per acre- - - - -	_____	10.69	13.65	7.22
Total expenses per acre- - - - -	_____	8.11	7.74	9.16
Net receipts per acre- - - - -	_____	2.58	6.61	-1.94
Value of land per acre - - - - -	_____	79	96	57
Total investment per acre- - - - -	_____	110	128	86
Acres in Corn- - - - -	_____	50.2	54	48.6
Oats- - - - -	_____	19.9	20	18.9
Wheat - - - - -	_____	17.3	25.8	17.5
Soybeans- - - - -	_____	9.4	23.9	1.9
Hay - - - - -	_____	29.2	35.9	27.4
Tillable pasture- - - - -	_____	62.6	77.7	42.6
Crop yields--Corn, bu. per acre- -	_____	5.6	7.5	1.0
Oats, bu. per acre- -	_____	4.0	5.8	.8
Wheat, bu. per acre -	_____	14.8	16.1	13.7
Value of feed fed to productive L.S.	_____	1 804	2 504	1 425
Returns per \$100 of feed fed to productive livestock- - - - -	_____	133	153	106
Returns per \$100 invested in:	_____	_____	_____	_____
Cattle- - - - -	_____	111	138	75
Poultry - - - - -	_____	209	209	245
Figs weaned per litter - - - - -	_____	6.4	7.4	5.8
Income per litter farrowed - - - -	_____	99	153	68
Dairy sales per dairy cow- - - - -	_____	38	30	36
Investment in productive L.S. per A.	_____	5.06	5.75	3.63
Receipts from productive L.S. per A.	_____	9.92	12.31	6.72
Man labor cost per crop acre - - -	_____	6.06	5.17	7.01
Machinery cost per crop acre - - -	_____	2.15	2.08	1.84
Power and mach. cost per crop A. -	_____	3.51	3.24	3.14
Farms with tractor - - - - -	_____	61.2%	80%	50%
Value of feed fed to horses- - - -	_____	227	267	168
Man labor cost per \$100 gross income- - - - -	_____	32	23	54
Expenses per \$100 gross income - -	_____	76	52	127
Farm improvements cost per acre- -	_____	.73	.65	.67
Excess of sales over cash expenses	_____	1 634	2 752	747
Increase in inventory- - - - -	_____	-242	56	-307
Rate earned on investment- - - - -	_____	2.34	5.28	-2.24
Gross receipts per farm- - - - -	_____	2 594	4 245	1 634

Chart for Studying the Efficiency of Various Parts of Your Business,
Adams County, 1934

The numbers above the lines across the middle of the page are the averages for the 31 farms included in this report for the factors named at the top of the page. By drawing a line across each column at the number measuring the efficiency of your farm in that factor, you can compare your efficiency with that of other farmers in your locality.

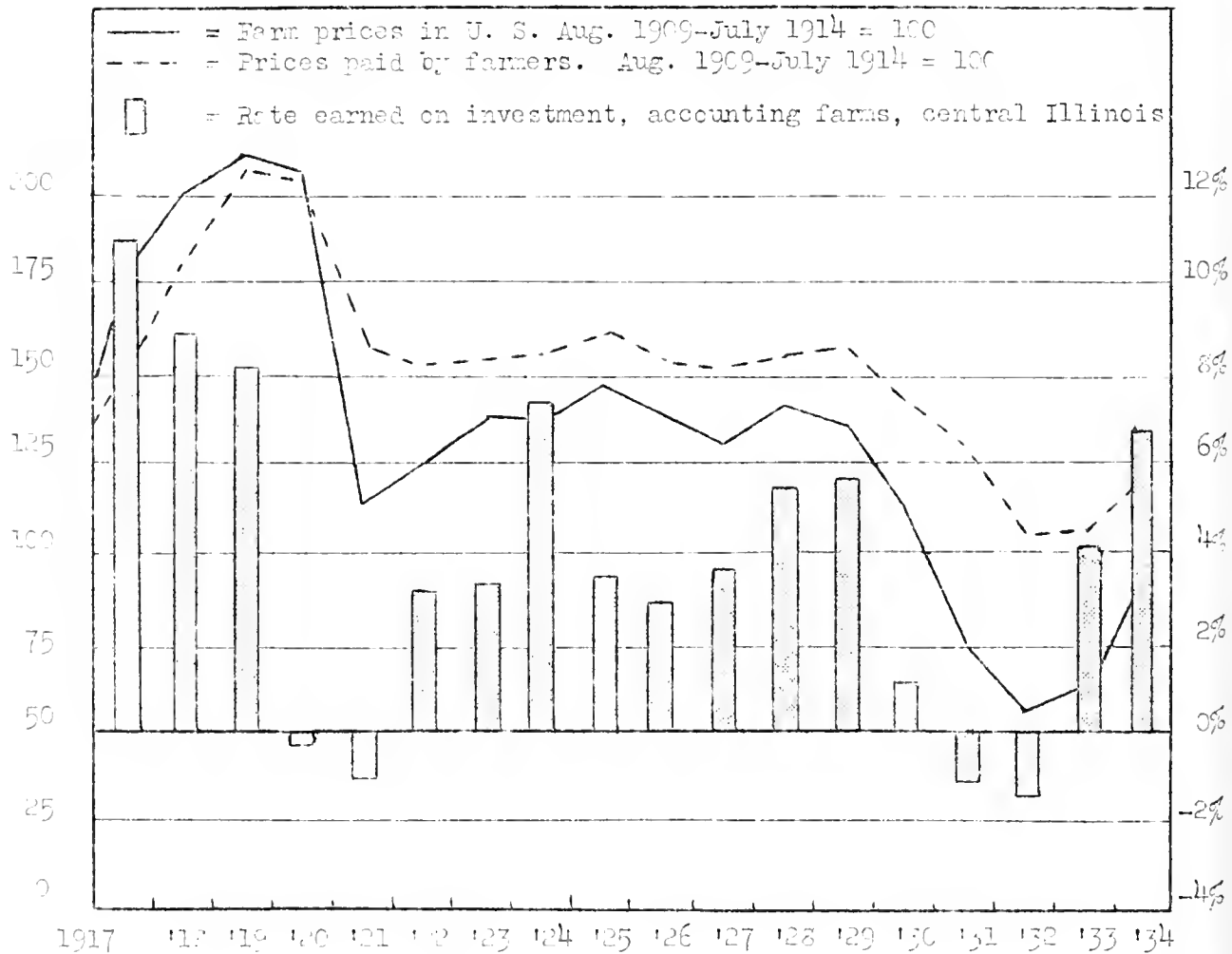
Rate earned on investment	Bushels per acre			Hogs: Income per litter	Dairy sales per dairy cows	Poultry income per \$100 invested	L.S. income per \$100 of feed fed	Cost per crop acre		Labor cost per \$100 gross receipts	Increase in inventory	Sales over cash expenses	Gross receipts		Acres in farm
	Corn	Oats	Wheat					Labor	Power and machinery				Per acre	Per farm	
12.34	11	9	25	174	66	359	193	--	1.00	--	1250	3034	21	5100	440
10.34	10	8	23	159	60	322	181	.86	1.50	12	950	2757	19	4600	400
8.34	9	7	21	144	54	299	169	2.16	2.00	17	650	2474	17	4100	360
6.34	8	6	19	129	48	269	157	3.46	2.50	22	350	2194	15	3600	320
4.34	7	5	17	114	42	239	145	4.76	3.00	27	50	1914	13	3100	280
2.34	5.6	4.0	14.8	99	38	209	133	6.06	3.51	32	-242	1634	11.60	2594	242.7
.34	4	3	13	84	32	179	121	7.36	4.00	37	-600	1354	9	2100	200
-1.66	3	2	11	69	26	149	109	8.66	4.50	42	-950	1074	7	1600	160
-3.66	2	1	9	54	20	119	97	9.96	5.00	47	-1250	794	5	1100	120
-5.66	1	0	7	39	14	89	85	11.26	5.50	52	--	514	3	600	80
-7.66	0	--	5	24	8	59	73	12.56	6.00	57	--	234	1	100	40

Influence of Price Changes on Farm Earnings

Farm prices in 1934 advanced more rapidly than did the prices of commodities which farmers bought. Farmers of the United States as a group could exchange their farm products in 1934 for 74 percent as many goods as for the period 1909-1914, while in 1933 they received only 64 percent, and 1932 only 61 percent as much in exchange for what they had to sell as in the prewar period. In the month of February, 1935, this index of purchasing power had increased to 87 percent of prewar, the index of farm prices having risen to 111 as compared with an index of 127 for commodities which farmers buy. When the line representing farm prices drops below the line representing prices paid by farmers, farm earnings are very low, but when these lines come close together farm earnings increase. (See following graph.)

Index of Prices

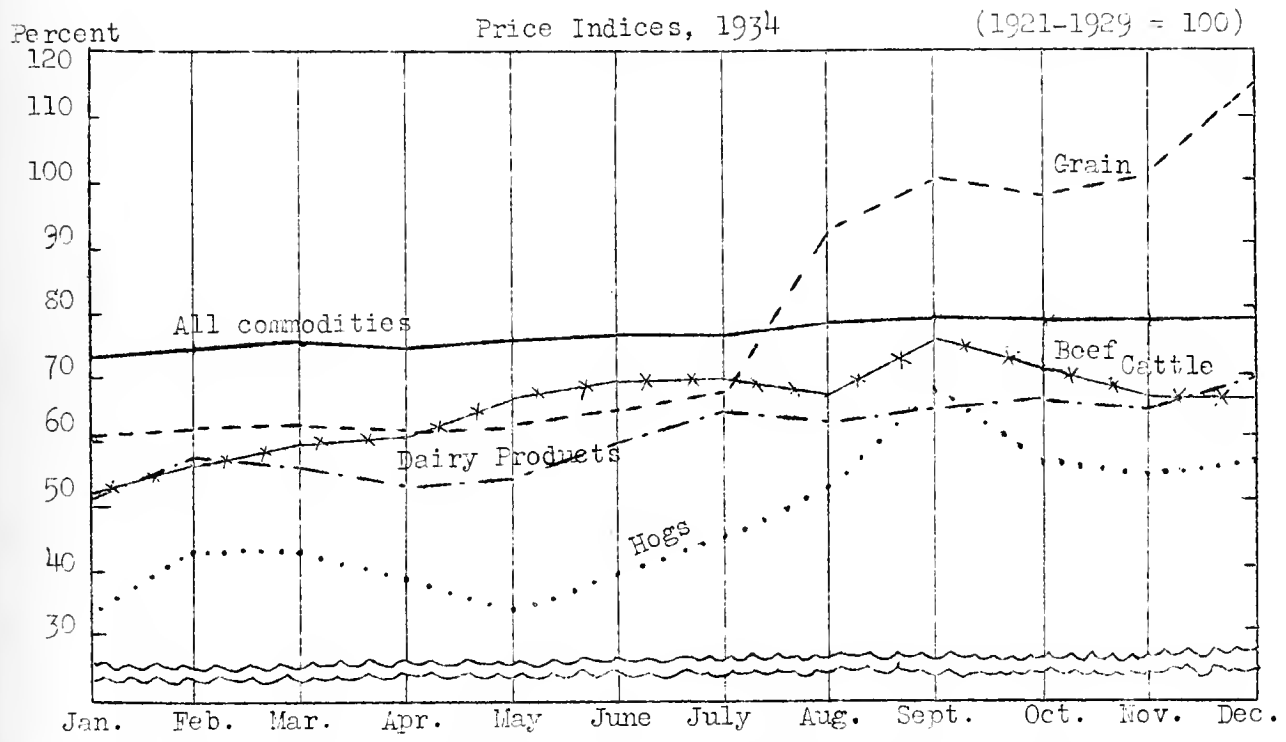
Rate Earned



Since the price of some farm products advanced much more rapidly during 1934 than other products, it is evident that some farms would benefit more than others, depending upon the kind and quantity of products sold. Grain prices advanced much more rapidly than livestock prices; which resulted in a very bad price ratio for farmers who buy large quantities of feed. The average Illinois farm price of corn was 41 cents a bushel in January, 1934; it advanced steadily until the end of the year when it was 88 cents a bushel. Other grains made marked advance although not so great an advance as corn. The price of hogs fluctuated from a low of \$5.20 a hundred in May to a high of \$6.30 in September. The low point in the fall came in November when the average price was \$5.10. The price has advanced quite rapidly since November, the average price being \$7.50 for February, 1935. Beef cattle were worth \$4.10 a hundred in January, 1934 and advanced each month until September, when the price was \$5.90. They dropped to \$5.20 in December but increased again to \$7.40 for February, 1935.

The year 1934 set a record for the reduction in the numbers of livestock. The percentage decreases by species were as follows: horses, 1.1 percent; mules, 2.6 percent; all cattle, 11.2 percent; sheep, 4.7 percent; hogs, 35.3 percent. When all species are combined on the basis of their capacity to consume feed, the reduction was 13 percent. This reduction will greatly reduce the demand for feeds produced in 1935.

The relative change in prices of important commodities may be noted in the following graph, which shows the average Illinois farm prices by months as a percentage of the average prices for the period 1921-1929.



All commodities index represents the wholesale price of a large number of commodities for the United States, as computed by Bureau of Labor Statistics. Grain and livestock indices represent average monthly farm prices in Illinois.

Variation in Earnings Over Five-Year Period

A comparison of production, income and expenditures on the account-farms in Adams County for the last five years is very interesting because of the violent fluctuations in price level. Although the 1934 crop was nearly a failure and followed a smaller than average crop of 1933, the increased prices of both grain and livestock did have considerable effect in holding earnings in second place for the five-year period 1930-1934.

Earnings in 1935 as usual will depend upon individual efficiency weather, and prices. With normal weather conditions, prices of grain are likely to go down to a more normal level which will give individual efficiency the responsibility for higher earnings on each farm.

Comparison of Earnings and Investments on Accounting Farms in
Adams County for 1930-1934

Items	1930	1931	1932	1933	1934
Number of farms - - - - -	30	31	30	30	31
Average size of farms, acres- - -	198	178	210	217	243
Average rate earned, to pay for management, risk and capital - -	1.3%	-3.1%	-2.6%	3.6%	2.
Average labor and management wage	\$-386	\$-1 323	\$-1 301	\$177	\$ -170
Gross income per acre - - - - -	14.26	8.69	5.81	12.16	10.
Operating cost per acre - - - - -	12.41	12.82	8.72	8.16	8.
Average value of land per acre- -	98	87	77	78	79
Total investment per acre - - - -	145	131	113	111	110
Investment per farm in:					
Total livestock- - - - -	2 517	1 915	1 594	1 629	1 662
Cattle - - - - -	1 094	802	674	748	739
Hogs - - - - -	785	592	393	341	410
Poultry- - - - -	144	115	77	86	59
Gross income per farm - - - - -	2 820	1 543	1 223	2 638	2 594
Income per farm from:					
Crops- - - - -	---	---	---	733	-158
Miscellaneous income - - - -	92	63	74	52	6
Total livestock- - - - -	2 728	1 480	1 149	1 853	2 446
Cattle - - - - -	220	38	239	323	592
Dairy sales- - - - -	419	390	165	261	201
Hogs - - - - -	1 861	861	597	1 077	1 437
Poultry- - - - -	203	166	116	113	61
					130
Average yield of corn in bu.- - -	29	39	50	45	6
Average yield of oats in bu.- - -	30	41	40	25	4
Average yield of wheat in bu. - -	20	23	12	19	15

ANNUAL FARM BUSINESS REPORT ON THIRTY-THREE FARMS
IN HANCOCK COUNTY, ILLINOIS, 1934

P. E. Johnston, J. B. Andrews, and T. R. Hedges*

The farm earnings of 33 account-keeping farmers in Hancock County showed an increase in 1934 over those of 1933. This is the second consecutive year of improvement in the business of these farms. The three years previous to 1933 showed very low returns.

These 33 accounts show for 1934 an average net income of \$1,365 per farm, as compared with an average of \$928 in 1933, and an average net loss of \$388 in 1932. The average cash income in 1934 was \$3,909 per farm, the cash business expenditures \$2,196 per farm, leaving a cash balance of \$1,713 to meet interest payments and family living expenses. (Those who keep home account books use the latter figure to represent the cash contribution of the farm to the "realized family income".) Besides the cash income, there was an inventory increase of \$342 per farm due to the rise in the prices of farm products. This increase, added to the cash balance, resulted in an average excess of receipts over expenses of \$2,055 per farm. The inventory increase was a smaller part of the total farm income in 1934 than in 1933.

These data must not be considered representative of average farm conditions, for they were secured from farms which are larger than average, and which were managed by farmers who are more efficient than the average of all farmers in the county.

For the state as a whole, farm earnings were better in 1934 than in 1933 in spite of the fact that corn and oat yields were very low due to drouth and to chinch bug damage. In the western and southwestern parts of the state the drouth caused an almost total failure of both corn and oats. This accounts for farm earnings being lower there than in other parts of the state.

The corn crop was best in the southeastern part of the state, and was fair in the northwestern section. Wheat yields were particularly good in the south and central portions of the state. Soybean yields were very good throughout the state, and there was a larger than normal acreage in Illinois in 1934. This state produced over half of the nation's 1934 crop of soybeans.

Chinch bug damage extended over most of the state last year, but was much more severe in some sections than in others, and was much worse on some farms than on other farms in the same community. Conditions affecting crop yields were very spotted. This accounts in part for the wide variation in farm earnings from one section of the state to another, and the wider variations than usual from one farm to another.

* T. H. Hafer, farm adviser in Hancock County, cooperated in supervising and collecting the records on which this report is based.

Industries other than agriculture again showed improved earnings over the previous year. A group of 840 industrial corporations reported by a nationally known bank showed average earnings of 5.0 percent on their invested capital in 1934, as compared with 3.4 percent for the same corporations in 1933. A similar group had a loss of one-tenth of one percent in 1932 and average earnings of 3.3 percent in 1931.

In comparing the average earnings of corporations with the rate earned on investment on accounting farms it is well to keep in mind that in corporation accounting, charges are made for management, while in the farm accounts no comparable deduction has been made. On the other hand the farmer and his family receive food, fuel, and other items of living from the farm for which the farm has received no credit in the records used in this report. For the average central Illinois farm family, consisting of five persons, the value of the food and fuel furnished by the farm was about \$250 in 1934, when estimated on the basis of the wholesale price for farm products.

Variations in Farm Incomes

There was a much wider range in farm earnings on the accounting farms in 1934 than in 1933. This was true for the farms included in this report, and was also true when the average earnings of farms in one section of the state are compared with the earnings of farms in other areas.

The extremely wide range in earnings was due to a combination of physical and economic factors. The average yields of wheat and soybeans were much better, compared with the five-year average, than the average yields of corn and oats. This variation favored those sections which had larger acreages of the higher yielding crops in 1934. There was also a wide range in average corn yields from one section of the state to another, as well as between individual farms in the same area. The price of grains was high in 1934 as compared with prices of livestock and livestock products. Farms where grain sales constitute a large part of the farm income thus had an advantage. The rapid increase in the prices of farm products, particularly grains, favored those farms which had large stocks of salable products on hand at the beginning of the year. Many farmers who inventoried the corn on hand at the beginning of 1934 at 40 cents a bushel, later sold this corn for 80 cents.

In this group of 33 accounting farms the most successful third shows an average net income of \$2,181 while the average net income of the least successful third of the farms was only \$743. In 1933 the comparable net incomes for the two groups was \$1,749, and \$99 respectively.

Investments, Receipts, Expenses and Earnings on 33
Hancock County Farms in 1934

Items	Your farm	Average of 33 farms	11 most profitable farms	11 least profitable farms
CAPITAL INVESTMENTS				
Land - - - - -		21 313	19 799	26 105
Farm improvements- - - - -		3 758	3 568	4 645
Livestock total- - - - -		<u>1 647</u>	<u>1 529</u>	<u>1 495</u>
Horses - - - - -		394	304	399
Cattle - - - - -		720	725	575
Hogs - - - - -		415	406	383
Sheep- - - - -		54	32	79
Poultry- - - - -		64	62	59
Machinery and equipment- - - - -		1 301	1 192	984
Feed and grains- - - - -		1 538	1 641	1 389
Total capital investment	\$	<u>\$29 557</u>	<u>\$27 729</u>	<u>\$34 618</u>
RECEIPTS AND NET INCREASES				
Livestock total- - - - -		<u>2 641</u>	<u>2 544</u>	<u>2 746</u>
Horses - - - - -		15	21	21
Cattle - - - - -		503	531	667
Hogs (including AAA payments)-		1 593	1 524	1 489
Sheep- - - - -		82	45	115
Poultry- - - - -		76	71	78
Egg sales- - - - -		85	81	73
Dairy sales- - - - -		287	271	303
Feed and grains (including AAA payments) - - - - -		476	1 187	---
Labor off farm - - - - -		69	93	33
Miscellaneous receipts - - - - -		2	---	2
Total receipts & net increases	\$	<u>\$ 3 188</u>	<u>\$ 3 824</u>	<u>\$ 2 781</u>
EXPENSES AND NET DECREASES				
Farm improvements- - - - -		183	130	218
Horses - - - - -		---	---	---
Miscellaneous livestock decreases		---	---	---
Machinery and equipment- - - - -		305	260	312
Feed and grains- - - - -		---	---	120
Livestock expense- - - - -		63	30	131
Crop expense - - - - -		138	132	134
Hired labor- - - - -		211	249	154
Taxes- - - - -		208	206	230
Miscellaneous expenses - - - - -		25	21	33
Total expenses & net decreases	\$	<u>\$ 1 133</u>	<u>\$ 1 028</u>	<u>\$ 1 332</u>
RECEIPTS LESS EXPENSES-				
Total unpaid labor- - - - -		690	615	706
Operator's labor - - - - -		513	503	540
Family labor - - - - -		177	112	166
Net income from investment and management - - - - -		1 365	2 181	743
PERCENTAGE EARNED ON INVESTMENT - - - - -	%	<u>4.61%</u>	<u>7.87%</u>	<u>2.15%</u>
Net return to capital and operator's labor and management - - - - -		1 878	2 624	1 283
Percentage of capital invested- - - - -		1 478	1 386	1 731
LABOR AND MANAGEMENT WAGE - - - - -	\$	<u>\$ 400</u>	<u>\$ 1 298</u>	<u>\$ -448</u>

The following table shows the number of farms having certain net incomes per acre. There was a marked difference between the most successful and the least successful farms.

<u>Average net in-</u> <u>come per acre</u>	<u>Number of</u> <u>farms</u>	<u>Average net in-</u> <u>come per acre</u>	<u>Number of</u> <u>farms</u>
\$15	1	\$5	7
13	4	3	9
11	4	1	2
9	1	-1	1
7	4		

A further study of the farm businesses made by comparing the investments, receipts, and expenses of the group of farms with the highest net incomes with those having the lowest should throw some light on the question of why some farmers are more successful than others. This comparison is shown in the table on page 3.

The most profitable farms had a smaller total capital investment than either the least profitable farms or the average of all accounting farms. Despite the smaller investment, the most profitable farms had higher total receipts and net increases than either the least profitable farms or the average of all farms. The larger receipts and net increases from feed and grain was a major factor in accounting for this difference. The total operating expenses per acre, including the charge for family labor, was less on the most profitable farms than on the least profitable group.

Changes in Inventories and Inventory Values

The year-1934 was similar to 1933 in that the prices of farm products continued to advance, causing further increases in inventory values. Owing to the poor crop yields in 1934 there were fewer bushels of grain on hand to inventory at the end of the year than at the beginning. The value of the smaller amount of grain, however, was greater than for the larger amount on hand at the beginning of the year.

Bushels of Corn Inventoried

	Jan. 1, 1934	Dec. 31, 1934
Average of all farms	2 348	813
Average of 11 most successful farms . . .	2 721	1 328
Average of 11 least successful farms . . .	2 187	411
Your farm		

The difference in quantities of grain inventoried was one of the factors influencing the difference in earnings. The most profitable farms had a larger inventory of corn, both at the beginning and at the end of the year, than did the least profitable farms. This difference accounted for a considerable part of their higher receipts and net increases from feed and grains.

The average inventory increase for the accounting farms in Hancock County was \$342 in 1934, as compared with \$279 in 1933, and an inventory loss of \$721 per farm in 1932. There were increases of \$135 in total livestock, and \$253 in feed and grain, while improvements showed a decrease of \$29 and machinery, a decrease of \$17. The decrease in machinery and improvements was the smallest it has been since 1930, indicating that more of the necessary repairs and replacements are being made, but still not enough to offset the depreciation costs.

Inventory Changes for 1934

Items	Beginning inventory 1-1-34	Closing inventory 12-31-34	Inventory changes 1934	Inventory changes, your farm
Total livestock.	\$1 647	\$1 782	\$135	\$
Feed and grains.	1 538	1 791	253	
Machinery.	1 301	1 284	-17	
Improvements (except residence).	<u>3 758</u>	<u>3 729</u>	<u>-29</u>	
Total.	\$3 244	\$3 586	\$342	\$

Some Adjustments on Hancock County Farms Since 1929

Farmers have been forced to make adjustments in their cash expenditures as the result of changes in their cash incomes. From 1929 through 1933 farm operating costs declined each year, but the year 1934 brought a reversal of this trend. Total operating expenses were \$1.06 an acre higher in 1934 than in 1933, while cash operating expenses were \$2,196 per farm in 1934, as compared with \$1,509 in 1933. This increase in cash operating expenses can be attributed very largely to the increase in cash expenditures for feed and grains, and for machinery and supplies for machinery. The increase in expenditures for feed and grains may be attributed to the drouth. Indications point to an expansion of spending for 1935, particularly for machinery and improvements, since farmers have postponed replacements and repairs of these items during the five-year period since 1929.

Cash Income and Expenses on Accounting Farms in Hancock County for 1929 and 1934

Items	Your farm	Average cash expenses per farm		Your farm	Average cash income per farm	
	1934	1934	1929	1934	1934	1929
Livestock	\$	\$ 240	\$ 829	\$	\$2 746	\$4 215
Feed and grains		798	632		1 021	1 542
Machinery		359	746		71	223
Improvements.		154	295		---	8
Labor		211	437		69	44
Miscellaneous		25	30		2	11
Livestock expense		63	43		---	---
Crop expense.		138	251		---	---
Taxes		208	313		---	---
Total	\$	\$2 196	\$3 576	\$	\$3 909	\$6 043
Excess of cash sales over expenses.	\$			\$	\$1 713	\$2 476
Increase in inventory					342	698
Income to labor and capital (Receipts less expenses).					2 055	3 165

The cumulative effect of several years of low agricultural prices on the demand for manufactured goods can readily be ascertained by a comparison of cash expenditures in 1934 with those in 1929. The average accounting farm in Hancock County spent 59 percent of the cash income as operating expenses in 1929, while in 1934 the average accounting farm spent 55 percent. The relationship, therefore, between cash income and expenses for the two years is practically the same, but the 1934 cash income and expenses are only 61 percent as large as 1929. There was, however, considerable difference in the distribution of the expense items. In 1934 livestock purchases were 29 percent, and feed and grain purchases 126 percent as large as in 1929. In 1934 these farms paid out 48 percent as much for machinery, and 55 percent as much for crop expense as in 1929, while taxes were reduced to 66 percent of the 1929 level.

Comparison of Farms With High and Low Earnings

After deducting total expenses and net decreases, including family labor, from receipts and net increases, there remained a net increase of \$11.14 per acre for the most profitable farms, as compared with \$3.27 per acre for the least profitable farms. This represents a return on capital invested in the farm business of 7.67 percent on the most profitable farms, and 2.15 percent on the least profitable farms. The reasons for this difference may be obtained from a study of the data on pages 3 and 8.

The most profitable farms averaged 31.4 acres smaller, but they had a larger proportion of their land area tillable, and had 148.6 crop acres, as compared with 155 crop acres on the least profitable farms. The most profitable farms carried larger inventories of feed and grains on which to make a profit when prices advanced. One reason for the larger inventories was the higher crop yields, there being an advantage of 4.7 bushels of corn, and 0.7 bushels of oats in favor of the high profit group. The least profitable farms had a higher yield of wheat, but the difference in acreage between the two groups was very small.

The most profitable farms had an investment of \$6.46 per acre in productive livestock, as compared with an investment of \$5.18 per acre on the least profitable farms. The most profitable farms fed \$1,370 of feed to productive livestock, securing a return of \$135 for each \$100 worth of feed fed, while the least profitable farms fed \$2,057 of feed, securing a return of \$132 for each \$100 worth of feed fed. The most profitable farms saved 6.4 pigs per litter, and secured a return of \$112 per litter farrowed, as compared with 5.7 pigs per litter and a return of \$78 per litter farrowed on the least profitable farms.

Higher total operating expenses on the least profitable farms amounting to 58 cents an acre was an important factor in the reduced net earnings of this group. Every item of expenses and net decreases except hired labor was higher on the least profitable farms. Man labor costs per crop acre were \$5.42 on the most profitable farms, as compared with \$5.34 on the least profitable farms, while power and machinery costs per crop acre amounted to \$2.98 on the most profitable farms, and \$3.72 on the least profitable farms.

Influence of AAA Programs on Cropping Systems and Farm Incomes

The farm-account records in Illinois were influenced both directly and indirectly by the corn-hog and wheat adjustment programs. A large percentage of accounting farms was under one or both contracts in 1934. The acreages of corn and wheat on these farms were therefore less than normal. This should have resulted in lower operating costs. Corn-hog benefit payments for the entire 1934 program will total about 40 million dollars for the state, while wheat benefit payments will be about 2.4 million dollars.

The benefit payments for accounting farms are indicated in the following table, which shows the average payment for those farms receiving payments, and includes only those payments received by the cooperator before the 1934 books were closed. In some cases only the first corn-hog check is included, while in other cases the second check had been received. The second payments not received, and the third payments will be entered in the 1935 book.

AAA Benefit Payments Received in 1934

	Corn		Wheat		Hogs		Average of all payments ^{1/}
	Number of farms	Amount per farm	Number of farms	Amount per farm	Number of farms	Amount per farm	
1/3 most profitable farms	11	\$133	1	\$11	11	\$198	\$332
1/3 least profitable farms	10	111	1	39	10	214	299
All accounting farms	32	122	5	53	32	213	334

^{1/} Total benefit payments reported by accounting farms under contract for 1934 divided by total number of accounting farms.

On most farms the cash received from benefit payments will more than pay for the year's taxes. As an average for all accounting farms, the payments actually received were \$126 more than sufficient to pay the 1934 taxes.

It is interesting to note the use made of the contracted acres on the accounting farms. The average farm had 19.3 contracted acres which were used as follows: 3.6 idle; 6.4 mixed clover and timothy; 1.1 sweet clover; 3.4 soybeans; 2.6 alfalfa; and 2.2 acres were in other crops. These data indicate that most farmers made good use of their contracted acres from the standpoint of soil improvement, as a large part of them were in legumes. When the Government restrictions on the use of crops grown on contracted acres were removed, they were on many farms the most profitable crops as they furnished hay and pasture where badly needed in drouth areas. The legumes had the further advantage of being immune to attack from chinch bugs.

Farm earnings were influenced indirectly by the AAA programs in that the reduction in production increased the price of the commodities involved. The drouth was a more important factor in reducing production than the adjustment programs, yet if it had not been for the corn-sealing program, there would have been but little corn in the hands of farmers at the time the major price advance became effective.

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Factors Helping to Analyze the Farm Business on 33
Hancock County Farms in 1934

Items	Your farm	Average of 33 farms	11 most profitable farms	11 least profitable farms
Size of farms--acres - - - - -	_____	216.3	195.8	227.2
Percent of land area tillable- - - - -	_____	87.6	92.4	84.1
Percent of tillable land in hay and pasture - - - - -	_____	39.1	36.4	36.1
Gross receipts per acre- - - - -	_____	\$ 14.70	\$ 19.53	\$ 12.24
Total expenses per acre- - - - -	_____	8.40	8.39	8.97
Net receipts per acre- - - - -	_____	6.30	11.14	3.27
Value of land per acre - - - - -	_____	98	101	115
Total investment per acre- - - - -	_____	136	142	152
Acres in Corn- - - - -	_____	44.7	44.0	46.7
Oats- - - - -	_____	28.4	32.3	24.9
Wheat - - - - -	_____	8.7	8.8	10.3
Soybeans- - - - -	_____	19.9	12.9	21.8
Hay - - - - -	_____	33.2	33.6	33.0
Tillable pasture- - - - -	_____	41.1	32.3	36.0
Crop yields--Corn, bu. per acre- - - - -	_____	10.6	12.7	8.0
Oats, bu. per acre- - - - -	_____	10.0	12.5	11.8
Wheat, bu. per acre - - - - -	_____	20.2	18.2	20.9
Value of feed fed to productive L.S. - - - - -	_____	2 024	1 870	2 057
Returns per \$100 of feed fed to productive livestock- - - - -	_____	130	135	132
Returns per \$100 invested in:				
Cattle- - - - -	_____	109	106	163
Poultry - - - - -	_____	237	238	236
Pigs weaned per litter - - - - -	_____	5.9	6.4	5.7
Income per litter farrowed - - - - -	_____	93	112	78
Dairy sales per dairy cow- - - - -	_____	42	39	52
Investment in productive L.S. per A. - - - - -	_____	6.10	6.46	5.18
Receipts from productive L.S. per A. - - - - -	_____	12.11	12.89	11.99
Man labor cost per crop acre - - - - -	_____	5.81	5.42	5.34
Machinery cost per crop acre - - - - -	_____	2.05	1.75	2.01
Power and mach. cost per crop A. - - - - -	_____	3.67	2.93	3.72
Farms with tractor - - - - -	_____	75.7%	91%	64%
Value of feed fed to horses- - - - -	_____	257	204	285
Man labor cost per \$100 gross income- - - - -	_____	27	21	30
Expenses per \$100 gross income - - - - -	_____	57	45	73
Farm improvements cost per acre- - - - -	_____	.84	.66	.96
Excess of sales over cash expenses. - - - - -	_____	1 713	1 931	1 652
Increase in inventory- - - - -	_____	342	865	-203
Rate earned on investment- - - - -	_____	4.61%	7.87%	2.15%
Gross receipts per farm- - - - -	_____	3 188	3 824	2 781

Chart for Studying the Efficiency of Various Parts of Your Business,
Hancock County, 1934

The numbers above the lines across the middle of the page are the averages for the 3 farms included in this report for the factors named at the top of the page. By drawing a line across each column at the number measuring the efficiency of your farm in that factor, you can compare your efficiency with that of other farmers in our locality.

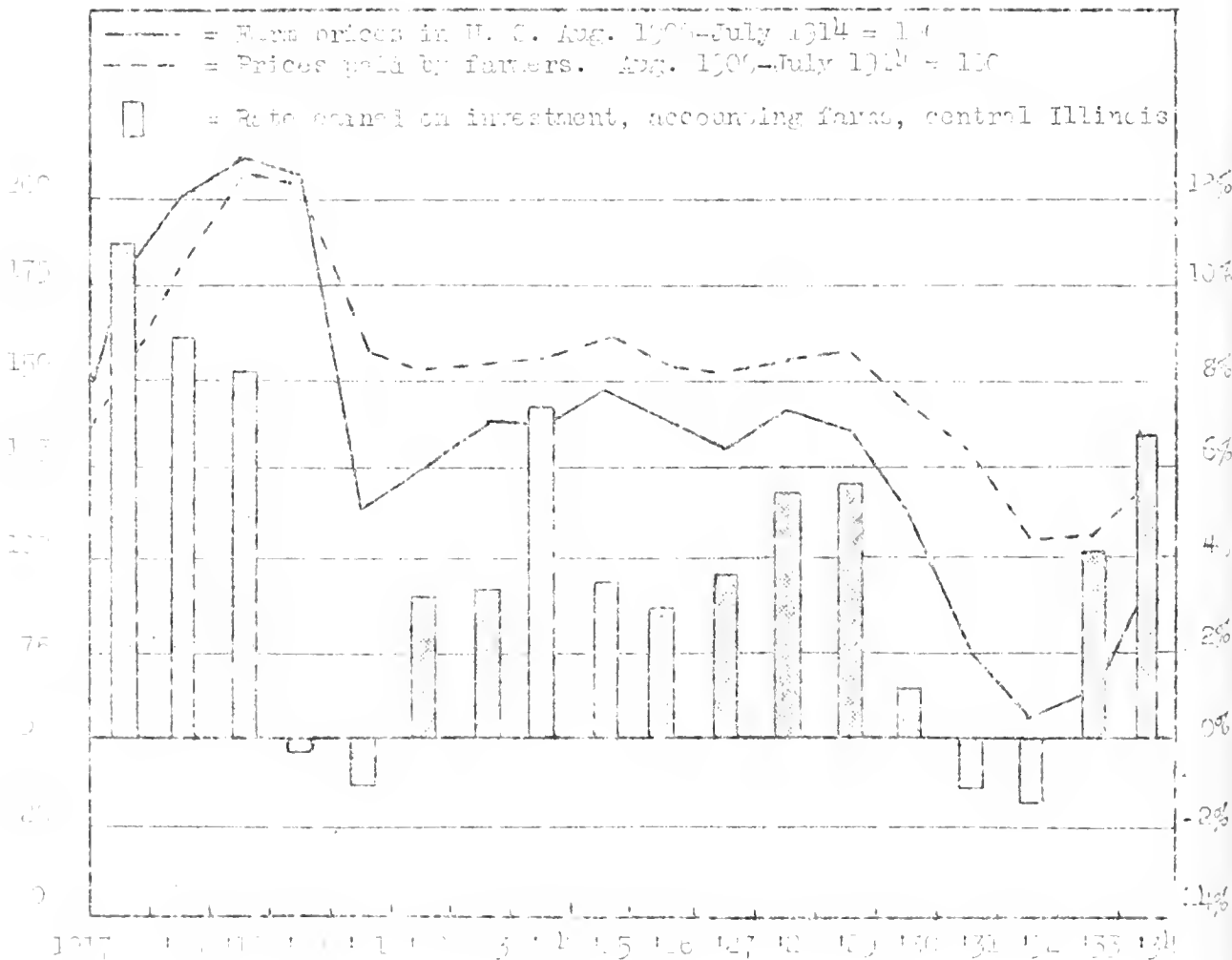
Rate earned on investment	Bushels per acre			Hogs: Income per litter	Dairy sales per dairy cow	Poultry income per \$100 invested	L.S. income per \$100 of feed fed	Cost per crop acre		Labor cost per \$100 gross receipts	Increase in inventory	Sales over cash expenses	Gross receipts		Acres in farm
	Corn	Oats	Wheat					Labor	Power and machinery				Per acre	Per farm	
2.11	21	20	30	143	72	437	190	--	--	2	2350	4200	30	6200	1420
0.61	19	18	28	133	66	397	178	1.00	--	7	1950	3700	27	5600	380
9.11	17	16	26	123	60	357	166	2.20	.67	12	1550	3200	24	5000	340
7.61	15	14	24	113	54	317	154	3.40	1.67	17	1150	2700	21	4400	300
6.11	13	12	22	103	48	277	142	4.60	2.67	22	750	2200	18	3800	260
4.61	10.6	10.0	20.2	93	42	237	130	5.81	3.67	27	342	1713	14.70	3188	216.8
3.11	9	8	18	83	36	197	118	7.00	4.67	32	-50	1200	12	2600	180
1.61	7	6	16	73	30	157	106	8.20	5.67	37	-450	700	9	2000	140
.11	5	4	14	63	24	117	94	9.40	6.67	42	-850	200	6	1400	100
1.39	3	2	12	53	18	77	82	10.60	7.67	47	-1250	-300	3	800	60
2.89	1	0	10	43	12	37	70	11.80	8.67	52	-1650	-800	0	200	20

Influence of Price Changes on Farm Earnings

Farm prices in 1934 advanced more rapidly than did the prices of commodities which farmers bought. Farmers of the United States as a group could exchange their farm products in 1934 for 74 percent as many goods as for the period 1909-1914, while in 1933 they received only 64 percent, and 1932 only 51 percent as much in exchange for what they had to sell as in the earlier period. In the month of February, 1935, this index of purchasing power had increased to 67 percent of former, the index of farm prices having risen to 111 as compared with an index of 127 for commodities which farmers buy. When the line representing farm prices drops below the line representing prices paid by farmers, farm earnings are very low, but when these lines come close together farm earnings increase. (See following graph.)

Index of Prices

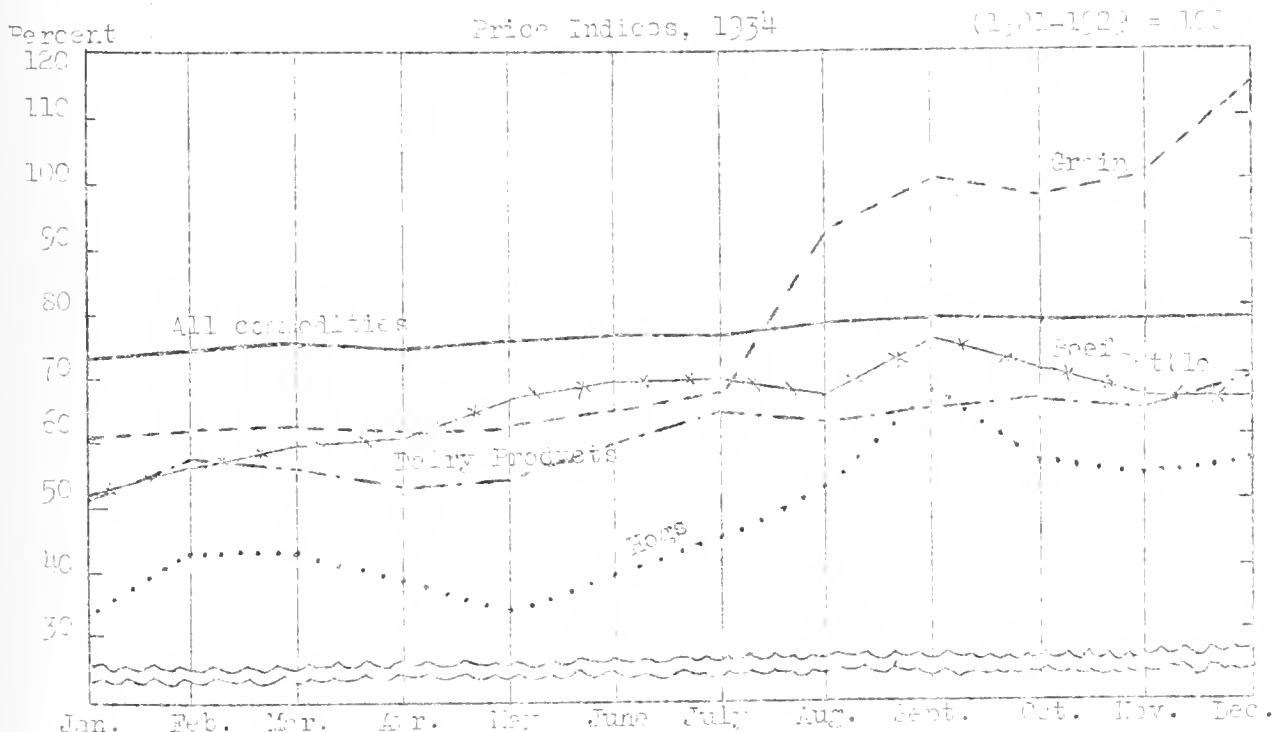
Rate Earned



Since the price of some farm products advanced much more rapidly during 1934 than other products, it is evident that some farms would benefit more than others, depending upon the kind and quantity of products sold. Grain prices advanced much more rapidly than livestock prices; which resulted in a very bad price ratio for farmers who buy large quantities of feed. The average Illinois farm price of corn was 41 cents a bushel in January, 1934; it advanced steadily until the end of the year when it was 75 cents a bushel. Other grains made marked advance although not so great an advance as corn. The price of hogs fluctuated from a low of \$7.00 a hundred in May to a high of \$8.30 in September. The low point in the fall came in November when the average price was \$7.10. The price has advanced quite rapidly since November, the average price being \$7.50 for February, 1935. Beef cattle were worth \$4.10 a hundred in January, 1934 and advanced each month until September, when the price was \$5.30. They dropped to \$3.10 in December but increased again to \$7.40 for February, 1935.

The year 1934 set a record for the reduction in the numbers of livestock. The percentage decreases by species were as follows: horses, 1.1 percent; mules, 2.6 percent; all cattle, 11.2 percent; sheep, 4.7 percent; hogs, 35.3 percent. When all species are combined on the basis of their capacity to consume feed, the reduction was 13 percent. This reduction will greatly reduce the demand for feeds produced in 1935.

The relative change in prices of important commodities may be noted in the following graph, which shows the average Illinois farm prices by months as a percentage of the average prices for the period 1921-1929.



All commodities index represents the wholesale price of a large number of commodities for the United States, as computed by Bureau of Labor Statistics. Grain and livestock indices represent average monthly farm prices in Illinois.

Variation in Earnings Over Five-Year Period

A comparison of production, income, and expenditures on the accounting farms in Hancock County for the last five years is very interesting because of the violent fluctuations in price level. Although the 1934 crop was nearly a failure, and followed the smaller than average crop of 1933, the increased prices of both grain and livestock caused the 1934 earnings to be the highest for the five-year period 1930-1934.

Earnings in 1935 as usual, will depend upon individual efficiency, weather, and prices. With normal weather conditions, prices of grain are likely to go down to a more normal level which will give individual efficiency the responsibility for higher earnings on each farm.

Comparison of Earnings and Investments on Accounting Farms in
Hancock County for 1930-1934

Items	1930	1931	1932	1933 ^{1/}	1934
Number of farms - - - - -	30	30	30	33	33
Average size of farms, acres - - -	203	195	197	206	217
Average rate earned, to pay for management, risk and capital - -	2.1%	-1.7%	-1.3%	3.6%	4.6%
Average labor and management wage	\$-526	\$-1 731	\$-1 351	\$132	\$400
Gross income per acre - - - - -	15.95	7.93	6.17	11.85	14.70
Operating cost per acre - - - - -	11.69	10.93	8.14	7.34	8.40
Average value of land per acre - -	147	128	112	92	98
Total investment per acre - - - -	202	175	151	126	136
Investment per farm in:					
Total livestock- - - - -	3 136	2 281	1 670	1 558	1 647
Cattle - - - - -	1 484	920	713	671	720
Hogs - - - - -	1 004	798	430	384	415
Poultry- - - - -	151	100	84	65	64
Gross income per farm - - - - -	3 310	1 549	1 216	2 439	3 188
Income per farm from:					
Crops- - - - -	419	---	---	755	476
Miscellaneous income - - - -	40	23	42	43	2
Total livestock- - - - -	2 851	1 526	1 174	1 641	2 641
Cattle - - - - -	233	129	231	276	503
Dairy sales- - - - -	466	209	146	156	287
Hogs - - - - -	1 960	1 042	669	1 049	1 593
Poultry- - - - -	190	133	91	128	76
Average yield of corn in bu.- - -	34	44	52	38	11
Average yield of oats in bu.- - -	39	29	41	28	10

^{1/} Records from Hancock and Schuyler Counties included for 1933.

ANNUAL FARM BUSINESS REPORT ON SIXTY FARMS
IN HENRY, STARK, AND BUREAU COUNTIES, ILLINOIS, 1934

P. E. Johnston, E. L. Sauer, and J. Ackerman*

The farm earnings of 60 account-keeping farmers in Henry, Stark, and Bureau Counties showed an increase in 1934 over those of 1933. This is the second consecutive year of improvement in the business of these farms. The three years previous to 1933 showed very low returns.

These 60 accounts show for 1934 an average net income of \$2,373 per farm, as compared with an average of \$1,710 in 1933, and an average net loss of \$477 in 1932. The average cash income in 1934 was \$4,563 per farm, the cash business expenditures \$2,209 per farm, leaving a cash balance of \$2,354 to meet interest payments and family living expenses. (Those who keep home account books use the latter figure to represent the cash contribution of the farm to the "realized family income".) Besides the cash income, there was an inventory increase of \$702 per farm due to the rise in the prices of farm products. This increase, added to the cash balance, resulted in an average excess of receipts over expenses of \$3,056 per farm. The inventory increase was a smaller part of the total farm income in 1934 than in 1933.

These data must not be considered representative of average farm conditions, for they were secured from farms which are larger than average, and which were managed by farmers who are more efficient than the average of all farmers in the county.

For the state as a whole, farm earnings were better in 1934 than in 1933, in spite of the fact that corn and oat yields were very low due to drouth and to chinch bug damage. In the western and southwestern parts of the state the drouth caused an almost total failure of both corn and oats. This accounts for farm earnings being lower there than in other parts of the state.

The corn crop was best in the southeastern part of the state, and was fair in the northwestern section. Wheat yields were particularly good in the south and central portions of the state. Soybean yields were very good throughout the state, and there was a larger than normal acreage in Illinois in 1934. This state produced over half of the nation's 1934 crop of soybeans.

Chinch bug damage extended over most of the state last year, but was much more severe in some sections than in others, and was much worse on some farms than on other farms in the same community. Conditions affecting crop yields were very spotted. This accounts in part for the wide variation in farm earnings from one section of the state to another, and the wider variations than usual from one farm to another.

*H. K. Danforth, Wayne N. Gilbert, and Paul V. Dean, farm advisers in the above Counties, cooperated in supervising and collecting the records on which this report is based.

Industries other than agriculture again showed improved earnings over the previous year. A group of 840 industrial corporations reported by a nationally known bank showed average earnings of 5.0 percent on their invested capital in 1934, as compared with 3.4 percent for the same corporations in 1933. A similar group had a loss of one-tenth of one percent in 1932, and average earnings of 3.3 percent in 1931.

In comparing the average earnings of corporations with the rate earned on investment on accounting farms, it is well to keep in mind that in corporation accounting, charges are made for management, while in the farm accounts no comparable deduction has been made. On the other hand the farmer and his family receive food, fuel, and other items of living from the farm for which the farm has received no credit in the records used in this report. For the average central Illinois farm family, consisting of five persons, the value of the food and fuel furnished by the farm was about \$250 in 1934, when estimated on the basis of the wholesale price for farm products.

Variations in Farm Incomes

There was a much wider range in farm earnings on the accounting farms in 1934 than in 1933. This was true for the farms included in this report, and was also true when the average earnings of farms in one section of the state are compared with the earnings of farms in other areas.

The extremely wide range in earnings was due to a combination of physical and economic factors. The average yields of wheat and soybeans were much better, compared with the five-year average, than the average yields of corn and oats. This variation favored those sections which had larger acreages of the higher yielding crops in 1934. There was also a wide range in average corn yields from one section of the state to another, as well as between individual farms in the same area. The price of grains was high in 1934 as compared with prices of livestock and livestock products. Farms where grain sales constitute a large part of the farm income thus had an advantage. The rapid increase in the prices of farm products, particularly grains, favored those farms which had large stocks of salable products on hand at the beginning of the year. Many farmers who inventoried the corn on hand at the beginning of 1934 at 40 cents a bushel, later sold this corn for 80 cents.

In this group of 60 accounting farms, the most successful third shows an average net income of \$3,699, while the average net income on the least successful third of the farms was \$938. In 1933 the comparable net income for the groups was \$2,679, and \$787 respectively. Figured on a cash basis the most successful farms had on an average, \$1,228 more cash income left with which to meet interest payments and family living expenses in 1934, than did the least successful farms.

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Investments, Receipts, Expenses and Earnings on 60
Henry, Stark, and Bureau County Farms in 1934

Items	Your farm	Average of 60 farms	20 most profitable farms	20 least profitable farms
CAPITAL INVESTMENTS				
Land - - - - -		23 676	21 700	23 426
Farm improvements- - - - -		4 739	4 129	5 066
Livestock total- - - - -		2 080	1 731	1 984
Horses - - - - -		395	351	421
Cattle - - - - -		1 024	824	882
Hogs - - - - -		498	487	397
Sheep- - - - -		99	37	224
Poultry- - - - -		64	22	60
Machinery and equipment- - - -		1 457	1 317	1 194
Feed and grains- - - - -		1 992	2 249	1 603
Total capital investment	\$	\$33 950	\$31 176	\$33 273
RECEIPTS AND NET INCREASES				
Livestock total- - - - -		3 076	3 424	2 242
Horses - - - - -		44	44	10
Cattle - - - - -		870	905	564
Hogs (including AAA payments)		1 581	1 224	1 180
Sheep- - - - -		147	104	164
Poultry- - - - -		91	39	38
Egg sales- - - - -		79	128	49
Dairy sales- - - - -		264	340	187
Feed and grains (including AAA payments) - - - - -		1 022	1 773	493
Labor off farm - - - - -		94	160	57
Miscellaneous receipts - - - - -		2	1	3
Total receipts & net increases	\$	\$ 4 194	\$ 5 367	\$ 2 795
EXPENSES AND NET DECREASES				
Farm improvements- - - - -		196	176	193
Horses - - - - -		---	---	---
Miscellaneous livestock decreases		---	---	---
Machinery and equipment- - - - -		340	253	365
Feed and grains- - - - -		---	---	---
Livestock expense- - - - -		34	33	27
Crop expense - - - - -		122	114	128
Hired labor- - - - -		184	135	197
Taxes- - - - -		238	238	255
Miscellaneous expenses - - - - -		24	25	23
Total expenses & net decreases	\$	\$ 1 138	\$ 954	\$ 1 138
RECEIPTS LESS EXPENSES-				
	\$	\$ 3 056	\$ 4 414	\$ 1 607
Total unpaid labor- - - - -		683	715	669
Operator's labor - - - - -		531	537	539
Family labor - - - - -		152	178	130
Net income from investment and management - - - - -		2 373	3 699	938
PERCENTAGE EARNED ON INVESTMENT - - - - -	%	6.99%	11.36%	2.82%
Return to capital and operator's labor and management - - - - -		2 904	4 236	1 477
% of capital invested- - - - -		1 697	1 559	1 664
LABOR AND MANAGEMENT WAGE - - - - -	\$	\$ 1 207	\$ 2 677	\$ -187

The following table shows the number of farms having certain net incomes per acre. There was a marked difference between the most successful and the least successful farms.

<u>Average net in-</u> <u>come per acre</u>	<u>Number of</u> <u>farms</u>	<u>Average net in-</u> <u>come per acre</u>	<u>Number of</u> <u>farms</u>
\$25 and over	4	\$11	6
21.	2	9	6
19.	2	7	5
17.	3	5	3
15.	8	3	7
13.	10	1 and under	4

A further study of the farm businesses made by comparing the investments, receipts, and expenses of the group of farms with the highest net incomes, with those having the lowest should throw some light on the question of why some farmers are more successful than others. This comparison is shown in the table on page 3.

The most successful farms averaged 207 acres each, the least successful 220 acres. This group, chiefly because of the smaller acreage and the lower value on the land, had a smaller total investment than either the least profitable farms or the average of all accounting farms. However, the most profitable farms had a larger average investment in total livestock and in feed and grains. The difference in receipts from feed and grains, hogs, cattle, and dairy products accounts for most of the difference in income between the two groups. The total expenses per farm and per acre, including the charge for family labor, was less on the most profitable farms than on the least profitable farms.

Changes in Inventories and Inventory Values

The year 1934 was similar to 1933 in that the prices of farm products continued to advance, causing further increases in inventory values. Owing to the poor crop yields in 1934 there were fewer bushels of grain on hand to inventory at the end of the year than at the beginning. The value of the smaller amount of grain, however, was greater than for the larger amount on hand at the beginning of the year.

Bushels of Corn Inventoried

	<u>Jan. 1, 1934</u>	<u>Dec. 31, 1934</u>
Average of all farms.	3 319	1 699
Average of 20 most successful farms . .	3 873	2 641
Average of 20 least successful farms. .	2 386	792
Your farm		

The most profitable farms had a much larger inventory of corn both at the beginning and at the end of the year. This difference accounted for a considerable part of their higher receipts and net increases from feed and grains.

The average inventory increase for the accounting farms in Henry, Stark, and Bureau Counties was \$702 in 1934, as compared with \$761 in 1933, and an inventory loss of \$1,228 per farm in 1932. There were increases of \$410 in total livestock, \$362 in feed and grains, and \$19 in machinery, while improvements showed a decrease of \$89. Such an increase in inventory as that for machinery results from the value of new replacements during the year being in excess of depreciation costs. This increase is of considerable interest, for it is the first time that such an increase in machinery inventories has occurred since farm earnings began to decline so drastically with the general depression.

Inventory Changes for 1934

Items	Beginning inventory 1-1-34	Closing inventory 12-31-34	Inventory changes 1934	Inventory changes, your farm
Total livestock.	\$2 080	\$2 490	\$410	\$
Feed and grains.	1 998	2 360	362	
Machinery.	1 457	1 476	19	
Improvements (except residence).	4 739	4 650	-89	
Total.	\$10 274	\$10 976	\$702	\$

Some Adjustments on Henry, Stark, and Bureau County Farms Since 1929

Farmers have been forced to make adjustments in their cash expenditures as the result of changes in their cash incomes. Farm operating costs on Henry, Stark, and Bureau County account-keeping farms have declined each year since 1931. Total operating expenses were \$1.35 per acre lower in 1934 than in 1933, but cash operating expenses were \$2,209 per farm in 1934, as compared with \$2,132 in 1933. The largest increase in expenditure over the previous year was for machinery and supplies for machinery. Indications point to an even greater expansion of spending for these items in 1935, since farmers have postponed machinery replacements during the five-year period since 1929.

Cash Income and Expenses on Accounting Farms in Henry, Stark, and Bureau Counties for 1929 and 1934

Items	Your farm	Average cash expense per farm		Your farm	Average cash income per farm	
	1934	1934	1929	1934	1934	1929
Livestock	\$	\$ 628	\$1 483	\$	\$3 294	\$6 564
Feed and grains		420	830		1 080	919
Machinery		451	643		92	113
Improvements.		108	261		1	---
Labor		184	467		94	34
Miscellaneous		24	30		2	1
Livestock expense		34	56		---	---
Crop expense.		122	196		---	---
Taxes		238	338		---	---
Total	\$	\$2 209	\$4 304	\$	\$4 563	\$7 631
Excess of cash sales over expenses.	\$			\$	\$2 354	\$3 327
Increase in inventory					702	159
Income to labor and capital (Receipts less expenses).					3 056	3 486

The cumulative effect of several years of low agricultural prices on the demand for manufactured goods can readily be ascertained by a comparison of cash farm expenditures in 1934 with those in 1929. Although the average cash income in 1934 was 60.0 percent of that in 1929, cash expenditures were only 51 percent as large. In 1934 livestock purchases were 42 percent, and feed and grain purchases 50 percent as large as in 1929. In 1934 these farms paid out 70 percent as much for machinery, 41 percent as much for improvements, and 62 percent as much for crop expense as in 1929, while taxes were reduced to 70 percent of the 1929 level.

Comparison of Farms With High and Low Earnings

The most profitable farms in this study had net receipts per acre of \$17.29, as compared with \$4.27 for the least profitable group. The reasons for this difference may be obtained from a study of the data on pages 3 and 8.

The most profitable farms had more livestock, and were more efficient in their livestock operations than the least profitable farms. They had an investment of \$8.50 an acre in productive livestock, as compared with an investment of \$7.60 an acre on the least profitable farms. The most profitable farms fed \$2,315 worth of feed to productive livestock, securing a return of \$146 for each \$100 worth of feed fed, while the least profitable farms fed \$1,898 worth of feed, and secured only \$118 for each \$100 worth of feed fed. The most profitable farms had a return of \$132 for each \$100 invested in cattle, while the least profitable farms secured \$85 for each \$100 invested in cattle.

The most profitable farms, although having 13.1 fewer total acres, had 11.5 more crop acres than the least profitable farms. They had 9.7 acres more corn, and 12.4 acres more oats than the least profitable farms. The most profitable farms secured 11.1 bushels more corn per acre than the least profitable farms. Because of the larger crop acreage and the higher yields, the most profitable farms had larger inventories of feed and grain on which to make a profit when prices advanced. Crop yields were so low on the least profitable farms that they had an average inventory loss of \$121 per farm in the feed and grain account, in spite of the price advance.

The larger income on the most profitable farms was secured with a total operating cost of \$8.07 per acre, as compared with \$8.44 per acre on the least profitable farms. Man labor costs per crop acre were \$5.06 on the most profitable farms, as compared with \$5.69 on the least profitable farms, while power and machinery costs per crop acre amounted to \$2.70 on the most profitable farms, and \$3.24 on the least profitable farms.

Influence of AAA Programs on Cropping Systems and Farm Incomes

The farm-account records in Illinois were influenced both directly and indirectly by the corn-hog and wheat adjustment programs. A large percentage of accounting farms were under one or both contracts in 1934. The acreages of corn and wheat on these farms were therefore less than normal. This should have resulted in lower operating costs. Corn-hog benefit payments for the entire 1934 program will total about 40 million dollars for the state, while wheat benefit payments will be about 2.4 million dollars.

The benefit payments for accounting farms are indicated in the following table, which shows the average payment for those farms receiving payments, and includes only those payments received by the cooperator before the 1934 books were closed. In some cases only the first corn-hog check is included, while in other cases the second check had been received. The second payments not received, and the third payments will be entered in the 1935 book.

AAA Benefit Payments Received in 1934

	Corn		Wheat		Hogs		Average of all payments ^{1/}
	Number of farms	Amount per farm	Number of farms	Amount per farm	Number of farms	Amount per farm	
1/3 most profitable farms	19	\$137	1	\$43	20	\$191	\$524
1/3 least profitable farms	19	126	-	--	20	145	265
All accounting farms	58	142	1	43	60	178	316

^{1/} Total benefit payments reported by accounting farms under contract for 1934 divided by total number of accounting farms.

On most farms the cash received from benefit payments will more than pay for the year's taxes. As an average for all accounting farms, the payments actually received were \$78 more than sufficient to pay the 1934 taxes.

It is interesting to note the use made of the contracted acres on the accounting farms. The average farm had 19 contracted acres which were used as follows: 3.4 idle; 4.1 mixed clover and timothy; 2.2 sweet clover; 4.6 soybeans; 2.5 alfalfa; and 2.2 acres were in other crops. These data indicate that most farmers made good use of their contracted acres from the standpoint of soil improvement, as a large part of them were in legumes. When the Government restrictions on the use of crops grown on contracted acres were removed, they were on many farms the most profitable crops as they furnished hay and pasture where badly needed in drouth areas. The legumes had the further advantage of being immune to attack from chinch bugs.

Farm earnings were influenced indirectly by the AAA programs in that the reduction in production increased the price of the commodities involved. The drouth was a more important factor in reducing production than the adjustment programs, yet if it had not been for the corn-sealing program there would have been but little corn in the hands of farmers at the time the major price advance became effective.

Factors Helping to Analyze the Farm Business on 60
Henry, Stark, and Bureau County Farms in 1934

Items	Your farm	Average of 60 farms	20 most profitable farms	20 least profitable farms
Size of farms--acres - - - - -	_____	211.7	206.8	219.9
Percent of land area tillable- - -	_____	90.2	90.2	87.8
Percent of tillable land in hay and pasture - - - - -	_____	38.8	33.4	42.1
Gross receipts per acre- - - - -	_____	19.81	25.96	12.71
Total expenses per acre- - - - -	_____	8.60	8.07	8.44
Net receipts per acre- - - - -	_____	11.21	17.89	4.27
Value of land per acre - - - - -	_____	112	105	107
Total investment per acre- - - - -	_____	160	151	151
Acres in Corn- - - - -	_____	64.0	68.8	59.1
Oats- - - - -	_____	36.5	42.8	30.4
Wheat - - - - -	_____	.9	1.0	.2
Soybeans- - - - -	_____	6.7	4.5	10.0
Hay - - - - -	_____	31.2	29.5	30.4
Tillable pasture- - - - -	_____	42.9	32.8	50.8
Crop yields--Corn, bu. per acre- -	_____	31.3	35.9	24.8
Oats, bu. per acre- -	_____	4.3	4.2	3.1
Soybeans, bu. per acre	_____	15.5	14.3	17.4
Value of feed fed to productive L.S.	_____	2 333	2 315	1 898
Returns per \$100 of feed fed to productive livestock- - - - -	_____	130	146	118
Returns per \$100 invested in:				
Cattle- - - - -	_____	111	132	85
Poultry - - - - -	_____	236	252	201
Pigs weaned per litter - - - - -	_____	5.7	5.7	6.1
Income per litter farrowed - - - -	_____	111	113	113
Dairy sales per dairy cow- - - - -	_____	43	47	35
Investment in productive L.S. per A.	_____	8.84	8.50	7.60
Receipts from productive L.S. per A.	_____	14.32	16.39	10.15
Man labor cost per crop acre - - -	_____	5.54	5.06	5.69
Machinery cost per crop acre - - -	_____	2.29	1.65	2.57
Power and mach. cost per crop A. -	_____	3.44	2.70	3.94
Farms with tractor - - - - -	_____	72%	75%	55%
Value of feed fed to horses- - - -	_____	213	206	205
Man labor cost per \$100 gross income- - - - -	_____	20	15	29
Expenses per \$100 gross income - -	_____	43	31	66
Farm improvements cost per acre- -	_____	.93	.75	.88
Excess of sales over cash expenses	_____	2 354	2 786	1 558
Increase in inventory- - - - -	_____	702	1 828	49
Rate earned on investment- - - - -	_____	6.99%	11.86%	2.82%
Gross receipts per farm- - - - -	_____	4 194	5 368	2 795

Chart for Studying the Efficiency of Various Parts of Your Business,
Henry, Stark, and Bureau Counties, 1934

The numbers above the lines across the middle of the page are the averages for the 60 farms included in this report for the factors named at the top of the page. By drawing a line across each column at the number measuring the efficiency of your farm in that factor, you can compare your efficiency with that of other farmers in your locality.

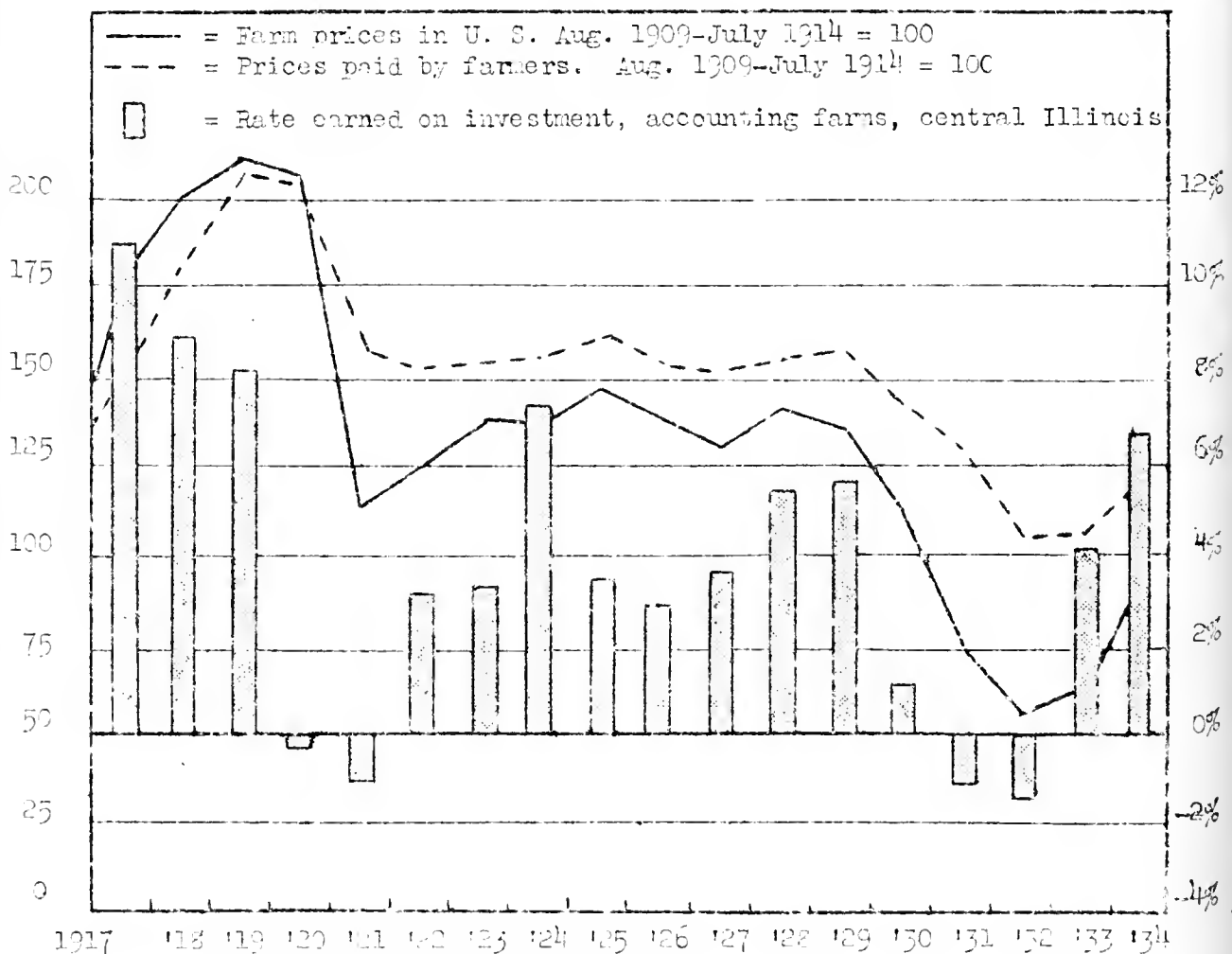
Rate earned on investment	Bushels per acre		Cattle income per \$100 invested	Hogs: Income per litter	Dairy sales per dairy cow	Poultry income per \$100 invested	L.S. income per \$100 of feed fed	Cost per crop acre		Labor cost per \$100 gross receipts	Increase in inventory	Sales over cash expenses	Gross receipts		Acres in farm
	Corn	Oats						Labor	Power and machinery				Per acre	Per farm	
4.5	51	14	161	161	63	436	190	.34	--	--	3200	4350	30	7200	410
3.0	47	12	151	151	63	396	178	1.54	.50	--	2700	4350	28	6600	370
1.5	43	10	141	141	53	356	166	2.54	1.25	2	2200	3350	26	6000	330
2.0	39	8	131	131	53	316	154	3.54	2.00	3	1700	3350	24	5400	290
3.5	35	6	121	121	48	276	142	4.54	2.75	14	1200	2850	22	4800	250
9.99	31.3	4.3	111	111	43	236	130	5.54	3.44	20	702	2354	19.81	4194	211.7
1.5	27	2	101	101	38	196	118	6.54	4.25	26	200	1350	18	3600	170
1.0	23	0	91	91	33	156	106	7.54	5.00	32	-300	1350	16	3000	130
.5	19	--	81	81	28	116	94	8.54	5.75	38	-800	850	14	2400	90
.0	15	--	71	71	23	76	82	9.54	6.50	44	-1300	350	12	1800	50
.5	11	--	61	61	18	36	70	10.54	7.25	50	--	-150	10	1200	--

Influence of Price Changes on Farm Earnings

Farm prices in 1934 advanced more rapidly than did the prices of commodities which farmers bought. Farmers of the United States as a group could exchange their farm products in 1934 for 74 percent as many goods as for the period 1909-1914, while in 1933 they received only 64 percent, and 1932 only 61 percent as much in exchange for what they had to sell as in the prewar period. In the month of February, 1935, this index of purchasing power had increased to 87 percent of prewar, the index of farm prices having risen to 111 as compared with an index of 127 for commodities which farmers buy. When the line representing farm prices drops below the line representing prices paid by farmers, farm earnings are very low, but when these lines come close together farm earnings increase. (See following graph.)

Index of Prices

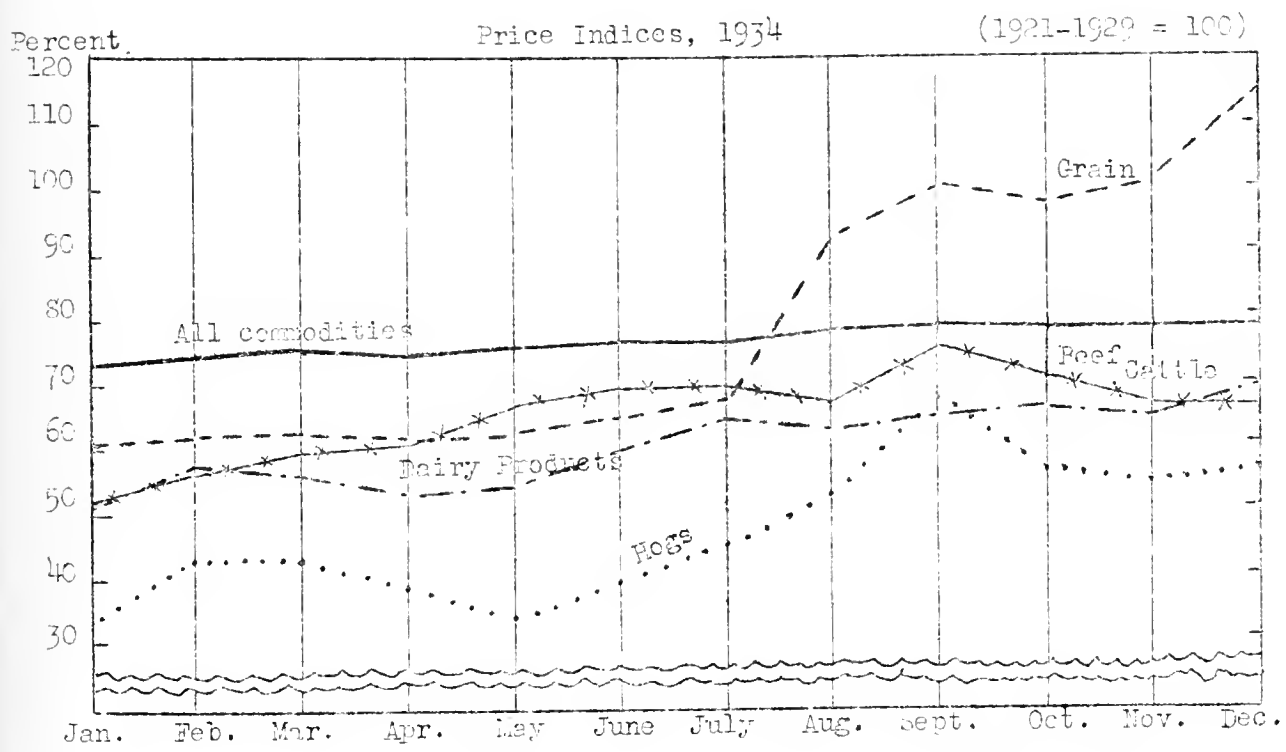
Rate Earned



Since the price of some farm products advanced much more rapidly during 1934 than other products, it is evident that some farmers would benefit more than others, depending upon the kind and quantity of products sold. Grain prices advanced much more rapidly than livestock prices; which resulted in a very bad price ratio for farmers who buy large quantities of feed. The average Illinois farm price of corn was 41 cents a bushel in January, 1934; it advanced steadily until the end of the year when it was 88 cents a bushel. Other grains made marked advance although not so great an advance as corn. The price of hogs fluctuated from a low of \$5.20 a hundred in May to a high of \$6.30 in September. The low point in the fall came in November when the average price was \$5.10. The price has advanced quite rapidly since November, the average price being \$7.50 for February, 1935. Beef cattle were worth \$4.10 a hundred in January, 1934 and advanced each month until September, when the price was \$5.90. They dropped to \$5.20 in December but increased again to \$7.40 for February, 1935.

The year 1934 set a record for the reduction in the numbers of livestock. The percentage decreases by species were as follows: horses, 1.1 percent; mules, 2.6 percent; all cattle, 11.2 percent; sheep, 4.7 percent; hogs, 35.3 percent. When all species are combined on the basis of their capacity to consume feed, the reduction was 13 percent. This reduction will greatly reduce the demand for feeds produced in 1935.

The relative change in prices of important commodities may be noted in the following graph, which shows the average Illinois farm prices by months as a percentage of the average prices for the period 1921-1929.



All commodities index represents the wholesale price of a large number of commodities for the United States, as computed by Bureau of Labor Statistics. Grain and livestock indices represent average monthly farm prices in Illinois.

Variations in Earnings over Five-Year Period

A comparison of production, income, and expenditures on the accounting farms in Henry, Stark, and Bureau Counties for the last five years is very interesting because of the violent changes in price level. The crop yields in 1934 were very low, yet total receipts per farm were higher than in any other year in the last five, and were 79 percent of the 1929 gross receipts. Operating costs continued to decline in 1934. Thus profits were the best the county had experienced since 1928.

Earnings in 1935, as usual, will depend upon individual efficiency, weather and prices. A normal year will mean larger yields of grain and probably lower prices, which will give individual efficiency the responsibility for higher earnings on each farm.

Comparison of Earnings and Investments on Accounting Farms in
Henry, Stark, and Bureau Counties for 1930-1934

Items	1930 ^{1/}	1931 ^{2/}	1932 ^{1/}	1933 ^{2/}	1934
Number of farms - - - - -	43	30	41	38	60
Average size of farms, acres- - - -	212	194	244	190	212
Average rate earned, to pay for management, risk and capital - - -	1.6%	-2.5%	-1.2%	5.1%	7.0%
Average labor and management wage -	\$-722	\$-2 305	\$-1 851	\$ 537	\$1 207
Gross income per acre - - - - -	16.23	8.52	7.26	13.95	19.81
Operating cost per acre - - - - -	12.90	13.55	9.21	9.95	8.60
Average value of land per acre- - -	141	139	111	124	112
Total investment per acre - - - - -	203	199	156	177	160
Investment per farm in:					
Total livestock- - - - -	3 948	2 866	2 846	2 316	2 080
Cattle - - - - -	1 886	1 241	1 471	1 276	1 024
Hogs - - - - -	1 296	973	738	505	498
Poultry- - - - -	146	151	98	86	64
Gross income per farm - - - - -	3 440	1 652	1 775	3 600	4 194
Income per farm from:					
Crops- - - - -	232	---	---	1 499	1 022
Miscellaneous income - - - - -	26	34	30	30	2
Total livestock- - - - -	3 182	1 618	1 745	2 071	3 076
Cattle - - - - -	557	225	660	617	870
Dairy sales- - - - -	392	405	139	247	264
Hogs - - - - -	1 999	827	777	1 033	1 581
Poultry- - - - -	220	160	95	108	91
Average yield of corn in bu.- - - -	43	48	64	52	31
Average yield of oats in bu.- - - -	45	46	30	41	4

^{1/} Records from Warren County included for 1930 and 1932.

^{2/} Record for Henry and Bureau Counties only for 1931 and 1933.

ANNUAL FARM BUSINESS REPORT ON THIRTY-EIGHT FARMS
IN WARREN AND KNOX COUNTIES, ILLINOIS, 1934

P. E. Johnston, J. E. Wills, and T. R. Hedges*

The farm earnings of 38 account-keeping farmers in Warren and Knox counties showed an increase in 1934 over those of 1933. This is the second consecutive year of improvement in the businesses of these farms. The three years previous to 1933 showed very low returns.

These 38 accounts show for 1934 an average net income of \$2,526 per farm, as compared with an average of \$2,053 in 1933, and an average net loss of \$477 in 1932. The average cash income in 1934 was \$4,797 per farm, the cash business expenditures \$2,298 per farm, leaving a cash balance of \$2,499 to meet interest payments and family living expenses. (Those who keep home account books use the latter figure to represent the cash contribution of the farm to the "realized family income".) Besides the cash income, there was an inventory increase of \$712 a farm due mostly to the rise in prices of farm products. This increase, added to the cash balance, resulted in an average excess of receipts over expenses of \$3,211 a farm.

These data must not be considered representative of average farm conditions, for they were secured from farms which are larger than average, and which were managed by farmers who are more efficient than the average of all farmers in the county.

For the state as a whole, farm earnings were better in 1934 than in 1933, in spite of the fact that corn and oat yields were very low due to the drouth and to chinch bug damage. In the western and southwestern parts of the state the drouth caused an almost total failure of both corn and oats. This accounts for farm earnings being lower there than in other parts of the state.

The corn crop was best in the southeastern part of the state, and was fair in the northwestern section. Wheat yields were particularly good in the south and central portions of the state. Soybean yields were very good throughout the state, and there was a larger than normal acreage in Illinois in 1934. This state produced over half of the nation's 1934 crop of soybeans.

Chinch bug damage extended over most of the state last year, but was much more severe in some sections than in others, and was much worse on some farms than on other farms in the same community. Conditions affecting crop yields were very spotted. This accounts in part for the wide variation in farm earnings from one section of the state to another, and the wider variations than usual from one farm to another..

* E. H. Walworth and A. R. Kemp, farm advisers in the above Counties, cooperated in supervising and collecting the records on which this report is based.

Industries other than agriculture again showed improved earnings over the previous year. A group of 840 industrial corporations reported by a nationally known bank showed average earnings of 5.0 percent on their invested capital in 1934, as compared with 3.4 percent for the same corporations in 1933. A similar group had a loss of one-tenth of one percent in 1932, and average earnings of 3.3 percent in 1931.

In comparing the average earnings of corporations with the rate earned on investments on accounting farms, it is well to keep in mind that in corporation accounting, charges are made for management, while in the farm accounts no comparable deduction has been made. On the other hand the farmer and his family receive food, fuel, and other items of living from the farm for which the farm has received no credit in the records used in this report. For the average central Illinois farm family, consisting of five persons, the value of the food and fuel furnished by the farm was about \$250 in 1934, when estimated on the basis of the wholesale price for farm products.

Variations in Farm Incomes

There was a much wider range in farm earnings on the accounting farms in 1934 than in 1933. This was true for the farms included in this report, and it was also true when the average earnings of farms in one section of the state were compared with the earnings of farms in other areas.

The extremely wide range in earnings was due to a combination of physical and economic factors. The average yields of wheat and soybeans was much better compared with the five-year average, than the average yields of corn and oats. This variation favored those sections which had larger acreages of the higher yielding crops in 1934. There was also a wide range in average corn yields from one section of the state to another, as well as between individual farms in the same area. The price of grains was high in 1934 as compared with prices of livestock and livestock products. Farms where grain sales constitute a large part of the farm income thus had an advantage. The rapid increase in the prices of farm products, particularly grains, favored those farms which had large stocks of salable products on hand at the beginning of the year. Many farmers who inventoried the corn on hand at the beginning of 1934 at 40 cents a bushel, later sold this corn for 30 cents.

In this group of 38 accounting farms the most successful third shows an average net income of \$4,452, while the average net income on the least successful third of the farms was \$1,055. In 1933, the comparable net income for the two groups was \$5,608, and \$752 respectively.

-3-
Investments, Receipts, Expenses and Earnings on 38
Warren and Knox County Farms in 1934

Items	Your farm	Average of 38 farms	13 most profitable farms	13 least profitable farms
<u>CAPITAL INVESTMENTS</u>				
Land - - - - -		25 026	31 809	21 531
Farm improvements- - - - -		4 224	4 361	4 268
Livestock total- - - - -		<u>1 881</u>	<u>2 096</u>	<u>1 897</u>
Horses - - - - -		457	472	387
Cattle - - - - -		865	924	1 083
Hogs - - - - -		462	615	336
Sheep- - - - -		35	26	29
Poultry- - - - -		62	59	62
Machinery and equipment- - - - -		1 370	1 722	987
Feed and grains- - - - -		2 053	2 717	1 335
Total capital investment	\$	<u>\$34 554</u>	<u>\$42 705</u>	<u>\$30 018</u>
<u>RECEIPTS AND NET INCREASES</u>				
Livestock total- - - - -		<u>2 915</u>	<u>4 283</u>	<u>2 315</u>
Horses - - - - -		31	56	---
Cattle - - - - -		917	1 481	912
Hogs (including AAA payments)		1 511	2 240	1 070
Sheep- - - - -		74	28	52
Poultry- - - - -		51	49	33
Egg sales- - - - -		74	62	61
Dairy sales- - - - -		257	367	187
Feed and grains (including AAA payments) - - - - -		1 400	2 271	410
Labor off farm - - - - -		70	99	68
Miscellaneous receipts - - - - -		1	1	1
Total receipts & net increases	\$	<u>\$ 4 386</u>	<u>\$ 6 654</u>	<u>\$ 2 794</u>
<u>EXPENSES AND NET DECREASES</u>				
Farm improvements- - - - -		178	172	153
Horses - - - - -		---	---	9
Miscellaneous livestock decreases		---	---	---
Machinery and equipment- - - - -		326	448	252
Feed and grains- - - - -		---	---	---
Livestock expense- - - - -		58	51	98
Crop expense - - - - -		122	142	114
Hired labor- - - - -		235	348	206
Taxes- - - - -		226	272	184
Miscellaneous expenses - - - - -		30	38	30
Total expenses & net decreases	\$	<u>\$ 1 175</u>	<u>\$ 1 471</u>	<u>\$ 1 046</u>
<u>RECEIPTS LESS EXPENSES- - - - -</u>				
	\$	<u>\$ 3 211</u>	<u>\$ 5 183</u>	<u>\$ 1 748</u>
Total unpaid labor- - - - -		685	731	693
Operator's labor - - - - -		529	540	540
Family labor - - - - -		156	191	153
Net income from investment and management - - - - -		2 526	4 452	1 055
RATE EARNED ON INVESTMENT - - - - -	%	<u>7.31%</u>	<u>10.42%</u>	<u>3.51%</u>
Return to capital and operator's labor and management - - - - -		3 055	4 992	1 595
5% of capital invested- - - - -		1 728	2 135	1 501
LABOR AND MANAGEMENT WAGE - - - - -	\$	<u>\$ 1 327</u>	<u>\$ 2 857</u>	<u>\$ 94</u>

The following table shows the number of farms having certain net incomes per acre. There was a marked difference between the most successful and the least successful farms.

<u>Average net income</u> <u>per acre</u>	<u>Number of</u> <u>farms</u>	<u>Average net income</u> <u>per acre</u>	<u>Number of</u> <u>farms</u>
\$21	1	\$9	5
19	3	7	5
17	0	5	7
15	2	3	1
13	5	1	1
11	6	-1	2

A further study of the farm businesses made by comparing the investments, receipts, and expenses of the group of farms having the highest net income, with those having the lowest income will throw some light on the question of why some farmers are more successful than others. This comparison is shown in the table on page 3.

The most successful farms averaged 299 acres each, the least successful 134 acres. This difference in size accounts in part for the variation in the average investments, receipts, and expenses in the two groups. Difference in receipts from the sale of grains, hogs, and cattle accounts for most of the difference in income between the two groups. Although the expenses per farm were higher on the most profitable farms, the total expense per acre, including the charge for family labor, was less than it was on the least profitable farms.

The year 1934 was similar to 1933 in that the prices of farm products continued to advance, causing further increases in inventory values. Owing to the poor crop yields in 1934, there were fewer bushels of grain on hand to inventory at the end of the year than at the beginning. The value of the smaller amount of grain, however, was greater than for the larger amount on hand at the beginning of the year.

Bushels of Corn Inventoried

	Jan. 1, 1934	Dec. 31, 1934
Average of all farms	3 520	1 573
Average of 13 most successful farms . .	4 390	2 284
Average of 13 least successful farms . .	2 269	887
Your farm		

The most profitable farms had a much larger inventory of corn, both at the beginning and at the end of the year. With the rapid rise in corn prices, this was one of the important factors accounting for their higher returns from feed and grains.

The average inventory increase for the accounting farms in Warren and Knox counties was \$712 in 1934, as compared with \$704 in 1933, and an inventory loss of \$1,228 a farm in 1932. There were increases of \$477 in total livestock, \$221 in feed and grain, and \$38 in machinery, while improvements showed a decrease of \$24. Such an increase in inventory as that for machinery results from the value of repairs and replacements during the year being in excess of depreciation costs. This increase is of considerable interest, for it is the first time that such an increase in machinery inventories has occurred since farm earnings began to decline so drastically with the general depression.

Inventory Changes for 1934

Items	Beginning inventory 1-1-34	Closing inventory 12-31-34	Inventory changes 1934	Inventory changes, your farm
Total livestock.	\$1 881	\$2 358	\$477	\$
Feed and grains.	2 053	2 274	221	
Machinery.	1 370	1 408	38	
Improvements (except residence).	4 224	4 200	-24	
Total.	\$9 528	\$10 240	\$712	\$

Some Adjustments on Warren and Knox County Farms Since 1929

Farmers have been forced to make adjustments in their cash expenditures as the result of changes in their cash income. From 1930 through 1933, farm operating costs declined each year, but the year 1934 brought a reversal of this trend. The total operating expenses were 34 cents an acre higher in 1934 than in 1933, while cash operating expenses were \$2,298 a farm in 1934 as compared with \$2,029 in 1933. Low crop yields, combined with the usual large amount of livestock on Warren and Knox County farms, necessitated the purchase of considerably more feed in 1934 than in 1933. There was also a significant increase in expenditures over 1933 for livestock and machinery, but a considerable decrease in expenditure for taxes. Indications point to an increase of expenditures for machinery and improvements in 1935, since farmers have postponed repairs and replacements for these items during the four-year period since 1930.

Cash Income and Expenses on Accounting
Farms in Warren and Knox Counties for 1929 and 1934

Items	Your farm 1934	Average cash expense per farm 1934	Average cash expense per farm 1929	Your farm 1934	Average cash income per farm 1934	Average cash income per farm 1929
Livestock	\$	\$ 525	\$1 229	\$	\$2 963	\$5 858
Feed and grains		461	721		1 640	2 165
Machinery		485	892		121	164
Improvements.		156	226		2	16
Labor		235	480		70	52
Miscellaneous		30	27		1	6
Livestock expense		58	54		---	---
Crop expense.		122	267		---	---
Taxes		226	364		---	---
Total	\$	\$2 298	\$4 260	\$	\$4 797	\$8 261
Excess of cash sales over expenses.	\$			\$	\$2 499	\$4 001
Increase in inventory					712	189
Income to labor and capital (Receipts less expenses).					3 211	4 190

The cumulative effect of several years of low agricultural prices on the demand for manufactured goods can be readily ascertained by a comparison of cash expenditures in 1934 with those in 1929. The average cash income in 1934 was 58 percent of that in 1929, while cash expenditures were 54 percent as large. In 1934 livestock purchases were 43 percent, and feed and grain purchases 64 percent as large as in 1929. In 1934 these farms paid out 54 percent as much for machinery, 46 percent as much for crop expense, and 69 percent as much for improvements as in 1929, while taxes were reduced to 62 percent of the 1929 level.

Comparison of Farms With High and Low Earnings

The most profitable farms in this study had net receipts per acre of \$14.91 as compared with \$5.43 for the least profitable group. The reasons for this difference may be obtained from a study of the data on pages 3 and 8.

The most profitable farms had more livestock per farm, and were more efficient in their livestock production than the least profitable farms. They had an investment in productive livestock of \$7.09 per acre, and fed \$2,871 of feed per farm, as compared with an investment of \$7.67 per acre, and \$1,650 of feed fed per farm, on the least profitable farms. The productive livestock on the most profitable farms returned \$147 for each \$100 of feed fed, as compared with a return of \$140 for each \$100 of feed fed on the least profitable farms. The most profitable farms weaned an average of 6.1 pigs per litter and had an income of \$165 per litter farrowed, as compared with 5.3 pigs weaned per litter, and an income of \$86 per litter farrowed on the least profitable group. There were returns of \$150 for each \$100 invested in cattle on the most profitable farms, as compared with returns of \$103 per \$100 invested in cattle on the least profitable farms.

The most profitable farms in this study averaged 104.3 acres larger, and had a larger proportion of their land area tillable than the least profitable farms. They had 32.0 acres more corn, 13.0 acres more oats, 34.2 acres more soybeans, and 12.1 acres more hay than the least profitable farms. Since soybeans and hay were two of the high-profit crops in 1934, their larger acreage of these crops was an important factor in accounting for the higher returns from feed and grains on the most profitable farms. The most profitable farms also carried larger inventories of feed and grains on which to make a profit when prices advanced. Along with the larger acreage of crops, another reason for the larger inventories of feed and grain was the higher crop yields, there being an advantage of 5.4 bushels of corn, 3.1 bushels of oats, 8.2 bushels of wheat, and 4.7 bushels of soybeans per acre in favor of the high-profit group.

The larger income on the most profitable farms was secured with a total operating cost of \$7.37 per acre, as compared with \$8.95 per acre for the least profitable farms. The man labor costs were \$3.00 per crop acre lower, while power and machinery costs were 85 cents per crop acre lower for the most successful farms.

Influence of AAA Programs on Cropping Systems and Farm Incomes

The farm-account records in Illinois were influenced both directly and indirectly by the corn-hog and wheat adjustment programs. A large percentage of accounting farms were under one or both contracts in 1934. The acreages of corn and wheat on these farms were therefore less than normal. This should have resulted in lower operating costs. Corn-hog benefit payments for the entire 1934 program will total about 40 million dollars for the state, while wheat benefit payments will be about 2.4 million dollars.

The benefit payments for accounting farms are indicated in the following table, which shows the average payment for those farms receiving payments, and includes only those payments received by the cooperator before the 1934 books were closed. In some cases only the first corn-hog check is included while in other cases the second check had been received. The second payments not received, and the third payments will be entered in the 1935 book.

AAA Benefit Payments Received in 1934

	Corn		Wheat		Hogs		Average of all payments ^{1/}
	Number of farms	Amount per farm	Number of farms	Amount per farm	Number of farms	Amount per farm	
1/3 most profitable farms	13	\$192	3	\$189	13	\$233	\$468
1/3 least profitable farms	13	130	1	248	13	145	294
All accounting farms	38	157	5	190	38	188	370

^{1/} Total benefit payments reported by accounting farms under contract for 1934 divided by total number of accounting farms.

On many farms the cash received from benefit payments will more than pay for the year's taxes. As an average for all accounting farms, the payments actually received were \$144 more than sufficient to pay the 1934 taxes.

It is interesting to note the use made of the contracted acres on the accounting farms. The average farm had 22.1 contracted acres which were used as follows: 5.3 idle; 5.3 mixed red clover and timothy; 1.4 sweet clover; 4.2 soybeans; 2.1 alfalfa; and 3.8 acres were in other crops. These data indicate that most farmers made good use of their contracted acres from the standpoint of soil improvement, as a large part of them were in legumes. When the Government restrictions on the use of crops grown on contracted acres were removed, they were on many farms the most profitable crops as they furnished hay and pasture where badly needed in drouth areas. The legumes had the further advantage of being immune to attack from chinch bugs.

Farm earnings were influenced indirectly by the AAA programs in that the reduction in production increased the price of the commodities involved. The drouth was a more important factor in reducing production than the adjustment programs, yet if it had not been for the corn-sealing program there would have been but little corn in the hands of farmers at the time the major price advance became effective.

Factors Helping to Analyze the Farm Business on 38
Warren and Knox County Farms in 1934

Items	Your farm	Average of 38 farms	13 most profitable farms	13 least profitable farms
Size of farms--acres - - - - -	_____	235.8	298.6	194.3
Percent of land area tillable- - -	_____	85.1	87.3	80.8
Percent of tillable land in hay and pasture - - - - -	_____	36.6	32.7	43.9
Gross receipts per acre- - - - -	_____	18.60	22.28	14.38
Total expenses per acre- - - - -	_____	7.89	7.37	8.95
Net receipts per acre- - - - -	_____	10.71	14.91	5.43
Value of land per acre - - - - -	_____	106	107	111
Total investment per acre- - - - -	_____	147	143	154
Acres in Corn- - - - -	_____	66.5	82.7	50.7
Oats- - - - -	_____	26.0	30.3	17.3
Wheat - - - - -	_____	4.5	5.0	5.2
Soybeans- - - - -	_____	18.4	40.7	6.5
Hay - - - - -	_____	31.0	36.0	23.9
Tillable pasture- - - - -	_____	42.5	49.4	45.0
Crop yields--Corn, bu. per acre- -	_____	28.7	30.8	25.4
Oats, bu. per acre- -	_____	2.6	3.8	0.7
Wheat, bu. per acre -	_____	4.0	9.4	1.2
Soybeans, bu. per acre	_____	20.5	20.1	15.4
Value of feed fed to productive L.S.:	_____	2 043	2 871	1 650
Returns per \$100 of feed fed to productive livestock- - - - -	_____	141	147	140
Returns per \$100 invested in:				
Cattle- - - - -	_____	120	150	103
Poultry - - - - -	_____	198	185	157
Pigs weaned per litter - - - - -	_____	5.6	6.1	5.3
Income per litter farrowed - - - - -	_____	110	165	86
Dairy slaes per dairy cow- - - - -	_____	47	59	39
Investment in productive L.S. per A.	_____	7.03	7.09	7.67
Receipts from productive L.S. per A.	_____	12.23	14.16	11.91
Man labor cost per crop acre - - -	_____	5.56	4.79	7.79
Machinery cost per crop acre - - -	_____	2.06	2.12	2.25
Power and mach. cost per crop A. -	_____	3.19	3.07	3.92
Farms with tractor - - - - -	_____	71%	85%	54%
Value of feed fed to horses- - - - -	_____	209	258	178
Man labor cost per \$100 gross income- - - - -	_____	20	15	31
Expenses per \$100 gross income - -	_____	42	33	62
Farm improvements cost per acre- -	_____	.75	.58	.79
Excess of sales over cash expenses	_____	2 499	3 109	1 987
Increase in inventory- - - - -	_____	712	2 074	-239
Rate earned on investment- - - - -	_____	7.31	10.42	3.51
Gross receipts per farm- - - - -	_____	4 386	6 654	2 794

Chart for Studying the Efficiency of Various Parts of Your Business,
Warren and Knox Counties, 1934

The numbers above the lines across the middle of the page are the averages for the 38 farms included in this report for the factors named at the top of the page. By drawing a line across each column at the number measuring the efficiency of your farm in that factor, you can compare your efficiency with that of other farmers in your locality.

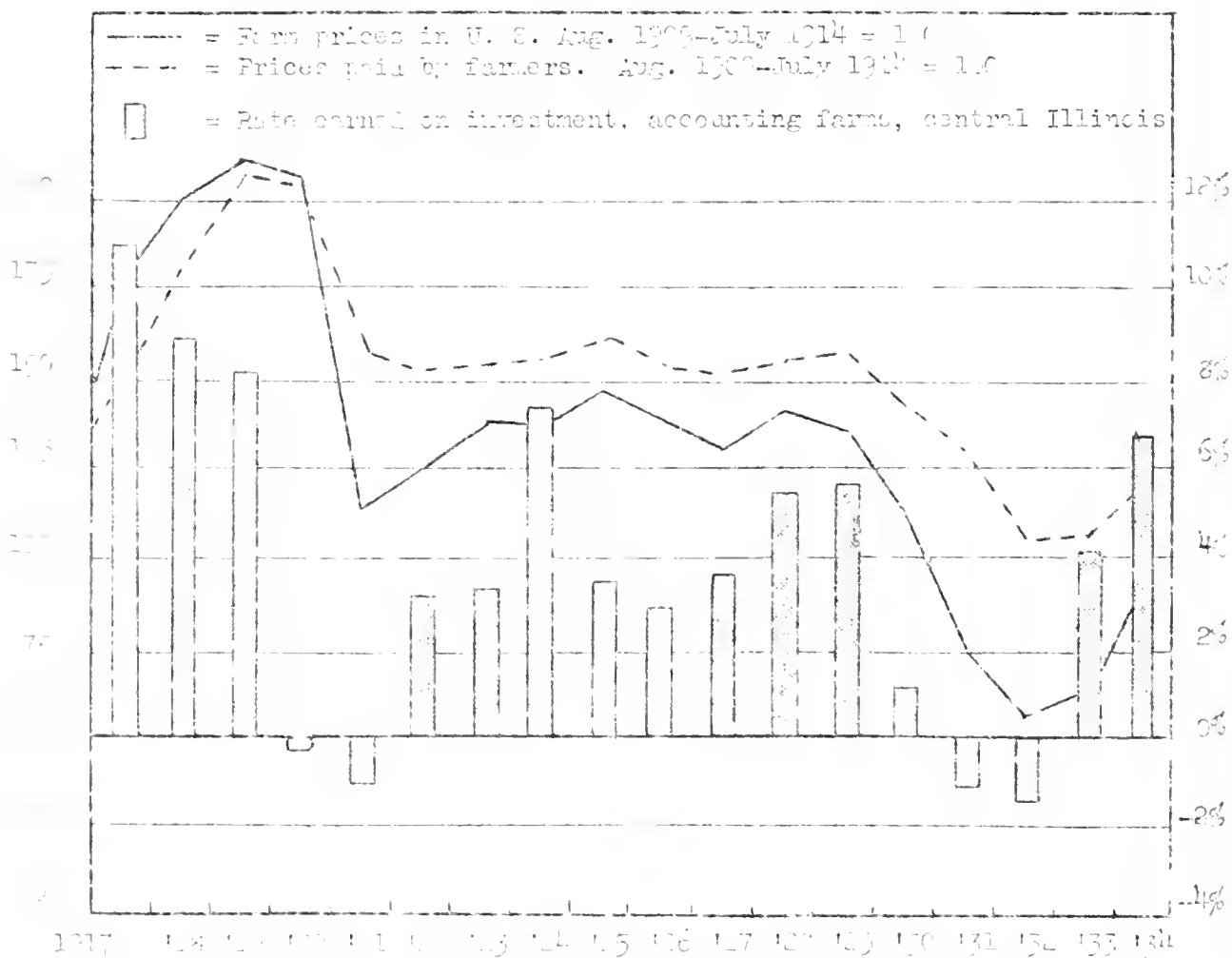
Rate earned on investment	Bushels per acre			Hogs: Income per litter	Dairy sales per dairy cow	Poultry income per \$100 invested	L.S. income per \$100 of feed fed	Cost per crop acre		Labor cost per \$100 gross receipts	Increase in inventory	Sales over cash expenses	Gross receipts		Acres in farm
	Corn	Oats	Soybeans					Labor	Power and machinery				Per acre	Per farm	
12.3	49	13	20	210	97	398	291	--	--	--	5712	7500	39	12900	536
11.3	45	11	28	190	87	358	261	.76	--	4	4712	6500	35	11400	476
10.3	41	9	26	170	77	318	231	1.96	--	8	3712	5500	31	9900	416
9.3	37	7	24	150	67	278	201	3.16	.59	12	2712	4500	27	8400	356
8.3	33	5	22	130	57	238	171	4.36	1.89	16	1712	3500	23	6900	296
7.31	28.7	2.6	20.5	110	47	198	141	5.56	3.19	20	712	2499	18.60	4336	235.8
6.3	25	1	18	90	37	158	111	6.76	4.49	24	-288	1500	15	2900	176
5.3	21	--	16	70	27	118	81	7.96	5.79	27	-1288	500	11	1400	116
4.3	17	--	14	50	17	78	51	9.16	7.09	31	-2288	--	7	--	56
3.3	13	--	12	30	7	38	21	10.36	8.39	36	-3288	--	3	--	--
2.3	9	--	10	10	--	--	--	11.56	9.69	40	-4288	--	--	--	--

Influence of Price Changes on Farm Earnings

Farm prices in 1934 advanced more rapidly than did the prices of commodities which farmers bought. Farmers of the United States as a group could exchange their farm products in 1934 for 74 percent as many goods as for the period 1909-1914, while in 1935 they received only 64 percent, and 1936 only 61 percent as much in exchange for what they had to sell as in the former period. In the month of February, 1938, this index of purchasing power had increased to 87 percent of former, the index of farm prices having risen to 111 as compared with an index of 127 for commodities which farmers buy. When the line representing farm prices drops below the line representing prices paid by farmers, farm earnings are very low, but when these lines come close together farm earnings increase. (See following graph.)

Index of Prices

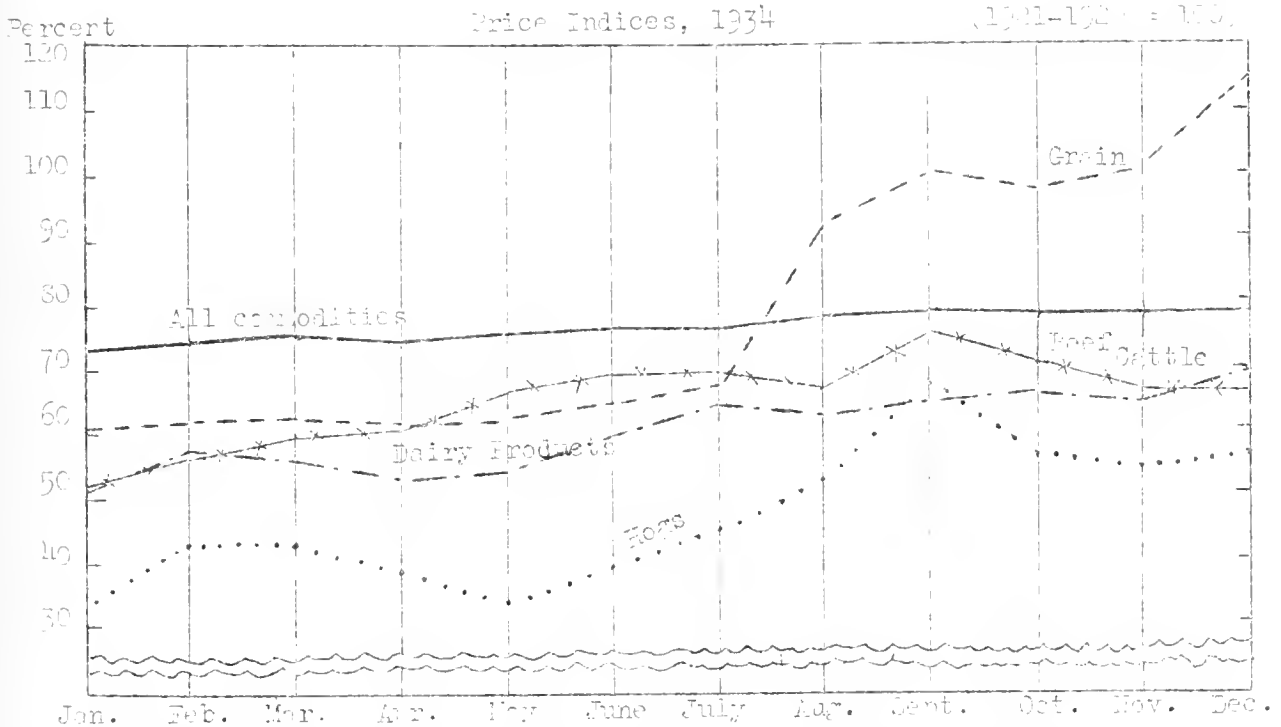
Rate Earned



Since the price of some farm products advanced much more rapidly during 1934 than other products, it is evident that some farms would benefit more than others, depending upon the kind and quantity of products sold. Grain prices advanced much more rapidly than livestock prices; which resulted in a very bad price ratio for farmers who buy large quantities of feed. The average Illinois farm price of corn was 41 cents a bushel in January, 1934; it advanced steadily until the end of the year when it was 88 cents a bushel. Other grains made marked advance although not so great an advance as corn. The price of hogs fluctuated from a low of \$5.25 a hundred in May to a high of \$6.30 in September. The low point in the fall came in November when the average price was \$5.15. The price has advanced quite rapidly since November, the average price being \$7.50 for February, 1935. Beef cattle were worth \$4.10 a hundred in January, 1934 and advanced each month until September, when the price was \$5.00. They dropped to \$4.20 in December but increased again to \$7.40 for February, 1935.

The year 1934 set a record for the reduction in the numbers of livestock. The percentage decreases by species were as follows: horses, 1.1 percent; mules, 2.0 percent; all cattle, 11.2 percent; sheep, 4.7 percent; hogs, 35.3 percent. When all species are combined on the basis of their capacity to consume feed, the reduction was 13 percent. This reduction will greatly reduce the demand for feeds produced in 1935.

The relative change in prices of important commodities may be noted in the following graph, which shows the average Illinois farm prices by months as a percentage of the average prices for the period 1921-1929.



All commodities index represents the wholesale price of a large number of commodities for the United States, as computed by Bureau of Labor Statistics. Grain and livestock indices represent average monthly farm prices in Illinois.

Variation in Earnings Over Five-Year Period

A comparison of production, income, and expenditures on the accounting farms in Warren and Knox counties for the last five years is very interesting because of the violent changes in price level. Crop yields were low in 1934 for the second year, yet total receipts per farm were higher than in any other year in the last five, and were 65 percent of the 1929 gross receipts. Operating costs per acre were lower than in any year of the five except 1933. Thus profits were the best the county has experienced since 1929.

Earnings in 1935, as usual, will depend upon individual efficiency, weather, and prices. With normal weather conditions, prices of grain are likely to go down to a more normal level which will give individual efficiency the responsibility for higher earnings on each farm.

Comparison of Earnings and Investments on Accounting Farms in
Warren and Knox Counties for 1930-1934

Items	1930 ^{1/}	1931 ^{2/}	1932 ^{1/}	1933	1934
Number of farms - - - - -	43	30	41	32	38
Average size of farms, acres- - -	212	242	244.5	268	236
Average rate earned, to pay for management, risk and capital - -	1.6%	-1.1%	-1.2%	5.1%	7.31%
Average labor and management wage	\$-722	\$-1 845	\$-1 851	\$ 557	\$1 327
Gross income per acre - - - - -	16.23	9.58	7.26	15.16	18.60
Operating cost per acre - - - - -	12.90	11.44	9.21	7.55	7.89
Average value of land per acre- -	141	115	111	110	106
Total investment per acre - - - -	203	164	156	150	147
Investment per farm in:					
Total livestock- - - - -	3 948	3 612	2 846	2 630	1 881
Cattle - - - - -	1 836	1 725	1 471	1 383	865
Hogs - - - - -	1 296	1 206	738	617	462
Poultry- - - - -	146	130	93	76	62
Gross income per farm - - - - -	3 440	2 322	1 775	4 061	4 386
Income per farm from:					
Crops- - - - -	232	---	---	1 810	1 400
Miscellaneous income - - - -	26	25	30	44	1
Total livestock- - - - -	3 182	2 297	1 745	2 207	2 915
Cattle - - - - -	557	534	660	563	917
Dairy sales- - - - -	392	216	139	243	257
Hogs - - - - -	1 999	1 352	777	1 211	1 511
Poultry- - - - -	220	139	95	103	51
Average yield of corn in bu.- - -	43	49	64	42	29
Average yield of oats in bu.- - -	45	47	50	31	3

^{1/} Records from Warren, Bureau and Henry Counties included for 1930 and 1932.

^{2/} Records from Warren County only included for 1931.

ANNUAL FARM BUSINESS REPORT ON THIRTY-NINE FARMS
IN PEORIA, SCHUYLER, AND FULTON COUNTIES, ILLINOIS, 1934

P. E. Johnston, J. Ackerman, and T. R. Hedges*

Farm earnings on the 39 accounting farms in Peoria, Schuyler, and Fulton Counties averaged 4.2 percent for 1934. This is the second highest return during the past five years, 1933 having the highest with an average return of 5.4 percent. The 1934 return is very good considering the severe drouth and chinch bug damage.

These 39 accounts show for 1934 an average net income of \$968 per farm, as compared with an average of \$1,572 in 1933, and an average net loss of \$490 in 1932. The average cash income in 1934 was \$3,050 per farm, the cash business expenditures \$1,635 per farm, leaving a cash balance of \$1,415 to meet interest payments and family living expenses. (Those who keep home account books use the latter figure to represent the cash contribution of the farm to the "realized family income".) Besides the cash income, there was an inventory increase of \$298 a farm due mostly to the rise in prices of farm products. This increase, added to the cash balance, resulted in an average excess of receipts over expenses of \$1,713 a farm.

These data must not be considered representative of average farm conditions, for they were secured from farms which are larger than average, and which were managed by farmers who are more efficient than the average of all farmers in the county.

For the state as a whole, farm earnings were better in 1934 than in 1933, in spite of the fact that corn and oat yields were very low due to the drouth and to chinch bug damage. In the western and southwestern parts of the state the drouth caused an almost total failure of both corn and oats. This accounts for farm earnings being lower there than in other parts of the state.

The corn crop was best in the southeastern part of the state, and was fair in the northwestern section. Wheat yields were particularly good in the south and central portions of the state. Soybean yields were very good throughout the state, and there was a larger than normal acreage in Illinois in 1934. This state produced over half of the nation's 1934 crop of soybeans.

Chinch bug damage extended over most of the state last year, but was much more severe in some sections than in others, and was much worse on some farms than on other farms in the same community. Conditions affecting crop yields were very spotted. This accounts in part for the wide variation in farm earnings from one section of the state to another, and the wider variations than usual from one farm to another.

* J. W. Whisenand, L. E. McKinzie, and J. E. Watt, farm advisers in the above Counties, cooperated in supervising and collecting the records on which this report is based.

Industries other than agriculture again showed improved earnings over the previous year. A group of 740 industrial corporations reported by a nationally known bank showed average earnings of 5.9 percent on their invested capital in 1934, as compared with 3.4 percent for the same corporations in 1933. A smaller group had a loss of one-tenth of one percent in 1933 and average earnings of 3.3 percent in 1934.

In comparing the average earnings of corporations with the rate earned on investments on accounting farms, it is well to keep in mind that in corporation accounting, charges are made for management, while in the farm accounts no comparable deduction has been made. On the other hand the farmer and his family receive food, fuel, and other items of living from the farm for which the farm has received no credit in the records used in this report. For the average central Illinois farm family, consisting of five persons, the value of the food and fuel furnished by the farm was about \$250 in 1934, when estimated on the basis of the wholesale price for farm products.

Variations in Farm Incomes

There was a much wider range in farm earnings on the accounting farms in 1934 than in 1933. This was true for the farms included in this report, and was also true when the average earnings of farms in one section of the state were compared with the earnings of farms in other areas.

The extremely wide range in earnings was due to a combination of physical and economic factors. The average yield of wheat and soybeans was much better compared with the five-year average, than the average yields of corn and oats. This variation favored those sections which had larger acreages of the higher yielding crops in 1934. There was also a wide range in average corn yields from one section of the state to another, as well as between individual farms in the same area. The price of grains was high in 1934 as compared with prices of livestock and livestock products. Farms where grain sales constitute a large part of the farm income thus had an advantage. The rapid increase in the prices of farm products, particularly grains, favored those farms which had large stocks of salable products on hand at the beginning of the year. Many farmers who inventoried the corn on hand at the beginning of 1934 at 40 cents a bushel, later sold this corn for 46 cents.

In this group of 39 accounting farms the most successful third shows an average net income of \$2,340, while the least successful third of the farms had an average net loss of \$299. In 1933 the two groups had net incomes of \$2,936, and \$313, respectively.

Investments, Receipts, Expenses and Earnings in 39
Peoria, Schuyler, and Fulton County Farms in 1934

Items	Your farm	Average of 39 farms	13 most profitable farms	13 least profitable farms
CAPITAL INVESTMENTS				
Land - - - - -		\$15 630	\$17 431	\$14 086
Farm improvements- - - - -		3 415	3 466	3 896
Livestock total- - - - -		<u>1 587</u>	<u>1 717</u>	<u>1 867</u>
Horses - - - - -		413	383	473
Cattle - - - - -		630	707	813
Hogs - - - - -		425	493	444
Sheep- - - - -		46	68	56
Poultry- - - - -		73	66	81
Machinery and equipment- - - - -		1 215	1 237	1 316
Feed and grains- - - - -		1 113	1 279	1 034
Total capital investment	\$	<u>\$22 960</u>	<u>\$25 130</u>	<u>\$22 199</u>
RECEIPTS AND NET INCREASES				
Livestock total- - - - -		<u>2 003</u>	<u>2 180</u>	<u>1 962</u>
Horses - - - - -		34	8	70
Cattle - - - - -		309	345	311
Hogs (including AAA payments)-		1 207	1 242	1 233
Sheep- - - - -		66	108	47
Poultry- - - - -		84	99	58
Egg sales- - - - -		111	114	108
Dairy sales- - - - -		192	264	135
Feed and grains (including AAA payments) - - - - -		538	1 745	---
Labor off farm - - - - -		91	110	108
Miscellaneous receipts - - - - -		6	10	8
Total receipts & net increases	\$	<u>\$ 2 633</u>	<u>\$ 4 045</u>	<u>\$ 2 078</u>
EXPENSES AND NET DECREASES				
Farm improvements- - - - -		189	156	266
Horses - - - - -		---	---	---
Miscellaneous livestock decreases		---	---	---
Machinery and equipment- - - - -		294	283	358
Feed and grains- - - - -		---	---	503
Livestock expense- - - - -		24	23	24
Crop expense - - - - -		103	108	116
Hired labor- - - - -		108	159	93
Taxes- - - - -		182	210	177
Miscellaneous expenses - - - - -		25	21	33
Total expenses & net decreases	\$	<u>\$ 925</u>	<u>\$ 960</u>	<u>\$ 1 570</u>
RECEIPTS LESS EXPENSES-				
	\$	<u>\$ 1 713</u>	<u>\$ 3 085</u>	<u>\$ 508</u>
Total unpaid labor- - - - -		745	745	807
Operator's labor - - - - -		540	540	540
Family labor - - - - -		205	205	267
Net income from investment and management - - - - -		968	2 340	-299
RATE EARNED ON INVESTMENT - - - - -	%	<u>4.22%</u>	<u>9.31%</u>	<u>-1.34%</u>
Return to capital and operator's labor and management - - - - -		1 508	2 880	241
% of capital invested- - - - -		1 148	1 256	1 110
LABOR AND MANAGEMENT WAGE - - - - -	\$	<u>\$ 360</u>	<u>\$ 1 624</u>	<u>\$ -869</u>

The following table shows the number of farms having certain net incomes per acre. There was a marked difference between the most successful and the least successful farms.

<u>Average net income</u> <u>per acre</u>	<u>Number of</u> <u>farms</u>	<u>Average net income</u> <u>per acre</u>	<u>Number of</u> <u>farms</u>
\$17	1	\$5	3
15	2	3	2
13	2	1	4
11	4	-1	8
9	5	-3	3
7	4	-5	1

A further study of the farm businesses, made by comparing the investments, receipts and expenses of the group of farms having the highest net income with those having the lowest net incomes, will throw some light on the question of why some farmers are more successful than others. This comparison is shown in the table on page 3.

The most profitable farms averaged 201 acres each, the least profitable 221 acres. The most profitable farms had a larger investment in feed and grains, and a larger total farm investment than the least profitable farms. Differences in receipts and net increases from feed and grains account for much of the difference in income between the two groups of farms. The total operating expenses per acre, including the charge for family labor, was less on the most profitable farms than on the least profitable group.

The year 1934 was similar to 1933 in that the prices of farm products continued to advance causing further increases in inventory values. Owing to the poor crop yields in 1934 there were fewer bushels of grain on hand to inventory at the end of the year than at the beginning. The value of the smaller amount of grain, however, was greater than for the larger amount on hand at the beginning of the year.

Bushels of Corn Inventoried

	Jan. 1, 1934	Dec. 31, 1934
Average of all farms	1 333	690
Average of 13 most successful farms	1 562	1 226
Average of 13 least successful farms	930	344
Four farm		

The most profitable farms had a larger inventory of corn, both at the beginning and at the end of the year. With the rise in corn prices, this was one of the important factors accounting for their higher returns from feed and grains.

The average inventory increase for the accounting farms in Peoria, Schuyler, and Fulton Counties was \$298 in 1934, as compared with \$637 in 1933, and a decrease of \$704 in 1932. There were increases of \$67 in livestock, and \$313 in feed and grain, and decreases of \$23 in machinery, and \$79 in improvements. The inventory decrease in machinery was the smallest since 1929 on account-keeping farms, and indicates that needed repairs and replacements are being made, but still not enough to offset the current depreciation costs.

Inventory Changes for 1934

Items	Beginning inventory 1-1-34	Closing inventory 12-31-34	Inventory changes 1934	Inventory changes, your farm
Total livestock.	\$1 587	\$1 674	\$ 87	\$
Feed and grains.	1 113	1 426	313	
Machinery.	1 215	1 192	-23	
Improvements (except residence).	<u>3 415</u>	<u>3 336</u>	<u>-79</u>	
Total.	\$7 330	\$7 623	\$292	\$

Some Adjustments on Peoria, Schuyler, and Fulton County Farms Since 1929

Farmers have been forced to make adjustments in their cash expenditures as a result of changes in their cash income. Farm operating costs on accounting farms in this area have declined each year since 1930. The total operating expenses were 22 cents an acre lower in 1934 than in 1933, while the cash operating expenses were \$1,635 a farm in 1934, as compared with \$1,583 in 1933. Due to the drouth and the consequent reduced feed supply there was an increase of \$317 in cash expenses for feed and grain over the previous year. There were significant decreases in expenses, as compared with the previous year, for taxes, livestock, and labor. If incomes permit, indications point to an increase of spending in 1935 for repairs and replacement of machinery and improvements, since farmers have postponed purchase of these items during the five-year period since 1929.

Cash Income and Expenses on Accounting Farms in Peoria, Schuyler, and Fulton Counties for 1929 and 1934

Items	Your farm 1934	Average cash expense per farm		Your farm 1934	Average cash income per farm	
		1934	1929		1934	1929
Livestock	\$	\$ 222	\$ 542	\$	\$2 138	\$4 162
Feed and grains		493	553		718	1 594
Machinery		364	750		93	169
Improvements.		114	374		4	3
Labor		108	364		91	118
Miscellaneous		25	28		6	11
Livestock expense		24	64		---	---
Crop expense.		103	266		---	---
Taxes		<u>182</u>	<u>273</u>		---	---
Total	\$	\$1 635	\$3 214	\$	\$3 050	\$6 057
Excess of cash sales over expenses.				\$	\$1 415	\$2 843
Increase in inventory					298	444
Income to labor and capital (Receipts less expenses).					1 713	3 287

The cumulative effect of several years of low agricultural prices on the demand for manufactured goods can be readily ascertained by a comparison of cash expenditures in 1934 with those in 1929. The average accounting farm in this study spent 53 percent of the cash income as operating expenses in 1929, while in 1934 the average accounting farm spent 54 percent of the cash income as operating expenses. The relationship, therefore, between cash income and expenses for the two years is approximately the same, but the 1934 cash income and expenses are only 50.6 percent as large as in 1929. There was, however, considerable difference in the distribution of the expense items. In 1934 the livestock purchases were 41 percent, and feed and grain purchases 43 percent as large as in 1929. In 1934 these farms paid out 49 percent as much for machinery, 30 percent as much for improvements, and 39 percent as much for crop expense as in 1929, while taxes were reduced to 67 percent of the 1929 level.

Comparison of Farms With High and Low Earnings

The most profitable farms in this study had net receipts per acre of \$11.63, as compared with a loss of \$1.35 per acre for the least profitable group. The reasons for this difference may be obtained from a study of the data on pages 5 and 7.

The most profitable farms, although having 20.1 fewer total acres, had a larger proportion of their land area tillable, and had 5.5 more crop acres than the least profitable farms. They had 17.4 acres more corn, and 3.9 acres more soybeans than the least profitable farms. The most profitable farms carried larger inventories of feed and grain on which to make a profit when prices advanced. Along with the larger acreage of crops, another reason for the larger inventories was the higher crop yields, there being an advantage of 15 bushels of corn, 6.3 bushels of oats, 10.2 bushels of wheat, and 11.7 bushels of soybeans per acre in favor of the high-profit group.

The most profitable farms had a larger average investment in productive livestock, and were more efficient in their livestock feeding operations than the least profitable farms. They had an investment in productive livestock of \$7.27 per acre, and fed \$1,251 of feed per farm, as compared with \$5.76 invested per acre, and \$1,652 of feed fed per farm on the least profitable farms. The productive livestock on the most profitable farms returned \$172 for each \$100 of feed fed, as compared with returns of \$115 for each \$100 of feed fed on the least profitable farms. The most profitable farms had an income of \$97 per litter farrowed, as compared with \$90 for the low-profit group.

The larger income on the most profitable farms was secured with a total operating cost of \$1.47 per acre, as compared with \$10.74 on the least profitable farms. Man labor costs per crop acre were \$6.39 on the most profitable farms, as compared with \$7.15 on the least profitable farms, while power and machinery costs per crop acre were \$3.56 on the most profitable farms and \$4.71 on the low-profit group.

Influence of AAA Programs on Cropping Systems and Farm Incomes

The farm-account records in Illinois were influenced both directly and indirectly by the corn-hog and wheat adjustment programs. A large percentage of accounting farms were under one or both contracts in 1934. The acreages of corn and wheat on these farms were therefore less than normal. This should have resulted in lower operating costs. Corn-hog benefit payments for the entire 1934 program will total about 40 million dollars for the state, while wheat benefit payments will be about 2.4 million dollars.

The benefit payments for accounting farms are indicated in the following table, which shows the average payment for those farms receiving payments, and includes only those payments received by the cooperator before the 1934 books were closed. In some cases only the first corn-hog check is included, while in other cases the second check had been received. The second payments not received and the third payments will be entered in the 1935 book.

AAA Benefit Payments Received in 1934

	Corn		Wheat		Hogs		Average of all payments ^{1/}
	Number of farms	Amount per farm	Number of farms	Amount per farm	Number of farms	Amount per farm	
1/3 most profitable farms	13	\$101	3	\$21	15	\$170	\$321
1/3 least profitable farms	11	51	6	65	12	124	143
All accounting farms	37	77	17	74	37	177	268

^{1/} Total benefit payments reported by accounting farms under contract for 1934 divided by total number of accounting farms.

On most farms the cash received from benefit payments will more than pay for the year's taxes. As an average of accounting farms in this study, the payments actually received were \$26 more than sufficient to pay the 1934 taxes.

It is interesting to note the use made of the contracted acres on the accounting farms. The average farm had 15.2 contracted acres which were used as follows: 2.3 idle; 2.5 mixed clover; .3 sweet clover; 3.5 soybeans; 2.9 alfalfa and 1.7 acres were in other crops. These data indicate that most farmers made good use of their contracted acres from the standpoint of soil improvement, as a large part of them were in legumes. When the Government restrictions on the use of crops grown on contracted acres were removed, they were on many farms the most profitable crops as they furnished hay and pasture where badly needed in drought areas. The legumes had the further advantage of being immune to attack from chinch bugs.

Farm earnings were influenced indirectly by the AAA programs in that the reduction in production increased the price of the commodities involved. The drought was a more important factor in reducing production than the adjustment programs, yet if it had not been for the corn-sealing program there would have been but little corn in the hands of farmers at the time the major price advance became effective.

Factors Helping to Analyze the Farm Business on 39
Peoria, Schuyler, and Fulton County Farms in 1934

Items	Your farm	Average of 39 farms	13 most profitable farms	13 least profitable farms
Size of farms--acres - - - - -	_____	200.8	201.2	221.3
Percent of land area tillable- - - - -	_____	71.3	76.5	65.9
Percent of tillable land in hay and pasture - - - - -	_____	37.2	36.2	42.4
Gross receipts per acre- - - - -	_____	13.13	20.10	9.39
Total expenses per acre- - - - -	_____	8.31	8.47	10.74
Net receipts per acre- - - - -	_____	4.82	11.63	-1.35
Value of land per acre - - - - -	_____	78	86	64
Total investment per acre- - - - -	_____	114	125	100
Acres in Corn- - - - -	_____	37.7	48.1	30.7
Oats- - - - -	_____	22.6	23.7	22.6
Wheat - - - - -	_____	15.1	11.9	19.1
Soybeans- - - - -	_____	4.7	7.4	3.5
Hay - - - - -	_____	27.4	25.7	34.1
Tillable pasture- - - - -	_____	25.8	30.0	27.5
Crop yields--Corn, bu. per acre- - -	_____	23.4	31.9	12.9
Oats, bu. per acre- - -	_____	8.9	10.4	4.1
Wheat, bu. per acre - -	_____	11.5	18.7	8.5
Soybeans, bu. per acre-	_____	21.6	25.9	14.2
Value of feed fed to productive L.S.	_____	1 400	1 261	1 652
Returns per \$100 of feed fed to productive livestock- - - - -	_____	141	172	115
Returns per \$100 invested in:				
Cattle- - - - -	_____	80	83	58
Poultry - - - - -	_____	264	284	216
Pigs weaned per litter - - - - -	_____	6.1	6.2	6.4
Income per litter farrowed - - - - -	_____	92	97	90
Dairy sales per dairy cow- - - - -	_____	43	39	40
Investment in productive L.S. per A.	_____	6.03	7.27	5.76
Receipts from productive L.S. per A.	_____	9.81	10.00	8.55
Man labor cost per crop acre - - - - -	_____	6.84	6.89	7.15
Machinery cost per crop acre - - - - -	_____	2.50	2.28	3.02
Power and mach. cost per crop A. - - -	_____	4.50	3.56	4.81
Farms with tractor - - - - -	_____	82%	100%	54%
Value of food fed to horses- - - - -	_____	210	166	281
Man labor cost per \$100 gross income- - - - -	_____	31	21	41
Expenses per \$100 gross income - - - - -	_____	63	42	114
Farm improvements cost per acre- - - - -	_____	.94	.78	1.20
Excess of sales over cash expenses -	_____	1 415	2 094	956
Increase in inventory- - - - -	_____	298	991	-448
Rate earned on investment- - - - -	_____	4.22%	9.31%	-1.34%
Gross receipts per farm- - - - -	_____	2 638	4 045	2 078

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Chart for Studying the Efficiency of Various Parts of Your Business,
Peoria, Schuyler, and Fulton Counties, 1934

The numbers above the lines across the middle of the page are the averages for the 39 farms included in this report for the factors named at the top of the page. By drawing a line across each column at the number measuring the efficiency of your farm in that factor, you can compare your efficiency with that of other farmers in your locality.

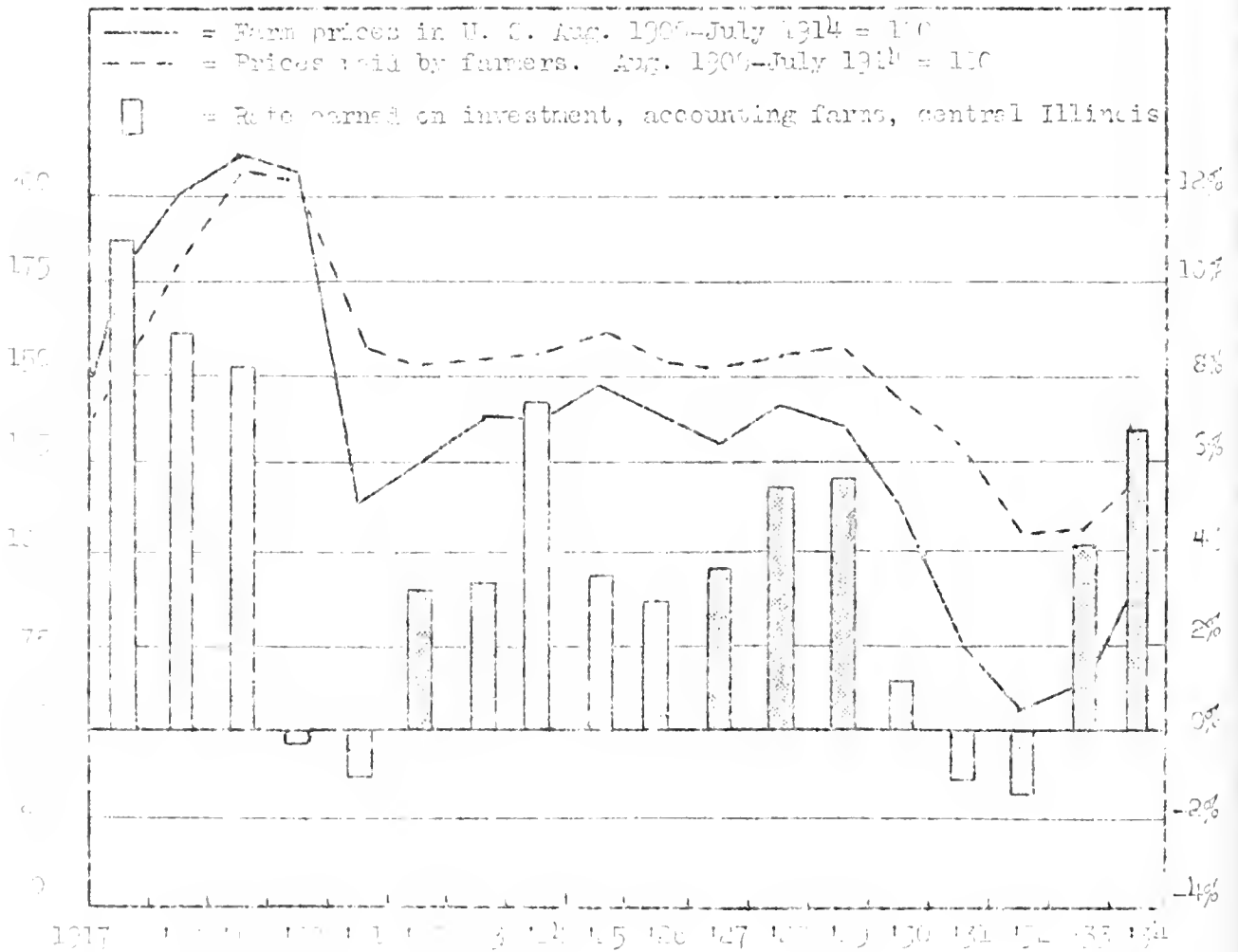
Rate earned on investment	Bushels per acre			Hogs: Income per litter	Dairy sales per dairy cow	Poultry income per \$100 invested	L.S. income per \$100 of feed fed	Cost per crop acre		Labor cost per \$100 gross receipts	Increase in inventory	Sales over cash expenses	Gross receipts		Acres in farm
	Corn	Oats	Wheat					Labor	Power and machinery				Per acre	Per farm	
14.22	43	24	32	167	63	464	216	.84	--	6	2300	2915	23	6400	400
12.22	39	21	28	152	63	424	201	2.04	0	11	2300	2615	21	5650	360
10.22	35	18	24	137	58	384	186	3.24	1.00	16	1800	2315	19	4900	320
8.22	31	15	20	122	55	344	171	4.44	2.00	21	1300	2015	17	4150	280
6.22	27	12	16	107	48	304	156	5.64	3.00	26	300	1715	15	3400	240
4.22	23.4	8.9	11.5	92	43	264	141	6.84	4.00	31	298	1415	13.13	2638	200.8
2.22	19	6	8	77	38	224	126	8.04	5.00	36	-200	1115	11	1900	160
.22	15	3	4	62	33	184	111	9.24	6.00	41	-700	815	9	1150	120
-1.78	11	0	0	47	28	144	96	10.44	7.00	46	-1200	515	7	400	80
-3.78	7	--	--	32	23	104	81	11.64	8.00	51	-1700	215	5	--	40
-5.78	3	--	--	17	18	64	66	12.84	9.00	56	-2200	--	3	--	0

Influence of Price Changes on Farm Earnings

Farm prices in 1934 advanced more rapidly than did the prices of commodities which farmers bought. Farmers of the United States as a group could exchange their farm products in 1934 for 74 percent as many goods as for the period 1909-1914, while in 1931 they received only 64 percent, and 1930 only 61 percent as much in exchange for what they had to sell as in the prewar period. In the month of February, 1935, this index of purchasing power had increased to 67 percent of prewar, the index of farm prices having risen to 111 as compared with an index of 127 for commodities which farmers buy. When the line representing farm prices drops below the line representing prices paid by farmers, farm earnings are very low, but when these lines come close together farm earnings increase. (See following graph.)

Index of Prices

Rate Earned



Since the price of some farm products advanced much more rapidly during 1934 than other products, it is evident that some farms would benefit more than others, depending upon the kind and quantity of products sold. Grain prices advanced much more rapidly than livestock prices; which resulted in a very bad price ratio for farmers who buy large quantities of feed. The average Illinois farm price of corn was 41 cents a bushel in January, 1934; it advanced steadily until the end of the year when it was 75 cents a bushel. Other grains made marked advance although not so great an advance as corn. The price of hogs fluctuated from a low of \$7.11 a hundred in May to a high of \$6.31 in September. The low point in the fall came in November when the average price was \$7.11. The price has advanced quite rapidly since November, the average price being \$7.50 for February, 1935. Beef cattle were worth \$4.11 a hundred in January, 1934 and advanced each month until September, when the price was \$5.00. They dropped to \$4.00 in December but increased again to \$7.40 for February, 1935.

The year 1934 set a record for the reduction in the numbers of livestock. The percentage decreases by species were as follows: horses, 1.1 percent; mules, 2.6 percent; all cattle, 11.2 percent; sheep, 4.7 percent; hogs, 35.3 percent. When all species are combined on the basis of their capacity to consume feed, the reduction was 14 percent. This reduction will greatly reduce the demand for feeds produced in 1935.

The relative change in prices of important commodities may be noted in the following graph, which shows the average Illinois farm prices by months as a percentage of the average prices for the period 1921-1930.



All commodities index represents the wholesale price of a large number of commodities for the United States, as compiled by the Bureau of Labor Statistics. Grain and livestock indices represent average monthly farm prices in Illinois.

Variation in Earnings Over Five-Year Period

A comparison of production, income, and expenditures on the accounting farms in Peoria, Schuyler, and Fulton Counties for the last five years is very interesting because of the violent fluctuations in the price level. Although the 1934 crop was nearly a failure and followed a smaller than average crop of 1933, the increased prices of both grain and livestock did have considerable effect in holding earnings in second place for the five-year period 1930-1934.

Earnings in 1935, as usual, will depend upon individual efficiency, weather, and prices. With normal weather conditions, prices of grain are likely to go down to a more normal level which will give individual efficiency the responsibility for higher earnings on each farm.

Comparison of Earnings and Investments on Accounting Farms in
Peoria, Schuyler, and Fulton Counties for 1930-1934

Items	1930	1931	1932	1933 ^{1/}	1934
Number of farms - - - - -	52	46	30	36	39
Average size of farms, acres- - - -	213	220	202	212	201
Average rate earned, to pay for management, risk and capital - - -	1.1%	-2.2%	-2.1%	5.4%	4.2%
Average labor and management wage -	\$-739	\$-1 557	\$-1 131	\$621	\$360
Gross income per acre - - - - -	15.61	7.57	6.49	15.93	13.13
Operating cost per acre - - - - -	13.83	10.52	8.91	8.53	8.31
Average value of land per acre- - -	115	93	75	97	78
Total investment per acre - - - - -	166	136	115	138	114
Investment per farm in:					
Total livestock- - - - -	3 455	2 622	1 737	1 249	1 587
Cattle - - - - -	1 613	1 021	741	796	630
Hogs - - - - -	1 090	932	502	501	425
Poultry- - - - -	123	118	90	64	73
Gross income per farm - - - - -	3 399	1 658	1 314	3 386	2 638
Income per farm from:					
Crops- - - - -	---	---	---	1 341	538
Miscellaneous income - - - - -	82	103	61	120	6
Total livestock- - - - -	3 317	1 565	1 253	1 925	2 003
Cattle - - - - -	525	34	72	171	309
Dairy sales- - - - -	432	269	134	280	192
Hogs - - - - -	2 160	1 092	611	1 260	1 207
Poultry- - - - -	190	147	114	103	84
Average yield of corn in bu.- - - -	29	44	53	44	23
Average yield of oats in bu.- - - -	31	40	45	30	9

^{1/} Records from Peoria, Schuyler, and Fulton Counties for 1933.

ANNUAL FARM BUSINESS REPORT ON THIRTY-SIX FARMS
IN MACON COUNTY, ILLINOIS, 1934

F. E. Johnston, J. Acheiman, and J. B. Andrews*

The farm earnings of 36 account-keeping farmers in Macon County showed an increase in 1934 over those of 1933. This is the second consecutive year of improvement in the business of these farms. The three years previous to 1933 showed very low returns.

These 36 accounts show for 1934 an average net income of \$2,277 per farm, as compared with an average of \$1,630 in 1933 and an average net loss of \$609 in 1932. The average cash income in 1934 was \$5,078 per farm, the cash business expenditures \$2,264 per farm, leaving a cash balance of \$2,814 to meet interest payments and family living expenses. (Those who keep home account books use the latter figure to represent the cash contribution of the farm to the "realized family income".) Besides the cash income, there was an inventory increase of \$701 per farm due to the rise in the prices of farm products. This increase, added to the cash balance, resulted in an average excess of receipts over expenses of \$3,515 per farm. The inventory increase was a larger part of the total farm income in 1934 than in 1933.

These data must not be considered representative of average farm conditions, for they were secured from farms which are larger than average, and which were managed by farmers who are more efficient than the average of all farmers in the county.

For the state as a whole, farm earnings were better in 1934 than in 1933 in spite of the fact that corn and oat yields were very low due to drouth and to chinch bug damage. In the western and southwestern parts of the state the drouth caused an almost total failure of both corn and oats. This accounts for farm earnings being lower there than in other parts of the state.

The corn crop was best in the southeastern part of the state, and was fair in the northwestern section. Wheat yields were particularly good in the south and central portions of the state. Soybean yields were very good throughout the state, and there was a larger than normal acreage in Illinois in 1934. This state produced over half of the nation's 1934 crop of soybeans.

Chinch bug damage extended over most of the state last year, but was much more severe in some sections than in others, and was much worse on some farms than on other farms in the same community. Conditions affecting crop yields were very spotted. This accounts in part for the wide variation in farm earnings from one section of the state to another, and the wider variations than usual from one farm to another.

* J. R. Gilkey, farm adviser in Macon County cooperated in supervising and collecting the records on which this report is based.

Industries other than agriculture again showed improved earnings over the previous year. A group of 240 industrial corporations reported by a nationally known bank showed average earnings of 5.0 percent on their invested capital in 1934, as compared with 3.4 percent for the same corporations in 1933. A similar group had a loss of one-tenth of one percent in 1932, and average earnings of 3.3 percent in 1931.

In comparing the average earnings of corporations with the rate earned on investment on accounting farms, it is well to keep in mind that in corporation accounting, charges are made for management, while in the farm accounts no comparable deduction has been made. On the other hand the farmer and his family receive food, fuel, and other items of living from the farm for which the farm has received no credit in the records used in this report. For the average central Illinois farm family, consisting of five persons, the value of the food and fuel furnished by the farm was about \$250 in 1934, when estimated on the basis of the wholesale price for farm products.

Variations in Farm Incomes

There was a much wider range in farm earnings on the accounting farms in 1934 than in 1933. This was true for the farms included in this report, and was also true when the average earnings of farms in one section of the state are compared with the earnings of farms in other areas.

The extremely wide range in earnings was due to a combination of physical and economic factors. The average yields of wheat and soybeans were much better, compared with the five-year average, than the average yields of corn and oats. This variation favored those sections which had larger acreages of the higher yielding crops in 1934. There was also a wide range in average corn yields from one section of the state to another, as well as between individual farms in the same area. The price of grains was high in 1934 as compared with prices of livestock and livestock products. Farms where grain sales constitute a large part of the farm income thus had an advantage. The rapid increase in the prices of farm products, particularly grains, favored those farms which had large stocks of salable products on hand at the beginning of the year. Many farmers who inventoried the corn on hand at the beginning of 1934 at 40 cents a bushel, later sold this corn for 50 cents.

In this group of 36 accounting farms the most successful third shows an average net income of \$4,218 while the average net income of the least successful third of the farms was only \$1,535. In 1933 the comparable net incomes for the two groups was \$2,714, and \$401 respectively.

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Investments, Receipts, Expenses and Earnings on 36
Macon County Farms in 1934

Items	Your farm	Average of 36 farms	12 most profitable farms	12 least profitable farms
CAPITAL INVESTMENTS				
Land - - - - -		31 223	27 453	33 338
Farm improvements- - - - -		4 950	3 812	7 009
Livestock total- - - - -		<u>1 604</u>	<u>1 297</u>	<u>2 142</u>
Horses - - - - -		352	354	376
Cattle - - - - -		965	532	1 499
Hogs - - - - -		173	202	169
Sheep- - - - -		23	22	42
Poultry- - - - -		91	137	56
Machinery and equipment- - - - -		1 510	1 364	1 802
Feed and grains- - - - -		1 942	2 143	1 737
Total capital investment	\$	<u>\$41 229</u>	<u>\$36 069</u>	<u>\$46 028</u>
RECEIPTS AND NET INCREASES				
Livestock total- - - - -		<u>1 583</u>	<u>2 158</u>	<u>1 563</u>
Horses - - - - -		11	15	22
Cattle - - - - -		482	541	693
Hogs (including AAA payments)-		572	844	462
Sheep- - - - -		26	13	60
Poultry- - - - -		85	152	44
Egg sales- - - - -		111	198	62
Dairy sales- - - - -		295	395	220
Feed and grains (including AAA payments) - - - - -		3 308	3 381	2 314
Labor off farm - - - - -		101	121	44
Miscellaneous receipts - - - - -		3	---	6
Total receipts & net increases	\$	<u>\$ 4 995</u>	<u>\$ 6 160</u>	<u>\$ 3 927</u>
EXPENSES AND NET DECREASES				
Farm improvements- - - - -		209	176	269
Horses - - - - -		---	---	---
Miscellaneous livestock decreases		---	---	---
Machinery and equipment- - - - -		371	304	495
Feed and grains- - - - -		---	---	---
Livestock expense- - - - -		27	40	18
Crop expense - - - - -		200	180	200
Hired labor- - - - -		264	193	341
Taxes- - - - -		386	370	440
Miscellaneous expenses - - - - -		23	21	22
Total expenses & net decreases	\$	<u>\$ 1 480</u>	<u>\$ 1 234</u>	<u>\$ 1 785</u>
RECEIPTS LESS EXPENSES- - - - - -	\$	<u>\$ 3 515</u>	<u>\$ 4 876</u>	<u>\$ 2 142</u>
Total unpaid labor- - - - -		638	658	607
Operator's labor - - - - -		507	540	495
Family labor - - - - -		131	118	112
Net income from investment and management - - - - -		2 877	4 218	1 535
RATE EARNED ON INVESTMENT - - - - -	%	<u>6.98%</u>	<u>11.70%</u>	<u>7.33%</u>
Return to capital and operator's labor and management - - - - -		3 324	4 758	2 030
5% of capital invested- - - - -		2 061	1 803	2 301
LABOR AND MANAGEMENT WAGE - - - - -	\$	<u>\$ 1 323</u>	<u>\$ 2 957</u>	<u>\$ -271</u>

The following table shows the number of farms having certain net incomes per acre. There was a marked difference between the most successful and the least successful farms.

<u>Average net in-</u> <u>come per acre</u>	<u>Number of</u> <u>farms</u>	<u>Average net in-</u> <u>come per acre</u>	<u>Number of</u> <u>farms</u>
\$25 and over	3	\$13.	5
23.	1	11.	3
21.	2	9.	5
19.	2	7.	3
17.	3	5.	1
15.	3	3 and under.	5

A further study of the farm businesses, made by comparing the investments, receipts, and expenses of the group of farms with the highest net incomes with those having the lowest net incomes, should throw some light on the question of why some farmers are more successful than others. This comparison is shown in the table on page 3.

The most successful farms averaged 223 acres each, the least successful 273 acres. The most successful farms carried larger inventories of feed and grains, and hence had a larger investment in this account than either the least successful farms, or the average of all farms. The investment in land, improvements, total livestock, and machinery and equipment was smaller on the most successful farms than for the other two groups. Difference in receipts from the sale of grains, hogs, and dairy products accounts for most of the difference in income between the most profitable, and the least profitable farms. The total expenses per acre, including the charge for family labor, was practically the same for both groups of farms.

Changes in Inventories and Inventory Values

The year 1934 was similar to 1933 in that the prices of farm products continued to advance, causing further increases in inventory values. Owing to the poor crop yields in 1934 there were fewer bushels of grain on hand to inventory at the end of the year than at the beginning. The value of the smaller amount of grain, however, was greater than for the larger amount on hand at the beginning of the year.

Bushels of Corn Inventoried

	<u>Jan. 1, 1934</u>	<u>Dec. 31, 1934</u>
Average of all farms.	2 905	1 898
Average of 12 most successful farms	3 554	2 650
Average of 12 least successful farms.	2 171	1 264
Your farm		

The most profitable farms had a much larger inventory of corn both at the beginning and at the end of the year. This difference accounted for a considerable part of their higher receipts and net increases from feed and grains.

The average inventory increase for the accounting farms in Macon County was \$701, as compared with an increase of \$555 in 1933, and an inventory loss of \$1,021 per farm in 1932. There were increases of \$7 in total livestock, \$670 in feed and grain, and \$49 in machinery. Such an increase in inventory as that for machinery results from the value of new replacements during the year being in excess of depreciation costs. This increase is of considerable interest, for it is the first time that such an increase in machinery inventories has occurred since farm earnings began to decline so drastically with the general depression.

Inventory Changes for 1934

Items	Beginning inventory 1-1-34	Closing inventory 12-31-34	Inventory changes 1934	Inventory changes, your farm
Total livestock.	\$ 1 604	\$ 1 611	\$ 7	\$
Feed and grains.	1 942	2 612	670	
Machinery.	1 510	1 559	49	
Improvements (except residence).	4 950	4 925	-25	
Total.	\$10 006	\$10 707	\$701	\$

Some Adjustments on Macon County Farms Since 1929

Farmers have been forced to make adjustments in their cash expenditures as the result of changes in their cash incomes. From 1929 through 1933 farm operating costs declined each year, but the year 1934 brought a reversal of this trend. Total operating expenses were 77 cents an acre higher in 1934 than in 1933, while cash operating expenses were \$2,264 per farm in 1934, as compared with \$1,741 in 1933. The largest increases in expenditures over the previous year were for improvements, and machinery and repairs for machinery. Indications point to an even greater expansion of spending for these items in 1935, since farmers have postponed repair and replacements of machinery and improvements during the five-year period since 1929.

Cash Income and Expenses on Accounting Farms in Macon County for 1929 and 1934

Items	Your farm 1934	Average cash expense per farm		Your farm 1934	Average cash income per farm	
		1934	1929		1934	1929
Livestock	\$	\$ 262	\$ 756	\$	\$1 832	\$3 334
Feed and grains		318	509		2 956	3 542
Machinery		598	917		178	146
Improvements.		186	346		2	---
Labor		264	498		101	36
Miscellaneous		23	36		3	14
Livestock expense		27	40		---	---
Crop expense.		200	273		---	---
Taxes		386	445		---	---
Total	\$	\$2 264	\$3 820	\$	\$5 073	\$7 072
Excess of cash sales over expenses.	\$			\$	\$2 814	\$3 252
Increase in inventory					701	530
Income to labor and capital (Receipts less expenses).					3 515	3 782

The cumulative effect of several years of low agricultural prices on the demand for manufactured goods can be readily ascertained by a comparison of cash farm expenditures in 1934 with those in 1929. Although the average cash income in 1934 was 72 percent of that in 1929, cash expenditures were only 59 percent as large. In 1934 livestock purchases were 35 percent, and feed and grain purchases 62 percent as large as in 1929. In 1934 these farms paid out 65 percent as much for machinery, and 73 percent as much for crop expense as in 1929, while taxes were reduced to 87 percent of the 1929 level.

Comparison of Farms With High and Low Earnings

The most profitable farms in this study had net receipts per acre of \$18.92, as compared with \$5.53 per acre for the least profitable farms. The reasons for this difference may be obtained from a study of the data on pages 3 and 8.

The most profitable farms were 55 acres smaller in size, but they had only 7.9 fewer crop acres than the least profitable farms. They had about the same acreage of soybeans, 5.4 acres more wheat, 9.6 acres more oats and 14.1 fewer acres of corn than the least profitable farms. The most profitable farms carried larger inventories of feed and grain on which to make a profit when prices advanced. They had an inventory increase in the feed and grain account of \$1,089, as compared with \$489 on the least profitable farms. Since acreages of crops on the two groups of farms were similar, one reason for the larger inventories was the higher crop yields, there being an advantage of 11.9 bushels of corn, 10.7 bushels of oats, 11.4 bushels of wheat, and 9.4 bushels of soybeans in favor of the most profitable farms.

The most profitable farms had an investment in productive livestock of \$5.06 per acre, and fed \$1,512 of feed per farm, as compared with \$5.66 invested per acre, and \$1,439 of feed fed per farm on the least profitable farms. The receipts from livestock on the most profitable farms were \$9.61 per acre, as compared with \$5.55 per acre on the least profitable farms. The productive livestock on the most profitable farms returned \$146 for each \$100 of feed fed, as compared with a return of \$107 for each \$100 of feed fed, on the least profitable farms. The dairy sales per dairy cow was \$60 on the most profitable farms, and \$39 on the least profitable farms. The return per litter farrowed on the most profitable farms was \$104 as compared with \$94 on the least profitable farms.

The total operating costs per acre were about the same for the two groups of farms. The man labor cost per crop acre was \$4.42 on the most profitable farms, and \$4.70 on the least profitable farms. The cost of power and machinery per crop acre amounted to \$2.75 on the most profitable farms, and \$5.71 on the least profitable farms.

Influence of AAA Programs on Cropping Systems and Farm Incomes

The farm-account records in Illinois were influenced both directly and indirectly by the corn-hog and wheat adjustment programs. A large percentage of accounting farms was under one or both contracts in 1934. The acreages of corn and wheat on these farms were therefore less than normal. This should have resulted in lower operating costs. Corn-hog benefit payments for the entire 1934 program will total about 40 million dollars for the state, while wheat benefit payments will be about 2.4 million dollars.

The benefit payments for accounting farms are indicated in the following table, which shows the average payment for those farms receiving payments, and includes only those payments received by the cooperator before the 1934 books were closed. In some cases only the first corn-hog check is included, while in other cases the second check had been received. The second payments not received, and the third payments will be entered in the 1935 book.

AAA Benefit Payments Received in 1934

	Corn		Wheat		Hogs		Average of all payments ^{1/}
	Number of farms	Amount per farm	Number of farms	Amount per farm	Number of farms	Amount per farm	
1/3 most profitable farms	11	\$153	9	\$151	10	\$125	\$358
1/3 least profitable farms	10	115	4	92	8	84	182
All accounting farms	32	140	17	135	28	88	257

^{1/} Total benefit payments reported by accounting farms under contract for 1934 divided by total number of accounting farms.

On many farms the cash received from benefit payments will more than pay the year's taxes. As an average for all accounting farms, the payments actually received were sufficient to pay 67 percent of the 1934 taxes.

It is interesting to note the use made of the contracted acres on the accounting farms. The average farm had 23.3 contracted acres which were used as follows: 5.3 idle; 8.3 mixed clover and timothy; 5.5 soybeans; 1.5 alfalfa; and 2.7 acres were in other crops. These data indicate that most farmers made good use of their contracted acres from the standpoint of soil improvement, as a large part of them were in legumes. When the Government restrictions on the use of crops grown on contracted acres were removed, they were on many farms the most profitable crops as they furnished hay and pasture where badly needed in drouth areas. The legumes had the further advantage of being immune to attack from chinch bugs.

Farm earnings were influenced indirectly by the AAA programs in that the reduction in production increased the price of the commodities involved. The drouth was a more important factor in reducing production than the adjustment programs, yet if it had not been for the corn-sealing program, there would have been but little corn in the hands of farmers at the time the major price advance became effective.

Factors Helping to Analyze the Farm Business on 36
Macon County Farms in 1934

Items	Your farm	Average of 36 farms	12 most profitable farms	12 least profitable farms
Size of farms--acres - - - - -	_____	248.7	222.9	277.7
Percent of land area tillable- - - - -	_____	90.9	95.6	86.4
Percent of tillable land in hay and pasture - - - - -	_____	26.8	25.5	33.3
Gross receipts per acre- - - - -	_____	\$ 20.08	\$ 27.64	\$ 14.14
Total expenses per acre- - - - -	_____	8.51	8.71	8.61
Net receipts per acre- - - - -	_____	11.57	18.92	5.53
Value of land per acre - - - - -	_____	125	123	120
Total investment per acre- - - - -	_____	166	162	166
Acres in Corn- - - - -	_____	71.7	64.4	78.5
Oats- - - - -	_____	24.1	26.1	16.5
Wheat - - - - -	_____	26.4	26.2	20.8
Soybeans- - - - -	_____	34.9	36.0	36.9
Hay - - - - -	_____	25.6	25.6	32.2
Tillable pasture- - - - -	_____	35.0	28.7	47.7
Crop yields--Corn, bu. per acre- - - - -	_____	29.1	36.1	24.2
Oats, bu. per acre- - - - -	_____	13.5	17.6	6.9
Wheat, bu. per acre - - - - -	_____	27.2	30.2	18.8
Soybeans, bu. per acre- - - - -	_____	26.9	30.4	21.0
Value of feed fed to productive L.S. - - - - -	_____	1 235	1 512	1 439
Returns per \$100 of feed fed to productive livestock- - - - -	_____	127	142	107
Returns per \$100 invested in:				
Cattle- - - - -	_____	85	146	70
Poultry - - - - -	_____	221	243	208
Pigs weaned per litter - - - - -	_____	5.8	5.8	6.7
Income per litter farrowed - - - - -	_____	93	104	94
Dairy sales per dairy cow- - - - -	_____	56	60	39
Investment in productive L.S. per A. - - - - -	_____	5.01	5.06	5.66
Receipts from productive L.S. per A. - - - - -	_____	6.32	9.61	5.55
Man labor cost per crop acre - - - - -	_____	4.48	4.42	4.70
Machinery cost per crop acre - - - - -	_____	1.94	1.65	2.57
Power and mach. cost per crop A. - - - - -	_____	2.98	2.73	3.71
Farms with tractor - - - - -	_____	89%	92%	75%
Value of feed fed to horses- - - - -	_____	210	215	240
Man labor cost per \$100 gross income- - - - -	_____	17	13	23
Expenses per \$100 gross income - - - - -	_____	42	32	61
Farm improvements cost per acre- - - - -	_____	.84	.79	.97
Excess of sales over cash expenses - - - - -	_____	2 814	3 319	2 061
Increase in inventory- - - - -	_____	701	1 557	81
Eate earned on investment- - - - -	_____	6.98	11.70%	3.33%
Gross receipts per farm- - - - -	_____	4 995	6 160	3 927

Chart for Studying the Efficiency of Various Parts of Your Business,
Hacon County, 1934

The numbers above the lines across the middle of the page are the averages for the 36 farms included in this report for the factors named at the top of the page. By drawing a line across each column at the number measuring the efficiency of your farm in that factor, you can compare your efficiency with that of other farmers in your locality.

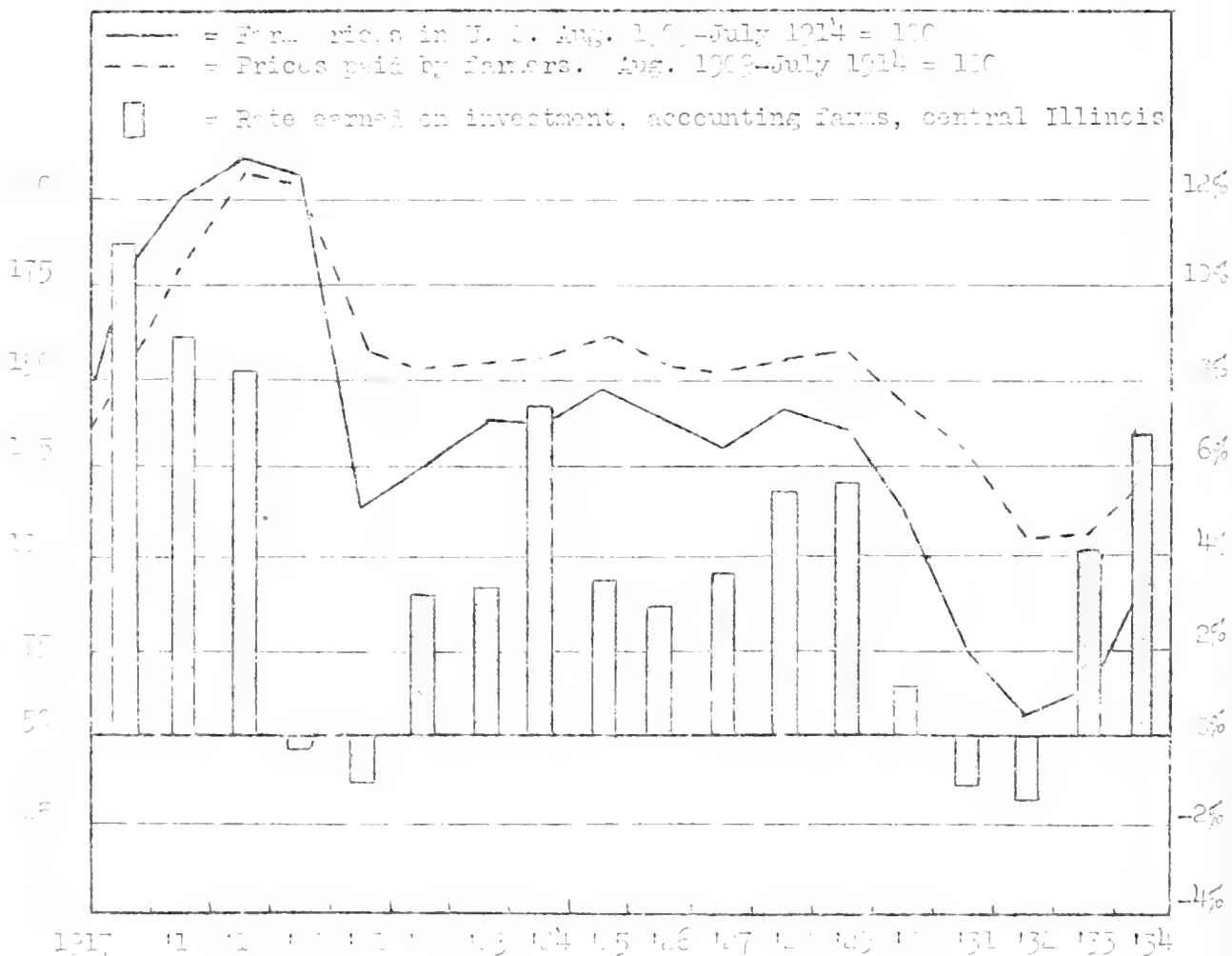
Rate earned on investment	Bushels per acre			Hogs: Income per litter	Dairy sales per dairy cow	Poultry income per \$100 invested	L.S. income per \$100 of feed fed	Cost per crop acre		Labor cost per \$100 gross receipts	Increase in inventory	Sales over cash expenses	Gross receipts		Acres in farm
	Corn.	Wheat	Soybeans					Labor	Power and machinery				Per acre	Per farm	
14.5	49	47	42	163	106	721	252	--	--	--	3700	6800	40	10000	552
13.0	45	43	39	153	86	301	227	--	--	--	5100	6000	36	9000	490
11.5	41	39	36	138	66	281	202	--	--	--	2500	5200	32	8000	430
10.0	37	35	33	123	76	261	177	1.43	.98	7	1900	4400	28	7000	370
8.5	33	31	30	108	66	241	152	2.93	1.98	12	1300	3600	24	6000	310
6.98	29.1	27.2	26.9	93	56	221	127	4.43	2.98	17	701	2814	20	4895	246
5.5	25	23	24	78	46	201	102	5.98	3.98	22	100	2000	16	4000	190
4.0	21	19	21	63	36	181	77	7.43	4.98	27	-500	1200	12	3000	130
2.5	17	15	18	48	26	161	52	8.93	5.98	32	-1100	400	8	2000	70
1.0	13	11	15	33	16	141	27	10.43	6.93	37	-1700	--	4	1000	10
-.5	9	7	12	18	6	121	2	11.93	7.93	42	-2300	--	--	--	--

Influence of Price Changes on Farm Earnings

Farm prices in 1934 advanced more rapidly than all the prices of commodities which farmers bought. Farmers of the United States as a group could exchange their farm products in 1934 for 74 percent as many goods as for the period 1909-1914, while in 1933 they received only 64 percent, and 1932 only 61 percent as much in exchange for what they had to sell as in the former period. In the month of February, 1935, this index of purchasing power had increased to 67 percent of former, the index of farm prices having risen to 111 as compared with an index of 107 for commodities which farmers buy. When the line representing farm prices drops below the line representing prices paid by farmers, farm earnings are very low, but when these lines come close together farm earnings increase. (See following graph.)

Index of Prices

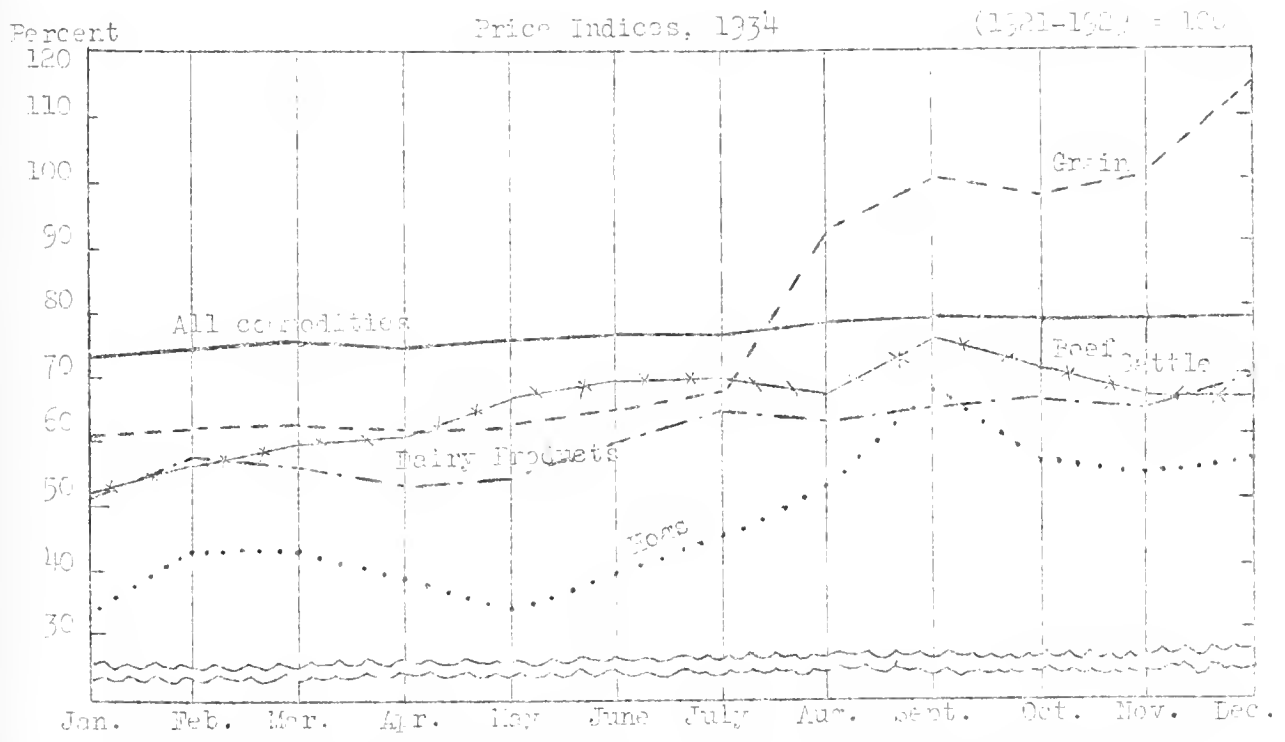
Rate Earned



Since the price of some farm products advanced much more rapidly during 1934 than other products, it is evident that some farms would benefit more than others, depending upon the kind and quantity of products sold. Grain prices advanced much more rapidly than livestock prices; which resulted in a very bad price ratio for farmers who buy large quantities of feed. The average Illinois farm price of corn was 41 cents a bushel in January, 1934; it advanced steadily until the end of the year when it was 89 cents a bushel. Other grains made marked advance although not so great an advance as corn. The price of hogs fluctuated from a low of \$5.20 a hundred in May to a high of \$6.30 in September. The low point in the fall came in November when the average price was \$5.15. The price has advanced quite rapidly since November, the average price being \$7.50 for February, 1935. Beef cattle were worth \$4.10 a hundred in January, 1934 and advanced each month until September, when the price was \$5.30. They dropped to \$5.20 in December but increased again to \$7.40 for February, 1935.

The year 1934 set a record for the reduction in the numbers of livestock. The percentage decreases by species were as follows: horses, 1.1 percent; mules, 2.6 percent; all cattle, 11.2 percent; sheep, 4.7 percent; hogs, 35.3 percent. When all species are combined on the basis of their capacity to consume feed, the reduction was 13 percent. This reduction will greatly reduce the demand for feeds produced in 1935.

The relative change in prices of important commodities may be noted in the following graph, which shows the average Illinois farm prices by months as a percentage of the average prices for the period 1921-1929.



All commodities index represents the wholesale price of a large number of commodities for the United States, as computed by Bureau of Labor Statistics. Grain and livestock indices represent average monthly farm prices in Illinois.

Variation in Earnings Over Five-Year Period

A comparison of production, income, and expenditures on the accounting farms in Macon County for the last five years is very interesting because of the violent changes in price level. 1934 was the second year of very low crop yields, yet total receipts per farm were higher than in any other year in the last five, and were 85 percent of the 1929 gross receipts. Operating costs per acre were lower than in any year of the five except 1933. Thus profits were the best the county had experienced since 1928.

Earnings in 1935 as usual will depend upon individual efficiency, weather, and prices. A normal year will mean larger yields of grain and probably lower prices.

Comparison of Earnings and Investments on Accounting Farms in
Macon County for 1930-1934

Items	1930	1931	1932	1933	1934
Number of farms - - - - -	56	32	53	30	36
Average size of farms, acres- - -	248	227	251	260	249
Average rate earned, to pay for management, risk and capital - -	1.5%	-1.3%	-1.4%	3.7%	7.0%
Average labor and management wage	\$-1 290	\$-2 506	\$-2 211	\$-58	\$1 323
Gross income per acre - - - - -	16.26	7.66	6.13	14.21	20.08
Operating cost per acre - - - - -	12.92	10.49	8.56	7.74	8.51
Average value of land per acre- -	173	163	132	136	126
Total investment per acre - - - -	228	214	169	173	166
Investment per farm in:					
Total livestock- - - - -	2 907	2 362	1 635	1 818	1 604
Cattle - - - - -	1 421	1 227	813	1 044	965
Hogs - - - - -	628	452	292	211	173
Poultry- - - - -	131	142	103	111	91
Gross income per farm - - - - -	4 040	1 741	1 539	3 692	4 995
Income per farm from:					
Crops- - - - -	1 798	355	510	2 395	3 308
Miscellaneous income - - - - -	72	89	52	52	3
Total livestock- - - - -	2 170	1 297	977	1 245	1 583
Cattle - - - - -	483	428	254	377	482
Dairy sales- - - - -	354	295	234	209	295
Hogs - - - - -	1 108	362	286	430	572
Poultry- - - - -	220	211	141	209	86
Average yield of corn in bu.- - -	40	45	56	22	29
Average yield of oats in bu.- - -	38	46	49	20	14
Average yield of wheat in bu.- - -	24	31	19	24	27

ANNUAL FARM BUSINESS REPORT ON THIRTY-NINE FARMS
IN FORD COUNTY, ILLINOIS, 1934

F. E. Johnston, R. C. Ross, and T. E. Hedges*

The farm earnings of 39 account-keeping farmers in Ford County showed an increase in 1934 over those of 1933. This is the second consecutive year of improvement in the business of these farms. The three years previous to 1933 showed very low returns.

These 39 accounts show for 1934 an average net income of \$1,618 per farm, as compared with an average of \$1,637 in 1933 and an average net loss of \$838 in 1932. The average cash income in 1934 was \$4,745 per farm, the cash business expenditures \$1,757 per farm, leaving a cash balance of \$2,988 to meet interest payments and family living expenses. (Those who keep home account books use the latter figure to represent the cash contribution of the farm to the "realized family income".) Besides the cash income there was an inventory increase of \$383 per farm due to the rise in the prices of farm products. This increase, added to the cash balance, resulted in an average excess of receipts over expenses of \$3,371 per farm. The inventory increase was a much smaller part of the total farm income in 1934 than in 1933.

These data must not be considered representative of average farm conditions, for they were secured from farms which are larger than average and were managed by farmers who are more efficient than the average of all farmers in the county.

For the state as a whole, farm earnings were better in 1934 than in 1933 in spite of the fact that corn and oat yields were very low due to the drouth and to chinch bug damage. In the western and southwestern parts of the state the drouth caused an almost total failure of both corn and oats, which accounts for farm earnings being lower there than in other parts of the state.

The corn crop was best in the southeastern part of the state and was fair in the northwestern section. Wheat yields were particularly good in the south and central portions of the state. Soybean yields were very good throughout the state and there was a larger than normal acreage in Illinois in 1934. This state produced over half of the nation's 1934 crop of soybeans.

Chinch bug damage extended over most of the state last year but was much more severe in some sections than in others and was much worse on some farms than on other farms in the same community. Conditions affecting crop yields were very spotted; which accounts in part for the wide variation in farm earnings from one section of the state to another and the wider variations than usual from one farm to another.

Industries other than agriculture again showed improved earnings over the previous year. A group of 840 industrial corporations reported by a nationally known bank showed average earnings of 5.0 percent on their invested capital in 1934, as compared with 3.4 percent for the same corpora-

*H. D. Triplett, farm adviser in Ford County cooperated in supervising and collecting the records on which this report is based.

tions in 1933. A similar group had a loss of one-tenth of one percent in 1932 and average earnings of 3.3 percent in 1931.

In comparing the average earnings of corporations with the rate earned on investment on accounting farms, it is well to keep in mind that in corporation accounting, charges are made for management, while in the farm accounts no comparable deduction has been made. On the other hand the farmer and his family receive food, fuel, and other items of living from the farm for which the farm has received no credit in the records used in this report. For the average central Illinois farm family, consisting of five persons, the value of the food and fuel furnished by the farm was about \$250 in 1934, when estimated on the basis of the wholesale price for farm products.

Variations in Farm Incomes

There was a much wider range in farm earnings on the accounting farms in 1934 than in 1933. This was true for the farms included in this report and was also true when the average earnings of farms in one section of the state are compared with the earnings of farms in other areas.

The extremely wide range in earnings was due to a combination of physical and economic factors. The average yields of wheat and soybeans were much better, compared with the five-year average, than the average yields of corn and oats. This variation favored those sections which had larger acreages of the higher yielding crops in 1934. There was also a wide range in average corn yields from one section of the state to another as well as between individual farms in the same area. The price of grains was high in 1934 as compared with prices of livestock and livestock products. Farms where grain sales constitute a large part of the farm income thus had an advantage. The rapid increase in the prices of farm products, particularly grains, favored those farms which had large stocks of salable products on hand at the beginning of the year. Many farmers who inventoried the corn on hand at the beginning of 1934 at 40 cents a bushel, later sold this corn for 80 cents.

In this group of 39 accounting farms the most successful third shows an average net income of \$4,670; the average net income of the least successful third of the farms was only \$794. In 1933 the comparable net incomes for the two groups was \$2,569 and \$724 respectively.

The following table shows the number of farms having certain net incomes per acre. There was a marked difference between the most successful and the least successful farms.

<u>Average net income per acre</u>	<u>Number of farms</u>	<u>Average net income per acre</u>	<u>Number of farms</u>
\$19.	2	\$7.	5
17.	4	5.	3
15.	2	3.	6
13.	4	1.	2
11.	5	-1.	2
9.	4		

Investments, Receipts, Expenses, and Earnings on
39 Ford County Farms

Items	Your farm	Average of 39 farms	13 most profitable farms	13 least profitable farms
<u>CAPITAL INVESTMENTS</u>				
Land - - - - -		33 790	42 065	23 692
Farm improvements - - - - -		4 494	5 461	3 079
Livestock total - - - - -		<u>1 614</u>	<u>1 824</u>	<u>1 385</u>
Horses - - - - -		606	713	507
Cattle - - - - -		694	766	594
Hogs - - - - -		188	232	130
Sheep - - - - -		28	12	47
Poultry - - - - -		98	101	107
Machinery and equipment - - -		1 525	1 494	1 647
Feed, grain and supplies - - -		2 614	3 513	1 960
Total capital investment	\$	<u>\$44 037</u>	<u>\$54 357</u>	<u>\$31 763</u>
<u>RECEIPTS AND NET INCREASES</u>				
Livestock total - - - - -	\$	<u>1 598</u>	<u>2 171</u>	<u>1 083</u>
Horses - - - - -		71	105	42
Cattle - - - - -		340	394	303
Hogs (includes AAA payments)		591	866	340
Sheep - - - - -		43	13	84
Poultry - - - - -		107	134	68
Egg sales - - - - -		141	196	110
Dairy sales - - - - -		305	463	136
Feed and grain (includes AAA payments)		2 978	4 678	1 518
Labor off farm - - - - -		108	127	50
Miscellaneous receipts - - -		2	2	2
Total receipts & net increases	\$	<u>\$ 4 686</u>	<u>\$ 6 978</u>	<u>\$ 2 653</u>
<u>EXPENSES AND NET DECREASES</u>				
Farm improvements - - - - -		277	343	193
Horses - - - - -		---	---	---
Miscellaneous livestock decreases		---	---	---
Machinery and equipment - - -		346	304	384
Feed, grain and supplies - - -		---	---	---
Livestock expense - - - - -		35	45	23
Crop expense - - - - -		134	166	101
Hired labor - - - - -		189	294	69
Taxes - - - - -		306	320	298
Miscellaneous expenses - - -		28	29	20
Total expenses & net decreases	\$	<u>\$ 1 315</u>	<u>\$ 1 501</u>	<u>\$ 1 088</u>
<u>RECEIPTS LESS EXPENSES</u>				
	\$	<u>\$ 3 371</u>	<u>\$ 5 477</u>	<u>\$ 1 565</u>
Total unpaid labor - - - - -		753	807	771
Operator's labor - - - - -		536	540	540
Family labor - - - - -		217	267	231
Net income from investment and management - - - - -		2 618	4 670	794
RATE EARNED ON INVESTMENT - - -	%	<u>5.94%</u>	<u>8.59%</u>	<u>2.41%</u>
Return to capital and operator's labor and management - - - - -		3 154	5 210	1 334
5% of capital invested - - - - -		2 202	2 715	1 588
LABOR AND MANAGEMENT WAGE - - -	\$	<u>\$ 952</u>	<u>\$ 2 492</u>	<u>\$ - 254</u>

A further study of the farm businesses made by comparing the investments, receipts, and expenses of the group of farms with the highest net incomes with those having the lowest should throw some light on the question of why some farmers are more successful than others. This comparison is shown in the table on page 3.

The most successful farms averaged 307 acres each, the least successful 241 acres. This difference in size accounts in part for the variation in the average investment, receipts, and expenses in the two groups. Difference in receipts from the sale of grains accounts for much of the difference in income between the two groups. Although the expenses per farm were higher on the most profitable farms, the total expense per acre, including the charge for family labor, was less than it was on the least profitable farms.

Changes in Inventories and Inventory Values

The year 1934 was similar to 1933 in that the prices of farm products continued to advance, causing further increases in inventory values. Owing to the poor crop yields in 1934 there were fewer bushels of grain on hand to inventory at the end of the year than at the beginning. The value of the smaller amount of grain, however, was greater than for the larger amount on hand at the beginning of the year.

Bushels of Corn Inventoried

	Jan. 1, 1934	Dec. 31, 1934
Average of all farms.	4 499	2 320
Average of 13 most successful farms .	6 431	3 390
Average of 13 least successful farms.	3 256	1 068
Your farm.		

The most profitable farms had a much larger inventory of corn both at the beginning and end of the year; which accounts in a large measure for the difference in farm earnings.

The average inventory increase for the accounting farms in Ford County was \$383 in 1934 as compared with \$960 in 1933 and an inventory loss of \$1,045 a farm in 1932. There were increases of \$159 in total livestock, \$389 in feed and grain, and \$14 in machinery, while improvements showed a decrease of \$189. Such an increase in inventory as that for machinery results from the value of new replacements during the year being in excess of depreciation costs. This increase is of considerable interest for it is the first time that such an increase in machinery inventories has occurred since farm earnings began to decline so drastically with the general depression.

-5-

Inventory Changes for 1934

Items	Beginning	Closing	Inventory	Inventory
	inventory	inventory	changes	changes
	1-1-34	12-31-34	1934	your farm
Total livestock.	\$1 614	\$1 773	\$159	\$
Feed and grain	2 614	3 003	389	
Machinery.	1 535	1 549	24	
Improvements (except residence)	4 404	4 305	-189	
Total.	\$10 247	\$10 630	\$383	

Some Adjustments on Ford County Farms Since 1929

Farmers have been forced to make adjustments in their cash expenditures as the result of changes in their cash incomes. From 1929 through 1933 farm operating costs declined each year, but the year 1934 brought a reversal of this trend. Total operating expenses were 38 cents an acre higher in 1934 than in 1933, while cash operating expenses were \$1,757 a farm in 1934 as compared with \$1,492 in 1933. The largest increase in expenditures over the previous year was for machinery and supplies for machinery. Indications point to an even greater expansion of spending for these items in 1935 since farmers have postponed machinery replacements during the four-year period since 1929.

Cash Income and Expenses on Accounting Farms in Ford County
1929 and 1934

Items	Your	Average cash		Your	Average cash	
	farm	expense per farm		farm	income per farm	
	1934	1934	1929	1934	1934	1929
Livestock.	\$	\$ 328	\$ 451	\$	\$1 767	\$2 941
Feed and grain		141	363		2 730	3 487
Machinery.		493	1 075		123	142
Improvements		103	374		15	---
Labor.		189	554		108	78
Miscellaneous.		28	33		2	5
Livestock expense.		35	47		---	---
Crop expense		134	292		---	---
Taxes.		306	466		---	---
Total.	\$	\$1 757	\$3 665	\$	\$4 745	\$6 663
Excess of cash sales over expenses.					\$2 983	\$2 998
Increase in inventory.					383	1 156
Income to labor and capital (receipts less expenses) . . .					3 371	4 154

The cumulative effect of several years of low agricultural prices on the demand for manufactured goods can readily be ascertained by a comparison of cash farm expenditures in 1934 with those in 1929. Although the average cash income in 1934 was 71 percent of that in 1929, cash expenditures were only half as large. In 1934 livestock purchases were 73 percent and feed and grain purchases 39 percent as large as in 1929. In 1934 these farms paid out 45 percent as much for machinery and 46 percent as much for crop expense as in 1929, while taxes were reduced to only 66 percent of the 1929 level.

Comparison of Farm With High and Low Earnings

The most profitable farms in this study had net receipts per acre of \$15.21 as compared with \$3.30 for the least profitable group. The reasons for this difference may be obtained from a study of the data on pages 3 and 8.

The most profitable farms were larger and carried larger inventories on which to make a profit when prices advanced. One reason for the larger inventories, however, was the higher crop yields, there being an advantage of 17.3 bushels of corn and 6.5 bushels of oats per acre in favor of the high-profit group. Crop yields were so low on the least profitable farms that there was an average inventory loss of \$302 per farm in spite of the price advance.

Although there was about the same amount of livestock per acre on the farms in the two groups there was a difference in the income of \$2.41 an acre in favor of the most profitable farms. The returns for each \$100 of feed fed to livestock was \$156 as compared with \$120.

The total operating costs on the acre basis were slightly higher on the least profitable farms. The power and machinery cost was an important factor in accounting for this difference.

-7-

Influence of AAA Programs on Cropping Systems and Farm Incomes

The farm-account records in Illinois were influenced both directly and indirectly by the corn-hog and wheat adjustment programs. A large percentage of accounting farms were under one or both contracts in 1934. The acreages of corn and wheat on these farms were therefore less than normal. This should have resulted in lower operating costs. Corn-hog benefit payments for the entire 1934 program will total about 40 million dollars for the state, while wheat benefit payments will be about 2.4 million dollars.

The benefit payments for accounting farms are indicated in the following table, which shows the average payment for those farms receiving payments and includes only those payments received by the cooperator before the 1934 books were closed. In some cases only the first corn-hog check is included, while in other cases the second check had been received. The second payments not received and the third payments will be entered in the 1935 book.

AAA Benefit Payments Received in 1934

	Corn		Wheat		Hogs		Average of all payments ^{1/}
	Number of farms	Amount per farm	Number of farms	Amount per farm	Number of farms	Amount per farm	
1/3 most profitable farms	13	\$217	3	\$138	11	\$135	\$363
1/3 least profitable farms	13	113	1	22	11	56	171
All accounting farms	39	160	5	160	35	94	257

^{1/} Total benefit payments for accounting farms under contract for 1934, divided by the total number of accounting farms.

On many farms the cash received from benefit payments will more than pay the year's taxes. As an average of all accounting farms, the payments actually received were sufficient to pay 84 percent of the 1934 taxes.

It is interesting to note the use made of the contracted acres on the accounting farms. The average farm had 27.5 contracted acres which were used as follows: 4.8 idle; 4.5 red clover; 8.3 sweet clover; 5.3 soybeans; 2.9 alfalfa; and 1.7 acres were in other crops. These data indicate that most farmers made good use of their contracted acres from the standpoint of soil improvement, as most of them were in legumes. When the government restrictions on the use of crops grown on contracted acres were removed, they were on many farms the most profitable crops as they furnished hay and pasture where badly needed in drouth areas. The legumes had the further advantage of being immune to attack from chinch bugs.

Farm earnings were influenced indirectly by the AAA programs in that the reduction in production increased the price of the commodities involved. The drouth was a more important factor in reducing production than the adjustment programs, yet if it had not been for the corn-sealing program there would have been but little corn in the hands of farmers at the time the major price advance became effective.

Factors Helping to Analyze the Farm Business on
39 Ford County Farms in 1934

Items	Your farm	Average of 39 farms	13 most profitable farms	13 least profitable farms
Size of Farms--acres - - - - -		270.6	307	240.9
Percent of land area tillable- - -		94.2	95.4	94.6
Percent of tillable land in hay & pasture - - - - -		26.8	27.0	26.1
Gross receipts per acre- - - - -		17.30	22.73	11.01
Total expenses per acre- - - - -		7.64	7.52	7.71
Net receipts per acre- - - - -		9.66	15.21	3.30
Value of land per acre - - - - -		125	137	98
Total investment per acre- - - - -		163	177	132
Acres in Corn- - - - -		91.8	111.8	79.7
Oats- - - - -		71.0	69.7	72.3
Wheat - - - - -		3.3	7.7	.5
Soybeans- - - - -		8.8	6.9	7.9
Hay - - - - -		21.8	24.4	16.4
Tillable Pasture- - - - -		47.1	54.7	43.4
Crop yields--Corn, bu. per acre- -		29.4	36.5	19.2
Oats, bu. per acre- -		13.0	15.4	8.8
Value of feed fed to productive L.S.		1 141	1 323	865
Returns per \$100 of feed fed to productive livestock- - - - -		142	156	120
Returns per \$100 invested in:				
Cattle- - - - -		90	120	71
Poultry - - - - -		230	180	168
Pigs weaned per litter - - - - -		6.0	6.4	5.8
Income per litter farrowed - - - -		94	100	81
Dairy sales per dairy cow- - - - -		51	58	34
Investment in productive L.S. per A.		3.39	3.93	3.92
Receipts from productive L.S. per A.		5.66	6.73	4.32
Man labor cost per crop acre - - -		4.27	4.38	4.28
Machinery cost per crop acre - - -		1.66	1.23	2.08
Power and mach. cost per crop A. -		2.42	1.93	2.90
Farms with tractor - - - - -		92%	100%	77%
Value of feed fed to horses- - - -		230	262	193
Man labor cost per \$100 gross income- - - - -		19	16	30
Expenses per \$100 gross income - -		44	33	79
Farm improvements cost per acre- -		1.02	1.12	.80
Excess of sales over cash expenses		2 988	4 773	1 367
Increase in inventory- - - - -		383	704	-302
Rate earned on investment- - - - -		5.94	8.59	2.41
Gross receipts per farm- - - - -		4 686	6 973	2 653

Chart for Studying the Efficiency of Various Parts of Your Business,
Ford County, 1934

The numbers above the lines across the middle of the page are the averages for the 39 farms included in this report for the factors named at the top of the page. By drawing a line across each column at the number measuring the efficiency of your farm in that factor, you can compare your efficiency with that of other farmers in your locality.

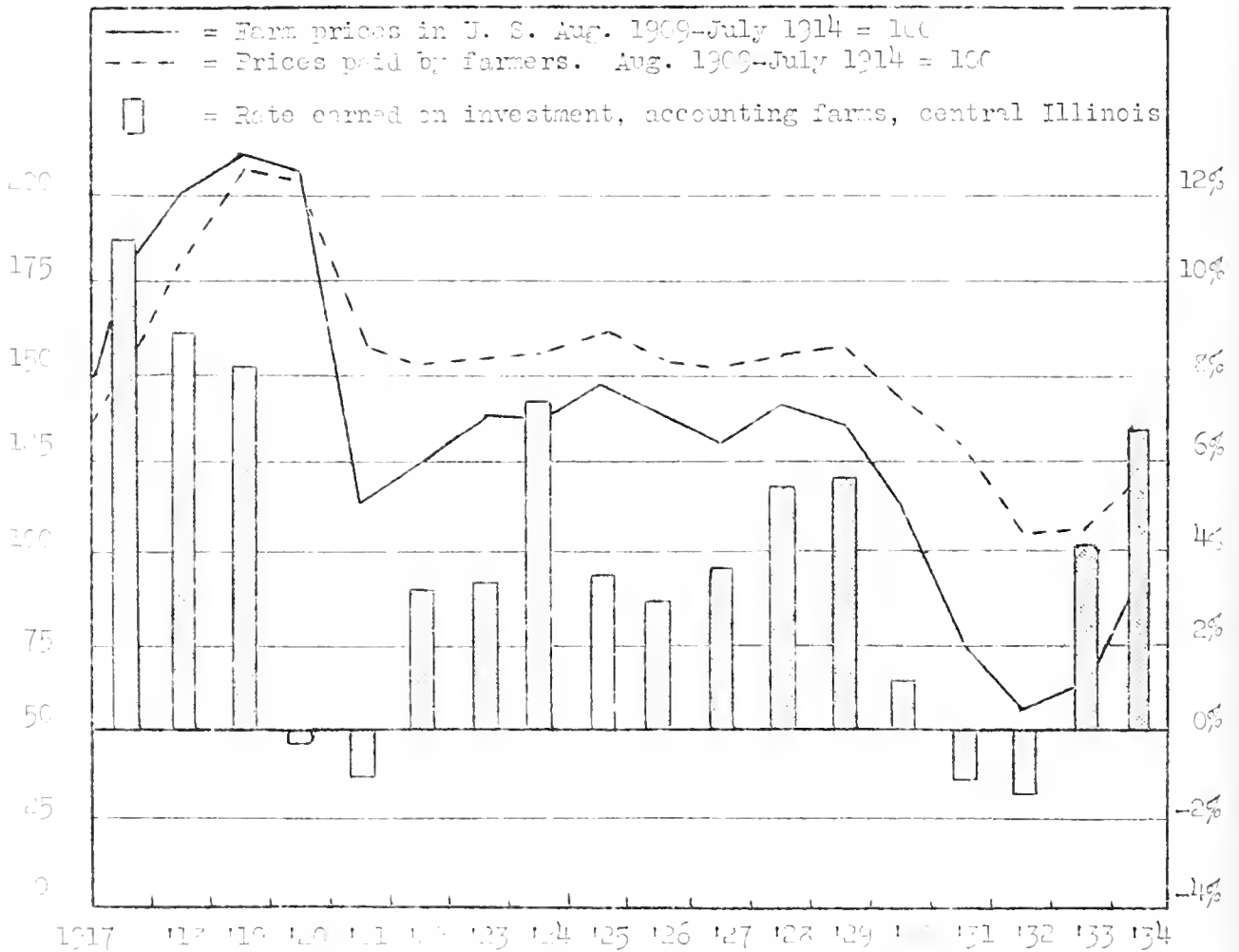
Rate earned on investment	Bushels per acre			Hogs: Income per litter	Dairy sales per dairy cow	Poultry income per \$100 invested	L.S. income per \$100 of feed fed	Cost per crop acre		Labor cost per \$100 gross receipts	Increase in inventory	Sales over cash expenses	Gross receipts		Acres in farm
	Corn	Oats						Labor	Power and machinery				Per acre	Per farm	
11	55	28		120	75	450	190	1.80	.40	---	2400	8000	32	9600	520
10	50	25		115	70	390	180	2.30	.80	0	2000	7000	29	8600	470
9	45	22		110	65	350	170	2.80	1.20	5	1600	6000	26	7600	420
8	40	19		105	60	310	160	3.30	1.60	10	1200	5000	23	6600	370
7	35	16		100	55	270	150	3.80	2.00	15	800	4000	20	5600	320
5.94	29.4	13.0		94	51	230	142	4.27	2.42	19	385	2988	17	4686	271
5	25	10		90	45	190	130	4.30	2.80	25	0	2000	14	3600	220
4	20	7		85	40	150	120	5.30	3.20	30	-400	1000	11	2600	170
3	15	4		80	35	110	110	5.80	3.60	35	-800	0	8	1600	120
2	10	1		75	30	70	100	6.30	4.00	40	-1200	---	5	600	70
1	5	---		70	25	30	90	6.80	4.40	45	-1600	---	2	0	20

Influence of Price Changes on Farm Earnings

Farm prices in 1934 advanced more rapidly than did the prices of commodities which farmers bought. Farmers of the United States as a group could exchange their farm products in 1934 for 74 percent as many goods as for the period 1909-1914, while in 1933 they received only 64 percent, and 1932 only 61 percent as much in exchange for what they had to sell as in the prewar period. In the month of February, 1935, this index of purchasing power had increased to 87 percent of prewar, the index of farm prices having risen to 111 as compared with an index of 137 for commodities which farmers buy. When the line representing farm prices drops below the line representing prices paid by farmers, farm earnings are very low, but when these lines come close together farm earnings increase. (See following graph.)

Index of Prices

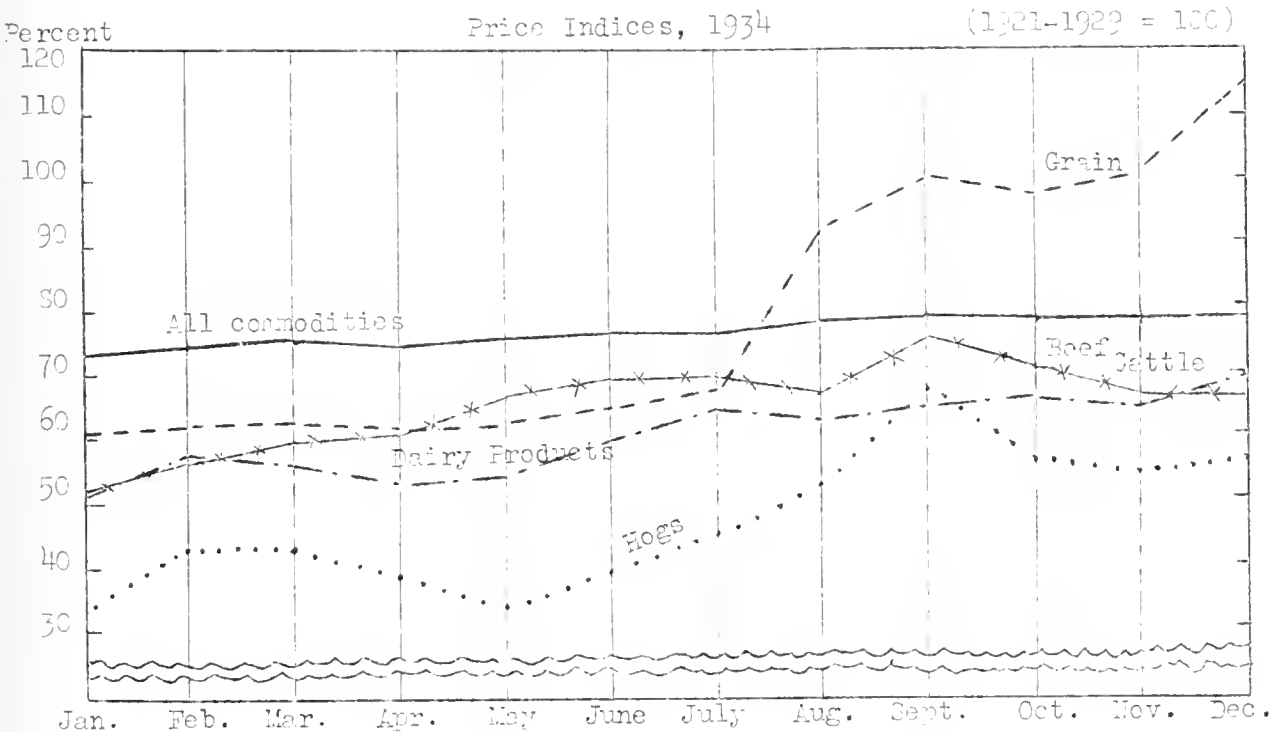
Rate Earned



Since the price of some farm products advanced much more rapidly during 1934 than other products, it is evident that some farms would benefit more than others, depending upon the kind and quantity of products sold. Grain prices advanced much more rapidly than livestock prices; which resulted in a very bad price ratio for farmers who buy large quantities of feed. The average Illinois farm price of corn was 41 cents a bushel in January, 1934; it advanced steadily until the end of the year when it was 78 cents a bushel. Other grains made marked advance although not so great an advance as corn. The price of hogs fluctuated from a low of \$5.20 a hundred in May to a high of \$6.30 in September. The low point in the fall came in November when the average price was \$5.10. The price has advanced quite rapidly since November, the average price being \$7.50 for February, 1935. Beef cattle were worth \$4.10 a hundred in January, 1934 and advanced each month until September, when the price was \$5.90. They dropped to \$5.20 in December but increased again to \$7.40 for February, 1935.

The year 1934 set a record for the reduction in the numbers of livestock. The percentage decreases by species were as follows: horses, 1.1 percent; mules, 2.6 percent; all cattle, 11.7 percent; sheep, 4.7 percent; hogs, 35.3 percent. When all species are combined on the basis of their capacity to consume feed, the reduction was 13 percent. This reduction will greatly reduce the demand for feeds produced in 1935.

The relative change in prices of important commodities may be noted in the following graph, which shows the average Illinois farm prices by months as a percentage of the average prices for the period 1921-1929.



All commodities index represents the wholesale price of a large number of commodities for the United States, as computed by Bureau of Labor Statistics. Grain and livestock indices represent average monthly farm prices in Illinois.

Variation in Earnings Over Five-Year Period

A comparison of production income and expenditures on the accounting farms in Ford County for the last five years is very interesting because of the violent changes in price level. 1934 was the second year of very low crop yields, yet total receipts per farm were higher than in any other year in the last five and were 78 percent of the 1929 gross receipts. Operating costs per acre were lower than in any year of the five except 1933. Thus profits were the best the county had experienced since 1928.

Earnings in 1935 as usual will depend upon individual efficiency, weather, and prices. A normal year will mean larger yields of grain and probably lower prices.

Comparison of Earnings and Investments on Accounting Farms in
Ford County for 1930-1934

Items	1930	1931	1932	1933	1934
Number of farms - - - - -	32	35	30	32	39
Average size of farms, acres - -	264	275	264	282	271
Average rate earned, to pay for management, risk and capital - -	2.0%	2.1%	-1.0%	3.6%	5.0
Average labor and management wage - - - - -	\$-1 141	\$-2 069	\$-2 557	\$-94	\$952
Gross income per acre - - - - -	15.62	9.62	4.96	13.06	17.0
Operating cost per acre - - - - -	10.90	9.38	7.13	7.26	7.0
Average value of land per acre - -	185	171	132	129	125
Total investment per acre - - - -	231	211	171	161	163
Investment per farm in:					
Total livestock - - - - -	2 244	2 214	1 896	1 660	1 614
Cattle - - - - -	965	976	785	759	694
Hogs - - - - -	372	387	280	191	188
Poultry - - - - -	138	137	130	115	98
Total receipts per farm - - - - -	4 116	2 650	1 311	3 638	4 686
Income per farm from:					
Crops - - - - -	2 287	1 462	862	2 520	2 978
Miscellaneous income - - - - -	113	33	74	15	2
Total livestock - - - - -	1 719	1 155	962	1 153	1 598
Cattle - - - - -	222	108	119	304	340
Dairy sales - - - - -	506	409	191	206	305
Hogs - - - - -	741	451	362	420	591
Poultry - - - - -	200	182	169	166	107
Average yield of corn in bu. - - -	35	44	50	32	29
Average yield of oats in bu. - - -	30	47	42	19	13

ANNUAL FARM BUSINESS REPORT ON THIRTY-ONE FARMS
IN IROQUOIS COUNTY, ILLINOIS, 1934

P. E. Johnston, J. B. Andrews, and A. L. Leonard*

The farm earnings of 31 account-keeping farmers in Iroquois County showed an increase in 1934 over those of 1933. This is the second consecutive year of improvement in the business of these farms. The three years previous to 1933 showed very low returns.

These 31 accounts show for 1934 an average net income of \$1,753 per farm, as compared with an average of \$1,637 in 1933 and an average net loss of \$838 in 1932. The average cash income in 1934 was \$4,945 per farm, the cash business expenditures \$1,638 per farm, leaving a cash balance of \$2,407 to meet interest payments and family living expenses. (Those who keep home account books use the latter figure to represent the cash contribution of the farm to the "realized family income".) Besides the cash income, there was an inventory increase of \$134 per farm due to the rise in the prices of farm products. This increase, added to the cash balance, resulted in an average excess of receipts over expenses of \$1,541 per farm. The inventory increase was a much smaller part of the total farm income in 1934 than in 1933.

These data must not be considered representative of average farm conditions, for they were secured from farms which are larger than average, and were managed by farmers who are more efficient than the average of all farmers in the county.

For the state as a whole, farm earnings were better in 1934 than in 1933 in spite of the fact that corn and oat yields were very low due to the drouth and to chinch bug damage. In the western and southwestern parts of the state the drouth caused an almost total failure of both corn and oats, which accounts for farm earnings being lower there than in other parts of the state.

The corn crop was best in the southeastern part of the state, and was fair in the northwestern section. Wheat yields were particularly good in the south and central portions of the state. Soybean yields were very good throughout the state, and there was a larger than normal acreage in Illinois in 1934. This state produced over half of the nation's 1934 crop of soybeans.

Chinch bug damage extended over most of the state last year, but was much more severe in some sections than in others, and was much worse on some farms than on other farms in the same community. Conditions affecting crop yields were very spotted; which accounts in part for the wide variation in farm earnings from one section of the state to another, and the wider variations than usual from one farm to another.

*C. E. Johnson, farm adviser in Iroquois County, cooperated in supervising and collecting the records on which this report is based.

Industries other than agriculture again showed improved earnings over the previous year. A group of 840 industrial corporations reported by a nationally known bank showed average earnings of 5.0 percent on their invested capital in 1934, as compared with 3.4 percent for the same corporations in 1933. A similar group had a loss of one-tenth of one percent in 1932 and average earnings of 3.3 percent in 1931.

In comparing the average earnings of corporations with the rate earned on investment on accounting farms it is well to keep in mind that in corporation accounting, charges are made for management, while in the farm accounts no comparable deduction has been made. On the other hand the farmer and his family receive food, fuel, and other items of living from the farm for which the farm has received no credit in the records used in this report. For the average central Illinois farm family, consisting of five persons, the value of the food and fuel furnished by the farm was about \$250 in 1934, when estimated on the basis of the wholesale price for farm products.

Variations in Farm Incomes

There was a much wider range in farm earnings on the accounting farms in 1934 than in 1933. This was true for the farms included in this report, and was also true when the average earnings of farms in one section of the state are compared with the earnings of farms in other areas.

The extremely wide range in earnings was due to a combination of physical and economic factors. The average yields of wheat and soybeans were much better, compared with the five-year average, than the average yields of corn and oats. This variation favored those sections which had larger acreages of the higher yielding crops in 1934. There was also a wide range in average corn yields from one section of the state to another, as well as between individual farms in the same area. The price of grains was high in 1934, as compared with prices of livestock and livestock products. Farms where grain sales constitute a large part of the farm income thus had an advantage. The rapid increase in the prices of farm products, particularly grains, favored those farms which had large stocks of salable products on hand at the beginning of the year. Many farmers who inventoried the corn on hand at the beginning of 1934 at 40 cents a bushel, later sold this corn for 60 cents.

In this group of 31 accounting farms the most successful third shows an average net income of \$1,685, while the average net income of the least successful third of the farms was only \$695. Figured on a cash basis the most successful farms had on an average \$1,381 more cash income left to meet interest payments and family living than did the least successful farms. In 1933 the comparable net incomes for the two groups was \$2,426 and \$-19 respectively.

Investments, Receipts, Expenses and Earnings on 31
Iroquois County Farms in 1934

Items	Your farm	Average of 31 farms	10 most profitable farms	10 least profitable farms
<u>CAPITAL INVESTMENTS</u>				
Land - - - - -		27 435	27 221	25 570
Farm improvements- - - - -		4 695	4 309	4 235
Livestock total- - - - -		<u>1 881</u>	<u>2 117</u>	<u>1 379</u>
Horses - - - - -		676	699	617
Cattle - - - - -		736	802	511
Hogs - - - - -		223	336	157
Sheep- - - - -		155	130	6
Poultry- - - - -		91	90	83
Machinery and equipment- - -		1 540	1 302	1 540
Feed and grains- - - - -		2 124	2 172	1 459
Total capital investment	\$	\$37 675	\$35 921	\$34 881
<u>RECEIPTS AND NET INCREASES</u>				
Livestock total- - - - -		<u>2 079</u>	<u>2 224</u>	<u>1 366</u>
Horses - - - - -		53	35	42
Cattle - - - - -		550	243	254
Hogs (including AAA payments)		664	730	572
Sheep- - - - -		39	17	6
Poultry- - - - -		135	119	49
Egg sales- - - - -		129	108	133
Dairy sales- - - - -		484	717	310
Feed and grains (including AAA payments)- - - - -		1 595	1 664	1 325
Labor off farm - - - - -		111	210	15
Miscellaneous receipts - - -		2	---	3
Total receipts & net increases	\$	\$ 3 787	\$ 4 692	\$ 2 709
<u>EXPENSES AND NET DECREASES</u>				
Farm improvements- - - - -		240	231	269
Horses - - - - -		---	---	---
Miscellaneous livestock decreases		---	---	---
Machinery and equipment- - -		299	278	271
Feed and grains- - - - -		---	---	---
Livestock expense- - - - -		50	68	22
Crop expense - - - - -		131	127	127
Hired labor- - - - -		139	222	113
Taxes- - - - -		311	344	317
Miscellaneous expenses - - -		26	17	24
Total expenses & net decreases	\$	\$ 1 246	\$ 1 344	\$ 1 142
<u>RECEIPTS LESS EXPENSES-</u>				
Total unpaid labor- - - - -		<u>738</u>	<u>673</u>	<u>872</u>
Operator's labor - - - - -		517	540	463
Family labor - - - - -		271	133	404
Net income from investment and management- - - - -		<u>1 753</u>	<u>2 665</u>	<u>695</u>
RATE EARNED ON INVESTMENT - - - -	%	<u>4.65%</u>	<u>7.27%</u>	<u>1.99%</u>
Return to capital and operator's labor and management- - - - -		2 270	3 235	1 163
% of capital invested- - - - -		1 884	1 946	1 744
LABOR AND MANAGEMENT WAGE - - - -	\$	\$ 336	\$ 1 578	\$ 581

The following table shows the number of farms having certain net incomes per acre. There was a marked difference between the most successful and the least successful farms.

<u>Average net in-</u> <u>come per acre</u>	<u>Number of</u> <u>farms</u>	<u>Average net in-</u> <u>come per acre</u>	<u>Number of</u> <u>farms</u>
\$5.	3	\$1.	8
4.	3	3.	3
11.	6	1.	2
6.	4	-1.	1
7.	4		

A further study of the farm businesses made by comparing the investments, receipts, and expenses of the group of farms with the highest net incomes with those having the lowest should throw some light on the question of why some farmers are more successful than others. This comparison is shown in the table on page 3.

The most profitable farms averaged 231 acres each and had an average capital investment of \$56,041 per farm, as compared with 145 acres and \$34,881 for the less profitable farms. The most profitable farms had 19 more acres of tillable land, and 16 more acres of crops per farm than the least profitable farms. The most successful group of farms secured average gross receipts of \$4,693, while the least successful obtained \$2,709. A difference of \$1,456 in receipts and net increases from livestock accounts for a large part of this difference.

Changes in Inventories and Inventory Values

The year 1934 was similar to 1933 in that the prices of farm products continued to advance, causing further increases in inventory values. Owing to the poor crop yields in 1934, there were fewer bushels of grain on hand to inventory at the end of the year than at the beginning. The value of the smaller amount of grain, however, was exactly equal to that of the larger amount on hand at the beginning of the year.

Bushels of Corn Inventoried

	<u>Jan. 1, 1934</u>	<u>Dec. 31, 1934</u>
Average of all farms.	3,257	1,257
Average of 10 most successful farms . .	3,142	1,256
Average of 10 least successful farms. .	2,149	933
Four farms		

The most profitable farms had a larger inventory of corn both at the beginning and at the end of the year. This difference accounted for a considerable part of their higher net increases of feed and grains.

The average inventory increase for the accounting farms in Iroquois County was \$134 in 1934 as compared with \$617 in 1933, and an inventory loss of \$940 a farm in 1932. There was an increase of \$523 in the inventory of total livestock, while machinery showed a decrease of \$59 and improvements a decrease of \$130. Many farms show an increase in machinery inventory, which can be explained by the value of new replacements during the year being in excess of depreciation costs. Indications point to an expansion of spending for machinery and repairs in 1935, since farmers have postponed machinery replacements during the five-year period since 1929.

Inventory Changes for 1934

Items	Beginning inventory 1-1-34	Closing inventory 12-31-34	Inventory changes 1934	Inventory changes your farm
Total livestock.	\$1 831	\$2 304	\$523	\$
Feed and grains.	2 124	2 124	--	
Machinery.	1 540	1 481	-59	
Improvements (except residence)	4 605	4 475	-130	
Total.	\$10 340	\$10 374	\$134	\$

Some Adjustments on Iroquois County Farms Since 1929

Farmers have been forced to make adjustments in their cash expenditures as the result of changes in their cash incomes. From 1929 through 1934 farm operating costs declined each year. Total operating expenses were 51 cents an acre lower in 1934 than in 1933, while cash operating expenses were \$1,838 a farm in 1934 as compared with \$1,238 in 1933. The largest increases in expenditures over the previous year were for livestock and feed and grain.

Cash Income and Expenses on Accounting Farms in Iroquois County
1929 and 1934

Items	Your farm 1934	Average cash expense per farm 1934	Your farm 1934	Average cash income per farm 1934	Your farm 1929	Average cash income per farm 1929
Livestock	\$	\$ 573	\$ 451	\$	\$2 129	\$2 041
Feed and grains		337	363		1 832	3 497
Machinery		311	1 075		71	142
Improvements.		110	384		--	--
Labor		129	554		111	70
Miscellaneous		26	33		2	5
Livestock expense		50	47		--	--
Crop expense.		131	232		--	--
Taxes.		311	466		--	--
Total	\$	\$1 838	\$3 665	\$	\$4 845	\$6 663
Excess of cash sales over expenses.	\$			\$	\$2 407	\$2 093
Increase in inventory					134	1 154
Income to labor and capital (Receipts less expenses)					2 541	4 152

The cumulative effect of several years of low agricultural prices on the demand for manufactured goods can readily be ascertained by a comparison of cash farm expenditures in 1934 with those in 1929. Although the average cash income in 1934 was 64 percent of that in 1929, cash expenditures were only 50 as large. In 1934 livestock purchases were 83 percent, and feed and grain purchases 93 percent as large as in 1929. In 1934 these farms paid out 29 percent as much for machinery, and 45 percent as much for crop expense as in 1929, while taxes were reduced to only 67 percent of the 1929 level.

Comparison of Farms With High and Low Earnings

After deducting total expenses and net decreases from income and net increases, there remained a net increase of \$11.29 per acre for the most profitable farms as compared with \$2.24 per acre for the least profitable group. For the most profitable group this was a return of 7.27 percent on the capital invested in the farm business; for the least profitable group this was a return of 1.99 percent. The reasons for this difference may be obtained from a study of the data on pages 5 and 6.

In Iroquois County the most successful farms secured higher crop yields; they raised 10.4 bushels more corn, 3 bushels more oats, and 7.3 bushels more soybeans per acre, than the least successful farms.

The total investment in productive livestock was \$6.74 per acre on the most successful farms, as compared with \$3.76 on the least successful farms. The receipts and net increases were \$11.51, and \$5.41 per acre, respectively. This difference in livestock efficiency is further illustrated by the fact that the returns per \$100 of feed fed were \$133 for the most profitable farms, as compared with \$125 for the least successful farms. Dairy sales were \$51 per cow higher, and income per litter farrowed \$56 higher on the most profitable farms, than on the least profitable farms.

The higher yields and greater income secured from livestock on the most successful farms was accomplished with a total operating expense of only 27 cents per acre, above that on the least successful farms. The cost of power and machinery was 77 cents per crop acre lower, while man labor costs were \$1.07 per crop acre lower for the most successful farms.

Influence of AAA Programs on Cropping Systems and Farm Incomes

The farm-account records in Illinois were influenced both directly and indirectly by the corn-hog and wheat adjustment programs. A large percentage of accounting farms were under one or both contracts in 1934. The acreages of corn and wheat on these farms were therefore less than normal. This should have resulted in lower operating costs. Corn-hog benefit payments for the entire 1934 program will total about 40 million dollars for the state, while wheat benefit payments will be about 2.4 million dollars.

The benefit payments for accounting farms are indicated in the following table, which shows the average payment for those farms receiving payments, and includes only those payments received by the cooperator before the 1934 books were closed. In some cases only the first corn-hog check is included, while in other cases the second check had been received. The second payments not received and the third payments will be entered in the 1935 book.

AAA Benefit Payments Received in 1934

	Corn		Wheat		Hogs		Average of all payments ^{1/}
	Number of farms	Amount per farm	Number of farms	Amount per farm	Number of farms	Amount per farm	
1/3 most profitable farms	9	\$145	--	\$---	10	\$127	\$257
1/3 least profitable farms	10	122	--	--	9	106	217
All accounting farms	29	127	1	70	30	110	227

^{1/} Total benefit payments reported by accounting farms under contract for 1934 divided by total number of accounting farms.

On some farms the cash received from benefit payments will more than pay the year's taxes. As an average of all accounting farms, the payments actually received were sufficient to pay 73 percent of the 1934 taxes.

It is interesting to note the use made of the contracted acres on the accounting farms. The average farm had 21.2 contracted acres which were used as follows: 8.3 idle; 3.4 red clover; 2.6 sweet clover; 3.6 soybeans; .9 alfalfa; and 1.9 acres were in other crops. These data indicate that most farmers made good use of their contracted acres from the standpoint of soil improvement, as approximately one-half of them were in legumes. When the government restrictions on the use of crops grown on contracted acres were removed, they were on many farms the most profitable crops as they furnished hay and pasture where badly needed in drouth areas. The legumes had the further advantage of being immune to attack from chinch bugs.

Farm earnings were influenced indirectly by the AAA programs in that the reduction in production increased the price of the commodities involved. The drouth was a more important factor in reducing production than the adjustment programs, yet if it had not been for the corn-scaling program there would have been but little corn in the hands of farmers at the time the major price advance became effective.

Factors Helping to Analyze the Farm Business on 31
Iroquois County Farms in 1934

Items	Your farm	Average of 31 farms	10 most profitable farms	10 least profitable farms
Size of farms-- acres - - - - -	_____	254.9	237.9	244.7
Percent of land area tillable- - -	_____	91.4	96.4	87.5
Percent of tillable land in hay and pasture- - - - -	_____	34.0	33.5	35.7
Gross receipts per acre- - - - -	_____	14.86	19.75	11.07
Total expenses per acre- - - - -	_____	7.98	8.46	8.23
Net receipts per acre- - - - -	_____	6.88	11.29	2.84
Value of land per acre - - - - -	_____	102	114	104
Total investment per acre- - - - -	_____	142	155	143
Acres in Corn- - - - -	_____	76.4	76.1	78.3
Oats- - - - -	_____	56.4	65.0	43.2
Wheat - - - - -	_____	1.2	---	---
Soybeans- - - - -	_____	8.5	3.5	7.9
Hay - - - - -	_____	29.6	29	27.8
Tillable pasture- - - - -	_____	49.6	47.9	48.4
Crop yields--Corn, bu. per acre- -	_____	21.2	27.4	17
Oats, bu. per acre- -	_____	15	16	13
Soybeans, bu. per acre	_____	18.1	25.6	18.3
Value of feed fed to productive L.S.	_____	1 520	2 064	1 053
Returns per \$100 of feed fed to productive livestock- - - - -	_____	133	133	125
Returns per \$100 invested in:				
Cattle- - - - -	_____	121	161	97
Poultry - - - - -	_____	244	223	212
Pigs weaned per litter - - - - -	_____	6	6.2	6.1
Income per litter farrowed - - - -	_____	114	147	91
Dairy sales per dairy cow- - - - -	_____	65	91	40
Investment in productive L.S. per A.	_____	5.33	6.74	3.56
Receipts from productive L.S. per A.	_____	7.93	11.51	5.41
Man labor cost per crop acre - - -	_____	5.04	4.73	5.85
Machinery cost per crop acre - - -	_____	1.63	1.40	1.64
Power and mach. cost per crop A. -	_____	2.65	2.19	2.96
Farms with tractor - - - - -	_____	71%	60%	70%
Value of feed fed to horses- - - -	_____	245	227	261
Man labor cost per \$100 gross income - - - - -	_____	26	18	36
Expenses per \$100 gross income - -	_____	54	43	74
Farm improvements cost per acre- -	_____	.94	.97	1.10
Excess of sales over cash expenses	_____	2 407	3 211	1 330
Increase in inventory- - - - -	_____	134	147	237
Rate earned on investment- - - - -	_____	4.65%	7.27%	1.99%
Gross receipts per farm- - - - -	_____	3 787	4 698	2 709

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Chart for Studying the Efficiency of Various Parts of Your Business,
Iroquois County, 1934

The numbers above the lines across the middle of the page are the averages for the 31 farms included in this report for the factors named at the top of the page. By drawing a line across each column at the number measuring the efficiency of your farm in that factor, you can compare your efficiency with that of other farmers in your locality.

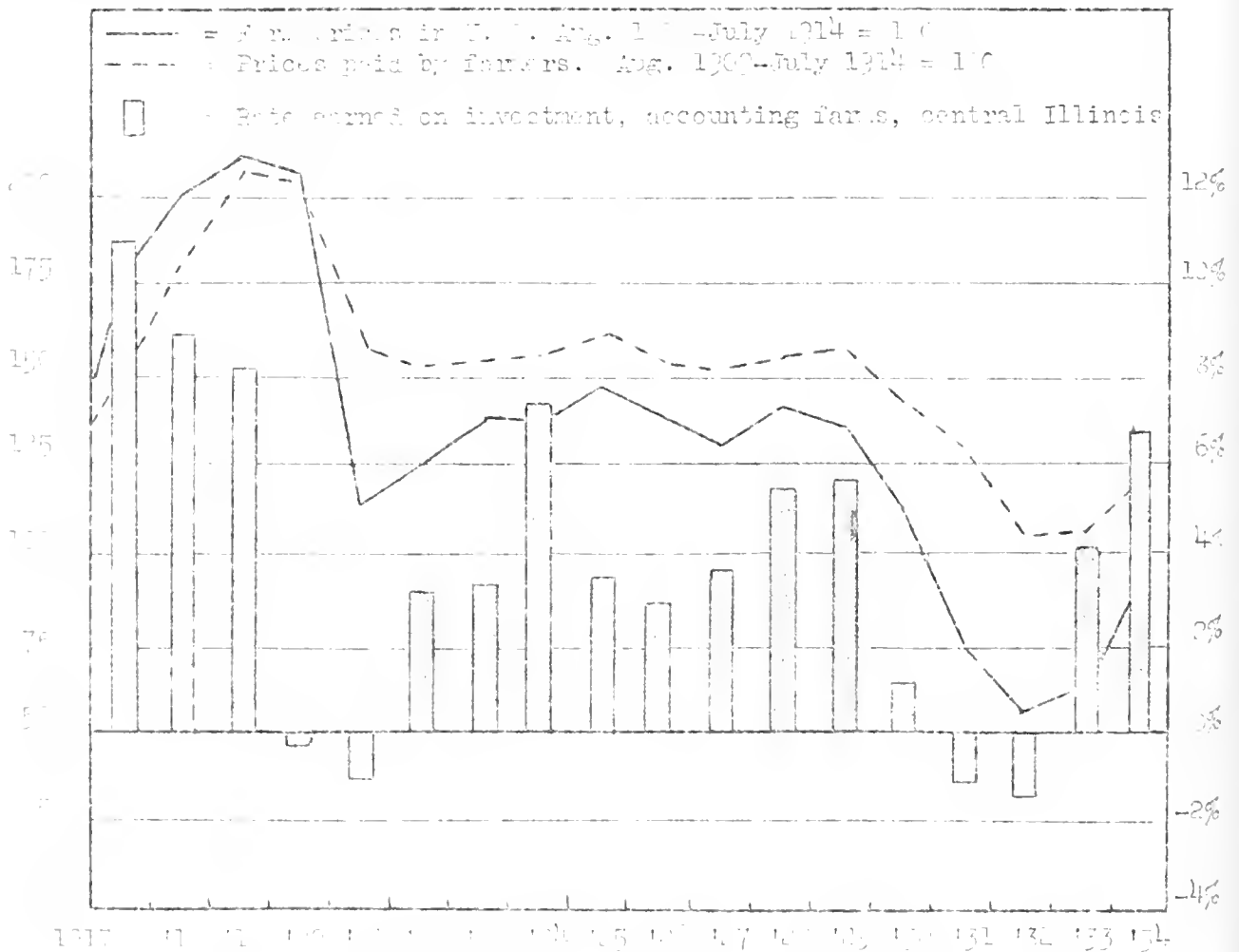
Rate earned on investment	Bushels per acre			Hogs: Income per litter	Dairy sales per dairy cow	Poultry income per \$100 invested	U.S. income per \$100 of feed fed	Cost per crop acre		Labor cost per \$100 Gross receipts	Increase in inventory	Sales over cash expenses	Gross receipts		Acres in farm
	Corn	Oats	Soybeans					Labor	Power and machinery				Per acre	Per farm	
9.65	43	35	23	164	100	304	233	.04	.15	--	2130	4900	30	7200	510
8.65	39	31	26	154	93	364	215	1.04	.65	2	1730	4400	27	7000	460
7.65	35	27	24	104	86	334	103	1.04	1.15	8	1330	3900	24	6200	410
6.65	31	23	20	134	71	304	173	2.04	1.65	14	930	3400	21	5400	360
5.65	27	19	20	124	72	274	153	4.04	2.15	20	530	2900	18	4600	310
4.65	22.9	15	13.1	114	65	244	133	5.04	2.65	26	134	2407	14.86	3787	255
3.65	19	11	16	104	58	214	113	6.04	3.15	32	-270	1900	12	3000	210
2.65	15	7	14	94	51	184	93	7.04	3.65	38	-670	1400	9	2200	160
1.65	11	3	12	84	44	154	73	7.04	4.15	44	-1070	950	6	1400	110
.65	7	--	10	74	37	124	53	9.04	4.65	50	-1470	400	3	600	60
-.35	3	--	8	64	30	94	33	10.04	5.15	56	-1370	-100	0	--	10

Influence of Price Changes on Farm Earnings

Farm prices in 1934 advanced more rapidly than did the prices of commodities which farmers bought. Farmers of the United States as a group could exchange their farm products in 1934 for 74 percent as many goods as for the period 1900-1914, while in 1933 they received only 61 percent, and 1932 only 51 percent as much in exchange for what they had to sell as in the former period. In the month of February, 1935, this index of purchasing power had increased to 67 percent of former, the index of farm prices having risen to 111 as compared with an index of 17 for commodities which farmers buy. When the line representing farm prices drops below the line representing prices paid by farmers, farm earnings are very low, but when these lines come close together farm earnings increase. (See following graph.)

Index of Prices

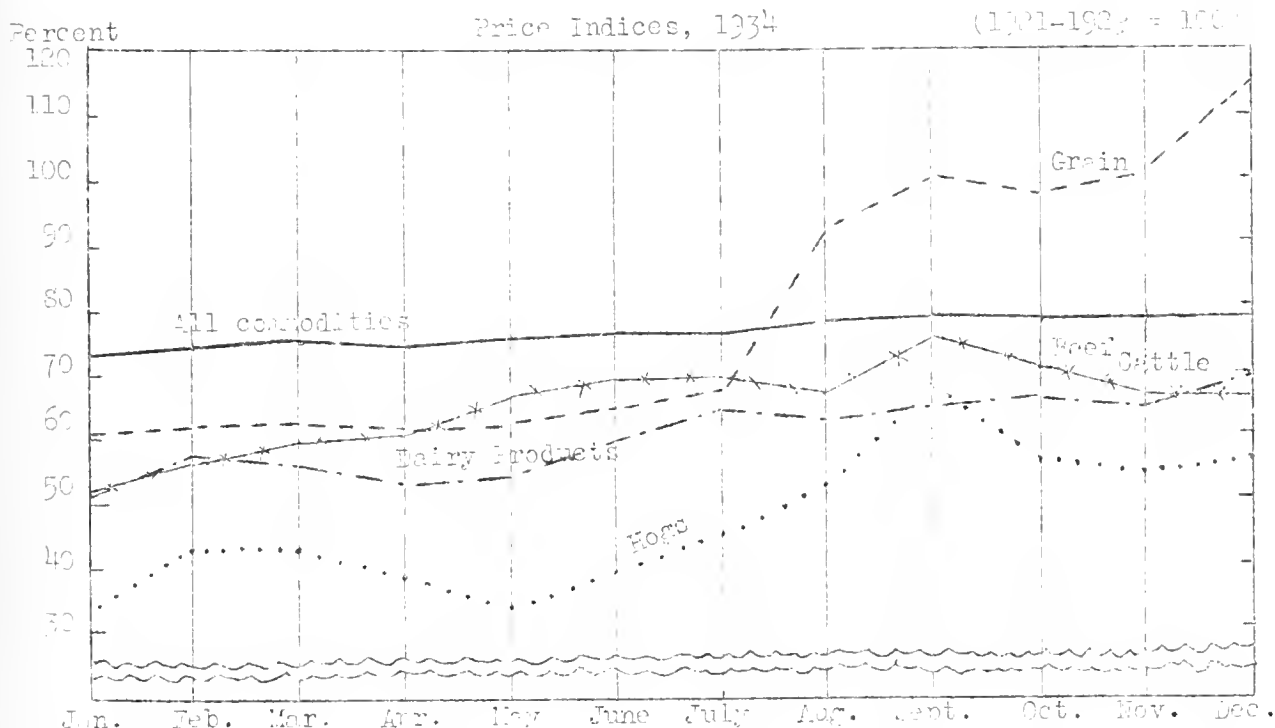
Rate Earned



Since the price of some farm products advanced much more rapidly during 1934 than other products, it is evident that some farms would benefit more than others, depending upon the kind and quantity of products sold. Grain prices advanced much more rapidly than livestock prices; which resulted in a very bad price ratio for farmers who buy large quantities of feed. The average Illinois farm price of corn was 41 cents a bushel in January, 1934; it advanced steadily until the end of the year when it was 88 cents a bushel. Other grains made marked advance although not so great an advance as corn. The price of hogs fluctuated from a low of \$7.00 a hundred in May to a high of \$6.30 in September. The low point in the fall came in November when the average price was \$5.10. The price has advanced quite rapidly since November, the average price being \$7.50 for February, 1935. Beef cattle were worth \$4.10 a hundred in January, 1934 and advanced month until September, when the price was \$5.90. They dropped to \$3.20 in December but increased again to \$7.40 for February, 1935.

The year 1934 set a record for the reduction in the numbers of livestock. The percentage decreases by species were as follows: horses, 1.1 percent; mules, 2.0 percent; all cattle, 11.2 percent; sheep, 4.7 percent; hogs, 35.3 percent. When all species are combined on the basis of their capacity to consume feed, the reduction was 13 percent. This reduction will greatly reduce the demand for feeds produced in 1935.

The relative change in prices of important commodities may be noted in the following graph, which shows the average Illinois farm prices by months as a percentage of the average prices for the period 1921-1929.



All commodities index represents the wholesale price of a large number of commodities for the United States, as computed by Bureau of Labor Statistics. Grain and livestock indices represent average monthly farm prices in Illinois.

Variation in Earnings Over Five-Year Period

A comparison of production, income, and expenditures on the accounting farms in Iroquois County for the last five years is very interesting because of the violent changes in price level. 1934 was the second year of low crop yields, yet total receipts per farm were higher than in any other year in the last five and were 59 percent of the 1929 gross receipts. Operating costs per acre were lower than in any year of the five. Thus profits were the best the county had experienced since 1929.

Earnings in 1935 as usual will depend upon individual efficiency, weather and prices. A normal year will mean larger yields of grain and probably lower prices.

Comparison of Earnings and Investments on Accounting Farms in
Iroquois County for 1930-1934

Items	1930 ^{1/}	1931 ^{1/}	1932 ^{2/}	1933 ^{2/}	1934
Number of farms - - - - -	38	41	37	34	31
Average size of farms, acres - - -	243	242	234	231	255
Average rate earned, to pay for management, risk and capital - - -	.24%	-1.4%	-1.7%	3.0%	4.65%
Average labor and management wages	\$-1 723	\$-2 172	\$-2 124	\$-208	\$ 386
Gross income per acre - - - - -	12.27	7.93	5.67	13.21	14.86
Operating cost per acre - - - - -	11.83	10.19	8.59	8.49	7.98
Average value of land per acre - - -	147	134	126	117	108
Total investment per acre - - - - -	208	184	169	158	148
Investment per farm in:					
Total livestock- - - - -	3 274	2 422	1 822	1 740	1 831
Cattle - - - - -	1 560	974	716	810	736
Hogs - - - - -	526	445	221	188	223
Poultry- - - - -	179	160	138	123	91
Gross income per farm - - - - -	2 986	1 915	1 327	3 048	3 787
Income per farm from:					
Crops- - - - -	898	568	284	1 822	1 595
Miscellaneous income - - - - -	53	36	25	32	2
Total livestock- - - - -	2 035	1 311	1 018	1 194	2 079
Cattle - - - - -	301	12	138	112	550
Dairy sales- - - - -	526	590	362	368	484
Hogs - - - - -	349	434	286	474	664
Poultry- - - - -	331	230	180	189	105
Average yield of corn in bu. - - -	33	41	49	29	23
Average yield of oats in bu. - - -	32	39	43	18	15

^{1/} Record from Kankakee County included 1930 and 1931.

^{2/} Record from Kankakee and Vermilion Counties included for 1932 and 1933.

ANNUAL FARM BUSINESS REPORT ON THIRTY-EIGHT FARMS
IN CHAMPAIGN COUNTY, ILLINOIS, 1934

P. E. Johnston, R. C. Ross, and T. R. Hedges*

The farm earnings of 38 account-keeping farmers in Champaign County showed an increase in 1934 over those of 1933. This is the second consecutive year of improvement in the business of these farms. The three years previous to 1933 showed very low returns.

These 38 accounts show for 1934 an average net income of \$2,660 per farm, as compared with an average of \$1,826 in 1933, and an average net loss of \$519 in 1932. The average cash income in 1934 was \$4,401 per farm, the cash business expenditures \$1,678 per farm, leaving a cash balance of \$2,723 to meet interest payments and family living expenses. (Those who keep home account books use the latter figure to represent the cash contribution of the farm to the "realized family income".) Besides the cash income, there was an inventory increase of \$557 per farm due to the rise in the prices of farm products. This increase, added to the cash balance, resulted in an average excess of receipts over expenses of \$3,230 per farm. The inventory increase was a much smaller part of the total farm income in 1934 than in 1933.

These data must not be considered representative of average farm conditions, for they were secured from farms which are larger than average, and which were managed by farmers who are more efficient than the average of all farmers in the county.

For the state as a whole, farm earnings were better in 1934 than in 1933 in spite of the fact that corn and oat yields were very low due to the drouth, and to chinch bug damage. In the western and southwestern parts of the state the drouth caused an almost total failure of both corn and oats, which accounts for farm earnings being lower there than in other parts of the state.

The corn crop was best in the southeastern part of the state, and was fair in the northwestern section. Wheat yields were particularly good in the south and central portions of the state. Soybean yields were very good throughout the state, and there was a larger than normal acreage in Illinois in 1934. This state produced over half of the nation's 1934 crop of soybeans.

Chinch bug damage extended over most of the state last year, but was much more severe in some sections than in others, and was much worse on some farms than on other farms in the same community. Conditions affecting crop yields were very spotted. This accounts in part for the wide variation in farm earnings from one section of the state to another, and the wider variations than usual from one farm to another.

*J. E. Harris, farm adviser in Champaign County, cooperated in supervising and collecting the records on which this report is based.

Industries other than agriculture again showed improved earnings over the previous year. A group of 840 industrial corporations reported by a nationally known bank showed average earnings of 5.0 percent on their invested capital in 1934, as compared with 3.4 percent for the same corporations in 1933. A similar group had a loss of one-tenth of one percent in 1932, and average earnings of 3.3 percent in 1931.

In comparing the average earnings of corporations with the rate earned on investment on accounting farms it is well to keep in mind that, in corporation accounting, charges are made for management, while in the farm accounts no comparable deduction has been made. On the other hand the farmer and his family receive food, fuel, and other items of living from the farm for which the farm has received no credit in the records used in this report. For the average central Illinois farm family, consisting of five persons, the value of the food and fuel furnished by the farm was about \$250 in 1934, when estimated on the basis of the wholesale price for farm products.

Variations in Farm Incomes

There was a much wider range in farm earnings on the accounting farms in 1934 than in 1933. This was true for the farms included in this report and was also true when the average earnings of farms in one section of the state are compared with the earnings of farms in other areas.

The extremely wide range in earnings was due to a combination of physical and economic factors. The average yields of wheat and soybeans were much better, compared with the five-year average, than the average yields of corn and oats. This variation favored those sections which had larger acreages of the higher yielding crops in 1934. There was also a wide range in average corn yields from one section of the state to another, as well as between individual farms in the same area. The price of grains was high in 1934, as compared with prices of livestock and livestock products. Farms where grain sales constitute a large part of the farm income thus had an advantage. The rapid increase in the prices of farm products, particularly grains, favored those farms which had large stocks of salable products on hand at the beginning of the year. Many farmers who inventoried the corn on hand at the beginning of 1934 at 40 cents a bushel, later sold this corn for 80 cents.

In this group of 38 accounting farms the most successful third shows an average net income of \$4,825, while the average net income of the least successful third of the farms was only \$791. In 1933 the comparable net incomes for the two groups was \$5,230 and \$433 respectively. Figured on a cash basis the most successful farms had on an average \$3,721 more cash income left to meet interest payments and family living than did the less successful farms.

Investments, Receipts, Expenses and Earnings on
38 Champaign County Farms in 1934

Items	Your farm	Average of 38 farms	13 most profitable farms	13 least profitable farms
CAPITAL INVESTMENTS				
Land - - - - -		30 298	35 743	25 293
Farm improvements- - - - -		3 490	3 593	2 666
Livestock total- - - - -		1 272	1 267	1 128
Horses - - - - -		408	430	470
Cattle - - - - -		563	556	413
Hogs - - - - -		205	178	146
Sheep- - - - -		18	19	21
Poultry- - - - -		78	84	78
Machinery and equipment- - - -		1 445	1 766	1 243
Feed and grains- - - - -		2 243	3 063	1 507
Total capital investment	\$	\$38 748	\$45 432	\$31 837
RECEIPTS AND NET INCREASES				
Livestock total- - - - -		1 491	1 643	1 989
Horses - - - - -		8	1	7
Cattle - - - - -		297	367	170
Hogs (including AAA payments)		677	767	408
Sheep- - - - -		48	96	33
Poultry- - - - -		68	67	74
Egg sales- - - - -		88	63	82
Dairy sales- - - - -		305	274	315
Feed and grains (including AAA payments)		2 855	4 928	1 220
Labor off farm - - - - -		89	175	45
Miscellaneous receipts - - - -		8	23	---
Total receipts & net increases	\$	\$ 4 443	\$ 6 769	\$ 2 354
EXPENSES AND NET DECREASES				
Farm improvements- - - - -		181	148	157
Horses - - - - -		---	---	---
Miscellaneous livestock decreases		---	---	---
Machinery and equipment- - - -		336	376	267
Feed and grains- - - - -		---	---	---
Livestock expense- - - - -		21	16	22
Crop expense - - - - -		136	178	117
Hired labor- - - - -		171	242	95
Taxes- - - - -		290	334	259
Miscellaneous expenses - - - -		28	26	26
Total expenses & net decreases	\$	\$ 1 163	\$ 1 320	\$ 945
RECEIPTS LESS EXPENSES-	\$	\$ 3 280	\$ 5 449	\$ 1 411
Total unpaid labor- - - - -		620	624	620
Operator's labor - - - - -		522	523	540
Family labor - - - - -		98	96	80
Net income from investment and management- - - - -		2 660	4 825	791
RATE EARNED ON INVESTMENT	\$	6.86%	10.62%	2.48
Return to capital and operator's labor and management- - - - -		3 182	5 353	1 331
% of capital invested- - - - -		1 937	2 271	1 592
LABOR AND MANAGEMENT WAGE	\$	\$ 1 245	\$ 3 082	\$ -261

The following table shows the number of farms having certain net incomes per acre. There was a marked difference between the most successful and the least successful farms.

<u>Average net in-</u> <u>come per acre</u>	<u>Number of</u> <u>farms</u>	<u>Average net in-</u> <u>come per acre</u>	<u>Number of</u> <u>farms</u>
29 and over.	4	\$7.	5
17	4	5.	4
15	1	3.	0
13	4	1.	3
11	6	-1.	1
9	3	-3.	1

A further study of the farm businesses made by comparing the investments, receipts, and expenses of the group of farms having the highest net incomes with those having the lowest should throw some light on the question of why some farmers are more successful than others. This comparison is shown in the table on page 3.

The most successful farms averaged 273.3 acres each, the least successful 204.5 acres. This difference in size accounts in part for the variation in the average investment, receipts, and expenses in the two groups. Difference in receipts from the sales of grains accounts for much of the difference in income between the two groups. Although the expenses per farm were higher on the most profitable farms, the total expense per acre, including the charge for family labor, was less than it was on the least profitable farms.

Changes in Inventories and Inventory Values

The year 1934 was similar to 1933 in that the prices of farm products continued to advance, causing further increases in inventory values. Owing to the poor crop yields in 1934, there were fewer bushels of grain on hand to inventory at the end of the year than at the beginning. The value of the smaller amount of grain, however, was greater than for the larger amount on hand at the beginning of the year.

Bushels of Corn Inventoried

	Jan. 1, 1934	Dec. 31, 1934
Average of all farms	3 688	1 933
Average of 13 most successful farms.	5 439	2 868
Average of 13 least successful farms	2 116	791
Your farm.		

The most profitable farms had a much larger inventory of corn both at the beginning and end of the year. This is an important factor in accounting for their higher returns from feed and grains.

The average inventory increase for the accounting farms in Champaign County was \$557 in 1934, as compared with \$1,489 in 1933, and an inventory loss of \$847 a farm in 1932. There were increases of \$143 in total livestock, 411 in feed and grain, and \$82 in machinery, while improvements showed a decrease of \$79. Such an increase in inventory as that for machinery results from the value of new replacements during the year being in excess of depreciation costs. This increase is of considerable interest, for it is the first time that such an increase in machinery inventories has occurred since farm earnings began to decline so drastically with the general depression.

Inventory Changes for 1934

Items	Beginning inventory 1-1-34	Closing inventory 12-31-34	Inventory changes 1934	Inventory changes, your farm
Total livestock.	\$1 272	\$1 415	\$ 143	\$
Feed and grains.	2 243	2 654	411	
Machinery.	1 445	1 527	82	
Improvements (except residence). . .	3 490	3 411	-79	
Total.	\$8 450	\$8 007	\$ 443	\$

Some Adjustments on Champaign County Farms Since 1929

Farmers have been forced to make adjustments in their cash expenditures as the result of changes in their cash incomes. From 1929 through 1934 farm operating costs declined each year. Total operating expenses were 57 cents an acre lower in 1934 than in 1933, while cash operating expenses were \$1,678 a farm in 1934 as compared with \$1,492 in 1933. The largest increase in expenditures over the previous year was for machinery and supplies for machinery. Indications point to an even greater expansion of spending for these items in 1935, since farmers have postponed machinery replacements during the four-year period since 1929.

Cash Income and Expenses on Accounting Farms in Champaign County for 1929 and 1934

Items	Your farm 1934	Average cash expense per farm 1934	Your farm 1929	Average cash income per farm 1934	Average cash income per farm 1929
Livestock	\$	\$ 245	\$ 582	\$ 1 593	\$2 611
Feed and grains		141	149	2 585	3 527
Machinery		540	775	122	137
Improvements.		105	298	4	--
Labor		171	471	89	66
Miscellaneous		28	32	8	6
Livestock expense		21	39	--	--
Crop expense.		136	243	--	--
Taxes		290	443	--	--
Total	\$	\$1 678	\$3 072	\$4 401	\$5 450
Excess of cash sales over expenses.	\$			\$2 723	\$3 557
Increase in inventory				557	1 027
Income to labor and capital (Receipts less expenses). . .				3 286	4 385

The cumulative effect of several years of low agricultural prices on the demand for manufactured goods can readily be ascertained by a comparison of cash farm expenditures in 1934 with those in 1929. Although the average cash income in 1934 was 68 percent of that in 1929, cash expenditures were only 59 percent as large. In 1934 livestock purchases were 42 percent, and feed and grain purchases 95 percent as large as in 1929. In 1934 these farms paid out 70 percent as much for machinery, and 56 percent as much for crop expense as in 1929, while taxes were reduced to 60 percent of the 1929 level.

Comparison of Farms With High and Low Earnings

The reasons for the difference in earnings between the most profitable group and the least profitable group included in this study may be obtained from a study of the data on pages 3 and 8.

The most successful farms had an average total investment of \$45,432, as compared with a total of \$31,837 for the least successful farms. The most successful farms secured average total receipts of \$6,769, while the comparable figure for the least successful was \$2,354. The net receipts, on a per acre basis, were \$17.56 for the most profitable group, as compared with \$5.37 for the least profitable group.

The most profitable farms averaged 68.7 acres larger, had 34.2 acres more corn, 11.3 acres more oats, and 16.0 acres more soybeans than the least profitable farms. They also carried larger inventories on which to make a profit when prices advanced. One reason for the larger inventories was the higher crop yields, the most profitable farms having an advantage of 16.9 bushels of corn, 14.1 bushels of oats, and 7.1 bushels of soybeans per acre. Crop yields were so low on the least profitable farms that there was an average inventory loss of \$168 per farm in spite of the price advances.

Although there was about the same amount of livestock per acre on the farms in the two groups, there was a difference in income of 71 cents per acre in favor of the most profitable farms. The returns for each \$100 of feed fed to livestock was \$146, as compared with \$123. The income per litter farrowed was \$97 on the most profitable farms, as compared with \$66 on the least profitable farms.

The most profitable farms secured their larger income with a total operating cost of \$7.11 per acre, as compared with \$7.64 per acre on the least profitable farms. On the most successful farms man labor costs were 58 cents per crop acre lower, and power and machinery costs were 23 cents per crop acre lower than on the least successful farms.

Influence of AAA Programs on Cropping Systems and Farm Incomes

The farm-account records in Illinois were influenced both directly and indirectly by the corn-hog and wheat adjustment programs. A large percentage of accounting farms were under one or both contracts in 1934. The acreages of corn and wheat on these farms were therefore less than normal. This should have resulted in lower operating costs. Corn-hog benefit payments for the entire 1934 program will total about 40 million dollars for the state, while wheat benefit payments will be about 2.4 million dollars.

The benefit payments for accounting farms are indicated in the following table, which shows the average payment for those farms receiving payments, and includes only those payments received by the cooperator before the 1934 books were closed. In some cases only the first corn-hog check is included, while in other cases the second check had been received. The second payments not received, and the third payments will be entered in the 1935 book.

AAA Benefit Payments Received in 1934

	Corn		Wheat		Hogs		Average of all payments ^{1/}
	Number of farms	Amount per farm	Number of farms	Amount per farm	Number of farms	Amount per farm	
1/3 most profitable farms	12	\$164	4	\$170	11	\$98	\$236
1/3 least profitable farms	12	97	2	138	10	82	174
All accounting farms	35	131	8	170	32	94	226

^{1/} Total benefit payments reported by accounting farms under contract for 1934 divided by total number of accounting farms.

On many farms the cash received from benefit payments will more than pay the year's taxes. As an average of all accounting farms, the payments actually received were sufficient to pay 78 percent of the 1934 taxes.

It is interesting to note the use made of the contracted acres on the accounting farms. The average farm had 21.7 contracted acres which were used as follows: 4.3 idle; 3.5 red clover; 4.1 sweet clover; 4.3 soybeans; 1.2 alfalfa; and 4.3 acres were in other crops. These data indicate that most farmers made good use of their contracted acres from the standpoint of soil improvement, as most of them were in legumes. When the government restrictions on the use of crops grown on contracted acres were removed, they were on many farms the most profitable crops, as they furnished hay and pasture where badly needed in drouth areas. The legumes had the further advantage of being immune to attack from chinch bugs.

Farm earnings were influenced indirectly by the AAA programs in that the reduction in production increased the price of the commodities involved. The drouth was a more important factor in reducing production than the adjustment programs, yet if it had not been for the corn-sealing program there would have been but little corn in the hands of farmers at the time the major price advance became effective.

-1-

Factors Helping to Analyze the Farm Business on
36 Champaign County Farms in 1934

Items	Your Farm	Average of 36 farms	13 most profitable farms	13 least profitable farms
Size of farms--acres - - - - -	_____	231.9	275.3	204.5
Percent of land area tillable - - - - -	_____	95.5	90.7	93.8
Percent of tillable land in hay and pasture- - - - -	_____	25.6	21.1	23.2
Gross receipts per acre- - - - -	_____	19.16	24.77	11.51
Total expenses per acre- - - - -	_____	7.69	7.11	7.61
Net receipts per acre- - - - -	_____	11.47	17.66	3.87
Value of land per acre - - - - -	_____	131	131	124
Total investment per acre- - - - -	_____	167	166	156
Acres in Corn- - - - -	_____	74.3	92.1	57.9
Oats- - - - -	_____	41.6	51.9	40.1
Wheat - - - - -	_____	11.7	1.7	9.1
Soybeans- - - - -	_____	33.4	44.3	23.1
Hay - - - - -	_____	15	14.6	21.1
Tillable pasture- - - - -	_____	38.7	41.1	33
Crop yields--Corn, bu. per acre- - - - -	_____	25.3	32.2	15.3
Oats, bu. per acre- - - - -	_____	12.9	19.3	5.2
Wheat, bu. per acre - - - - -	_____	20.6	20.3	20
Soybeans, bu. per acre- - - - -	_____	25.8	29	21.9
Value of feed fed to productive L.S.	_____	1 174	1 125	845
Returns per \$100 of feed fed to productive livestock- - - - -	_____	128	146	128
Returns per \$100 invested in:				
Cattle- - - - -	_____	103	106	107
Poultry - - - - -	_____	191	157	195
Pigs weaned per litter - - - - -	_____	5.7	6.1	5.3
Income per litter farrowed - - - - -	_____	91	97	66
Dairy sales per dairy cow- - - - -	_____	46	51	46
Investment in productive L.S. per A.	_____	4.04	3.7	3.53
Receipts from productive L.S. per A.	_____	6.39	6.00	5.29
Man labor cost per crop acre - - - - -	_____	4.13	3.64	4.22
Machinery cost per crop acre - - - - -	_____	1.84	1.69	1.68
Power and mach. cost per crop A. - - - - -	_____	2.76	1.71	2.94
Farms with tractor - - - - -	_____	79%	84.6%	61.5%
Value of feed fed to horses- - - - -	_____	194	232	207
Man labor cost per \$100 gross income- - - - -	_____	17	12	28
Expenses per \$100 gross income - - - - -	_____	40	29	66
Farm improvements cost per acre- - - - -	_____	.78	.54	.77
Excess of sales over cash expenses - - - - -	_____	2 723	4 300	1 579
Increase in inventory- - - - -	_____	557	1 149	-163
Rate earned on investment- - - - -	_____	6.26	13.62	2.48
Gross receipts per farm- - - - -	_____	4 443	6 769	2 354

Chart for Studying the Efficiency of Various Parts of Your Business,
Champaign County, 1934

The numbers above the lines across the middle of the page are the averages for the 38 farms included in this report for the factors named at the top of the page. By drawing a line across each column at the number measuring the efficiency of your farm in that factor, you can compare your efficiency with that of other farmers in your locality.

Rate earned on investment	Bushels per acre			Hogs: Income per litter	Dairy sales per dairy cow	Poultry income per \$100 invested	L.S. income per \$100 of feed fed	Cost per crop acre		Labor cost per \$100 gross receipts	Increase in inventory	Sales over cash expenses	Gross receipts		Acres in farm
	Corn	Oats	Soybeans					Labor	power and machinery				Per acre	Per farm	
6.86	50	43	36	141	89	440	228	--	.36	--	3557	7700	34	10900	430
4.86	45	37	34	131	81	390	208	.13	.86	--	2957	6700	31	9400	390
2.86	40	31	32	121	73	340	188	1.13	1.36	--	2357	5700	28	7900	350
0.86	35	25	30	111	65	290	168	2.13	1.86	--	1757	4700	25	6400	310
8.86	30	19	28	101	57	240	148	3.13	2.36	7	1157	3700	22	4900	270
6.86	25.3	12.9	25.8	91	49	191	128	4.13	2.86	17	557	2723	19.16	4443	232
4.86	20	7	24	81	41	140	108	5.13	3.36	27	-43	1700	16	2900	190
2.86	15	1	22	71	33	90	88	6.13	3.86	37	-643	700	13	1400	150
.86	10	--	20	61	25	40	68	7.13	4.36	47	-1243	-300	10	-100	110
1.14	5	--	18	51	17	--	48	8.13	4.86	57	-1843	-1300	7	-1600	70
3.14	--	--	16	41	9	--	28	9.13	5.36	67	-2443	-2300	4	-2600	30

Influence of Price Changes on Farm Earnings

Farm prices in 1934 advanced more rapidly than did the prices of commodities which farmers bought. Farmers of the United States as a group could exchange their farm products in 1934 for 74 percent as many goods as for the period 1909-1914, while in 1933 they received only 64 percent, and 1932 only 51 percent as much in exchange for what they had to sell as in the prewar period. In the month of February, 1937, this index of purchasing power had increased to 77 percent of prewar, the index of farm prices having risen to 111 as compared with an index of 117 for commodities which farmers buy. When the line representing farm prices drops below the line representing prices paid by farmers, farm earnings are very low, but when these lines come close together farm earnings increase. (See following graph.)

Index of Prices

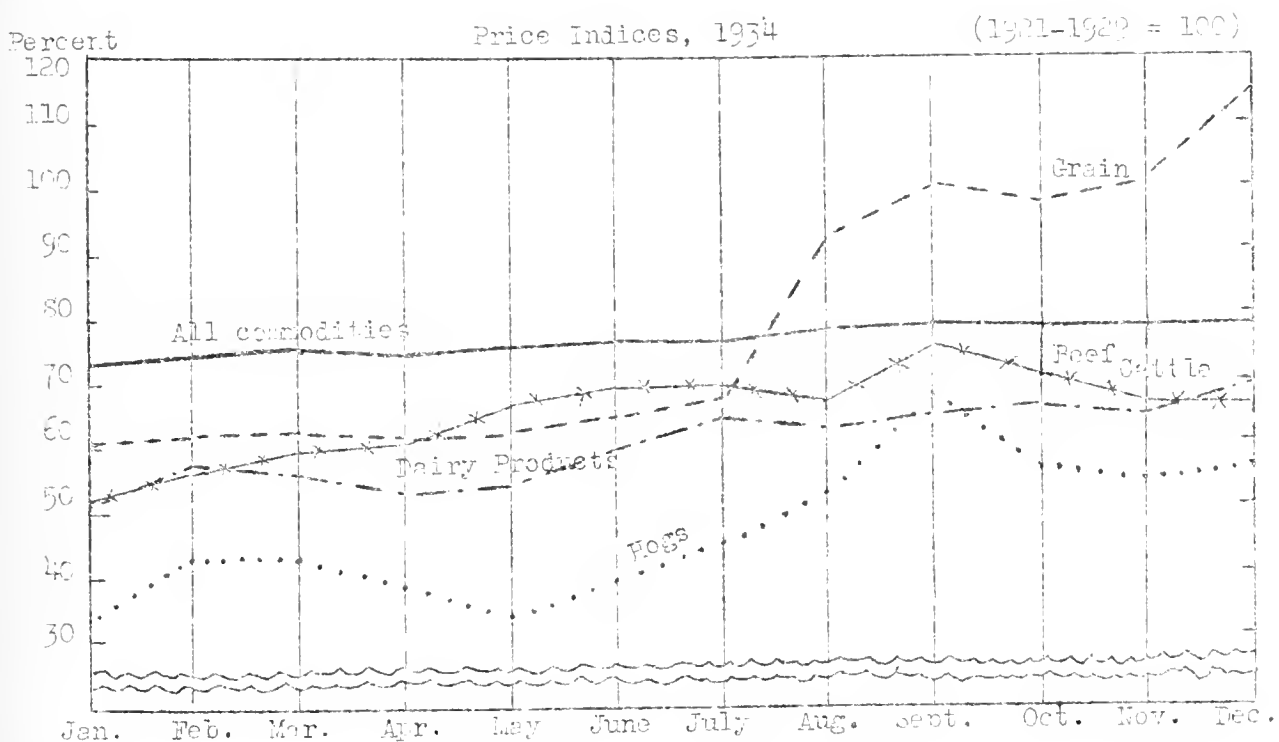
Rate Earned



Since the price of some farm products advanced much more rapidly during 1934 than other products, it is evident that some farms would benefit more than others, depending upon the kind and quantity of products sold. Grain prices advanced much more rapidly than livestock prices; which resulted in a very bad price ratio for farmers who buy large quantities of feed. The average Illinois farm price of corn was 41 cents a bushel in January, 1934; it advanced steadily until the end of the year when it was 88 cents a bushel. Other grains made marked advance although not so great an advance as corn. The price of hogs fluctuated from a low of \$5.20 a hundred in May to a high of \$6.30 in September. The low point in the fall came in November when the average price was \$5.10. The price has advanced quite rapidly since November, the average price being \$7.50 for February, 1935. Beef cattle were worth \$4.10 a hundred in January, 1934 and advanced each month until September, when the price was \$5.90. They dropped to \$5.20 in December but increased again to \$7.40 for February, 1935.

The year 1934 set a record for the reduction in the numbers of livestock. The percentage decreases by species were as follows: horses, 1.1 percent; mules, 2.6 percent; all cattle, 11.2 percent; sheep, 4.7 percent; hogs, 35.3 percent. When all species are combined on the basis of their capacity to consume feed, the reduction was 13 percent. This reduction will greatly reduce the demand for feeds produced in 1935.

The relative change in prices of important commodities may be noted in the following graph, which shows the average Illinois farm prices by months as a percentage of the average prices for the period 1921-1929.



All commodities index represents the wholesale price of a large number of commodities for the United States, as computed by Bureau of Labor Statistics. Grain and livestock indices represent average monthly farm prices in Illinois.

Variation in Earnings Over Five-Year Period

A comparison of production, income, and expenditures on the accounting farms in Champaign County for the last five years is very interesting because of the violent changes in price level. 1934 was the second year of very low crop yields, yet total receipts per farm were higher than in any other year in the last five, and were 70 percent of the 1929 gross receipts. Operating costs per acre were lower than in any year of the five. Thus profits were the best the county had experienced since 1923.

Earnings in 1935 as usual will depend upon individual efficiency, weather, and prices. A normal year will mean larger yields of grain and probably lower prices.

Comparison of Earnings and Investments on Accounting Farms in
Champaign County for 1930-1934

Items	1930	1931	1932	1933	1934
Number of farms - - - - -	38	34	31	43	38
Average size of farms, acres- - -	239	233	227	231	232
Average rate earned, to pay for management, risk and capital - -	1.4%	-1.0%	-1.3%	4.7%	6.86%
Average labor and management wage	\$-1 344	\$-2 399	\$-2 004	\$391	\$1 245
Gross income per acre - - - - -	15.26	7.47	6.54	16.17	19.15
Operating cost per acre - - - - -	12.05	9.63	8.33	8.26	7.69
Average value of land per acre- -	181	170	143	135	131
Total investment per acre - - - -	235	213	173	168	167
Investment per farm in:					
Total livestock- - - - -	2 238	1 735	1 437	1 348	1 272
Cattle - - - - -	1 003	633	573	566	563
Hogs - - - - -	356	346	277	212	205
Poultry- - - - -	140	104	84	84	73
Gross income per farm - - - - -	3 645	1 737	1 432	3 734	4 443
Income per farm from:					
Crops- - - - -	2 126	918	597	2 671	2 855
Miscellaneous income - - - - -	62	49	36	59	3
Total livestock- - - - -	1 457	770	749	1 004	1 491
Cattle - - - - -	244	24	138	190	297
Dairy sales- - - - -	353	446	184	232	305
Hogs - - - - -	662	342	322	424	677
Poultry- - - - -	163	150	90	112	68
Average yield of corn in bu.- - -	35	46	59	33	25
Average yield of oats in bu.- - -	36	46	51	22	13
Average yield of soybeans in bu.-	21	28	29	20	26

ANNUAL FARM BUSINESS REPORT ON THIRTY-TWO FARMS
IN DEWITT, PIATT, AND LOGAN COUNTIES, ILLINOIS, 1934

P. E. Johnston, J. E. Wills, and A. L. Leonard*

The farm earnings of 32 account-keeping farmers in DeWitt, Piatt, and Logan Counties showed an increase in 1934 over those of 1933. This is the second consecutive year of improvement in the business of these farms. The three years previous to 1933 showed very low returns.

These 32 accounts show for 1934 an average net income of \$3,534 per farm, as compared with an average of \$1,647 in 1933, and an average net loss of \$609 in 1932. The average cash income in 1934 was \$5,256 per farm, the cash business expenditures \$2,360 per farm, leaving a cash balance of \$2,896 to meet interest payments and family living expenses. (Those who keep home account books use the latter figure to represent the cash contribution of the farm to the "realized family income".) Besides the cash income there was an inventory increase of \$1,318 per farm due to the rise in the prices of farm products. This increase, added to the cash balance, resulted in an average excess of receipts over expenses of \$4,214 per farm. The inventory increase was a larger part of the total farm income in 1934 than in 1933.

These data must not be considered representative of average farm conditions, for they were secured from farms which are larger than average and which were managed by farmers who are more efficient than the average of all farmers in the county.

For the state as a whole, farm earnings were better in 1934 than in 1933 in spite of the fact that corn and oat yields were very low due to the drouth and to chinch bug damage. In the western and southwestern parts of the state the drouth caused an almost total failure of both corn and oats. This accounts for farm earnings being lower there than in other parts of the state.

The corn crop was best in the southeastern part of the state, and was fair in the northwestern section. Wheat yields were particularly good in the south and central portions of the state. Soybean yields were very good throughout the state, and there was a larger than normal acreage in Illinois in 1934. This state produced over half of the nation's 1934 crop of soybeans.

Chinch bug damage extended over most of the state last year, but was much more severe in some sections than in others, and was much worse on some farms than other farms in the same community. Conditions affecting crop yields were very spotted. This accounts in part for the wide variation in farm earnings from one section of the state to another, and the wider variations than usual from one farm to another.

* H. N. Meyers, S. S. Davis, and N. H. Anderson, farm advisers in the above Counties, cooperated in supervising and collecting the records on which this report is based.

Industries other than agriculture again showed improved earnings over the previous year. A group of 240 industrial corporations reported by a nationally known bank showed average earnings of 5.0 percent on their invested capital in 1934, as compared with 3.4 percent for the same corporations in 1933. A similar group had a loss of one-tenth of one percent in 1932 and average earnings of 3.3 percent in 1931.

In comparing the average earnings of corporations with the rate earned on investment on accounting farms it is well to keep in mind that in corporation accounting charges are made for management, while in the farm accounts no comparable deduction has been made. On the other hand, the farmer and his family receive food, fuel, and other items of living from the farm for which the farm has received no credit in the records used in this report. For the average central Illinois farm family, consisting of five persons, the value of the food and fuel furnished by the farm was about \$250 in 1934, when estimated on the basis of the wholesale price for farm products.

Variations in Farm Incomes

There was a much wider range in farm earnings on the accounting farms in 1934 than in 1933. This was true for the farms included in this report and was also true when the average earnings of farms in one section of the state are compared with the earnings of farms in other areas.

The extremely wide range in earnings was due to a combination of physical and economic factors. The average yields of wheat and soybeans were much better, compared with the five-year average, than the average yields of corn and oats. This variation favored those sections which had larger acreages of the higher yielding crops in 1934. There was also a wide range in average corn yields from one section of the state to another, as well as between individual farms in the same area. The price of grains was high in 1934 as compared with prices of livestock and livestock products. Farms where grain sales constitute a large part of the farm income thus had an advantage. The rapid increase in the prices of farm products, particularly grains, favored those farms which had large stocks of salable products on hand at the beginning of the year. Many farmers who inventoried the corn on hand at the beginning of 1934 at 40 cents a bushel, later sold this corn for 80 cents.

In this group of 32 accounting farms the most successful third shows an average net income of \$4,447, while the average net income of the least successful third of the farms was only \$1,372. In 1933 the comparable net incomes for the two groups was \$3,294, and \$200 respectively.

-3-
Investments, Receipts, Expenses and Earnings on 32
DeWitt, Platt, and Logan County Farms in 1934

Items	Your farm	Average of 32 farms	11 most profitable farms	11 least profitable farms
<u>CAPITAL INVESTMENTS</u>				
Land - - - - -		32 860	28 534	31 463
Farm improvements- - - - -		4 323	4 007	3 664
Livestock total- - - - -		<u>1 743</u>	<u>1 464</u>	<u>1 684</u>
Horses - - - - -		629	529	609
Cattle - - - - -		718	584	631
Hogs - - - - -		282	254	313
Sheep- - - - -		48	37	80
Poultry- - - - -		66	80	51
Machinery and equipment- - - - -		1 567	1 518	1 495
Feed and grains- - - - -		2 540	2 352	1 790
Total capital investment	\$	<u>\$43 033</u>	<u>\$38 195</u>	<u>\$40 096</u>
<u>RECEIPTS AND NET INCREASES</u>				
Livestock total- - - - -		<u>1 899</u>	<u>1 467</u>	<u>1 814</u>
Horses - - - - -		61	3	74
Cattle - - - - -		640	330	431
Hogs (including AAA payments)-		747	678	906
Sheep- - - - -		65	49	111
Poultry- - - - -		68	80	65
Egg sales- - - - -		83	112	55
Dairy sales- - - - -		238	235	202
Feed and grains (including AAA payments) - - - - -		3 828	4 938	2 260
Labor off farm - - - - -		86	108	49
Miscellaneous receipts - - - - -		4	13	---
Total receipts & net increases	\$	<u>\$ 5 817</u>	<u>\$ 6 546</u>	<u>\$ 4 153</u>
<u>EXPENSES AND NET DECREASES</u>				
Farm improvements- - - - -		238	201	284
Horses - - - - -		---	---	---
Miscellaneous livestock decreases		---	---	---
Machinery and equipment- - - - -		437	448	464
Feed and grains- - - - -		---	---	---
Livestock expense- - - - -		50	37	53
Crop expense - - - - -		200	190	142
Hired labor- - - - -		277	302	258
Taxes- - - - -		360	372	322
Miscellaneous expenses - - - - -		41	29	65
Total expenses & net decreases	\$	<u>\$ 1 603</u>	<u>\$ 1 572</u>	<u>\$ 1 593</u>
<u>RECEIPTS LESS EXPENSES-</u>				
Total unpaid labor- - - - -		680	520	628
Operator's labor - - - - -		511	455	540
Family labor - - - - -		169	65	142
Net income from investment and management - - - - -		3 534	4 247	1 872
GATE EARNED ON INVESTMENT - - - - -	\$	<u>8.21%</u>	<u>11.64%</u>	<u>4.67%</u>
Return to capital and operator's labor and management - - - - -		4 045	4 302	2 412
% of capital invested- - - - -		2 152	1 910	2 005
LABOR AND MANAGEMENT WAGE - - - - -	\$	<u>\$ 1 893</u>	<u>\$ 2 092</u>	<u>\$ 407</u>

The following table shows the number of farms having certain net incomes per acre. There was a marked difference between the most successful and the least successful farms.

<u>Average net in-</u> <u>come per acre</u>	<u>Number of</u> <u>farms</u>	<u>Average net in-</u> <u>come per acre</u>	<u>Number of</u> <u>farms</u>
\$25	1	\$9	4
21	2	7	7
19	0	5	1
17	3	3	0
15	7	1	0
13	2	-1	1
11	4		

A further study of the farm businesses, made by comparing the investments, receipts, and expenses of the group of farms with the highest net incomes with those having the lowest, should throw some light on the question of why some farmers are more successful than others. This comparison is shown in the table on page 5.

The most profitable farms averaged 281 acres each, the least profitable 256 acres. The most profitable farms carried larger inventories of feed and grains, and hence had a larger investment in this account than the least profitable farms. The most profitable farms had higher total receipts and net increases, due mostly to larger sales of feed and grains. The total farm expense, including the charge for family labor, was lower on the most profitable farms than on the least profitable farms.

Changes in Inventories and Inventory Values

The year 1934 was similar to 1933 in that the prices of farm products continued to advance, causing further increases in inventory values. Owing to the poor crop yields in 1934 there were fewer bushels of grain on hand to inventory at the end of the year than at the beginning. The value of the smaller amount of grain, however, was greater than for the larger amount on hand at the beginning of the year.

Bushels of Corn Inventoried

	Jan. 1, 1934	Dec. 31, 1934
Average of all farms	4 158	2 399
Average of 11 most successful farms . . .	4 324	3 327
Average of 11 least successful farms . . .	2 666	1 566
Your farm		

The most profitable farms had a larger inventory of corn both at the beginning and end of the year. This difference was an important factor in accounting for their higher receipts and net increases from feed and grains.

The average inventory increase for the accounting farms in this area was \$1,318 in 1934, as compared with \$695 in 1933, and an inventory loss of \$1,021 a farm in 1932. There were increases of \$357 in total livestock, \$1,114 in feed and grain, and \$35 in machinery, while improvements showed a decrease of \$33. Such an increase in inventory as that for machinery results from the value of new replacements during the year being in excess of depreciation costs. This increase is of considerable interest for it is the first time that such an increase in machinery inventories has occurred since farm earnings began to decline so drastically with the general depression.

Inventory Changes for 1934

Items	Beginning inventory 1-1-34	Closing inventory 12-31-34	Inventory changes 1934	Inventory changes, your farm
Total livestock.	\$1 743	\$2 000	\$ 257	\$
Feed and grains.	2 540	3 654	1 114	
Machinery.	1 567	1 602	35	
Improvements (except residence).	4 323	4 235	-88	
Total.	\$10 173	\$11 491	\$1 318	\$

Some Adjustments on DeWitt, Piatt, and Logan County Farms Since 1929

Farmers have been forced to make adjustments in their cash expenditures as the result of changes in their cash incomes. From 1929 through 1933 farm operating costs declined each year, but the year 1934 brought a reversal of this trend. Total operating expenses were 40 cents an acre higher in 1934 than in 1933, while cash operating expenses were \$2,560 a farm in 1934, as compared with \$1,545 in 1933. The largest increase in expenditures over the previous year was for machinery and repairs for machinery. Indications point to an even greater expansion of spending for these items in 1935, since farmers have postponed machinery replacements during the four-year period since 1929.

Cash Income and Expenses on Accounting Farms in DeWitt, Piatt, and Logan Counties for 1929 and 1934

Items	Your farm 1934	Average cash expense per farm		Your farm 1934	Average cash income per farm	
		1934	1929		1934	1929
Livestock.	\$	\$ 456	\$ 756	\$	\$2 098	\$3 334
Feed and grains.		187	509		2 901	3 542
Machinery.		620	917		148	146
Improvements.		159	346		19	---
Labor.		277	498		26	36
Miscellaneous.		41	36		7	14
Livestock expense.		50	40		---	---
Crop expense.		200	273		---	---
Taxes.		350	445		---	---
Total.	\$	\$2 360	\$3 820	\$	\$5 256	\$7 072
Excess of cash sales over expenses.	\$			\$	\$2 396	\$3 252
Increase in inventory.					1 318	530
Income to labor and capital (Receipts less expenses).					4 214	3 782

The cumulative effect of several years of low agricultural prices on the demand for manufactured goods can readily be ascertained by a comparison of cash farm expenditures in 1934 with those in 1929. Although the average cash income in 1934 was 74 percent of that in 1929, cash expenditures were only 62 percent as large. In 1934, livestock purchases were 60 percent, and feed and grain purchases 37 percent as large as in 1929. In 1934 these farms paid out 68 percent as much for machinery, and 73 percent as much for crop expense as in 1929, while taxes were reduced to 31 percent of the 1929 level.

Comparison of Farms With High and Low Earnings

The most profitable farms in this study had net receipts per acre of \$15.85, as compared with \$7.33 for the least profitable group. The reasons for this difference may be obtained from a study of the data on pages 5 and 8.

The most profitable farms were larger, having 26.3 more crop acres than the least profitable farms. They had 14.2 acres more corn and 19.7 acres more soybeans, the latter being one of the high yielding crops in 1934. The most profitable farms carried larger inventories of feed and grain on which to make a profit when prices advanced. One reason for the larger inventories, in addition to the larger acreage, was the higher crop yields, there being an advantage of 7.6 bushels of corn, 6 bushels of oats, 3.6 bushels of wheat and 3.2 bushels of soybeans per acre in favor of the high profit group.

The most profitable farms were not as intensive in their livestock production, but were more efficient in their livestock feeding operations than the least profitable farms. The most profitable farms had an investment in productive livestock of \$5.80 per acre, and fed \$1,061 of feed per farm, as compared with \$4.63 invested per acre, and \$1,695 of feed fed per farm, on the least profitable farms. The productive livestock on the most profitable farms returned \$140 for each \$100 of feed fed, as compared with returns of \$104 for each \$100 of feed fed on the least profitable farms. The most profitable farms had an income of \$38 per litter farrowed, as compared with an income of \$67 per litter farrowed on the least profitable farms.

The larger income on the most profitable farms was secured with a total operating cost of \$7.48 per acre, as compared with \$3.92 per acre on the least profitable farms. Man labor costs per crop acre were \$3.63 on the most profitable farms, as compared with \$4.78 for the least profitable farms. Power and machinery costs per crop acre amounted to \$3.37 on the most profitable farms, and \$3.57 on the least profitable farms.

The Influence of AAA Programs on Cropping Systems and Farm Incomes

The farm-account records in Illinois were influenced both directly and indirectly by the corn-hog and wheat adjustment programs. A large percentage of accounting farms were under one or both contracts in 1934. The acreages of corn and wheat on these farms were therefore less than normal. This should have resulted in lower operating costs. Corn-hog benefit payments for the entire 1934 program will total about 40 million dollars for the state, while wheat benefit payments will be about 2.4 million dollars.

The benefit payments for accounting farms are indicated in the following table, which shows the average payment for those farms receiving payments and includes only those payments received by the cooperator before the 1934 books were closed. In some cases only the first corn-hog check is included, while in other cases the second check had been received. The second payments not received and the third payments will be entered in the 1935 book.

AAA Benefit Payments Received in 1934

	Corn		Wheat		Hogs		Average of all payments
	Number of farms	Amount per farm	Number of farms	Amount per farm	Number of farms	Amount per farm	
1/3 most profitable farms	11	\$161	5	\$143	10	\$136	\$349
1/3 least profitable farms	11	138	3	260	11	148	357
All accounting farms	32	164	12	163	32	125	350

1/ Total benefit payments reported by accounting farms under contract for 1934 divided by total number of accounting farms.

On many farms the cash received from benefit payments will more than pay the year's taxes. As an average of all accounting farms, the payments actually received were sufficient to pay 97 percent of the 1934 taxes.

It is interesting to note the use made of the contracted acres on the accounting farms. The average farm had 29.3 contracted acres which were used as follows: 3.9 idle; 6.0 red clover; 1.7 sweet clover; 8.8 soybeans; 2.0 alfalfa; and 5.9 acres were in other crops. These data indicate that most farmers made good use of their contracted acres from the standpoint of soil improvement, as a large part of them were in legumes. When the Government restrictions on the use of crops grown on contracted acres were removed, they were on many farms the most profitable crops as they furnished hay and pasture where badly needed in drouth areas. The legumes had the further advantage of being immune to attack from chinch bugs.

Farm earnings were influenced indirectly by the AAA programs in that the reduction in production increased the price of the commodities involved. The drouth was a more important factor in reducing production than the adjustment programs, yet if it had not been for the corn-sealing program there would have been but little corn in the hands of farmers at the time the major price advance became effective.

Factors Relating to Analyze the Farm Business on 32
DeWitt, Pilot, and Logan County Farms in 1954

Items	Your farm	Average of 32 farms	11 most profitable farms	11 least profitable farms
Size of farms--acres - - - - -	_____	296.0	280.6	255.5
Percent of land area tillable- - - - -	_____	94.7	92.5	94.1
Percent of tillable land in hay and pasture - - - - -	_____	30.0	26.5	52.9
Gross receipts per acre- - - - -	_____	19.59	23.33	16.25
Total expenses per acre- - - - -	_____	7.69	7.43	8.92
Net receipts per acre- - - - -	_____	11.90	15.85	7.33
Value of land per acre - - - - -	_____	111	102	123
Total investment per acre- - - - -	_____	145	135	157
Acres in Corn- - - - -	_____	96.6	86.2	72.0
Oats- - - - -	_____	37.0	27.4	37.1
Wheat - - - - -	_____	24.6	22.0	21.0
Soybeans- - - - -	_____	40.5	45.2	26.1
Hay - - - - -	_____	25.0	23.3	24.5
Tillable pasture- - - - -	_____	51.2	45.5	52.3
Crop yields--Corn, bu. per acre- - - - -	_____	37.1	36.6	29.0
Oats, bu. per acre- - - - -	_____	19.2	18.8	12.8
Wheat, bu. per acre - - - - -	_____	23.1	23.1	19.5
Soybeans, bu. per acre- - - - -	_____	25.3	26.9	23.7
Value of feed fed to productive L.S. - - - - -	_____	1 513	1 061	1 695
Returns per \$100 of feed fed to productive livestock- - - - -	_____	121	140	104
Returns per \$100 invested in:				
Cattle- - - - -	_____	110	87	92
Poultry - - - - -	_____	222	223	231
Pigs weaned per litter - - - - -	_____	5.4	5.5	7.0
Income per litter farrowed - - - - -	_____	74	88	67
Dairy sales per dairy cow- - - - -	_____	38	30	39
Investment in productive L.S. per A. - - - - -	_____	4.10	3.80	4.63
Receipts from productive L.S. per A. - - - - -	_____	6.19	5.29	6.93
Max labor cost per crop acre - - - - -	_____	4.05	3.63	4.78
Machinery cost per crop acre - - - - -	_____	1.97	2.09	2.47
Fuel and mach. cost per crop A. - - - - -	_____	3.13	3.37	3.57
Farms with tractor - - - - -	_____	70%	73%	73%
Value of feed fed to horses- - - - -	_____	318	277	281
Max labor cost per \$100 gross income- - - - -	_____	15	12	22
Expenses per \$100 gross income - - - - -	_____	39	32	55
Farm improvements cost per acre- - - - -	_____	.00	.72	1.11
Excess of sales over cash expenses - - - - -	_____	2 296	3 276	1 710
Increase in inventory- - - - -	_____	1 317	1 391	850
Profit earned on investment- - - - -	_____	2.21%	11.64%	4.67%
Gross receipts per farm- - - - -	_____	5 217	6 346	4 153

Chart for Studying the Efficiency of Various Parts of Your Business
DeWitt, Platt, and Logan Counties, 1934

The numbers above the lines across the middle of the page are the averages for the 32 farms included in this report for the factors named at the top of the page. By drawing a line across each column at the number measuring the efficiency of your farm in that factor, you can compare your efficiency with that of other farmers in your locality.

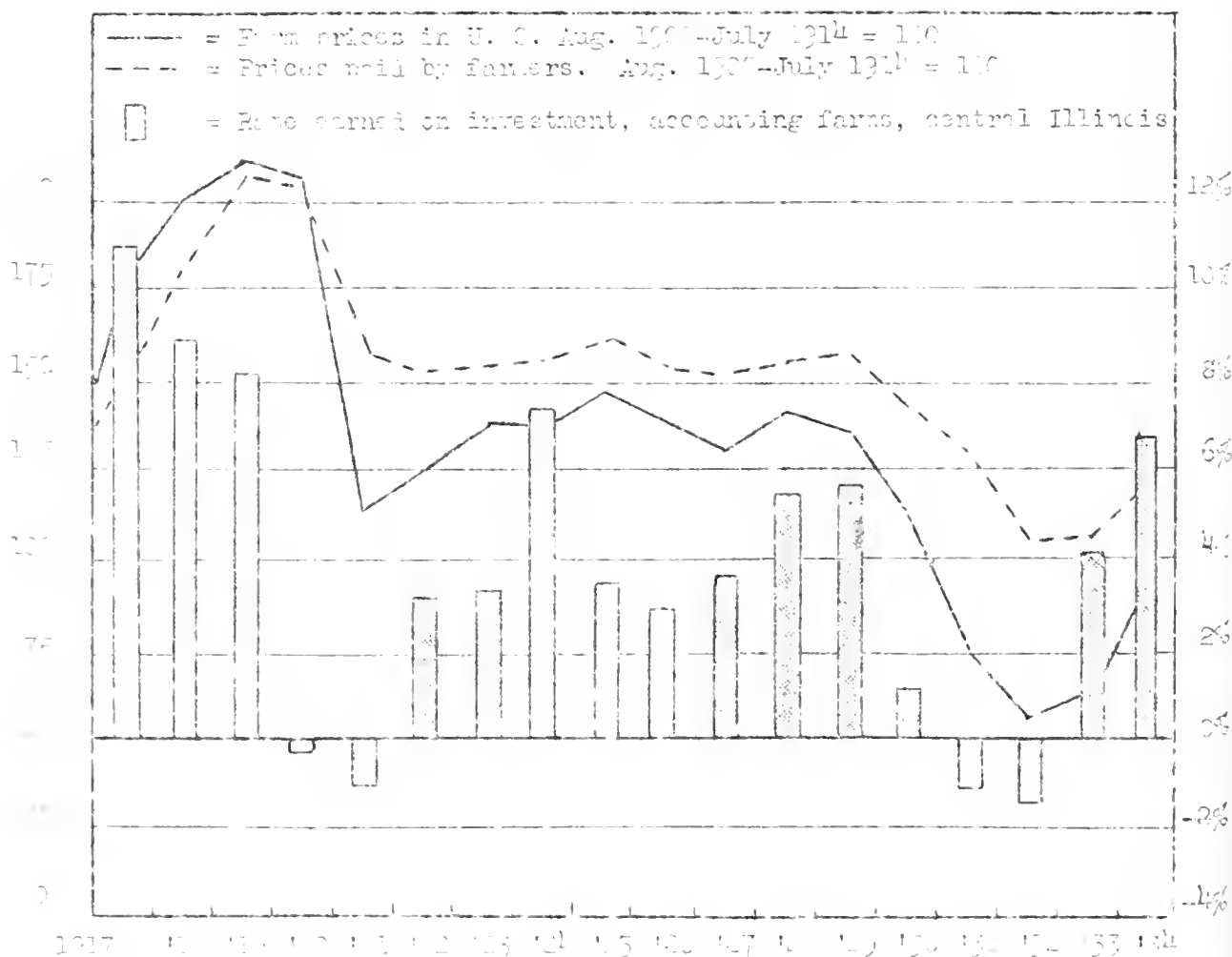
Rate earned on investment	Bushels per acre			Hogs: Income per litter	Dairy sales per dairy cow	Poultry income per \$100 invested	L.S. income per \$100 of feed fed	Cost per crop acre		Labor cost per \$100 gross receipts	Increase in inventory	Sales over cash expenses	Gross receipts		Acres in farm
	Corn	Oats	Soybeans					Labor	Power and machinery				Per acre	Per farm	
13.7	53	34	41	149	73	522	321	--	--	--	6500	6000	40	10800	547
12.6	49	30	38	134	66	462	281	.05	--	3	5300	6100	36	9800	407
11.5	45	26	35	119	59	402	241	1.05	.13	6	4300	5300	32	8800	447
10.4	41	22	32	104	--	342	201	2.05	1.13	9	3300	4500	28	7800	397
9.3	37	18	29	89	45	282	161	3.05	2.13	12	2300	3700	24	6800	347
8.21	33.1	14.2	25.8	74	38	222	121	4.05	3.13	15	1318	2896	19.59	5817	297
7.1	29	10	23	59	31	162	81	5.05	4.13	18	300	2100	16	4800	247
6.0	25	6	20	44	24	102	41	6.05	5.13	21	-700	1300	12	3800	197
4.9	21	2	17	29	17	42	1	7.05	6.13	24	-2700	500	8	2800	147
3.8	17	--	14	14	10	-18	--	8.05	7.13	27	-2700	--	4	1800	97
2.7	13	--	11	--	3	-76	--	9.05	8.13	30	-3700	--	--	500	47

Influence of Price Changes on Farm Earnings

Farm prices in 1934 advanced more rapidly than did the prices of commodities which farmers bought. Farmers of the United States as a group could exchange their farm products in 1934 for 74 percent as many goods as for the period 1907-1914, while in 1937 they received only 64 percent, and 1938 only 61 percent as much in exchange for what they had to sell as in the former period. In the month of February, 1937, this index of purchasing power had increased to 67 percent of former, the index of farm prices having risen to 111 as compared with an index of 107 for commodities which farmers buy. When the line representing farm prices drops below the line representing prices paid by farmers, farm earnings are very low, but when these lines come close together farm earnings increase. (See following graph.)

Index of Prices

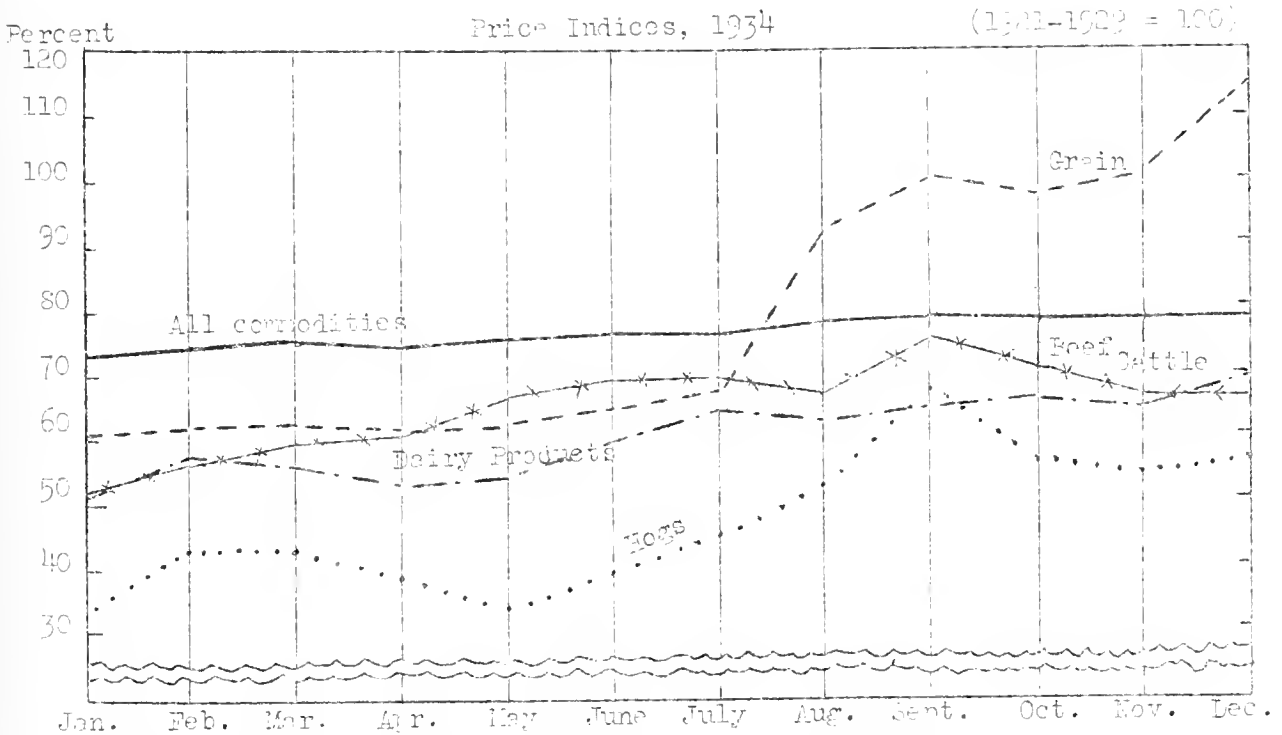
Rate Earned



Since the price of some farm products advanced much more rapidly during 1934 than other products, it is evident that some farmers would benefit more than others, depending upon the kind and quantity of products sold. Grain prices advanced much more rapidly than livestock prices; which resulted in a very bad price ratio for farmers who buy large quantities of feed. The average Illinois farm price of corn was 41 cents a bushel in January, 1934; it advanced steadily until the end of the year when it was 88 cents a bushel. Other grains made marked advance although not so great an advance as corn. The price of hogs fluctuated from a low of \$5.40 a hundred in May to a high of \$6.30 in September. The low point in the fall came in November when the average price was \$5.14. The price has advanced quite rapidly since November, the average price being \$7.50 for February, 1935. Beef cattle were worth \$4.10 a hundred in January, 1934 and advanced each month until September, when the price was \$5.90. They dropped to \$5.20 in December but increased again to \$7.40 for February, 1935.

The year 1934 set a record for the reduction in the numbers of livestock. The percentage decreases by species were as follows: horses, 1.1 percent; mules, 2.6 percent; all cattle, 11.2 percent; sheep, 4.7 percent; hogs, 35.3 percent. When all species are combined on the basis of their capacity to consume feed, the reduction was 13 percent. This reduction will greatly reduce the demand for feeds produced in 1935.

The relative change in prices of important commodities may be noted in the following graph, which shows the average Illinois farm prices by months as a percentage of the average prices for the period 1921-1929.



All commodities index represents the wholesale price of a large number of commodities for the United States, as computed by Bureau of Labor Statistics. Grain and livestock indices represent average monthly farm prices in Illinois.

Variation in Earnings Over Five-Year Period

A comparison of production, income, and expenditures on the accounting farms in DeWitt, Piatt, and Logan Counties for the last five years is very interesting because of the violent changes in price level. 1934 was the second year of very low crop yields, yet total receipts per farm were higher than in any other year in the last five, and were 99 percent of the 1933 gross receipts. Operating costs per acre were lower than in any year of the five except 1935. Thus profits were the best the county had experienced since 1928.

Earnings in 1935 as usual will depend upon individual efficiency, weather, and prices. A normal year will mean larger yields of grain and probably lower prices.

Comparison of Earnings and Investments on Accounting Farms in
DeWitt, Piatt, and Logan Counties for 1930-1934

Items	1930 ^{1/}	1931	1932 ^{1/}	1933	1934
Number of farms - - - - -	56	48	53	37	32
Average size of farms, acres- - -	248	270	251	277	297
Average rate earned, to pay for management, risk and capital - -	1.5%	-1.4%	-1.4%	4.1%	8.2%
Average labor and management wage	\$-1 290	\$-0 739	\$-2 211	\$165	\$1 893
Gross income per acre - - - - -	16.26	6.86	6.13	13.24	19.59
Operating cost per acre - - - - -	12.92	9.63	8.56	7.29	7.69
Average value of land per acre- -	173	149	132	115	111
Total investment per acre - - - -	228	191	169	145	145
Investment per farm in:					
Total livestock- - - - -	2 97	2 177	1 685	1 674	1 743
Cattle - - - - -	1 421	1 40	1 13	792	718
Hogs - - - - -	623	597	292	263	282
Poultry- - - - -	131	113	173	81	66
Gross income per farm - - - - -	4 640	1 851	1 539	3 665	5 817
Income per farm from:					
Crops- - - - -	1 793	651	610	2 493	3 328
Miscellaneous income - - - - -	72	40	52	35	4
Total livestock- - - - -	2 170	1 160	977	1 137	1 899
Cattle - - - - -	483	41	254	232	610
Dairy sales- - - - -	354	395	224	216	255
Hogs - - - - -	1 167	522	396	477	747
Poultry- - - - -	186	124	141	125	63
Average yield of corn in bu.- - -	40	47	36	26	33
Average yield of soybeans in bu.-	24	29	25	17	26

^{1/} Records for Mason County included for 1930 and 1932.

ANNUAL FARM BUSINESS REPORT ON THIRTY FARMS
IN KANKAKEE AND VERMILION COUNTIES, ILLINOIS, 1934

P. E. Johnston, T. R. Hedges, and A. L. Leonard*

Farm earnings on the 30 accounting farms in Kankakee and Vermilion Counties averaged a return of 2.92 percent on the capital invested in the farm business in 1934. This is the second highest return during the past five years. The average return of 3.0 percent on the investment for 1933 was the highest. The 1934 return is remarkable, considering the severe drouth and chinch bug damage.

These 30 accounts show for 1934 an average net income of \$940 per farm, as compared with an average of \$1,089 in 1933, and an average net loss of \$684 in 1932. The average cash income in 1934 was \$3,427 per farm, the cash business expenditures \$2,031 per farm, leaving a cash balance of \$1,396 to meet interest payments and family living expenses. (Those who keep home account books use the latter figure to represent the cash contribution of the farm to the "realized family income".) Besides the cash income, there was an inventory increase of \$374 a farm due mostly to the rise in prices of farm products. This increase, added to the cash balance, resulted in an average excess of receipts over expenses of \$1,770 a farm.

These data must not be considered representative of average farm conditions, for they were secured from farms which are larger than average, and which were managed by farmers who are more efficient than the average of all farmers in the county.

For the state as a whole, farm earnings were better in 1934 than in 1933, in spite of the fact that corn and oat yields were very low due to the drouth and to chinch bug damage. In the western and southwestern parts of the state the drouth caused an almost total failure of both corn and oats. This accounts for farm earnings being lower there than in other parts of the state.

The corn crop was best in the southeastern part of the state, and was fair in the northwestern section. Wheat yields were particularly good in the south and central portions of the state. Soybean yields were very good throughout the state, and there was a larger than normal acreage in Illinois in 1934. This state produced over half of the nation's 1934 crop of soybeans.

Chinch bug damage extended over most of the state last year, but was much more severe in some sections than in others, and was much worse on some farms than on other farms in the same community. Conditions affecting crop yields were very spotted. This accounts in part for the wide variation in farm earnings from one section of the state to another, and the wider variations than usual from one farm to another.

*G. T. Swaim and Otis Kercher, farm advisers in the above Counties, cooperated in supervising and collecting the records on which this report is based.

Industries other than agriculture again showed improved earnings over the previous year. A group of 840 industrial corporations reported by a nationally known bank showed average earnings of 5.0 percent on their invested capital in 1934, as compared with 3.4 percent for the same corporations in 1933. A similar group had a loss of one-tenth of one percent in 1932, and average earnings of 3.3 percent in 1931.

In comparing the average earnings of corporations with the rate earned on investments on accounting farms, it is well to keep in mind that in corporation accounting, charges are made for management, while in the farm accounts no comparable deduction has been made. On the other hand the farmer and his family receive food, fuel, and other items of living from the farm for which the farm has received no credit in the records used in this report. For the average central Illinois farm family, consisting of five persons, the value of the food and fuel furnished by the farm was about \$250 in 1934, when estimated on the basis of the wholesale price for farm products.

Variations in Farm Incomes

There was a much wider range in farm earnings on the accounting farms in 1934 than in 1933. This was true for the farms included in this report, and it was also true when the average earnings of farms in one section of the state were compared with the earnings of farms in other areas.

The extremely wide range in earnings was due to a combination of physical and economic factors. The average yields of wheat and soybeans was much better compared with the five-year average, than the average yields of corn and oats. This variation favored those sections which had larger acreages of the higher yielding crops in 1934. There was also a wide range in average corn yields from one section of the state to another, as well as between individual farms in the same area. The price of grains was high in 1934 as compared with prices of livestock and livestock products. Farms where grain sales constitute a large part of the farm income thus had an advantage. The rapid increase in the prices of farm products, particularly grains, favored those farms which had large stocks of salable products on hand at the beginning of the year. Many farmers who inventoried the corn on hand at the beginning of 1934 at 40 cents a bushel, later sold this corn for 30 cents.

In this group of 30 accounting farms the most successful third shows an average net income of \$2,012, while the average net loss on the least successful third of the farms was \$62. In 1933, the comparable net income for the most successful third and net loss for the least successful third was \$2,428, and \$-19 respectively.

Investments, Receipts, Expenses and Earnings on 30
Kankakee and Vermilion County Farms in 1934

Items	Your farm	Average of 30 farms	10 most profitable farms	10 least profitable farms
CAPITAL INVESTMENTS				
Land - - - - -		23 208	20 756	24 020
Farm improvements- - - - -		4 326	3 611	4 440
Livestock total- - - - -		<u>1 394</u>	<u>1 452</u>	<u>1 480</u>
Horses - - - - -		485	470	493
Cattle - - - - -		631	717	656
Hogs - - - - -		168	148	197
Sheep- - - - -		16	30	11
Poultry- - - - -		94	87	123
Machinery and equipment- - - -		1 433	1 480	1 314
Feed and grains- - - - -		1 861	2 204	1 604
Total capital investment	\$ _____	\$32 222	\$29 503	\$32 858
RECEIPTS AND NET INCREASES				
Livestock total- - - - -		<u>1 501</u>	<u>1 749</u>	<u>1 305</u>
Horses - - - - -		10	32	---
Cattle - - - - -		308	350	268
Hogs (including AAA payments)		508	574	427
Sheep- - - - -		34	91	13
Poultry- - - - -		104	101	109
Egg sales- - - - -		131	135	95
Dairy sales- - - - -		406	466	393
Feed and grains (including AAA payments) - - - - -		1 465	2 362	784
Labor off farm - - - - -		80	94	26
Miscellaneous receipts - - - -		1	1	1
Total receipts & net increases	\$ _____	\$ 3 047	\$ 4 206	\$ 2 116
EXPENSES AND NET DECREASES				
Farm improvements- - - - -		213	204	252
Horses - - - - -		---	---	33
Miscellaneous livestock decreases		---	---	---
Machinery and equipment- - - -		387	465	322
Feed and grains- - - - -		---	---	---
Livestock expenso- - - - -		36	39	37
Crop expense - - - - -		193	215	210
Hired labor- - - - -		159	158	189
Taxes- - - - -		255	272	241
Miscellaneous expenses - - - -		34	38	30
Total expenses & net decreases	\$ _____	\$ 1 277	\$ 1 391	\$ 1 314
RECEIPTS LESS EXPENSES				
Total unpaid labor- - - - -		830	803	864
Operator's labor - - - - -		538	536	540
Family labor - - - - -		292	267	324
Net income from investment and management - - - - -		940	2 012	- 62
RATE EARNED ON INVESTMENT - - - -	_____ %	2.92%	6.82%	-.19%
Return to capital and operator's labor and management - - - - -		1 478	2 548	478
5% of capital invested- - - - -		1 611	1 475	1 643
LABOR AND MANAGEMENT WAGE - - - -	\$ _____	\$ -133	\$ 1 073	\$-1 165

The following table shows the number of farms having certain net incomes per acre. There was a marked difference between the most successful and the least successful farms.

<u>Average net income per acre</u>	<u>Number of farms</u>	<u>Average net income per acre</u>	<u>Number of farms</u>
\$13.	2	\$3	7
11.	0	1	2
9.	4	-1	3
7.	2	-3	3
5.	6	-5	1

A further study of the farm businesses made by comparing the investments, receipts, and expenses of the group of farms having the highest net income, with those having the lowest income will throw some light on the question of why some farmers are more successful than others. This comparison is shown in the table on page 3.

Although the farms were of uniform size, the most profitable farms had a smaller total capital investment than either the least profitable farms, or the average of all farms. In spite of the smaller total investment, the most profitable farms had higher total receipts and net increases than the least profitable farms. A major part of the difference in income was due to the larger income from feed and grain, and livestock and livestock products on the most profitable farms. The total expense per farm and per acre, including the charge for family labor, was slightly higher on the most profitable farms.

The year 1934 was similar to 1933 in that the prices of farm products continued to advance, causing further increases in inventory values. Owing to the poor crop yields in 1934, there were fewer bushels of grain on hand to inventory at the end of the year than at the beginning. The value of the smaller amount of grain, however, was greater than for the larger amount on hand at the beginning of the year.

Bushels of Corn Inventoried

	Jan. 1, 1934	Dec. 31, 1934
Average of all farms.	2 747	1 301
Average of 10 most successful farms . . .	3 364	2 106
Average of 10 least successful farms. . .	2 392	780
Your farm		

The most profitable farms had a much larger inventory of corn, both at the beginning and at the end of the year. This difference accounted for a considerable part of their higher receipts and net increases from feed and grains.

The average inventory increase for the accounting farms in Kankakee and Vermilion Counties was \$374 in 1934, as compared with \$617 in 1933, and an inventory loss of \$940 a farm in 1932. There were increases of \$163 in total livestock, \$217 in feed and grain, and \$51 in machinery, while improvements showed a decrease of \$57. Such an increase in inventory as that for machinery results from the value of new replacements during the year being in excess of depreciation costs. This increase is of considerable interest, for it is the first time that such an increase in machinery inventories has occurred since farm earnings began to decline so drastically with the general depression.

Inventory Changes for 1934

Items	Beginning inventory 1-1-34	Closing inventory 12-31-34	Inventory changes 1934	Inventory changes, your farm
Total livestock.	\$1 394	\$1 557	\$163	\$
Feed and grains.	1 861	2 078	217	
Machinery.	1 433	1 484	51	
Improvements (except residence).	4 326	4 269	-57	
Total.	\$9 014	\$9 388	\$374	\$

Some Adjustments on Kankakee and Vermilion County Farms Since 1929

Farmers have been forced to make adjustments in their cash expenditures as the result of changes in their cash incomes. From 1929 through 1933 farm operating costs declined each year, but the year 1934 brought a reversal of this trend. Total operating expenses were 52 cents an acre higher in 1934 than in 1933, while cash operating expenses were \$2,031 a farm in 1934, as compared with \$1,238 in 1933. The largest increases in expenditures over the previous year were for feed and grains, and machinery and supplies for machinery. Indications point to an even greater expansion of spending for machinery in 1935, since farmers have postponed machinery replacements during the four-year period since 1929.

Cash Income and Expenses on Accounting Farms in Kankakee and Vermilion Counties for 1929 and 1934

Items	Your farm 1934	Average cash expense per farm 1934	1929	Your farm 1934	Average cash income per farm 1934	1929
Livestock	\$	\$ 429	\$ 451	\$	\$1 767	\$2 941
Feed and grains		266	363		1 514	3 497
Machinery		501	1 075		63	142
Improvements.		158	384		2	---
Labor		159	554		80	78
Miscellaneous		34	33		1	5
Livestock expense		36	47		---	---
Crop expense.		193	292		---	---
Taxes		255	466		---	---
Total	\$	\$2 031	\$3 665	\$	\$3 427	\$6 663
Excess of cash sales over expenses.	\$			\$	\$1 396	\$2 998
Increase in inventory					374	1 154
Income to labor and capital (Receipts less expenses).					1 770	4 152

The cumulative effect of several years of low agricultural prices on the demand for manufactured goods can readily be ascertained by a comparison of cash farm expenditures in 1934 with those in 1929. Although the average cash income in 1934 was only 51 percent of that in 1929, cash expenditures were 55 percent as large. In 1934 livestock purchases were 95 percent, and feed and grain purchases 73 percent as large as in 1929. In 1934 these farms paid out 47 percent as much for machinery, 41 percent as much for improvements, and 66 percent as much for crop expense as in 1929, while taxes were reduced to 55 percent of the 1929 level.

Comparison of Farms With High and Low Earnings

The most profitable farms in this study had net receipts per acre of \$8.55, as compared with a net loss of 26 cents per acre on the least profitable farms. The reasons for this difference may be obtained from a study of the data on pages 3 and 8.

The two groups of farms were equal in size, but the most profitable group had a larger proportion of their land area tillable than the least profitable farms. The most profitable farms had 13.1 acres more corn, and 9.3 acres more wheat than the least profitable farms. The most profitable farms also carried larger inventories of feed and grain on which to make a profit when prices advanced. Along with the larger acreage of crops, another reason for the larger inventories of feed and grains was the higher yields, there being an advantage of 4.9 bushels of corn, 9.3 bushels of oats, and 5.4 bushels of wheat an acre in favor of the high-profit group. Crop yields were so low on the least profitable farms that there was an average inventory loss of \$227 in the feed and grain account in spite of the price advances.

The total investment in productive livestock was \$4.62 per acre on the most profitable farms, as compared with \$4.05 per acre on the least profitable farms. The most profitable farms fed \$1,167 worth of feed, securing a return of \$147 for each \$100 of feed fed, as compared with \$1,282 worth of feed fed per farm, and a return of \$102 for each \$100 worth of feed fed on the low-profit group. The difference in livestock efficiency is further illustrated by the fact that the most profitable farms had a return of \$97 per litter farrowed, as compared with a return of \$63 per litter farrowed on the least profitable farms.

The larger income on the most profitable farms was secured with a total operating cost of only 6 cents per acre above that on the least profitable farms. The man labor cost per crop acre was \$4.70 on the most profitable farms, as compared with \$5.57 on the least profitable farms, while power and machinery cost per crop acre was \$5.86 on the most profitable farms, and \$3.18 per crop acre on the least profitable farms.

Influence of AAA Programs on Cropping Systems and Farm Incomes

The farm-account records in Illinois were influenced both directly and indirectly by the corn-hog and wheat adjustment programs. A large percentage of accounting farms were under one or both contracts in 1934. The acreages of corn and wheat on these farms were therefore less than normal. This should have resulted in lower operating costs. Corn-hog benefit payments for the entire 1934 program will total about 40 million dollars for the state, while wheat benefit payments will be about 2.4 million dollars.

The benefit payments for accounting farms are indicated in the following table, which shows the average payment for those farms receiving payments, and includes only those payments received by the cooperator before the 1934 books were closed. In some cases only the first corn-hog check is included, while in other cases the second check had been received. The second payments not received, and the third payments will be entered in the 1935 book.

AAA Benefit Payments Received in 1934

	Corn		Wheat		Hogs		Average of all payments ^{1/}
	Number of farms	Amount per farm	Number of farms	Amount per farm	Number of farms	Amount per farm	
1/3 most profitable farms	9	\$117	3	\$150	9	\$ 96	\$237
1/3 least profitable farms	8	100	3	125	7	100	188
All accounting farms	25	130	12	140	23	98	239

^{1/} Total benefit payments reported by accounting farms under contract for 1934 divided by total number of accounting farms.

On many farms the cash received from benefit payments will more than pay for the year's taxes. As an average for all accounting farms, the payments actually received were sufficient to pay 94 percent of the 1934 taxes.

It is interesting to note the use made of the contracted acres on the accounting farms. The average farm had 21.6 contracted acres which were used as follows: 6.4 idle; 0.8 red clover; 2.5 sweet clover; 5.3 soybeans; 1.4 alfalfa; and 5.2 acres were in other crops. These data indicate that most farmers made good use of their contracted acres from the standpoint of soil improvement, as a large part of them were in legumes. When the Government restrictions on the use of crops grown on contracted acres were removed, they were on many farms the most profitable crops as they furnished hay and pasture where badly needed in drouth areas. The legumes had the further advantage of being immune to attack from chinch bugs.

Farm earnings were influenced indirectly by the AAA programs in that the reduction in production increased the price of the commodities involved. The drouth was a more important factor in reducing production than the adjustment programs, yet if it had not been for the corn-sealing program there would have been but little corn in the hands of farmers at the time the major price advance became effective.

Factors Helping to Analyze the Farm Business on 30
Kankakee and Vermilion County Farms in 1934

Items	Your farm	Average of 30 farms	10 most profitable farms	10 least profitabl farms
Size of farms--acres - - - - -	_____	233.9	235.2	235.0
Percent of land area tillable- - -	_____	91.0	93.3	89.6
Percent of tillable land in hay and pasture - - - - -	_____	27.3	29.6	25.5
Gross receipts per acre- - - - -	_____	13.03	17.88	9.01
Total expenses per acre- - - - -	_____	9.01	9.33	9.27
Net receipts per acre- - - - -	_____	4.02	8.55	-.26
Value of land per acre - - - - -	_____	99	88	102
Total investment per acre- - - - -	_____	138	125	140
Acres in Corn- - - - -	_____	66.9	72.8	59.7
Oats- - - - -	_____	49.3	46.4	53.0
Wheat - - - - -	_____	12.4	16.9	7.6
Soybeans- - - - -	_____	8.1	5.9	11.7
Hay - - - - -	_____	29.1	30.7	27.7
Tillable pasture- - - - -	_____	29.2	34.2	26.1
Crop yields--Corn, bu. per acre- -	_____	18.2	21.5	16.6
Oats, bu. per acre- -	_____	13.8	19.6	10.3
Wheat, bu. per acre -	_____	5.9	9.1	3.7
Value of feed fed to productive L.S.	_____	1 144	1 167	1 282
Returns per \$100 of feed fed to productive livestock- - - - -	_____	130	147	102
Returns per \$100 invested in:				
Cattle- - - - -	_____	111	117	108
Poultry - - - - -	_____	240	251	249
Pigs weaned per litter - - - - -	_____	5.9	6.3	5.9
Income per litter farrowed - - - -	_____	81	97	63
Dairy sales per dairy cow- - - - -	_____	63	60	59
Investment in productive L.S. per A.	_____	4.19	4.62	4.05
Receipts from productive L.S. per A.	_____	6.37	7.30	5.55
Man labor cost per crop acre - - -	_____	5.15	4.70	5.57
Machinery cost per crop acre - - -	_____	2.11	2.51	1.74
Power and mach. cost per crop A. -	_____	3.45	3.86	3.18
Farms with tractor - - - - -	_____	66%	80%	60%
Value of feed fed to horses- - - -	_____	257	281	232
Man labor cost per \$100 gross income- - - - -	_____	31	21	49
Expenses per \$100 gross income - -	_____	69	52	103
Farm improvements cost per acre- -	_____	.91	.87	1.07
Excess of sales over cash expenses	_____	1 396	1 532	983
Increase in inventory- - - - -	_____	374	1 283	-181
Rate earned on investment- - - - -	_____	2.92	6.82	-.19
Gross receipts per farm- - - - -	_____	3 047	4 206	2 116

Chart for Studying the Efficiency of Various Parts of Your Business,
Kankakee and Vermilion Counties, 1934

The numbers above the lines across the middle of the page are the averages for the 30 farms included in this report for the factors named at the top of the page. By drawing a line across each column at the number measuring the efficiency of your farm in that factor, you can compare your efficiency with that of other farmers in your locality.

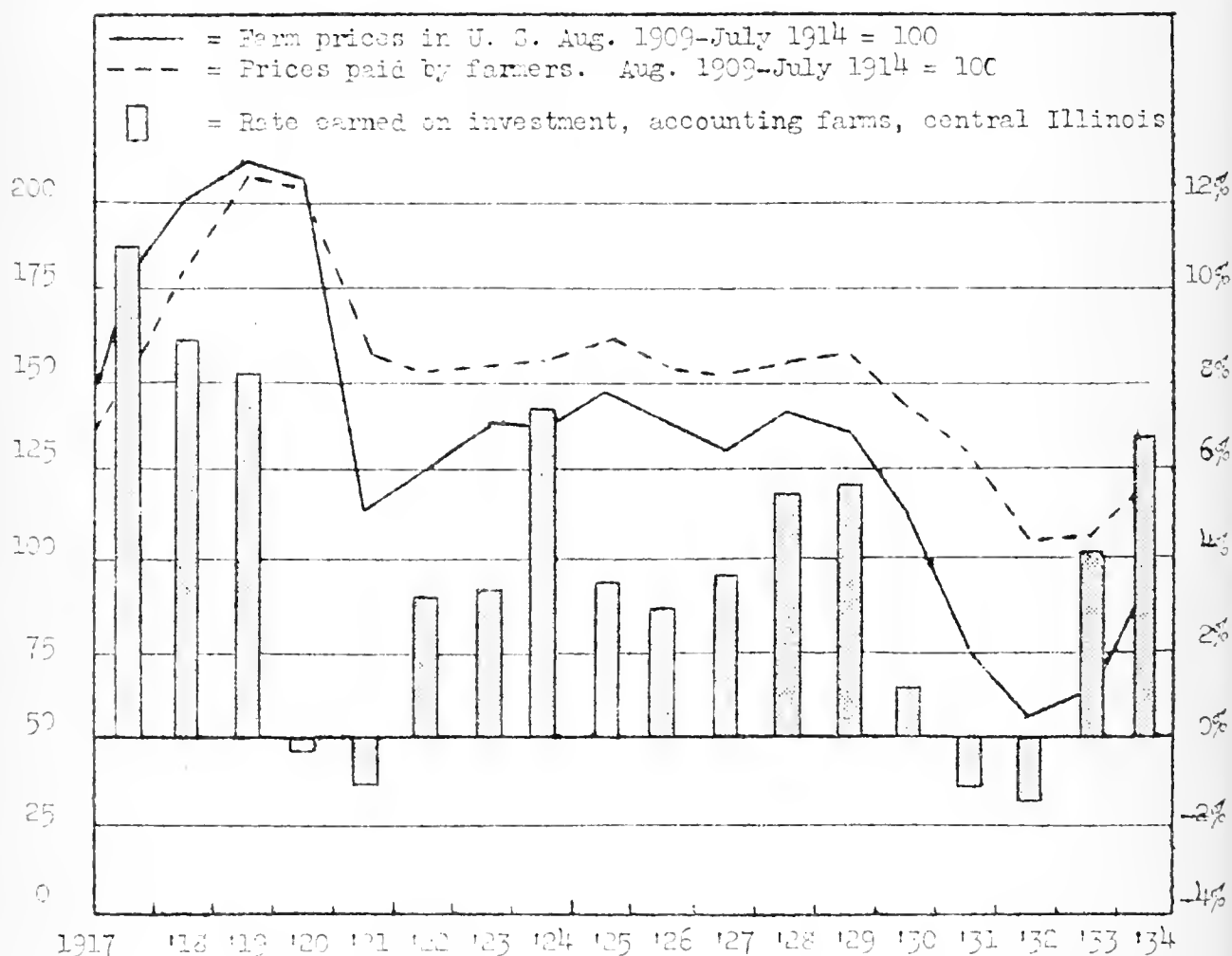
Rate earned on investment	Bushels per acre			Hogs: Income per litter	Dairy sales per dairy cow	Poultry income per \$100 invested	L.S. income per \$100 of feed fed	Cost per crop acre		Labor cost per \$100 gross receipts	Increase in inventory	Sales over cash expenses	Gross receipts		Acres in farm
	Corn	Oats	Wheat					Labor	Power and machinery				Per acre	Per farm	
7.9	38	34	21	181	113	440	280	--	--	--	3374	3400	28	5000	534
6.9	34	38	18	161	103	400	250	.35	--	--	2774	3000	25	4600	474
5.9	30	32	15	141	93	360	220	1.55	.45	--	2174	2600	22	4200	414
4.9	26	26	12	121	83	320	190	2.75	1.45	1	1574	2200	19	3800	354
3.9	22	20	9	101	73	280	160	3.95	2.45	16	974	1800	16	3400	294
2.92	18.2	13.8	5.9	81	63	240	130	5.15	3.45	31	374	1396	13.03	3047	233.9
1.9	14	8	3	61	53	200	100	6.35	4.45	46	-226	1000	10	2600	174
.9	10	2	0	41	43	160	70	7.55	5.45	61	-826	600	7	2200	114
-.1	6	--	--	21	33	120	40	8.75	6.45	76	-1426	200	4	1800	54
-1.1	2	--	--	1	23	80	10	9.95	7.45	91	-2026	--	1	1400	--
-2.1	--	--	--	--	13	40	--	11.15	8.45	106	-2626	--	--	1000	--

Influence of Price Changes on Farm Earnings

Farm prices in 1934 advanced more rapidly than did the prices of commodities which farmers bought. Farmers of the United States as a group could exchange their farm products in 1934 for 74 percent as many goods as for the period 1909-1914, while in 1933 they received only 64 percent, and 1932 only 61 percent as much in exchange for what they had to sell as in the prewar period. In the month of February, 1935, this index of purchasing power had increased to 87 percent of prewar, the index of farm prices having risen to 111 as compared with an index of 127 for commodities which farmers buy. When the line representing farm prices drops below the line representing prices paid by farmers, farm earnings are very low, but when these lines come close together farm earnings increase. (See following graph.)

Index of Prices

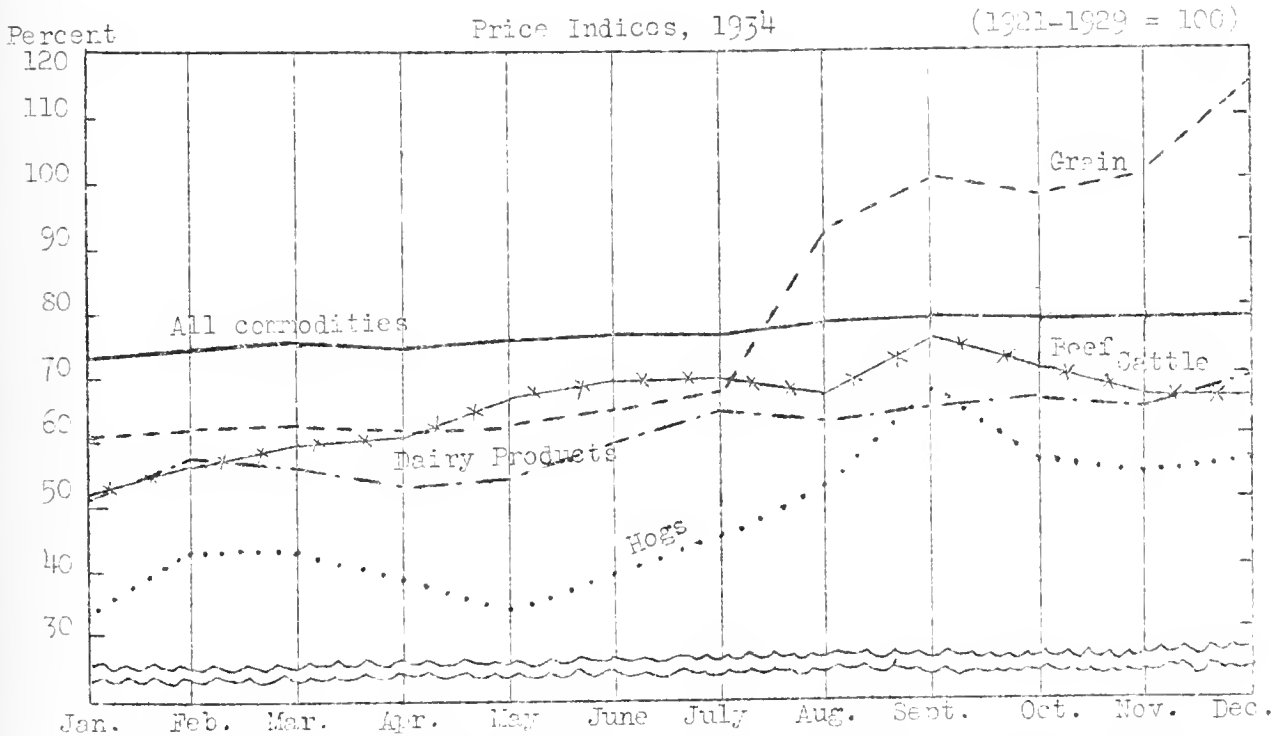
Rate Earned



Since the price of some farm products advanced much more rapidly during 1934 than other products, it is evident that some farms would benefit more than others, depending upon the kind and quantity of products sold. Grain prices advanced much more rapidly than livestock prices; which resulted in a very bad price ratio for farmers who buy large quantities of feed. The average Illinois farm price of corn was 41 cents a bushel in January, 1934; it advanced steadily until the end of the year when it was 82 cents a bushel. Other grains made marked advance although not so great an advance as corn. The price of hogs fluctuated from a low of \$5.20 a hundred in May to a high of \$6.30 in September. The low point in the fall came in November when the average price was \$5.10. The price has advanced quite rapidly since November, the average price being \$7.50 for February, 1935. Beef cattle were worth \$4.10 a hundred in January, 1934 and advanced each month until September, when the price was \$5.90. They dropped to \$5.20 in December but increased again to \$7.40 for February, 1935.

The year 1934 set a record for the reduction in the numbers of livestock. The percentage decreases by species were as follows: horses, 1.1 percent; mules, 2.6 percent; all cattle, 11.2 percent; sheep, 4.7 percent; hogs, 35.3 percent. When all species are combined on the basis of their capacity to consume feed, the reduction was 13 percent. This reduction will greatly reduce the demand for feeds produced in 1935.

The relative change in prices of important commodities may be noted in the following graph, which shows the average Illinois farm prices by months as a percentage of the average prices for the period 1921-1929.



All commodities index represents the wholesale price of a large number of commodities for the United States, as computed by Bureau of Labor Statistics. Grain and livestock indices represent average monthly farm prices in Illinois.

Variation in Earnings Over Five-Year Period

A comparison of production, income, and expenditures on the accounting farms in Kankakee and Vermilion Counties for the last five years is very interesting because of the violent fluctuations in price level. Although the 1934 crop was nearly a failure, and followed a smaller than average crop of 1933, the increased prices of both grain and livestock did have considerable effect in holding earnings in second place for the five-year period 1930-1934.

Earnings in 1935, as usual, will depend upon individual efficiency, weather, and prices. With normal weather conditions, prices of grain are likely to go down to a more normal level which will give individual efficiency the responsibility for higher earnings on each farm.

Comparison of Earnings and Investments on Accounting Farms in
Kankakee and Vermilion Counties for 1930-1934

Items	1930 ^{1/}	1931 ^{1/}	1932 ^{2/}	1933 ^{2/}	1934
Number of farms - - - - -	38	41	37	34	30
Average size of farms, acres- - -	243	242	234	231	234
Average rate earned, to pay for management, risk and capital - -	.2%	-1.2%	-1.7%	3.0%	2.9%
Average labor and management wage	\$-1 723	\$-2 172	\$-2 144	\$-208	\$-133
Gross income per acre - - - - -	12.27	7.93	5.67	13.21	13.03
Operating cost per acre - - - - -	11.83	10.19	8.59	8.49	9.01
Average value of land per acre- -	147	134	126	117	99
Total investment per acre - - - -	208	184	169	158	138
Investment per farm in:					
Total livestock- - - - -	3 274	2 422	1 822	1 740	1 394
Cattle - - - - -	1 560	974	716	610	631
Hogs - - - - -	526	445	221	188	168
Poultry- - - - -	179	160	138	123	94
Gross income per farm - - - - -	2 986	1 915	1 327	3 048	3 047
Income per farm from:					
Crops- - - - -	898	568	284	1 822	1 465
Miscellaneous income - - - - -	53	36	25	32	1
Total livestock- - - - -	2 035	1 311	1 018	1 194	1 501
Cattle - - - - -	301	12	138	112	308
Dairy sales- - - - -	526	590	362	368	406
Hogs - - - - -	849	434	286	474	508
Poultry- - - - -	331	230	180	189	-104
					235
Average yield of corn in bu.- - -	33	41	49	29	18
Average yield of oats in bu.- - -	32	39	43	18	14

^{1/} Records from Iroquois and Kankakee Counties included for 1930 and 1931.

^{2/} Records from Iroquois, Kankakee, and Vermilion Counties included for 1932 and 1933.

ANNUAL FARM BUSINESS REPORT ON THIRTY-SIX FARMS
IN CHRISTIAN COUNTY, ILLINOIS, 1934

P. E. Johnston, E. L. Sauer, and J. E. Wills*

The farm earnings of 36 account-keeping farmers in Christian County showed an increase in 1934 over those of 1933. This is the second consecutive year of improvement in the business of these farms. The three years previous to 1933 showed very low returns.

These 36 accounts show for 1934 an average net income of \$2,748 per farm, as compared with an average of \$1,446 in 1933, and an average of \$162 in 1932. The average cash income in 1934 was \$4,240 per farm, the cash business expenditures \$2,076 per farm, leaving a cash balance of \$2,764 to meet interest payments and family living expenses. (Those who keep home account books use the latter figure to represent the cash contribution of the farm to the "realized family income".) Besides the cash income, there was an inventory increase of \$68 per farm due to the rise in the prices of farm products. This increase, added to the cash balance, resulted in an average excess of receipts over expenses of \$3,452 per farm.

These data must not be considered representative of average farm conditions, for they were secured from farms which are larger than average, and which were managed by farmers who are more efficient than the average of all farmers in the county.

For the state as a whole, farm earnings were better in 1934 than in 1933 in spite of the fact that corn and oat yields were very low due to the drouth and chinch bug damage. In the western and southwestern parts of the state the drouth caused an almost total failure of both corn and oats. This accounts for farm earnings being lower there than in other parts of the state.

The corn crop was best in the southeastern part of the state, and was fair in the northwestern section. Wheat yields were particularly good in the south and central portions of the state. Soybean yields were very good throughout the state, and there was a larger than normal acreage in Illinois in 1934. This state produced over half of the nation's 1934 crop of soybeans.

Chinch bug damage extended over most of the state last year but was much more severe in some sections than in others, and was much worse on some farms than on other farms in the same community. Conditions affecting crop yields were very spotted. This accounts in part for the wide variation in farm earnings from one section of the state to another, and the wider variations than usual from one farm to another.

* T. H. Brock, farm adviser in Christian County, cooperated in supervising and collecting the records on which this report is based.

Industries other than agriculture again showed improved earnings over the previous year. A group of 240 industrial corporations, reported by a nationally known bank, showed average earnings of 5.0 percent on their invested capital in 1934, as compared with 3.4 percent for the same corporations in 1933. A similar group had a loss of one-tenth of one percent in 1932, and average earnings of 3.3 percent in 1931.

In comparing the average earnings of corporations with the rate earned on investment on accounting farms, it is well to keep in mind that in corporation accounting, charges are made for management, while in the farm accounts no comparable deduction has been made. On the other hand the farmer and his family receive food, fuel, and other items of living from the farm for which the farm has received no credit in the records used in this report. For the average central Illinois farm family, consisting of five persons, the value of the food and fuel furnished by the farm was about \$250 in 1934, when estimated on the basis of the wholesale price for farm products.

Variations in Farm Incomes

There was a much wider range in farm earnings on the accounting farms in 1934 than in 1933. This was true for the farms included in this report, and it was also true when the average earnings of farms in one section of the state are compared with the earnings of farms in other areas.

The extremely wide range in earnings was due to a combination of physical and economic factors. The average yields of wheat and soybeans were much better, compared with the five-year average, than the average yields of corn and oats. This variation favored those sections which had larger acreages of the higher yielding crops in 1934. There was also a wide range in average corn yields from one section of the state to another, as well as between individual farms in the same area. The price of grains was high in 1934, as compared with prices of livestock and livestock products. Farms where grain sales constitute a large part of the farm income thus had an advantage. The rapid increase in the prices of farm products, particularly grains, favored those farms which had large stocks of salable products on hand at the beginning of the year. Many farmers who inventoried the corn on hand at the beginning of 1934 at 40 cents a bushel, later sold this corn for 81 cents.

In this group of 30 accounting farms the most successful third shows an average net income of \$7,744, while the average net income of the least successful third of the farms was only \$398. In 1933 the comparable net incomes for the two groups was \$2,756 and \$217, respectively.

Investments, Receipts, Expenses and Earnings on 36
Christian County Farms in 1974

Items	Your farm	Average of 36 farms	12 most profitable farms	12 least profitable farms
CAPITAL INVESTMENTS				
Land - - - - -		24 896	33 352	21 390
Farm improvements- - - - -		3 328	3 773	3 742
Livestock total- - - - -		<u>1 106</u>	<u>1 141</u>	<u>995</u>
Horses - - - - -		327	370	304
Cattle - - - - -		394	337	360
Hogs - - - - -		291	331	260
Sheep- - - - -		31	40	1
Poultry- - - - -		63	63	70
Machinery and equipment- - - - -		1 644	2 324	1 444
Feed and grains- - - - -		1 911	3 253	1 130
Total capital investment - - - - -	\$	<u>\$32 885</u>	<u>\$43 845</u>	<u>\$28 701</u>
RECEIPTS AND NET INCREASES				
Livestock total- - - - -		<u>1 624</u>	<u>1 805</u>	<u>1 283</u>
Horses - - - - -		24	40	---
Cattle - - - - -		237	250	132
Hogs (including AAA payments)- - - - -		1 013	1 150	782
Sheep- - - - -		47	72	---
Poultry- - - - -		55	49	76
Egg sales- - - - -		67	66	50
Dairy sales- - - - -		240	178	243
Feed and grains (including AAA payments) - - - - -		2 949	5 342	1 545
Labor off farm - - - - -		83	134	64
Miscellaneous receipts - - - - -		4	5	7
Total receipts & net increases \$	\$	<u>\$ 4 735</u>	<u>\$ 7 786</u>	<u>\$ 2 199</u>
EXPENSES AND NET DECREASES				
Farm improvements- - - - -		137	156	138
Horses - - - - -		---	---	11
Miscellaneous livestock decreases - - - - -		---	---	---
Machinery and equipment- - - - -		414	552	427
Feed and grains- - - - -		---	---	---
Livestock expense- - - - -		24	23	23
Crop expense - - - - -		168	148	161
Hired labor- - - - -		216	290	181
Taxes- - - - -		297	382	256
Miscellaneous expenses - - - - -		27	34	23
Total expenses & net decreases \$	\$	<u>\$ 1 283</u>	<u>\$ 1 585</u>	<u>\$ 1 220</u>
RECEIPTS LESS EXPENSES-				
Total unpaid labor- - - - -	\$	<u>3 452</u>	<u>\$ 6 201</u>	<u>\$ 1 672</u>
Operator's labor - - - - -		704	657	731
Family labor - - - - -		524	502	529
Family labor - - - - -		180	155	252
Net income from investment and management - - - - -		2 747	5 344	298
RATE EARNED ON INVESTMENT - - - - -	%	<u>8.36%</u>	<u>12.34%</u>	<u>3.13%</u>
Return to capital and operator's labor and management - - - - -		3 272	6 046	1 427
5% of capital invested- - - - -		1 644	2 192	1 435
LABOR AND MANAGEMENT WAGE - - - - -	\$	<u>\$ 1 628</u>	<u>\$ 3 254</u>	<u>\$ 1 435</u>

The following table shows the number of farms having certain net incomes per acre. There was a marked difference between the most successful and the least successful farms.

<u>Average net in-</u> <u>come per acre</u>	<u>Number of</u> <u>farms</u>	<u>Average net in-</u> <u>come per acre</u>	<u>Number of</u> <u>farms</u>
\$ 8 and over	2	\$11	5
5	2	9	5
1	3	7	4
10	6	5	4
17	1	3	4
15	1	1	3
13	2		

A further study of the farm businesses made by comparing the investments, receipts, and expenses of the group of farms with the highest net incomes, with those having the lowest net incomes should throw some light on the question of why some farmers are more successful than others. This comparison is shown in the table on page 3.

The most successful farms averaged 290.2 acres each, the least successful 214.9 acres. This difference in size accounts in part for the variation in the average investment, receipts, and expenses in the two groups. Difference in receipts from the sales of grains accounts for much of the difference in income between the two groups. Although the expenses per farm were higher on the most profitable farms, the total expense per acre, including the charge for family labor, was less than it was on the least profitable farms.

Changes in Inventories and Inventory Values

The year 1934 was similar to 1933 in that the prices of farm products continued to advance, causing further increases in inventory values. Owing to the poor crop yields in 1934 there were fewer bushels of grain on hand to inventory at the end of the year than at the beginning. The value of the smaller amount of grain, however, was greater than for the larger amount on hand at the beginning of the year.

Bushels of Corn Inventoried

	Jan. 1, 1934	Dec. 31, 1934
Average of all farms	2 559	1 016
Average of 12 most successful farms . .	4 325	1 749
Average of 12 least successful farms . .	1 577	670
Your farm		

The difference in quantities of grain inventoried was one of the important factors influencing the difference in earnings. The most profitable farms had a larger inventory of corn both at the beginning, and at the end of the year than did the least profitable farms.

The average inventory increase for the accounting farms in Christian County was \$532 in 1934, as compared with \$546 in 1933, and an inventory loss of \$283 a farm in 1932. There were increases of \$256 in total livestock, \$433 in feed and grain, and \$43 in machinery, while improvements showed a decrease of \$41. Such an increase in inventory as that for machinery results from the value of new replacements during the year being in excess of depreciation costs. This increase is of considerable interest, for it is the first time that such an increase in machinery inventories has occurred since farm earnings began to decline so drastically with the general depression.

Inventory Changes for 1934

Items	Beginning inventory 1-1-34	Closing inventory 11-31-34	Inventory changes 1934	Inventory changes, your farm
Total livestock.	\$1 106	\$1 362	\$256	\$
Feed and grains.	1 311	1 744	433	
Machinery.	1 644	1 687	43	
Improvements (except residence)	3 522	3 284	-238	
Total.	\$7 589	\$7 677	\$588	\$

Some Adjustments on Christian County Farms Since 1929

Farmers have been forced to make adjustments in their cash expenditures as the result of changes in their cash incomes. From 1929 through 1933, farm operating costs declined each year. However, the year 1934 brought a reversal of this trend. Total operating expenses were 73 cents an acre higher in 1934 than in 1933, while cash operating expenses were \$2,076 a farm in 1934, as compared with \$1,916 in 1933. The largest increase in expenditures over the previous year was for machinery and supplies for machinery. Indications point to an even greater expansion of spending for these items in 1935, since farmers have postponed machinery replacements during the four-year period since 1929.

Cash Income and Expenses on Accounting Farms in Christian County
1929 and 1934

Items	Your farm		Average cash	
	1934	1934	1929	1934
Livestock	\$	\$ 241	\$ 275	\$
Feed and grains		311	744	
Machinery		699	1 154	
Improvements.		93	322	
Labor		216	270	
Miscellaneous		27	34	
Livestock expense		24	57	
Crop expense.		168	351	
Taxes		207	463	
Total	\$	\$2 076	\$4 584	\$
Excess of cash sales over expenses.				\$ 764
Increase in inventory				582
Income to labor and capital (Receipts less expenses).				3 450

The cumulative effect of several years of low agricultural prices in the demand for manufactured goods can readily be ascertained by a comparison of cash farm expenditures in 1934 with those in 1929. Although the average cash income in 1934 was 65 percent of that in 1929, cash expenditures were only 44 percent as large. In 1934 livestock purchases were 75 percent, and feed and grain purchases 42 percent as large as in 1929. In 1934, these farms paid out 61 percent as much for machinery, and 44 percent as much for crop expense as in 1929, while taxes were reduced to only 64 percent of the 1929 level.

Comparison of Farms with High and Low Earnings

The most profitable farms in this study had net receipts per acre of \$14.16, as compared with \$4.18 for the least profitable farms. The reasons for this difference may be obtained from a study of the data on pages 3 and 4.

In Christian County the most profitable farms averaged 75.5 acres larger, had 14.6 acres more corn, and 22.8 acres more soybeans than the least profitable farms. They also carried larger inventories of both crops and livestock on which to make a profit when prices advanced. One reason for the larger inventories was the higher crop yields, the most profitable farms having an advantage of 10 bushels of corn, 7.2 bushels of wheat, and 7.8 bushels of soybeans per acre.

The most profitable farms had an investment in productive livestock of \$7.23 per acre, and fed \$1,348 of feed per farm, as compared with \$5.57 invested per acre and \$1,047 of feed fed per farm, on the least profitable farms. The productive livestock, on the most profitable farms, returned \$131 for each \$100 of feed fed, as compared with a return of \$123 for \$100 of feed fed on the least profitable farms.

The larger income on the most profitable farms was secured with a total operating cost of \$1.73 per acre, as compared with \$2.31 per acre on the least profitable farms. Man labor costs per crop acre were \$3.47 on the most profitable farms, as compared with \$5.65 on the least profitable farms, while power and machinery costs per crop acre amounted to \$2.77 on the most profitable farms, and \$3.76 on the least profitable farms.

Influence of AAA Programs on Cropping Systems and Farm Incomes

The farm-account records in Illinois were influenced both directly and indirectly by the corn-hog and wheat adjustment programs. A larger percentage of accounting farms were under one or both contracts in 1934. The acreages of corn and wheat on these farms were therefore less than normal. This should have resulted in lower operating costs. Corn-hog benefit payments for the entire 1934 program will total about 40 million dollars for the state, while wheat benefit payments will be about 8.4 million dollars.

The benefit payments for accounting farms are indicated in the following table, which shows the average payment for those farms receiving payments, and includes only those payments received by the cooperator before the 1934 books were closed. In some cases only the first corn-hog check is included, while in other cases the second check had been received. The second payments not received and the third payments will be entered in the 1935 book.

AAA Benefit Payments Received in 1934

	Corn		Wheat		Hogs		Average of all payments ^{1/}
	Number of farms	Amount per farm	Number of farms	Amount per farm	Number of farms	Amount per farm	
1/3 most profitable farms	11	\$142	3	\$127	11	\$175	\$322
1/3 least profitable farms	11	96	3	107	10	122	216
All accounting farms	34	104	9	125	33	144	262

^{1/} Total benefit payments reported by accounting farms under contract for 1934 divided by total number of accounting farms.

On many farms the cash received from benefit payments will more than pay the year's taxes. As an average of all accounting farms, the payments actually received were sufficient to pay 88 percent of the 1934 taxes.

It is interesting to note the use made of the contracted acres on the accounting farms. The average farm had 20 contracted acres which were used as follows: 1.7 idle; 4.3 red clover; 2.7 sweet clover; 7.7 soybeans; .4 alfalfa; and 5.2 acres were in other crops. These data indicate that most farmers made good use of their contracted acres from the standpoint of soil improvement, as most of them were in legumes. When the government restrictions on the use of crops grown on contracted acres were removed, they were on many farms the most profitable crops as they furnished hay and pasture where badly needed in drouth areas. The legumes had the further advantage of being immune to attack from chinch bugs.

Farm earnings were influenced indirectly by the AAA programs in that the reduction in production increased the price of the commodities involved. The drouth was a more important factor in reducing production than the adjustment programs, but if it had not been for the corn-sealing program there would have been but little corn in the hands of farmers at the time the major price advance became effective.

Factors Filing to Analyze the Farm Business on 36
Christian County Farms in 1934

Items	Your farm	Average of 36 farms	12 most profitable farms	12 least profitable farms
Size of farms--acres - - - - -	-----	237.0	290.2	214.9
Percent of land area tillable- - - - -	-----	93.2	94.6	91.0
Percent of tillable land in hay and pasture - - - - -	-----	23.7	17.3	27.4
Gross receipts per acre- - - - -	-----	19.98	26.73	13.49
Total expenses per acre- - - - -	-----	8.39	7.73	9.31
Net receipts per acre- - - - -	-----	11.59	19.10	4.18
Value of land per acre - - - - -	-----	105	115	100
Total investment per acre- - - - -	-----	139	151	134
Acres in Corn- - - - -	-----	59.0	57.7	53.1
Oats- - - - -	-----	17.0	17.4	18.3
Wheat - - - - -	-----	35.9	32.0	32.5
Soybeans- - - - -	-----	64.1	117.0	34.5
Hay - - - - -	-----	20.7	22.5	18.8
Tillable pasture- - - - -	-----	31.7	35.0	35.3
Crop yields--Corn, bu. per acre- - -	-----	21.5	27.5	17.5
Oats, bu. per acre- - -	-----	11.3	11.1	13.0
Wheat, bu. per acre - - -	-----	26.2	30.4	23.2
Soybeans, bu. per acre- - -	-----	26.2	31.3	21
Value of feed fed to productive L.S.	-----	1 313	1 548	1 047
Returns per \$100 of feed fed to productive livestock- - - - -	-----	126	131	123
Returns per \$100 invested in:	-----			
Cattle- - - - -	-----	106	100	89
Foultry- - - - -	-----	104	160	162
Pigs weaned per litter - - - - -	-----	8.1	6.1	6.2
Income per litter farrowed - - - - -	-----	20	27	23
Dairy sales per dairy cow- - - - -	-----	44	34	37
Investment in productive L.S. per A.	-----	3.73	5.30	3.67
Receipts from productive L.S. per A.	-----	7.05	6.88	5.97
Man labor cost per crop acre - - - - -	-----	4.58	3.45	5.65
Machinery cost per crop acre - - - - -	-----	2.19	2.21	2.63
Power and mach. cost per crop A. - - -	-----	2.99	2.77	3.76
Farms with tractor - - - - -	-----	77%	100%	75%
Value of feed fed to horses- - - - -	-----	175	175	172
Man labor cost per \$100 gross income- - - - -	-----	18	11	32
Expenses per \$100 gross income - - - - -	-----	42	30	69
Farm improvements cost per acre- - - - -	-----	.54	.54	.64
Percent of sales over cash expenses - - - - -	-----	2 764	4 71	1 143
Change in inventory- - - - -	-----	618	1 17	536
Eate earned on investment- - - - -	-----	2.366	2.614	3.136
Gross receipts per farm- - - - -	-----	4 735	7 785	2 897

Chart for Studying the Efficiency of Various Parts of Your Business,
Christian County 1934

The numbers above the lines across the middle of the page are the averages for the 36 farms included in this report for the factors named at the top of the page. By drawing a line across each column at the number measuring the efficiency of your farm in that factor, you can compare your efficiency with that of other farmers in your locality.

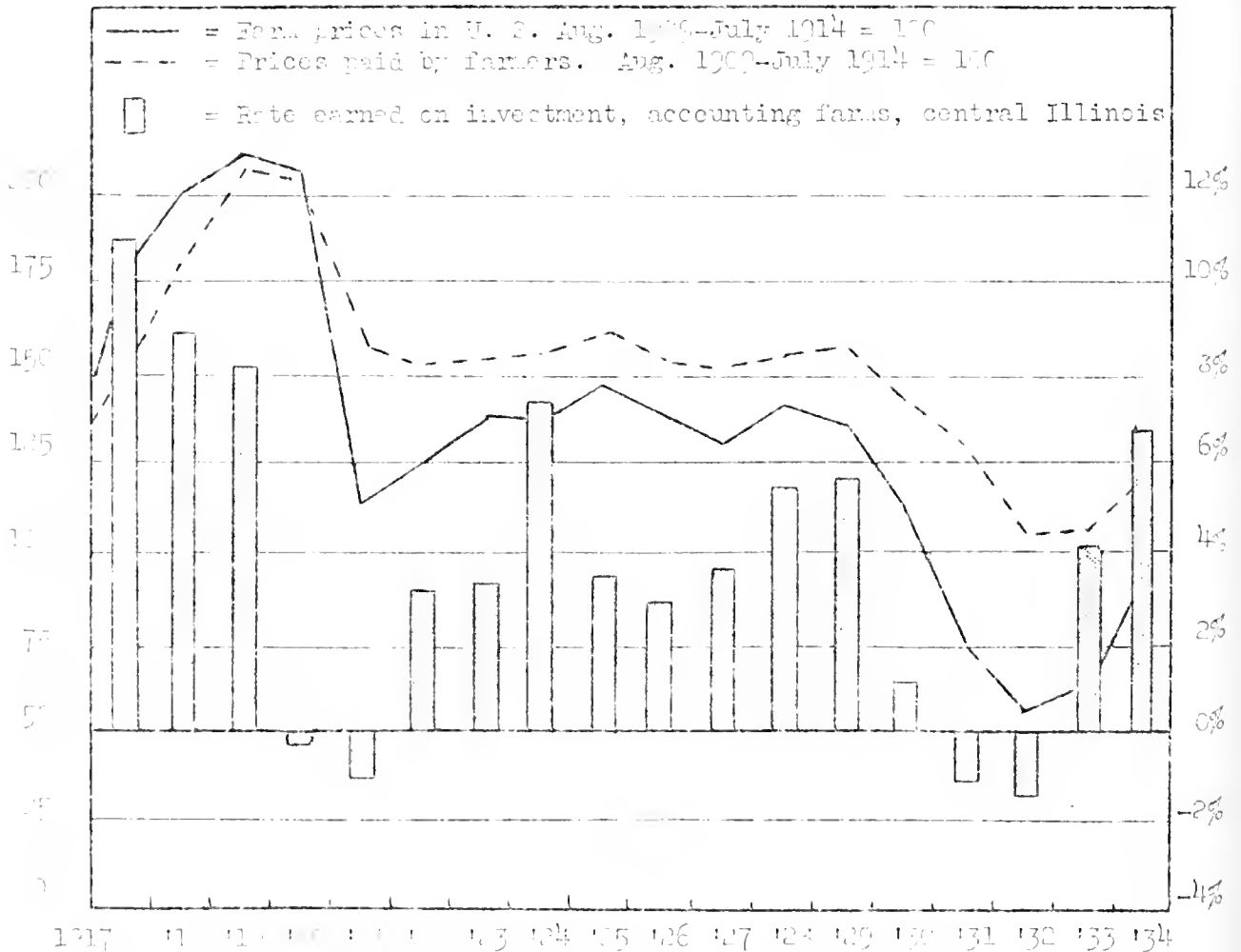
Rate earned on investment	Bushels per acre			Hogs: Income per litter	Dairy sales per dairy cow	Poultry income per \$100 invested	L.S. income per \$100 of feed fed	Cost per crop acre		Labor cost per \$100 gross receipts	Increase in inventory	Sales over cash expense	Gross receipts		Acres in farm
	Corn	Wheat	Soybeans					Labor	Power and machinery				Per acre	Per farm	
18.4	42	36	36	140	62	344	226	--	--	--	3088	7764	45	14700	487
16.4	38	34	34	130	64	314	206	--	--	--	3088	6764	40	12700	437
14.4	34	32	32	120	59	284	186	.08	--	0	2488	5764	35	10700	387
12.4	30	30	30	110	54	254	166	1.58	1.00	6	1638	4764	30	8700	337
10.4	26	28	28	100	49	224	146	3.08	2.00	12	1238	3764	25	6700	287
8.36	21.5	26.2	26.2	90	44	194	126	4.58	2.90	13	638	2764	19.98	4735	237
6.4	18	24	24	80	39	164	106	6.08	4.00	24	38	1764	15	2700	187
4.4	14	22	22	70	34	134	86	7.58	5.00	30	-512	764	10	700	137
2.4	10	20	20	60	29	104	66	9.08	6.00	36	-1112	-236	5	--	37
.4	6	18	18	50	24	74	46	10.58	7.00	42	-1712	-1236	--	--	37
--	2	16	16	40	19	44	26	12.08	8.00	48	-2512	-2276	--	--	--

Influence of Price Changes on Farm Earnings

Farm prices in 1934 advanced more rapidly than did the prices of commodities which farmers bought. Farmers of the United States as a group could exchange their farm products in 1934 for 74 percent as many goods as for the period 1909-1914, while in 1933 they received only 67 percent, and 1932 only 61 percent as much in exchange for what they had to sell as in the newer period. In the month of February, 1935, this index of purchasing power had increased to 87 percent of prewar, the index of farm prices having risen to 111 as compared with an index of 107 for commodities which farmers buy. When the line representing farm prices drops below the line representing prices paid by farmers, farm earnings are very low, but when these lines come close together farm earnings increase. (See following graph.)

Index of Prices

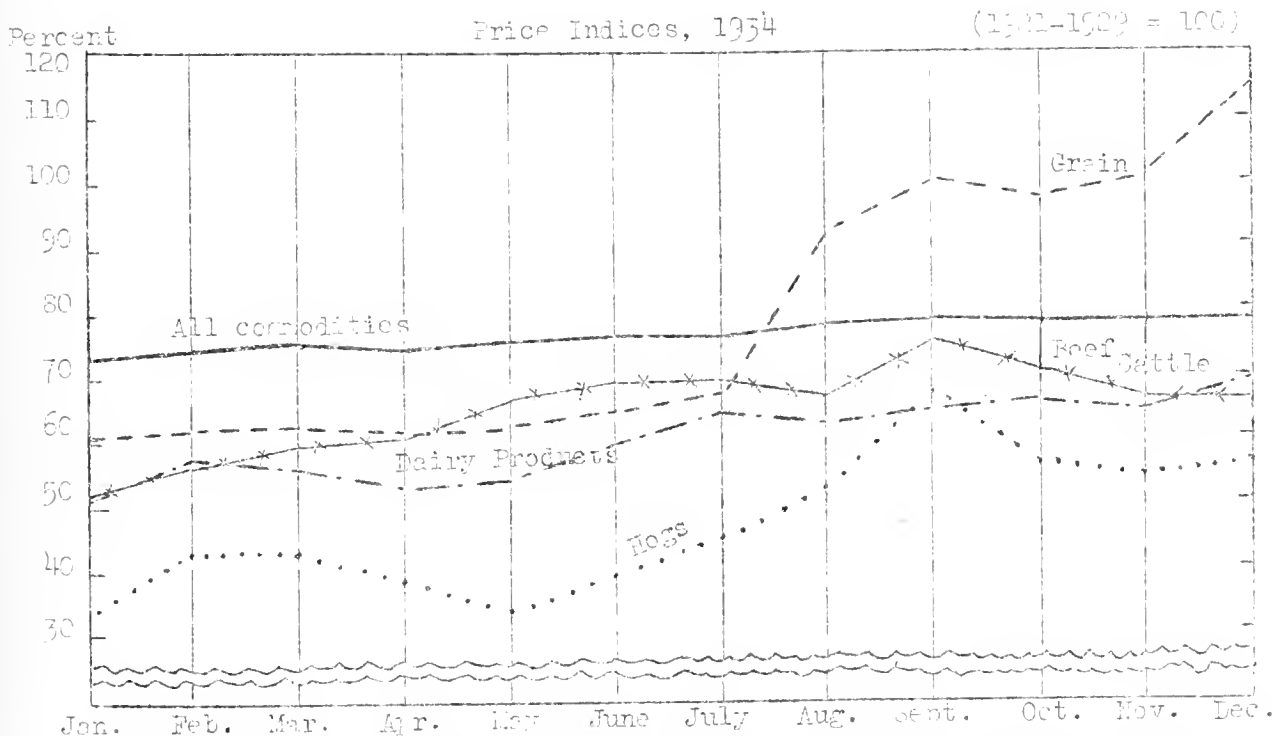
Rate Earned



Since the price of some farm products advanced much more rapidly during 1934 than other products, it is evident that some farms would benefit more than others, depending upon the kind and quantity of products sold. Grain prices advanced much more rapidly than livestock prices; which resulted in a very bad price ratio for farmers who buy large quantities of feed. The average Illinois farm price of corn was 41 cents a bushel in January, 1934; it advanced steadily until the end of the year when it was 88 cents a bushel. Other grains made marked advance although not so great an advance as corn. The price of hogs fluctuated from a low of \$5.10 a hundred in May to a high of \$6.30 in September. The low point in the fall came in November when the average price was \$7.10. The price has advanced quite rapidly since November, the average price being \$7.50 for February, 1935. Beef cattle were worth \$4.10 a hundred in January, 1934 and advanced each month until September, when the price was \$5.90. They dropped to \$5.20 in December but increased again to \$7.40 for February, 1935.

The year 1934 set a record for the reduction in the numbers of livestock. The percentage decreases by species were as follows: horses, 1.1 percent; mules, 2.6 percent; all cattle, 11.2 percent; sheep, 4.7 percent; hogs, 35.3 percent. When all species are combined on the basis of their capacity to consume feed, the reduction was 13 percent. This reduction will greatly reduce the demand for feeds produced in 1935.

The relative change in prices of important commodities may be noted in the following graph, which shows the average Illinois farm prices by months as a percentage of the average prices for the period 1931-1933.



All commodities index represents the wholesale price of a large number of commodities for the United States, as computed by Bureau of Labor Statistics. Grain and livestock indices represent average monthly farm prices in Illinois.

Variation in Earnings Over Five-Year Period

A comparison of production, income, and expenditure on the accounting farms in Christian County for the last five years is very interesting because of the violent changes in price level. 1934 was the second year of low crop yields, yet total receipts per farm were higher than in any other year in the last five. Operating costs per acre continued to be relatively low. Thus profits were the best the county had experienced since 1928.

Earnings in 1935, as usual, will depend upon individual efficiency, weather, and prices. A normal year will mean larger yields of grains and probably lower prices.

Comparison of Earnings and Investments on Accounting Farms in
Christian County for 1930-1934

Items	1930 ^{1/}	1931	1932	1933	1934
Number of farms	34	29	30	30	36
Average size of farms, acres.	252	260	272	250	237
Average rate earned, to pay for management, risk and capital	2.1%	-3.0%	.5%	4.4%	8.36%
Average labor and management wage	\$-530	\$-2 807	\$-1 060	\$313	\$1 628
Gross income per acre	15.24	4.97	6.63	13.43	19.98
Operating cost per acre	11.65	9.90	8.03	7.64	3.39
Average value of land per acre.	133	127	99	101	105
Total investment per acre	174	163	130	132	139
Investment per farm in:					
Total livestock.	2 436	1 932	1 501	1 389	1 106
Cattle	1 143	781	627	555	394
Hogs	523	565	358	355	291
Poultry.	128	85	85	79	63
Gross income per farm	3 844	1 291	2 346	3 355	4 735
Income per farm from:					
Crops.	1 615	---	934	1 252	2 949
Miscellaneous income	83	94	85	56	4
Total livestock.	2 146	1 197	1 327	1 447	1 694
Cattle	162	89	205	228	237
Dairy sales.	358	243	311	205	240
Hogs	1 476	761	715	698	1 013
Poultry.	147	98	83	98	65
Average yield of corn in bu.	32	28	59	30	22
Average yield of wheat in bu.	22	30	27	23	11
Average yield of soybeans in bu.	21	18	29	21	26

^{1/} Records from Moultrie County included for 1930.

ANNUAL FARM BUSINESS REPORT ON THIRTY-ONE FARMS
IN SHELBY AND MOULTRIE COUNTIES, ILLINOIS, 1934

P. E. Johnston, A. L. Leonard, and E. L. Sauer*

The farm earnings of 31 account-keeping farmers in Shelby and Moultrie Counties showed an increase in 1934 over those of 1933. This is the second consecutive year of improvement in the business of these farms. The three years previous to 1933 showed very low returns.

These 31 accounts show for 1934 an average net income of \$3,007 per farm, as compared with an average of \$1,343 in 1933, and an average net loss of \$445 in 1932. The average cash income in 1934 was \$4,398 per farm, the cash business expenditures \$2,332 per farm, leaving a cash balance of \$2,066 to meet interest payments and family living expenses. (Those who keep home account books use the latter figure to represent the cash contribution of the farm to the "realized family income".) Besides the cash income, there was an inventory increase of \$1,686 per farm due to the rise in the prices of farm products. This increase, added to the cash balance, resulted in an average excess of receipts over expenses of \$3,752 per farm. The inventory increase was a much larger part of the total farm income in 1934 than in 1933.

These data must not be considered representative of average farm conditions, for they were secured from farms which are larger than average and which were managed by farmers who are more efficient than the average of all farmers in the county.

For the state as a whole, farm earnings were better in 1934 than in 1933 in spite of the fact that corn and oat yields were very low, due to the drouth and to chinch bug damage. In the western and southwestern parts of the state the drouth caused an almost total failure of both corn and oats. This accounts for farm earnings being lower there than in other parts of the state.

The corn crop was best in the southeastern part of the state, and was fair in the northwestern section. Wheat yields were particularly good in the south and central portions of the state. Soybean yields were very good throughout the state, and there was a larger than normal acreage in Illinois in 1934. This state produced over half of the nation's 1934 crop of soybeans.

Chinch bug damage extended over most of the state last year, but was much more severe in some sections than in others, and was much worse on some farms than on other farms in the same community. Conditions affecting crop yields were very spotted. This accounts in part for the wide variation in farm earnings from one section of the state to another, and the wider variations than usual from one farm to another.

*W. S. Batson and J. L. Stormont, farm advisers in Shelby and Moultrie Counties, cooperated in supervising and collecting the records on which this report is based.

Industries other than agriculture again showed improved earnings over the previous year. A group of 840 industrial corporations reported by a nationally known bank showed average earnings of 5.0 percent on their invested capital in 1934, as compared with 3.4 percent for the same corporations in 1933. A similar group had a loss of one-tenth of one percent in 1932, and average earnings of 3.3 percent in 1931.

In comparing the average earnings of corporations with the rate earned on investment on accounting farms, it is well to keep in mind that in corporation accounting, charges are made for management, while in the farm accounts no comparable deduction has been made. On the other hand the farmer and his family receive food, fuel, and other items of living from the farm for which the farm has received no credit in the records used in this report. For the average central Illinois farm family, consisting of five persons, the value of the food and fuel furnished by the farm was about \$250 in 1934, when estimated on the basis of the wholesale price for farm products.

Variations in Farm Incomes

There was a much wider range in farm earnings on the accounting farms in 1934 than in 1933. This was true for the farms included in this report, and was also true when the average earnings of farms in one section of the state are compared with the earnings of farms in other areas.

The extremely wide range in earnings was due to a combination of physical and economic factors. The average yields of wheat and soybeans were much better, compared with the five-year average, than the average yields of corn and oats. This variation favored those sections which had larger acreages of the higher yielding crops in 1934. There was also a wide range in average corn yields from one section of the state to another, as well as between individual farms in the same area. The price of grains was high in 1934, as compared with prices of livestock and livestock products. Farms where grain sales constitute a large part of the farm income thus had an advantage. The rapid increase in the prices of farm products, particularly grains, favored those farms which had large stocks of salable products on hand at the beginning of the year. Many farmers who inventoried the corn on hand at the beginning of 1934 at 40 cents a bushel, later sold this corn for 80 cents.

In this group of 31 accounting farms the most successful third shows an average net income of \$4,452, while the average net income of the least successful third of the farms was only \$2,187. In 1933 the comparable net incomes for the two groups was \$2,390, and \$486, respectively.

The average accounting farm in Shelby and Moultrie Counties had 64.5 acres of corn, 42.3 acres of soybeans and 20.0 acres of wheat. They had an average yield per acre of 30.4 bushels of corn, 27.1 bushels of soybeans and 22.1 bushels of wheat. A combination of the above crop production and high grain prices was one of the major factors in bringing about the exceptionally high returns on these farms. Much of the variation in earnings between the most profitable and the least profitable farms was due to the differences in acreage and yields of crops, particularly soybeans and wheat.

-5-
Investments, Receipts, Expenses and Earnings on 31
Shelby and Moultrie County Farms in 1934

Items	Your farm	Average of 31 farms	10 most profitable farms	10 least profitable farms
CAPITAL INVESTMENTS				
Land - - - - -		23 753	22 736	26 460
Farm improvements- - - - -		3 293	3 557	3 467
Livestock total- - - - -		<u>1 554</u>	<u>1 647</u>	<u>1 944</u>
Horses - - - - -		375	373	478
Cattle - - - - -		817	820	1 049
Hogs - - - - -		218	214	275
Sheep- - - - -		62	82	34
Poultry- - - - -		32	98	108
Machinery and equipment- - - - -		1 265	1 107	1 469
Feed and grains- - - - -		1 922	2 373	1 875
Total capital investment	\$	\$31 787	\$31 420	\$35 224
RECEIPTS AND NET INCREASES				
Livestock total- - - - -		<u>1 888</u>	<u>2 023</u>	<u>1 904</u>
Horses - - - - -		29	40	18
Cattle - - - - -		301	453	285
Hogs (including AAA payments)-		804	871	746
Sheep- - - - -		76	42	66
Poultry- - - - -		72	106	65
Egg sales- - - - -		127	203	127
Dairy sales- - - - -		479	373	597
Feed and grains (including AAA payments) - - - - -		3 086	4 324	2 371
Labor off farm - - - - -		95	80	125
Miscellaneous receipts - - - - -		---	---	---
Total receipts & net increases	\$	\$ 5 069	\$ 6 492	\$ 4 400
EXPENSES AND NET DECREASES				
Farm improvements- - - - -		217	266	192
Horses - - - - -		---	---	---
Miscellaneous livestock decreases		---	---	---
Machinery and equipment- - - - -		335	325	366
Feed and grains- - - - -		---	---	---
Livestock expense- - - - -		23	34	26
Crop expense - - - - -		194	220	171
Hired labor- - - - -		248	262	287
Taxes- - - - -		264	265	290
Miscellaneous expenses - - - - -		30	23	30
Total expenses & net decreases	\$	\$ 1 317	\$ 1 395	\$ 1 362
RECEIPTS LESS EXPENSES- - - - -	\$	<u>\$ 3 752</u>	<u>\$ 5 097</u>	<u>\$ 3 038</u>
Total unpaid labor- - - - -		745	645	851
Operator's labor - - - - -		552	522	533
Family labor - - - - -		213	123	318
Net income from investment and management- - - - -		3 007	4 452	2 187
RATE EARNED ON INVESTMENT - - - - -	%	<u>9.5%</u>	<u>14.2%</u>	<u>6.2%</u>
Return to capital and operator's labor and management- - - - -		3 539	4 874	2 720
% of capital invested- - - - -		1 589	1 571	1 761
LABOR AND MANAGEMENT WAGE - - - - -	\$	<u>\$ 1 950</u>	<u>\$ 3 403</u>	<u>\$ 959</u>

The following table shows the number of farms having certain net incomes per acre. There was a marked difference between the most successful and the least successful farms.

<u>Average net income per acre</u>	<u>Number of farms</u>	<u>Average net income per acre</u>	<u>Number of farms</u>
\$23.	1	\$11.	4
21.	2	9.	7
19.	1	7.	8
17.	2	5.	2
15.	1	3.	0
13.	2	1.	1

A further study of the farm businesses made by comparing the investments, receipts, and expenses of the group of farms having the highest net incomes, with those having the lowest, should throw some light on the question of why some farmers are more successful than others. This comparison is shown in the table on page 3.

The most successful farms average 307 acres each, the least successful 275 acres. This difference in size accounts in part for the variation in the average receipts, and expenses in the two groups. Difference in receipts and net increases from grains accounts for most of the difference in income between the two groups. Although the expenses per farm were higher on the most profitable farms, the total expense per acre, including the charge for family labor, was less than it was on the least profitable farms.

Changes in Inventories and Inventory Values

The year 1934 was similar to 1933 in that the prices of farm products continued to advance, causing further increases in inventory values. Owing to the poor crop yields in 1934, there were fewer bushels of grain on hand to inventory at the end of the year than at the beginning. The value of the smaller amount of grain, however, was greater than for the larger amount on hand at the beginning of the year.

Bushels of Corn Inventoried

	Jan. 1, 1934	Dec. 31, 1934
Average of all farms.	2 471	2 156
Average of 10 most successful farms . . .	2 864	3 214
Average of 10 least successful farms. . .	2 489	1 764
Four farms		

The most profitable farms had a much larger inventory of corn both at the beginning and end of the year than the least profitable farms. This is a major factor in accounting for their higher returns from feed and grains.

The average inventory increase for the accounting farms in Shelby and Moultrie Counties was \$1,686 in 1934, as compared with \$462 in 1933, and an inventory loss of \$1,134 a farm in 1932. There were increases of \$303 in total livestock, \$1,248 in feed and grain, and \$176 in machinery, while improvements showed a decrease of \$41. Such an increase in inventory as that for machinery results from the value of new replacements during the year being in excess of depreciation costs. This increase is of considerable interest, for it is the first time that such an increase in machinery inventories has occurred since farm earnings began to decline so drastically with the general depression.

Inventory Changes for 1934

Items	Beginning inventory 1-1-34	Closing inventory 12-31-34	Inventory changes 1934	Inventory changes, your farm
Total livestock.	\$1 554	\$1 857	\$ 303	\$
Feed and grains.	1 922	3 170	1 248	
Machinery.	1 265	1 441	176	
Improvements (except residence).	<u>3 293</u>	<u>3 252</u>	<u>-41</u>	
Total.	\$8 034	\$9 720	\$1 686	\$

Some Adjustments on Shelby and Moultrie County Farms Since 1929

Farmers have been forced to make adjustments in their cash expenditures as the result of changes in their cash incomes. From 1929 through 1933 farm operating costs declined each year, but the year 1934 brought a reversal of this trend. Total operating expenses were 25 cents an acre higher in 1934 than in 1933, while cash operating expenses were \$2,332 a farm in 1934, as compared with \$1,908 in 1933. The largest increase in expenditures over the previous year was for machinery and supplies for machinery. Indications point to an even greater expansion of spending for these items in 1935, since farmers have postponed machinery replacements during the four-year period since 1929.

Cash Income and Expenses on Accounting Farms in Shelby and Moultrie Counties for 1929 and 1934

Items	Your farm 1934	Average cash expense per farm		Your farm 1934	Average cash income per farm	
		1934	1929		1934	1929
Livestock	\$	\$ 415	\$ 752	\$	\$2 000	\$3 656
Feed and grains		301	761		2 139	1 967
Machinery		675	753		164	165
Improvements.		176	259		---	---
Labor		248	365		95	75
Miscellaneous		30	28		---	14
Livestock expense		29	47		---	---
Crop expense.		194	275		---	---
Taxes		<u>264</u>	<u>347</u>		---	---
Total	\$	\$2 332	\$3 585	\$	\$4 393	\$5 875
Excess of cash sales over expenses.				\$	\$2 066	\$2 230
Increase in inventory					1 686	292
Income to labor and capital (Receipts less expenses).					3 752	2 532

The cumulative effect of several years of low agricultural prices on the demand for manufactured goods can readily be ascertained by a comparison of cash farm expenditures in 1934 with those in 1929. Although the average cash income in 1934 was 75 percent of that in 1929, cash expenditures were only 65 percent as large. In 1934 livestock purchases were 55 percent, and feed and grain purchases 40 percent as large as in 1929. In 1934 these farms paid out 90 percent as much for machinery, and 71 percent as much for crop expense as in 1929, while taxes were reduced to 76 percent of the 1929 level.

Comparison of Farms With High and Low Earnings

The most profitable farms in this study had net receipts per acre of \$14.48, as compared with \$7.95 for the least profitable group. The reasons for this difference may be obtained from a study of the data on pages 3 and 8.

The most profitable farms averaged 32 acres larger and had 10 more crop acres than the least profitable farms. They had a significantly larger acreage of wheat and soybeans, the high yielding crops in 1934. They carried larger inventories of feed and grain on which to make a profit when prices advanced. One reason for the larger inventories was the higher crop yields, there being an advantage of 14.6 bushels of corn, 15.9 bushels of wheat and 3.2 bushels of soybeans in favor of the high-profit group.

Although the most profitable farms had an investment in productive livestock of \$4.40 per acre, as compared to \$5.96 on the least profitable farms, they fed \$1,726 worth of feed per farm in contrast to \$1,278 of feed per farm on the least profitable farms. The livestock on the least profitable farms returned \$148 for each \$100 feed fed, as compared to returns of \$119 per \$100 feed fed on the most profitable farms. One reason for the higher returns per \$100 of feed fed on the least profitable farms was that the major part of their cattle returns was from dairy sales, while the major part of the cattle income on the most profitable farms was from beef sales. Dairy cattle can make very economical use of pasture, the value of which is not included in the above feed costs. The most profitable farms were more efficient with their hog enterprise, having an income of \$119 per litter farrowed as contrasted to \$89 on the least profitable farms.

The most profitable farms secured their larger income with a total operating cost per acre of \$6.64, as compared with \$8.05 on the least profitable farms. Man labor costs were \$1.24 per crop acre lower, while power and machinery costs were 36 cents per crop acre lower for the most profitable farms.

Influence of AAA Programs on Cropping Systems and Farm Incomes

The farm-account records in Illinois were influenced both directly and indirectly by the corn-hog and wheat adjustment programs. A larger percentage of accounting farms were under one or both contracts in 1934. The acreages of corn and wheat on these farms were therefore less than normal. This should have resulted in lower operating costs. Corn-hog benefit payments for the entire 1934 program will total about 40 million dollars for the state, while wheat benefit payments will be about 2.4 million dollars.

The benefit payments for accounting farms were indicated in the following table, which shows the average payment for those farms receiving payments, and includes only those payments received by the cooperator before the 1934 books were closed. In some cases only the first corn-hog check is included, while in other cases the second check had been received. The second payments not received and the third payments will be entered in the 1935 book.

AAA Benefit Payments Received in 1934

	Corn		Wheat		Hogs		Average of all payments ^{1/}
	Number of farms	Amount per farm	Number of farms	Amount per farm	Number of farms	Amount per farm	
1/3 most profitable farms	10	\$152	5	\$70	10	\$132	\$318
1/3 least profitable farms	10	128	3	98	10	140	297
All accounting farms	31	139	11	95	30	140	308

^{1/} Total benefit payments reported by accounting farms under contract for 1934 divided by total number of accounting farms.

On many farms the cash received from benefit payments will more than pay the year's taxes. As an average of all accounting farms, the payments actually received (\$308) were more than sufficient to pay all of the 1934 taxes, (\$264).

It is interesting to note the use made of the contracted acres on the accounting farms. The average farm had 24.6 contracted acres which were used as follows: 8.7 idle; 7.6 red clover; 2.5 sweet clover; 2.8 soybeans; .9 alfalfa; and 2.1 acres were in other crops. These data indicate that most farmers made good use of their contracted acres from the standpoint of soil improvement, as a large part of them were in legumes. When the government restrictions on the use of crops grown on contracted acres were removed, they were on many farms the most profitable crops as they furnished hay and pasture where badly needed in drouth areas. The legumes had the further advantage of being immune to attack from chinch bugs.

Farm earnings were influenced indirectly by the AAA programs, in that the reduction in production increased the price of the commodities involved. The drouth was a more important factor in reducing production than the adjustment programs, yet if it had not been for the corn-sealing program there would have been but little corn in the hands of farmers at the time the major price advance became effective.

Factors Helping to Analyze the Farm Business on 31
Shelby and Moultrie County Farms in 1934

Items	Your farm	Average of 31 farms	10 most profitable farms	10 least profitable farms
Size of farms--acres - - - - -	_____	271.3	307.4	275.0
Percent of land area tillable- - -	_____	89.0	86.0	92.9
Percent of tillable land in hay and pasture - - - - -	_____	33.6	29.7	32.8
Gross receipts per acre- - - - -	_____	13.68	21.12	16.00
Total expenses per acre- - - - -	_____	7.60	6.64	8.05
Net receipts per acre- - - - -	_____	11.08	14.48	7.95
Value of land per acre - - - - -	_____	88	74	96
Total investment per acre- - - - -	_____	117	102	128
Acres in Corn- - - - -	_____	64.5	69.5	75.3
Oats- - - - -	_____	20.7	18.6	22.9
Wheat - - - - -	_____	20.0	26.7	13.9
Soybeans- - - - -	_____	42.3	53.5	46.0
Hay - - - - -	_____	27.7	23.7	27.9
Tillable pasture- - - - -	_____	53.4	54.8	55.9
Crop yields--Corn, bu. per acre- -	_____	30.4	38.4	23.8
Oats, bu. per acre- -	_____	10.9	10.2	11.3
Wheat, bu. per acre -	_____	22.1	28.1	12.2
Soybeans, bu. per acre	_____	27.1	28.5	25.3
Value of feed fed to productive L.S.	_____	1 420	1 726	1 278
Returns per \$100 of feed fed to productive livestock- - - - -	_____	131	119	148
Returns per \$100 invested in:				
Cattle- - - - -	_____	86	50	74
Poultry - - - - -	_____	237	312	176
Pigs weaned per litter - - - - -	_____	6.0	7.6	5.3
Income per litter farrowed - - - -	_____	93	119	89
Dairy sales per dairy cow- - - - -	_____	51	62	47
Investment in productive L.S. per A.	_____	4.92	4.40	5.96
Receipts from productive L.S. per A.	_____	6.35	6.66	6.86
Man labor cost per crop acre - - -	_____	5.00	4.11	5.35
Machinery cost per crop acre - - -	_____	1.78	1.55	1.83
Power and mach. cost per crop A. -	_____	2.60	2.38	2.74
Farms with tractor - - - - -	_____	87%	90%	80%
Value of feed fed to horses- - - - -	_____	183	214	200
Man labor cost per \$100 gross income- - - - -	_____	19	13	24
Expenses per \$100 gross income - -	_____	41	31	50
Farm improvements cost per acre- -	_____	.80	.87	.70
Excess of sales over cash expenses	_____	2 065	2 609	1 919
Increase in inventory- - - - -	_____	1 626	2 422	1 119
Rate earned on investment- - - - -	_____	9.5%	11.2%	6.2%
Gross receipts per farm- - - - -	_____	5 069	6 402	4 400

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Chart for Studying the Efficiency of Various Parts of Your Business,
Shelby and Moultrie Counties, 1934

The numbers above the lines across the middle of the page are the averages for the 51 farms included in this report for the factors named at the top of the page. By drawing a line across each column at the number measuring the efficiency of your farm in that factor, you can compare your efficiency with that of other farmers in your locality.

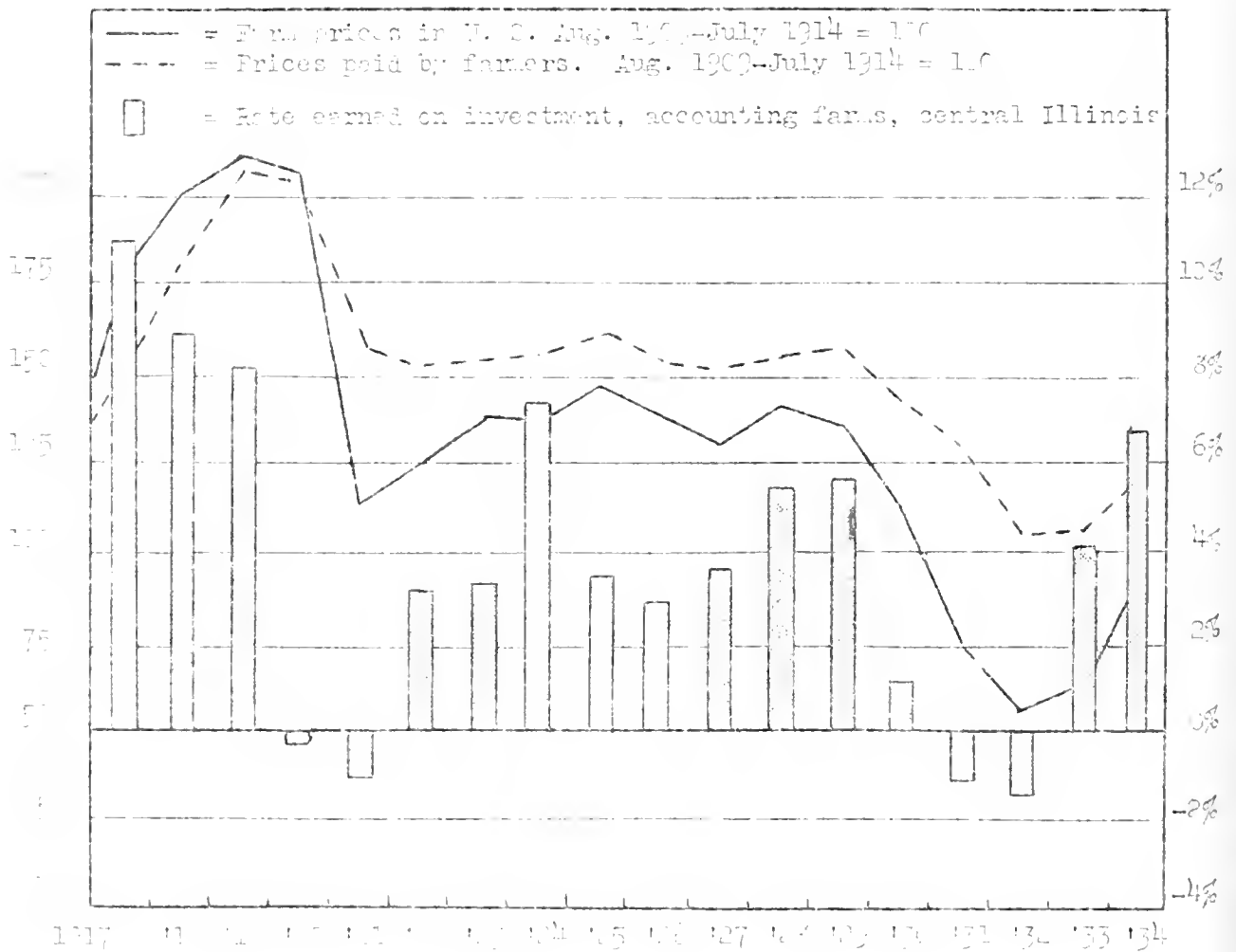
Rate earned on investment	Bushels per acre			Hogs: Income per litter	Dairy sales per dairy cow	Poultry income per \$100 invested	L.S. income per \$100 of feed fed	Cost per crop acre		Labor cost per \$100 gross receipts	Increase in inventory	Sales over cash expenses	Gross receipts		Acres in farm
	Corn	Oats	Soybeans					Labor	Power and machinery				Per acre	Per farm	
19.5	55	21	37	128	75	437	180	2.50	--	--	4200	4500	34	10100	520
17.5	50	19	35	121	70	387	170	3.00	.20	3	3700	4000	31	9100	470
15.5	45	17	33	114	65	357	160	3.50	.80	7	3200	3500	28	8100	420
13.5	40	15	31	107	60	317	150	4.00	1.40	11	2700	3000	25	7100	370
11.5	35	13	29	100	55	277	140	4.50	2.00	15	2200	2500	22	6100	320
9.5	30.4	10.9	27.1	93	51	237	131	5.00	2.60	19	1686	2066	18.68	5069	271
7.5	25	9	25	86	45	197	120	5.50	3.20	23	1200	1500	16	4100	220
5.5	20	7	23	79	40	157	110	6.00	3.80	27	700	1000	13	3100	170
3.5	15	5	21	72	35	117	100	6.50	4.40	31	200	500	10	2100	120
1.5	10	3	19	65	30	77	90	7.00	5.00	35	-300		7	1100	70
-.5	5	1	17	58	25	37	80	7.50	5.60	39	-800	--	4	0	20

Influence of Price Changes on Farm Earnings

Farm prices in 1934 advanced more rapidly than did the prices of commodities which farmers bought. Farmers of the United States as a group could exchange their farm products in 1934 for 74 percent as many goods as for the period 1909-1914, while in 1933 they received only 64 percent, and 1932 only 61 percent as much in exchange for what they had to sell as in the former period. In the month of February, 1935, this index of purchasing power had increased to 87 percent of former, the index of farm prices having risen to 111 as compared with an index of 1.7 for commodities which farmers buy. When the line representing farm prices drops below the line representing prices paid by farmers, farm earnings are very low, but when these lines come close together farm earnings increase. (See following graph.)

Index of Prices

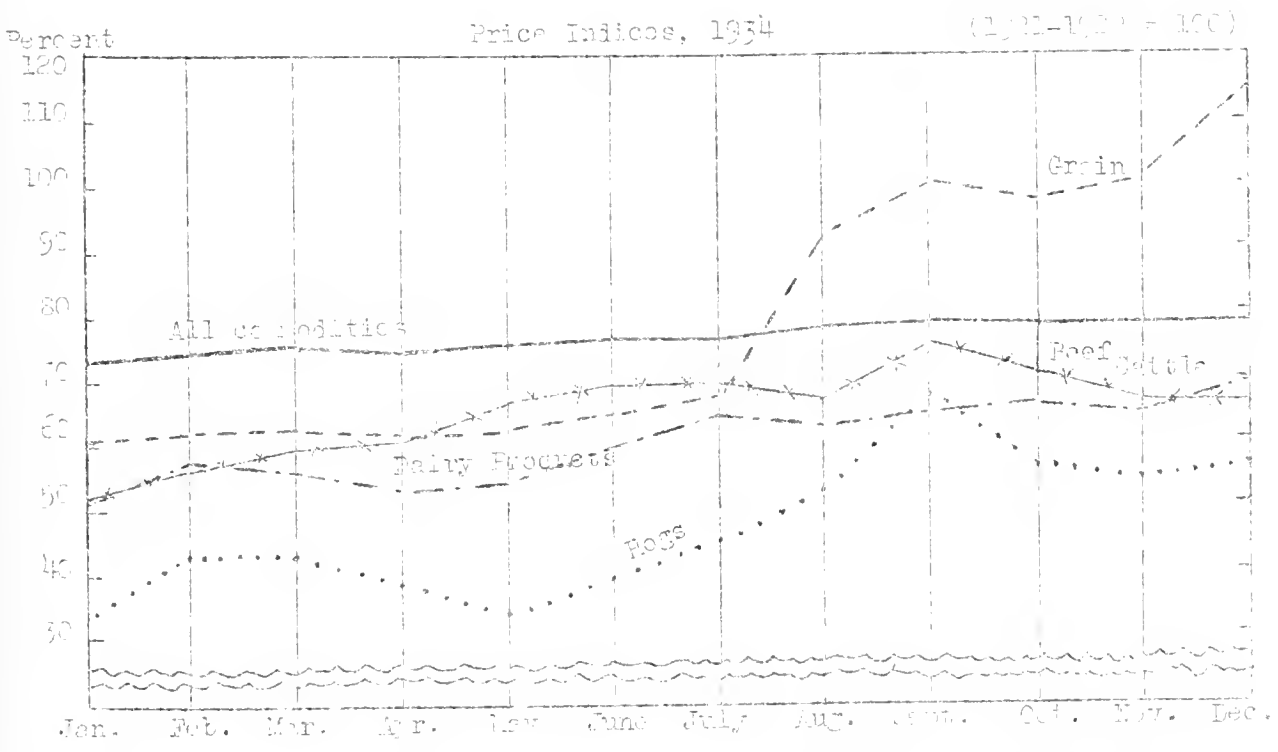
Rate Earned



Since the price of some farm products advanced much more rapidly during 1934 than other products, it is evident that some farms would benefit more than others, depending upon the kind and quantity of products sold. Grain prices advanced much more rapidly than livestock prices; which resulted in a very bad price ratio for farmers who buy large quantities of feed. The average Illinois farm price of corn was 41 cents a bushel in January, 1934; it advanced steadily until the end of the year when it was 49 cents a bushel. Other grains made marked advance although not so great an advance as corn. The price of hogs fluctuated from a low of \$5.80 a hundred in May to a high of \$6.30 in September. The low point in the fall came in November when the average price was \$5.10. The price has advanced quite rapidly since November, the average price being \$7.50 for February, 1935. Beef cattle were worth \$4.10 a hundred in January, 1934 and advanced each month until September, when the price was \$5.90. They dropped to \$5.00 in December but increased again to \$7.40 for February, 1935.

The year 1934 set a record for the reduction in the numbers of livestock. The percentage decreases by species were as follows: horses, 1.7 percent; mules, 2.6 percent; all cattle, 11.2 percent; sheep, 4.7 percent; hogs, 35.3 percent. When all species are combined on the basis of their capacity to consume feed, the reduction was 14 percent. This reduction will greatly reduce the demand for feeds produced in 1935.

The relative change in prices of important commodities may be noted in the following graph, which shows the average Illinois farm prices by months as a percentage of the average prices for the period 1911-1933.



All commodities index represents the wholesale price of a large number of commodities for the United States, as computed by Bureau of Labor Statistics. Grain and livestock indices represent average monthly farm prices in Illinois.

Variation in Earnings Over Five-Year Period

A comparison of production, income, and expenditures on the accounting farms in Shelby and Moultrie Counties for the last five years is very interesting because of the violent changes in price level. 1934 was the second year of very low crop yields, yet total receipts per farm were higher than in any other year in the last five. Operating costs per acre were lower than in any year of the five except 1933. Profits were the best the county had experienced since 1928.

Earnings in 1935 as usual will depend upon individual efficiency, weather and prices. A normal year will mean larger yields of grain and probably lower prices.

Comparison of Earnings and Investments on Accounting Farms in
Shelby and Moultrie Counties for 1930-1934

Items	1930 ^{1/}	1931 ^{2/}	1932 ^{3/}	1933 ^{4/}	1934
Number of farms - - - - -	61	38	34	30	31
Average size of farms, acres - - - -	230	247	282	269	271
Average rate earned, to pay for management, risk and capital - - -	2.3%	-1.5%	-1.0%	3.6%	9.5%
Average labor and management wage -	\$-643	\$-2 304	\$-2 238	\$ -4	\$1 950
Gross income per acre - - - - -	17.13	6.80	6.41	12.34	18.68
Operating cost per acre - - - - -	12.39	9.52	7.99	7.35	7.60
Average value of land per acre - - -	153	140	123	110	88
Total investment per acre - - - - -	210	130	165	138	117
Investment per farm in:					
Total livestock- - - - -	2 868	2 129	2 302	1 659	1 554
Cattle - - - - -	1 428	1 004	1 313	906	817
Hogs - - - - -	702	536	408	310	213
Poultry- - - - -	142	88	97	65	82
Gross income per farm - - - - -	3 947	1 680	1 809	3 320	5 069
Income per farm from:					
Crops- - - - -	1 321	191	192	1 336	3 026
Miscellaneous income - - - - -	58	73	43	66	---
Total livestock- - - - -	2 668	1 416	1 569	1 418	1 888
Cattle - - - - -	464	106	574	253	301
Dairy sales- - - - -	461	373	249	312	479
Hogs - - - - -	1 526	200	619	716	804
Poultry- - - - -	197	133	119	94	72
Average yield of corn in bu. - - - -	37	42	53	25	30
Average yield of oats in bu. - - - -	40	48	45	17	11

^{1/} Records from Coles, Vermilion, Edgar, and Douglas counties for 1930.

^{2/} Records from Coles, Douglas, and Moultrie counties for 1931.

^{3/} Records from Edgar, Douglas, Coles, and Moultrie counties for 1932.

^{4/} Records from Shelby, Douglas, Coles, and Moultrie counties for 1933.

ANNUAL FARM BUSINESS REPORT ON FIFTY-SEVEN FARMS
IN EDGAR, DOUGLAS, CLARK, AND COLES COUNTIES, ILLINOIS, 1934

P. E. Johnston, A. L. Leonard, and R. C. Ross*

The farm earnings of 57 account-keeping farmers in Edgar, Douglas, Clark, and Coles Counties showed an increase in 1934 over those of 1933. This is the second consecutive year of improvement in the business of these farms. The three years previous to 1933 showed very low returns.

These 57 accounts show for 1934 an average net income of \$2,816 per farm, as compared with an average of \$1,343 in 1933, and an average net loss of \$445 in 1932. The average cash income in 1934 was \$5,096 per farm, the cash business expenditures \$2,557 per farm, leaving a cash balance of \$2,539 to meet interest payments and family living expenses. (Those who keep home account books use the latter figure to represent the cash contribution of the farm to the "realized family income".) Besides the cash income, there was an inventory increase of \$911 per farm due to the rise in the prices of farm products. This increase, added to the cash balance, resulted in an average excess of receipts over expenses of \$3,450 per farm.

These data must not be considered representative of average farm conditions, for they were secured from farms which are larger than average, and which were managed by farmers who are more efficient than the average of all farmers in the county.

For the state as a whole, farm earnings were better in 1934 than in 1933, in spite of the fact that corn and oat yields were very low due to the drouth and to chinch bug damage. In the western and southwestern parts of the state the drouth caused an almost total failure of both corn and oats, which accounts for farm earnings being lower there than in other parts of the state.

The corn crop was best in the southeastern part of the state, and was fair in the northwestern section. Wheat yields were particularly good in the south and central portions of the state. Soybean yields were very good throughout the state, and there was a larger than normal acreage in Illinois in 1934. This state produced over half of the nation's 1934 crop of soybeans.

Chinch bug damage extended over most of the state last year, but was much more severe in some sections than in others, and was much worse on some farms than on other farms in the same community. Conditions affecting crop yields were very spotted. This accounts in part for the wide variation in farm earnings from one section of the state to another, and the wider variations than usual from one farm to another.

* H. D. Van Matre, Ward C. Cannon, R. E. Apple, and E. W. Rusik, farm advisers in Edgar, Douglas, Clark, and Coles counties, cooperated in supervising and collecting the records on which this report is based.

Industries other than agriculture again showed improved earnings over the previous year. A group of 240 industrial corporations reported by a nationally known bank showed average earnings of 6.0 percent on their invested capital in 1934, as compared with 3.4 percent for the same corporations in 1933. A similar group had a loss of one-tenth of one percent in 1932, and average earnings of 3.3 percent in 1931.

In comparing the average earnings of corporations with the rate earned on investment on accounting farms, it is well to keep in mind that in corporation accounting, charges are made for management, while in the farm accounts no comparable deduction has been made. On the other hand the farmer and his family receive food, fuel, and other items of living from the farm for which the farm has received no credit in the records used in this report. For the average central Illinois farm family, consisting of five persons, the value of the food and fuel furnished by the farm was about \$250 in 1934, when estimated on the basis of the wholesale price for farm products.

Variations in Farm Incomes

There was a much wider range in farm earnings on the accounting farms in 1934 than in 1933. This was true for the farms included in this report, and it was also true when the average earnings of farms in one section of the state are compared with the earnings of farms in other areas.

The extremely wide range in earnings was due to a combination of physical and economic factors. The average yields of wheat and soybeans were much better, compared with the five-year average, than the average yields of corn and oats. This variation favored those sections which had larger acreages of the higher yielding crops in 1934. There was also a wide range in average corn yields from one section of the state to another, as well as between individual farms in the same area. The price of grains was high in 1934, as compared with prices of livestock and livestock products. Farms where grain sales constitute a large part of the farm income thus had an advantage. The rapid increase in the prices of farm products, particularly grains, favored those farms which had large stocks of salable products on hand at the beginning of the year. Many farmers who inventoried the corn on hand at the beginning of 1934 at 40 cents a bushel, later sold this corn for 80 cents.

In this group of 57 accounting farms the most successful third shows an average net income of \$4,393, while the average net income of the least successful third of the farms was only \$1,111. In 1933 the comparable net incomes for the two groups was \$2,390 and \$426 respectively.

Investments, Receipts, Expenses and Earnings on 57
Edgar, Douglas, Clark, and Coles County Farms in 1934

Items	Your farm	Average of 57 farms	19 most profitable farms	19 least profitable farms
<u>CAPITAL INVESTMENTS</u>				
Land - - - - -		25 369	27 365	21 764
Farm improvements- - - - -		3 837	3 706	3 459
Livestock total- - - - -		<u>1 555</u>	<u>1 766</u>	<u>1 502</u>
Horses - - - - -		382	362	364
Cattle - - - - -		775	913	807
Hogs - - - - -		283	380	222
Sheep- - - - -		33	25	36
Poultry- - - - -		82	78	73
Machinery and equipment- - - - -		1 449	1 677	1 161
Feed and grains- - - - -		1 775	2 123	1 176
Total capital investment - - - - -	\$	<u>\$ 55 285</u>	<u>\$ 6 532</u>	<u>\$ 20 262</u>
<u>RECEIPTS AND NET INCREASES</u>				
Livestock total- - - - -		<u>2 258</u>	<u>3 159</u>	<u>1 557</u>
Horses - - - - -		37	27	15
Cattle - - - - -		747	1 337	435
Hogs (including AAA payments)-		956	1 429	622
Sheep- - - - -		25	16	26
Poultry- - - - -		84	94	41
Egg sales- - - - -		123	110	122
Dairy sales- - - - -		287	146	296
Feed and grains (including AAA payments) - - - - -		2 418	3 014	1 384
Labor off farm - - - - -		89	90	32
Miscellaneous receipts - - - - -		1	1	---
Total receipts & net increases	\$	<u>\$ 4 766</u>	<u>\$ 6 264</u>	<u>\$ 2 273</u>
<u>EXPENSES AND NET DECREASES</u>				
Farm improvements- - - - -		210	195	183
Horses - - - - -		---	---	---
Miscellaneous livestock decreases		---	---	---
Machinery and equipment- - - - -		303	299	304
Feed and grains- - - - -		---	---	---
Livestock expense- - - - -		33	35	45
Crop expense - - - - -		211	233	192
Hired labor- - - - -		271	261	221
Taxes- - - - -		256	244	240
Miscellaneous expenses - - - - -		32	25	27
Total expenses & net decreases	\$	<u>\$ 1 316</u>	<u>\$ 1 292</u>	<u>\$ 1 212</u>
<u>RECEIPTS LESS EXPENSES-</u> - - - - -	\$	<u>\$ 3 450</u>	<u>\$ 4 972</u>	<u>\$ 1 761</u>
Total unpaid labor- - - - -		634	579	650
Operator's labor - - - - -		476	458	465
Family labor - - - - -		158	121	185
Net income from investment and management - - - - -		2 816	4 393	1 111
<u>RATE EARNED ON INVESTMENT</u> - - - - -	\$	<u>3.3%</u>	<u>12.0%</u>	<u>3.8%</u>
Return to capital and operator's labor and management - - - - -		3 292	4 951	1 576
5% of capital invested- - - - -		1 699	1 832	1 454
<u>LABOR AND MANAGEMENT WAGE</u> - - - - -	\$	<u>\$ 1 593</u>	<u>\$ 3 019</u>	<u>\$ 122</u>

The following table shows the number of farms having certain net incomes per acre. There was a marked difference between the most successful and the least successful farms.

<u>Average net in-</u> <u>come per acre</u>	<u>Number of</u> <u>farms</u>	<u>Average net in-</u> <u>come per acre</u>	<u>Number of</u> <u>farms</u>
\$21 and over.	5	\$9	7
17	5	7	4
17	4	5	4
15	4	5	5
15	4	1	4
11	4	-1	1

A further study of the farm businesses made by comparing the investments, receipts, and expenses of the group of farms with the highest net incomes with those having the lowest incomes, should throw some light on the question of why some farmers are more successful than others. This comparison is shown in the table on page 5.

The most successful farms averaged 251 acres each, the least successful 115 acres. This difference in size accounts in part for the variation in the average investment, receipts, and expenses in the two groups. Difference in receipts from the sales of grains, cattle, and hogs accounts for most of the difference in income between the two groups. Although the expenses per farm were higher on the most profitable farms, the total expense per acre, including the charge for family labor, was less than it was on the least profitable farms.

Changes in Inventories and Inventory Values

The year 1934 was similar to 1933 in that the prices of farm products continued to advance, causing further increases in inventory values. Owing to the poor crop yields in 1934, there were fewer bushels of grain on hand to inventory at the end of the year than at the beginning. The value of the smaller amount of grain, however, was greater than for the larger amount on hand at the beginning of the year.

Bushels of Corn Inventoried

	<u>Jan. 1, 1934</u>	<u>Dec. 31, 1934</u>
Average of all farms.	2 523	1 787
Average of 10 most successful farms . .	3 211	2 474
Average of 15 least successful farms. .	1 586	1 093
Four farm		

The most profitable farms had a much lower inventory of corn both at the beginning and end of the year. This larger inventory of corn, with the rise in corn prices, was one of the important factors accounting for the difference in farm earnings.

-5-

The average inventory increase for the accounting farms included in this report was \$911 in 1934, as compared with \$462 in 1929, and an inventory loss of \$1,134 per farm in 1932. There were increases of \$134 in total livestock, \$777 in feed and grain, and \$72 in machinery, while improvements showed a decrease of \$72. Such an increase in inventory, as that for machinery, results from the value of new replacements during the year being in excess of depreciation costs. This increase is of considerable interest, for it is the first time that such an increase in machinery inventories has occurred since farm earnings began to decline so drastically with the general depression.

Inventory Changes for 1934

Items	Beginning	Closing	Inventory	Inventory
	inventory	inventory	changes	changes,
	1-1-34	12-31-34	1934	your farm
Total livestock.	\$1 355	\$1 689	\$134	\$
Feed and grains.	1 775	2 552	777	
Machinery.	1 419	1 521	72	
Improvements (except residence)	2 337	3 765	-72	
Total.	\$6 616	\$9 527	\$911	\$

Some Adjustments on Edgar, Douglas, Clark, and Coles County Farms Since 1929

Farmers have been forced to make adjustments in their cash expenditures as the result of changes in their cash incomes. From 1929 through 1933 farm operating costs declined each year, but the year 1934 brought a reversal of this trend. Total operating expenses were 53 cents an acre higher in 1934 than in 1933, while cash operating expenses were \$2,527 a farm in 1934, as compared with \$1,908 in 1933. Low crop yields necessitated the purchase of considerably more feed and grain in 1934 than in 1933. Indications point to an expansion of spending for machinery, and repairs for machinery and improvements, since farmers have postponed repairs and replacements for these items during the four-year period since 1929.

Cash Income and Expenses on Accounting Farm in Edgar, Douglas, Clark and Coles Counties, 1929 and 1934

Items	Your	Average cash		Your	Average cash	
	farm	expense per farm		farm	income per farm	
	1934	1934	1929	1934	1934	1929
Livestock	\$	\$ 411	\$ 649	\$	\$2 535	\$3 787
Feed and grains		653	504		2 294	2 383
Machinery.		552	627		177	116
Improvements.		138	212		---	---
Labor		271	508		39	35
Miscellaneous		32	38		1	9
Livestock expense		33	50		---	---
Crop expense.		211	273		---	---
Taxes		256	430		---	---
Total	\$	\$2 557	\$3 321	\$	\$5 096	\$5 340
Excess of cash sales over expenses.	\$			\$	\$2 539	\$3 119
Increase in inventory					911	-57
Income to labor and capital (Receipts less expenses).					3 450	2 961

The cumulative effect of several years of low agricultural prices on the demand for manufactured goods can readily be ascertained by a comparison of cash farm expenditures in 1934 with those in 1929. Although the average cash income in 1934 was 80 percent of that in 1929, cash expenditures were only 77 percent as large. In 1934 livestock purchases were 63 percent as large as in 1929, while feed and grain purchases, due to low crop yields, were 30 percent larger than in 1929. In 1934 these farms paid out 84 percent as much for machinery, and 77 percent as much for crop expense as in 1929, while taxes were reduced to only 60 percent of the 1929 level.

Comparison of Farms With High and Low Earnings

The most profitable farms in this study had net receipts per acre of \$17.48, as compared with \$5.29 for the least profitable group. The reasons for this difference may be obtained from a study of the data on pages 3 and 4.

The most profitable farms averaged 5.7 acres larger, and produced 12.2 more acres of corn, and 12.9 more acres of soybeans than the least profitable farms. In addition to larger acreages of crops, the most profitable farms produced 16.7 bushels more corn, 7.2 bushels more oats, 12.1 bushels more wheat, and 5 bushels more soybeans per acre than the least profitable farms. The difference in acreages, yields, and inventories was an important factor in accounting for the variation in returns from food and grains between the most profitable, and the least profitable farms.

The most profitable farms had an investment in productive livestock of \$7.16 per acre, and fed \$2,190 of feed per farm, as compared with an investment of \$5.16 per acre, and \$1,161 of feed fed per farm on the least profitable farms. The productive livestock on the most profitable farms returned \$143 for each \$100 of feed fed, as compared with a return of \$133 per \$100 of feed fed on the least profitable farms. The income per litter farrowed was \$121 on the most profitable farms, as compared with an income of \$76 per litter farrowed on the least profitable farms. The most profitable farms had returns of \$167 per \$100 invested in cattle, while on the least profitable farms cattle returned only \$97 for each \$100 invested.

The larger income on the most profitable farms was secured with a total operating cost of \$7.45 per acre, as compared with \$7.76 per acre for the least profitable farms. On the most profitable farms the man labor costs were \$1.60 per crop acre lower, and power and machinery costs were 24 cents per crop acre lower, than on the least profitable farms.

Influence of AAA Programs on Cropping Systems and Farm Incomes

The farm-account records in Illinois were influenced both directly and indirectly by the corn-hog and wheat adjustment programs. A large percentage of accounting farms were under one or both contracts in 1934. The acreages of corn and wheat on these farms were therefore less than normal. This should have resulted in lower operating costs. Corn-hog benefit payments for the entire 1934 program will total about 40 million dollars for the state, while wheat benefit payments will be about 2.4 million dollars.

The benefit payments for accounting farms are indicated in the following table, which shows the average payment for those farms receiving payments, and includes only those payments received by the cooperator before the 1934 books were closed. In some cases only the first corn-hog check is included, while in other cases the second check had been received. The second payments not received and the third payments will be entered in the 1935 book.

AAA Benefit Payments Received in 1934

	Corn		Wheat		Hogs		Average of all payments ^{1/}
	Number of farms	Amount per farm	Number of farms	Amount per farm	Number of farms	Amount per farm	
1/3 most profitable farms	19	\$187	12	\$114	17	\$167	\$348
1/3 least profitable farms	17	92	6	58	16	104	188
All accounting farms	54	113	29	105	51	159	285

^{1/} Total benefit payments reported by accounting farms under contract for 1934 divided by total number of accounting farms.

On many farms the cash received from benefit payments will more than pay for the year's taxes. As an average for all accounting farms in this report, the payments actually received were \$29 more than sufficient to pay the 1934 taxes.

It is interesting to note the use made of the contracted acres on the accounting farms. The average farm had 23.1 contracted acres which were used as follows: 6.9 idle; 3.2 red clover; 2.1 sweet clover; 3.2 soybeans; 1.9 alfalfa; and 5.1 acres were in other crops. These data indicate that most farmers made good use of their contracted acres from the standpoint of soil improvement, as a large part of them were in legumes. When the government restrictions on the use of crops grown on contracted acres were removed, they were on many farms the most profitable crops as they furnished hay and pasture where badly needed in drouth areas. The legumes had the further advantage of being immune to attack from chinch bugs.

Farm earnings were influenced indirectly by the AAA programs in that the reduction in production increased the price of the commodities involved. The drouth was a more important factor in reducing production than the adjustment programs, yet if it had not been for the corn-sealing program there would have been but little corn in the hands of farmers at the time the major price advance became effective.

Factors Relating to Analyze the Farm Business on 57
 Farms, Douglas, Clark, and Coler County Farms in 1934

Items	Your Farm	Average of 57 farms	19 most profitable farms	19 least profitable farms
Size of farms--acres - - - - -	_____	247.6	251.3	212.6
Percent of land area tillable- - - - -	_____	82.0	91.0	83.0
Percent of tillable land in hay and pasture - - - - -	_____	34.0	31.0	37.0
Gross receipts per acre- - - - -	_____	19.53	24.93	13.98
Total expenses per acre- - - - -	_____	7.32	7.45	3.76
Net receipts per acre- - - - -	_____	11.37	17.48	5.22
Value of land per acre - - - - -	_____	102	109	102
Total investment per acre- - - - -	_____	157	146	133
Acres in Corn- - - - -	_____	61.1	64.4	51.6
Oats- - - - -	_____	24.8	22.7	22.7
Wheat - - - - -	_____	22.4	26.4	25.3
Soybeans- - - - -	_____	21.6	25.5	14.6
Hay - - - - -	_____	26.5	20.5	20.7
Tillable pasture- - - - -	_____	46.9	51.2	43.9
Crop yields--Corn, bu. per acre- - -	_____	33.0	30.7	28
Oats, bu. per acre- - -	_____	19.3	23.7	16.5
Wheat, bu. per acre - -	_____	22.0	27.5	17.4
Soybeans, bu. per acre-	_____	28.0	30.3	25.3
Value of feed fed to productive L.S.	_____	1 678	2 100	1 161
Returns per \$100 of feed fed to productive livestock- - - - -	_____	132	143	133
Returns per \$100 invested in:				
Cattle- - - - -	_____	134	167	98
Poultry - - - - -	_____	236	240	213
Pigs weaned per litter - - - - -	_____	5.8	6.3	5.4
Income per litter farrowed - - - - -	_____	98	121	76
Dairy sales per dairy cow- - - - -	_____	42	30	42
Investment in productive L.S. per A.	_____	4.92	5.26	5.16
Receipts from productive L.S. per A.	_____	6.97	12.46	7.25
Man labor cost per crop acre - - - - -	_____	5.00	4.46	6.06
Machinery cost per crop acre - - - - -	_____	1.76	1.63	2.20
Power and mach. cost per crop A. - - -	_____	2.68	2.53	3.42
Farms with tractor - - - - -	_____	77%	79%	68%
Value of feed fed to horses- - - - -	_____	187	176	177
Man labor cost per \$100 gross income- - - - -	_____	18	12	23
Expenses per \$100 gross income - - -	_____	41	30	65
Farm improvements cost per acre- - -	_____	.5	.78	.76
Excess of sales over cash expenses -	_____	2 539	3 636	1 396
Increase in inventory- - - - -	_____	911	1 736	365
Rate earned on investment- - - - -	_____	6.3%	12.0%	3.8%
Gross receipts per farm- - - - -	_____	4 766	6 261	2 973

Chart for Studying the Efficiency of Various Parts of Your Business,
Egan, Douglas, Clark, and Coles Counties 1934

The numbers above the lines across the middle of the page are the averages for the 57 farms included in this report for the factors named at the top of the page. By drawing a line across each column at the number measuring the efficiency of your farm in that factor, you can compare your efficiency with that of other farmers in your locality.

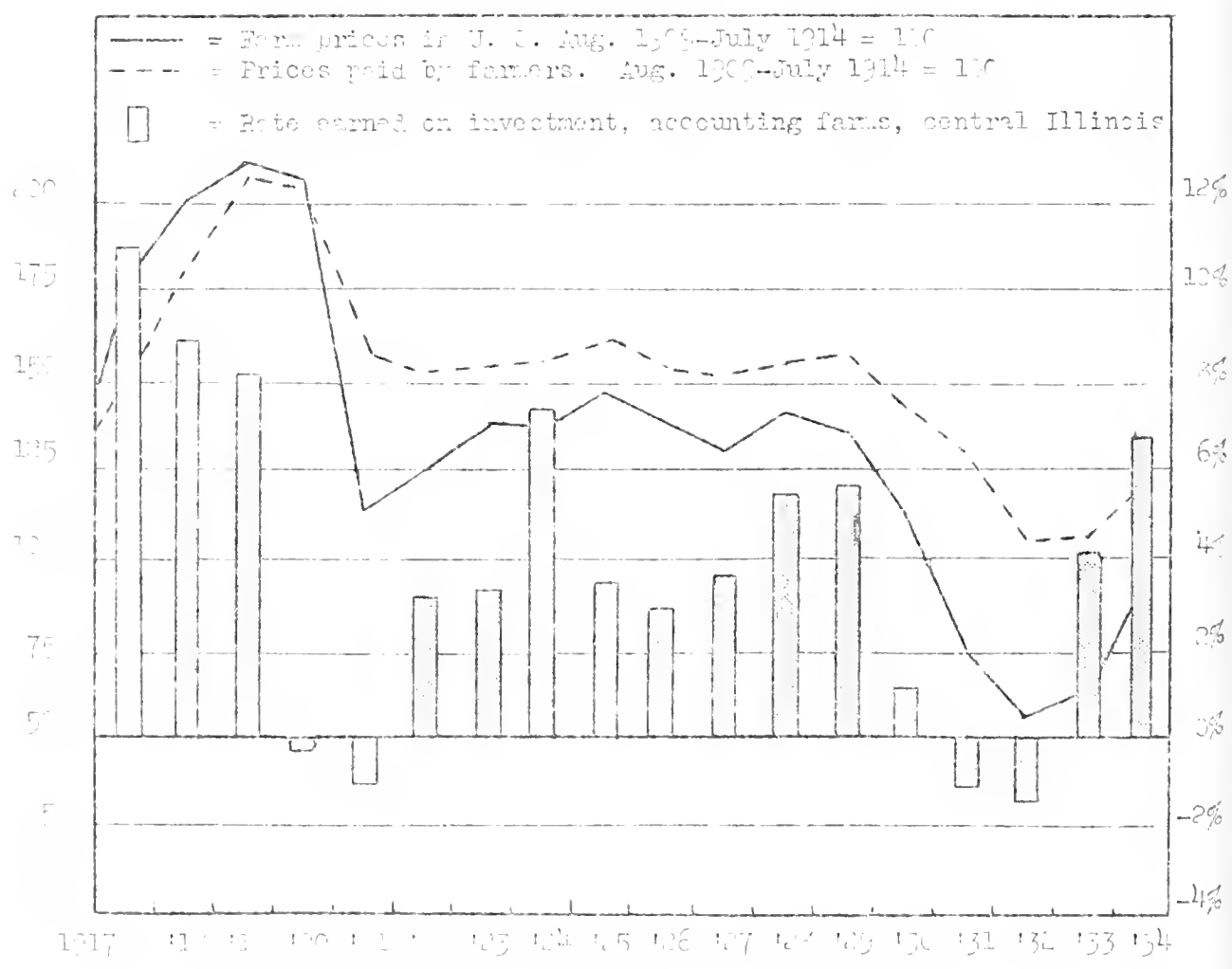
Rate earned on investment	Bushels per acre			Hogs: Income per litter	Dairy sales per dairy cow	Poultry income per \$100 invested	L.S. income per \$100 of feed fed	Cost per crop acre		Labor cost per \$100 gross receipts	Increase in inventory	Sales over cash expenses	Gross receipts		Acres in farm
	Corn	Oats	Wheat					Labor	Power and machinery				Per acre	Per farm	
5.8	53	34	37	223	72	436	257	--	--	--	3900	7100	37	2310	497
4.3	49	31	34	198	66	306	230	--	.28	--	3300	650	31	2050	442
2.8	45	28	31	173	60	356	207	.50	.83	2	2700	5500	26	7200	398
1.3	41	25	28	148	54	316	182	1.10	1.42	6	2100	450	26	6400	342
9.8	37	22	25	123	41	276	157	3.50	2.08	12	1500	3500	17	5600	297
8.3	33	19.3	22	93	42	236	152	5.10	2.63	18	911	2530	19.53	4766	247.6
6.8	29	16	19	73	35	176	107	6.50	3.22	24	300	1500	17	4000	198
5.3	25	13	16	48	30	156	81	.70	3.33	30	-300	500	14	3200	147
3.8	21	10	13	23	24	116	77	9.50	4.42	36	-900	--	11	2400	111
2.3	17	7	10	--	18	76	32	11.00	5.03	42	-1500	--	1	1800	43
.8	13	4	7	--	12	36	7	12.50	5.63	48	-2100	--	5	1000	--

Influence of Price Changes on Farm Earnings

Farm prices in 1934 advanced more rapidly than did the prices of commodities which farmers bought. Farmers of the United States as a group could exchange their farm products in 1934 for 74 percent as many goods as for the period 1909-1914, while in 1933 they received only 64 percent, and 1932 only 51 percent as much in exchange for what they had to sell as in the prewar period. In the month of February, 1935, this index of purchasing power had increased to 87 percent of prewar, the index of farm prices having risen to 111 as compared with an index of 127 for commodities which farmers buy. When the line representing farm prices drops below the line representing prices paid by farmers, farm earnings are very low, but when these lines come close together farm earnings increase. (See following graph.)

Index of Prices

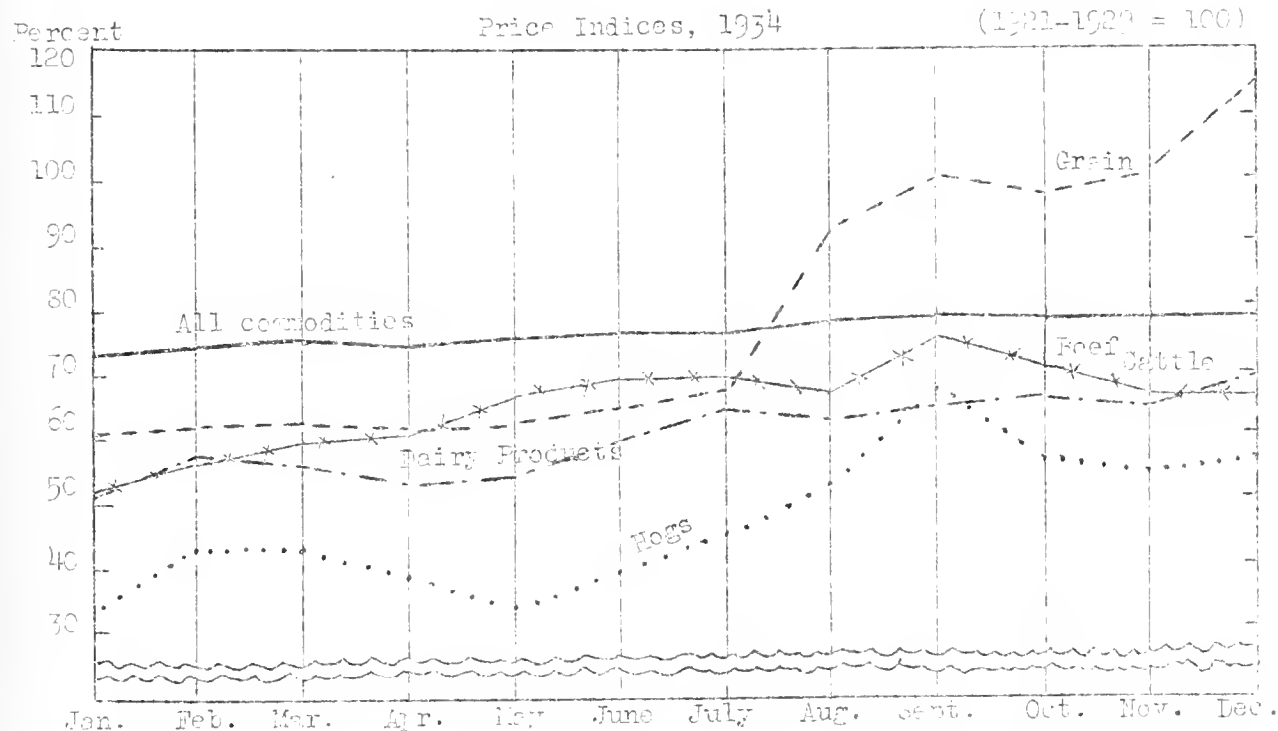
Rate Earned



Since the price of some farm products advanced much more rapidly during 1934 than other products, it is evident that some farmers would benefit more than others, depending upon the kind and quantity of products sold. Grain prices advanced much more rapidly than livestock prices; which resulted in a very bad price ratio for farmers who buy large quantities of feed. The average Illinois farm price of corn was 41 cents a bushel in January, 1934; it advanced steadily until the end of the year when it was 88 cents a bushel. Other grains made marked advance although not so great an advance as corn. The price of hogs fluctuated from a low of \$5.20 a hundred in May to a high of \$6.30 in September. The low point in the fall came in November when the average price was \$5.10. The price has advanced quite rapidly since November, the average price being \$7.50 for February, 1935. Beef cattle were worth \$4.10 a hundred in January, 1934 and advanced each month until September, when the price was \$5.90. They dropped to \$5.20 in December but increased again to \$7.40 for February, 1935.

The year 1934 set a record for the reduction in the numbers of livestock. The percentage decreases by species were as follows: horses, 1.1 percent; mules, 2.6 percent; all cattle, 11.2 percent; sheep, 4.7 percent; hogs, 35.3 percent. When all species are combined on the basis of their capacity to consume feed, the reduction was 13 percent. This reduction will greatly reduce the demand for feeds produced in 1935.

The relative change in prices of important commodities may be noted in the following graph, which shows the average Illinois farm prices by month as a percentage of the average prices for the period 1921-1929.



All commodities index represents the wholesale price of a large number of commodities for the United States, as computed by Bureau of Labor Statistics. Grain and livestock indices represent average monthly farm prices in Illinois.

Variation in Earnings Over Five-Year Period

A comparison of production, income, and expenditures on the accounting farms in this area for the last five years is very interesting because of the violent changes in price level. 1934 was the second year of very low crop yields, yet total receipts per farm were higher than in any other year in the last five and were 95 percent of the 1929 gross receipts. Operating costs per acre were lower than in any year of the five except 1933. Thus profits were the best the county had experienced since 1928.

Earnings in 1935, as usual, will depend upon individual efficiency, weather and prices. A normal year will mean larger yields of grain and probably lower prices.

Comparison of Earnings and Investments on Accounting Farms in
Edgar, Douglas, Clark, and Coles Counties for 1930-1934

Items	1930 ^{1/}	1931 ^{2/}	1932 ^{3/}	1933 ^{4/}	1934
Number of farms - - - - -	61	35	34	30	57
Average size of farms, acres - - -	230	247	282	269	248
Average rate earned, to pay for management, risk and capital - -	2.3%	-1.5%	-1.0%	3.6%	8.3%
Average labor and management wage	\$-648	\$-2 304	\$-2 238	\$ -4	1 593
Gross income per acre - - - - -	17.13	6.80	6.41	12.34	19.53
Operating cost per acre - - - - -	12.39	9.52	7.99	7.35	7.68
Average value of land per acre - -	158	140	128	110	102
Total investment per acre - - - -	210	180	165	138	137
Investment per farm in:					
Total livestock- - - - -	2 868	2 129	2 302	1 659	1 555
Cattle - - - - -	1 428	1 004	1 303	906	775
Hogs - - - - -	702	536	408	310	283
Poultry- - - - -	142	88	97	65	82
Gross income per farm - - - - -	3 947	1 680	1 809	3 320	4 766
Income per farm from:					
Crops- - - - -	1 221	191	192	1 836	2 418
Miscellaneous income - - - -	58	73	48	66	1
Total livestock- - - - -	2 688	1 416	1 569	1 418	2 258
Cattle - - - - -	464	106	574	268	748
Dairy sales- - - - -	451	373	249	312	287
Hogs - - - - -	1 526	800	619	716	956
Poultry- - - - -	197	133	119	94	84
Average yield of corn in bu. - - -	37	42	53	25	33
Average yield of oats in bu. - - -	40	48	45	17	19
Average yield of wheat in bu. - -	19	29	23	16	22

^{1/} Records from Coles, Vermilion, Edgar, and Douglas counties for 1930.

^{2/} Records from Coles, Douglas, and Moultrie counties for 1931.

^{3/} Records from Edgar, Douglas, Coles, and Moultrie counties for 1932.

^{4/} Records from Douglas, Moultrie, Coles, and Shelby counties for 1933.

ANNUAL FARM BUSINESS REPORT ON FORTY-FIVE FARMS
IN MACOUPIN COUNTY, ILLINOIS, 1934

P. E. Johnston, J. E. Wills, and E. L. Sauer*

The farm earnings of 45 account-keeping farmers in Macoupin County showed an increase in 1934 over those of 1933. This is the second consecutive year of improvement in the business of these farms. The three years previous to 1933 showed very low returns.

These 45 accounts show for 1934 an average net income of \$558 per farm, as compared with an average of \$388 in 1933, and an average net loss of \$410 in 1932. The average cash income in 1934 was \$3,121 per farm, the cash business expenditures \$1,778 per farm, leaving a cash balance of \$1,343 to meet interest payments and family living expenses. (Those who keep home account books use the latter figure to represent the cash contribution of the farm to the "realized family income".) Besides the cash income, there was an inventory increase of \$86 per farm due to the rise in the prices of farm products. This increase, added to the cash balance, resulted in an average excess of receipts over expenses of \$1,429 per farm.

These data must not be considered representative of average farm conditions, for they were secured from farms which are larger than average, and which were managed by farmers who are more efficient than the average of all farmers in the county.

For the state as a whole, farm earnings were better in 1934 than in 1933, in spite of the fact that corn and oat yields were very low due to the drouth and to chinch bug damage. In the western and southwestern parts of the state the drouth caused an almost total failure of both corn and oats, which accounts for farm earnings being lower there than in other parts of the state.

The corn crop was best in the southeastern part of the state, and was fair in the northwestern section. Wheat yields were particularly good in the south and central portions of the state. Soybean yields were very good throughout the state, and there was a larger than normal acreage in Illinois in 1934. This state produced over half of the nation's 1934 crop of soybeans.

Chinch bug damage extended over most of the state last year, but was much more severe in some sections than in others, and was much worse on some farms than on other farms in the same community. Conditions affecting crop yields were very spotted. This accounts in part for the wide variation in farm earnings from one section of the state to another and the wider variations than usual from one farm to another.

* W. F. Coolidge, farm adviser in Macoupin County, cooperated in supervising and collecting the records on which this report is based.

Industries other than agriculture again showed improved earnings over the previous year. A group of 840 industrial corporations reported by a nationally known bank showed average earnings of 5.0 percent on their invested capital in 1934, as compared with 3.4 percent for the same corporations in 1933. A similar group had a loss of one-tenth of one percent in 1932, and average earnings of 3.3 percent in 1931.

In comparing the average earnings of corporations with the rate earned on investment on accounting farms, it is well to keep in mind that in corporation accounting, charges are made for management, while in the farm accounts no comparable deduction has been made. On the other hand the farmer and his family receive food, fuel, and other items of living from the farm for which the farm has received no credit in the records used in this report. For the average central Illinois farm family, consisting of five persons, the value of the food and fuel furnished by the farm was about \$250 in 1934, when estimated on the basis of the wholesale price for farm products.

Variations in Farm Incomes

There was a much wider range in farm earnings on the accounting farms in 1934 than in 1933. This was true for the farms included in this report, and it was also true when the average earnings of farms in one section of the state are compared with the earnings of farms in other areas.

The extremely wide range in earnings was due to a combination of physical and economic factors. The average yields of wheat and soybeans were much better, compared with the five-year average, than the average yields of corn and oats. This variation favored those sections which had larger acreages of the higher yielding crops in 1934. There was also a wide range in average corn yields from one section of the state to another, as well as between individual farms in the same area. The price of grains was high in 1934 as compared with prices of livestock and livestock products. Farms where grain sales constitute a large part of the farm income thus had an advantage. The rapid increase in the prices of farm products, particularly grains, favored those farms which had large stocks of salable products on hand at the beginning of the year. Many farmers who inventoried the corn on hand at the beginning of 1934 at 40 cents a bushel, later sold this corn for 80 cents.

In this group of 45 accounting farms the most successful third shows an average net income of \$1,342 as compared with an average net loss of \$151 for the least successful third of the farms. In 1933 the most successful farms had a net income of \$1,570, while the loss on the least successful farms was \$408.

Investments, Receipts, Expenses and Earnings on 45
Macopin County Farms in 1934

Items	Your farm	Average of 45 farms	15 most profitable farms	15 least profitable farms
CAPITAL INVESTMENTS				
Land - - - - -		12 544	11 624	12 439
Farm improvements- - - - -		2 996	3 169	2 296
Livestock total- - - - -		<u>1 530</u>	<u>1 531</u>	<u>1 262</u>
Horses - - - - -		392	358	435
Cattle - - - - -		777	801	533
Hogs - - - - -		219	209	175
Sheep- - - - -		55	62	44
Poultry- - - - -		87	101	83
Machinery and equipment- - - - -		1 100	1 061	862
Feed and grains- - - - -		1 111	1 047	909
Total capital investment- - - - -	\$	\$19 231	\$18 432	\$17 774
RECEIPTS AND NET INCREASES				
Livestock total- - - - -		<u>1 864</u>	<u>2 119</u>	<u>1 212</u>
Horses - - - - -		17	50	---
Cattle - - - - -		371	398	222
Hogs (including AAA payments)-		650	731	439
Sheep- - - - -		75	84	70
Poultry- - - - -		75	107	54
Egg sales- - - - -		129	141	114
Dairy sales- - - - -		537	558	313
Feed and grains (including AAA payments) - - - - -		491	713	379
Labor off farm - - - - -		72	56	86
Miscellaneous receipts - - - - -		2	1	2
Total receipts & net increases	\$	\$ 2 420	\$ 2 359	\$1 619
EXPENSES AND NET DECREASES				
Farm improvements- - - - -		138	103	140
Horses - - - - -		---	---	22
Miscellaneous livestock decreases		---	---	---
Machinery and equipment- - - - -		314	300	286
Feed and grains- - - - -		---	---	---
Livestock expense- - - - -		29	31	32
Crop expense - - - - -		134	150	115
Hired labor- - - - -		170	148	49
Taxes- - - - -		137	149	123
Miscellaneous expenses - - - - -		28	28	26
Total expenses & net decreases	\$	\$ 1 000	\$ 900	\$ 853
RECEIPTS LESS EXPENSES- - - - -				
	\$	\$ 1 420	\$ 1 980	\$ 826
Total unpaid labor- - - - -		771	638	957
Operator's labor - - - - -		527	501	540
Family labor - - - - -		244	137	417
Net income from investment and management - - - - -		658	1 342	-131
RATE EARNED ON INVESTMENT - - - - -		3.41%	7.28%	-7.4%
Return to capital and operator's labor and management - - - - -		1 185	1 343	409
5% of capital invested- - - - -		964	920	839
LABOR AND MANAGEMENT WAGE - - - - -	\$	\$ 221	\$ 921	\$ -400

The following table shows the number of farms having certain net incomes per acre. There was a marked difference between the most successful and the least successful farms.

<u>Average net in-</u> <u>come per acre</u>	<u>Number of</u> <u>farms</u>	<u>Average net in-</u> <u>come per acre</u>	<u>Number of</u> <u>farms</u>
\$15.	1	\$3.	15
13.	0	1.	7
11.	1	-1.	8
9.	2	-3.	1
7.	6	-5.	1
5.	3		

A further study of the farm businesses made by comparing the investments, receipts, and expenses of the group of farms with the highest net incomes with those having the lowest net incomes should throw some light on the question of why some farmers are more successful than others. This comparison is shown in the table on page 3.

The total investment on the most profitable farms averaged \$18,432, as compared with a total investment of \$17,774 on the least profitable farms. The two groups had about the same amount invested in land and improvements combined, but the most profitable farms had a larger investment in productive livestock, and in feed and grains. Differences in receipts from the sales of livestock, livestock products, and grains accounts for much of the difference in income between the two groups. The total farm expense, including the charge for family labor, was \$1,547 on the most profitable farms as compared with \$1,710 on the least profitable farms.

Changes in Inventories and Inventory Values

The year 1934 was similar to 1933 in that the prices of farm products continued to advance, causing further increases in inventory values. Owing to the poor crop yields in 1934, there were fewer bushels of grain on hand to inventory at the end of the year than at the beginning. The value of the smaller amount of grain, however, was greater than for the larger amount on hand at the beginning of the year.

Bushels of Corn Inventoried

	Jan. 1, 1934	Dec. 31, 1934
Average of all farms.	856	156
Average of 15 most successful farms . .	1 096	329
Average of 15 least successful farms. .	493	23
Your farm		

The most profitable farms had a much larger inventory of corn, both at the beginning and end of the year. This larger inventory of corn, with the rise in grain prices, was one of the important factors accounting for the difference in farm earnings.

The average inventory increase for the accounting farms in Macoupin County was \$86 in 1934, as compared with inventory losses of \$33 a farm in 1933, and \$450 a farm in 1932. There were increases of \$60 in total livestock, \$45 in feed and grain, and \$12 in machinery, while improvements showed a decrease of \$31. Such an increase in inventory as that for machinery results from the value of new replacements during the year being in excess of depreciation costs. This increase is of considerable interest for it is the first time that such an increase in machinery inventories has occurred since farm earnings began to decline so drastically with the general depression.

Inventory Changes for 1934

Items	Beginning inventory 1-1-34	Closing inventory 12-31-34	Inventory changes 1934	Inventory changes your farm
Total livestock.	\$1 530	\$1 590	\$60	\$
Feed and grains.	1 111	1 156	45	
Machinery.	1 100	1 112	12	
Improvements (except residence)	2 996	2 965	-31	
Total.	\$6 737	\$6 823	\$86	\$

Some Adjustments on Macoupin County Farms Since 1929

Farmers have been forced to make adjustments in their cash expenditures as the result of changes in their cash incomes. From 1929 through 1933 farm operating costs declined each year, but the year 1934 brought a reversal of this trend. Total operating expenses were 40 cents an acre higher in 1934 than in 1933, while cash operating expenses were \$1,778 a farm in 1934, as compared with \$1,503 in 1933. The largest increase in expenditures over the previous year was for machinery and repairs for machinery. Indications point to an even greater expansion of spending for these items in 1935, since farmers have postponed machinery replacements during the four-year period since 1929.

Cash Income and Expenses on Accounting Farms in Macoupin County for 1929 and 1934

Items	Your farm 1934	Average cash expense per farm		Your farm 1934	Average cash income per farm	
		1934	1929		1934	1929
Livestock	\$	\$ 251	\$1 058	\$	\$2 055	\$4 576
Feed and grains		447	775		893	1 200
Machinery		421	739		95	151
Improvements.		111	320		4	1
Labor		170	512		72	97
Miscellaneous		28	33		2	37
Livestock expense		29	57		---	---
Crop expense.		134	217		---	---
Taxes		187	283		---	---
Total	\$	\$1 778	\$3 994	\$	\$3 121	\$6 062
Excess of cash sales over expenses.	\$			\$	\$1 345	\$2 068
Increase in inventory					86	566
Income to labor and capital (Receipts less expenses)					1 429	2 634

The cumulative effect of several years of low agricultural prices on the demand for manufactured goods can readily be ascertained by a comparison of cash farm expenditures in 1934 with those in 1929. Although the average cash income in 1934 was 51 percent of that in 1929, cash expenditures were only 44% as large. In 1934 livestock purchases were 24 percent, and feed and grain purchases 58 percent as large as in 1929. In 1934 these farms paid out 57 percent as much for machinery, and 62 percent as much for crop expense as in 1929, while taxes were reduced to 66 percent of the 1929 level.

Comparison of Farms With High and Low Earnings

The most profitable farms in this study had net receipts per acre of \$6.52, as compared with a net loss of 53 cents per acre for the least profitable group. The reasons for this difference may be obtained from a study of the data on pages 3 and 8.

The most profitable farms had larger inventories of productive livestock, and feed and grains on which to make a profit when prices advanced. One reason for the larger inventories, however, was the higher crop yields, there being an advantage of 2.8 bushels of corn, 5.4 bushels of oats, 7.1 bushels of wheat, and 7.1 bushels of soybeans per acre in favor of the highest profit group. The higher yields on the most profitable farms more than offset the smaller acreage of wheat and soybeans on these farms. Crop yields were so low on the least profitable farms that there was an average inventory loss of \$95 per farm in spite of the price advance.

The most profitable farms were more intensive, and more efficient in their livestock production than the least profitable farms. They had an investment in productive livestock of \$6.14 per acre, and fed \$1,479 of feed per farm, as compared with \$3.68 invested per acre, and \$1,104 of feed fed per farm, on the least profitable farms. The productive livestock on the most profitable farms returned \$139 for each \$100 of feed fed, as compared with a return of \$110 for each \$100 of feed fed on the least profitable farms. Difference in livestock efficiency is further illustrated by the fact that on the most profitable farms the dairy sales were \$53 per cow higher, and the income per litter farrowed \$25 higher than on the least profitable farms.

The larger income on the most profitable farms was secured with a total operating cost of \$7.51 per acre, as compared with \$7.95 per acre on the least profitable farms. Man labor costs per crop acre were \$5.54 on the most profitable farms, as compared with \$6.53 per crop acre on the least profitable farms.

Influence of AAA Programs on Cropping Systems and Farm Incomes

The farm-account records in Illinois were influenced both directly and indirectly by the corn-hog and wheat adjustment programs. A large percentage of accounting farms were under one or both contracts in 1934. The acreages of corn and wheat on these farms were therefore less than normal. This should have resulted in lower operating costs. Corn-hog benefit payments for the entire 1934 program will total about 40 million dollars for the state, while wheat benefit payments will be about 2.4 million dollars.

The benefit payments for accounting farms are indicated in the following table, which shows the average payment for those farms receiving payments, and includes only those payments received by the cooperator before the 1934 books were closed. In some cases only the first corn-hog check is included, while in other cases the second check had been received. The second payments not received and the third payments will be entered in the 1935 book.

AAA Benefit Payments Received in 1934

	Corn		Wheat		Hogs		Average of all payments ^{1/}
	Number of farms	Amount per farm	Number of farms	Amount per farm	Number of farms	Amount per farm	
1/3 most profitable farms	13	\$85	5	\$108	13	\$133	\$225
1/3 least profitable farms	12	89	6	118	13	107	211
All accounting farms	40	97	23	95	41	115	239

^{1/} Total benefit payments reported by accounting farms under contract for 1934 divided by total number of accounting farms.

On many farms the cash received from benefit payments will more than pay for the year's taxes. As an average for all accounting farms in this area, the payments actually received were \$52 more than sufficient to pay the 1934 taxes.

It is interesting to note the use made of contracted acres on the accounting farms in this area. The average farm had 19.2 contracted acres which were used as follows: 12.6 idle; .3 red clover; 1.4 sweet clover; 4.2 mixed clover; .5 alfalfa, and .4 acres were in other crops. When the government restrictions on the use of crops grown on contracted acres were removed, the legume crops were the most profitable as they furnished hay and pasture where badly needed in drouth areas. The legumes had the further advantage of being immune to attack from chinch bugs.

Farm earnings were influenced indirectly by the AAA programs in that the reduction in production increased the price of the commodities involved. The drouth was a more important factor in reducing production than the adjustment programs, yet if it had not been for the corn-sealing program there would have been but little corn in the hands of farmers at the time the major price advance became effective.

Factors Helping to Analyze the Farm Business on 45
Macoupin County Farms in 1934

Items	Your farm	Average of 45 farms	15 most profitable farms	15 least profitable farms
Size of farms--acres - - - - -		227.5	205.9	227.9
Percent of land area tillable- - - - -		82.6	85.2	79.6
Percent of tillable land in hay and pasture - - - - -		42.5	44.2	37.8
Gross receipts per acre- - - - -		10.68	14.03	7.37
Total expenses per acre- - - - -		7.79	7.51	7.95
Net receipts per acre- - - - -		2.89	6.52	-.58
Value of land per acre - - - - -		55	56	55
Total investment per acre- - - - -		35	90	78
Acres in Corn- - - - -		44.8	44.2	42.6
Oats- - - - -		14.2	14.1	12.8
Wheat - - - - -		27.2	19.1	29.9
Soybeans- - - - -		17.2	13.9	21.7
Hay - - - - -		37.0	33.7	36.3
Tillable pasture- - - - -		42.9	43.9	32.4
Crop yields--Corn, bu. per acre- - - - -		8.1	14.0	5.2
Oats, bu. per acre- - - - -		7.5	11.3	5.9
Wheat, bu. per acre - - - - -		21.5	25.6	18.5
Soybeans, bu. per acre- - - - -		15.5	19.2	11.7
Value of feed fed to productive L.S. - - - - -		1 449	1 479	1 104
Returns per \$100 of feed fed to productive livestock- - - - -		127	139	110
Returns per \$100 invested in:				
Cattle- - - - -		114	111	99
Poultry - - - - -		234	241	213
Pigs weaned per litter - - - - -		6.3	6.4	6.1
Income per litter farrowed - - - - -		78	81	56
Dairy sales per dairy cow- - - - -		65	78	45
Investment in productive L.S. per A. - - - - -		5.11	6.14	3.68
Receipts from productive L.S. per A. - - - - -		8.12	10.05	5.32
Man labor cost per crop acre - - - - -		6.21	5.54	6.53
Machinery cost per crop acre - - - - -		2.16	2.27	1.92
Power and mach. cost per crop A. - - - - -		3.50	3.32	3.33
Farms with tractor - - - - -		67%	80%	60%
Value of feed fed to horses- - - - -		210	187	188
Man labor cost per \$100 gross income- - - - -		37	25	58
Expenses per \$100 gross income - - - - -		75	54	103
Farm improvements cost per acre- - - - -		.61	.50	.61
Excess of sales over cash expenses - - - - -		1 347	1 620	921
Increase in inventory- - - - -		88	350	-95
Rate earned on investment- - - - -		5.41%	7.28%	-.74%
Gross receipts per farm- - - - -		2 429	2 829	1 679

Chart for Studying the Efficiency of Various Parts of Your Business,
Macoupin County 1934

The numbers above the lines across the middle of the page are the averages for the 45 farms included in this report for the factors named at the top of the page. By drawing a line across each column at the number measuring the efficiency of your farm in that factor, you can compare your efficiency with that of other farmers in your locality.

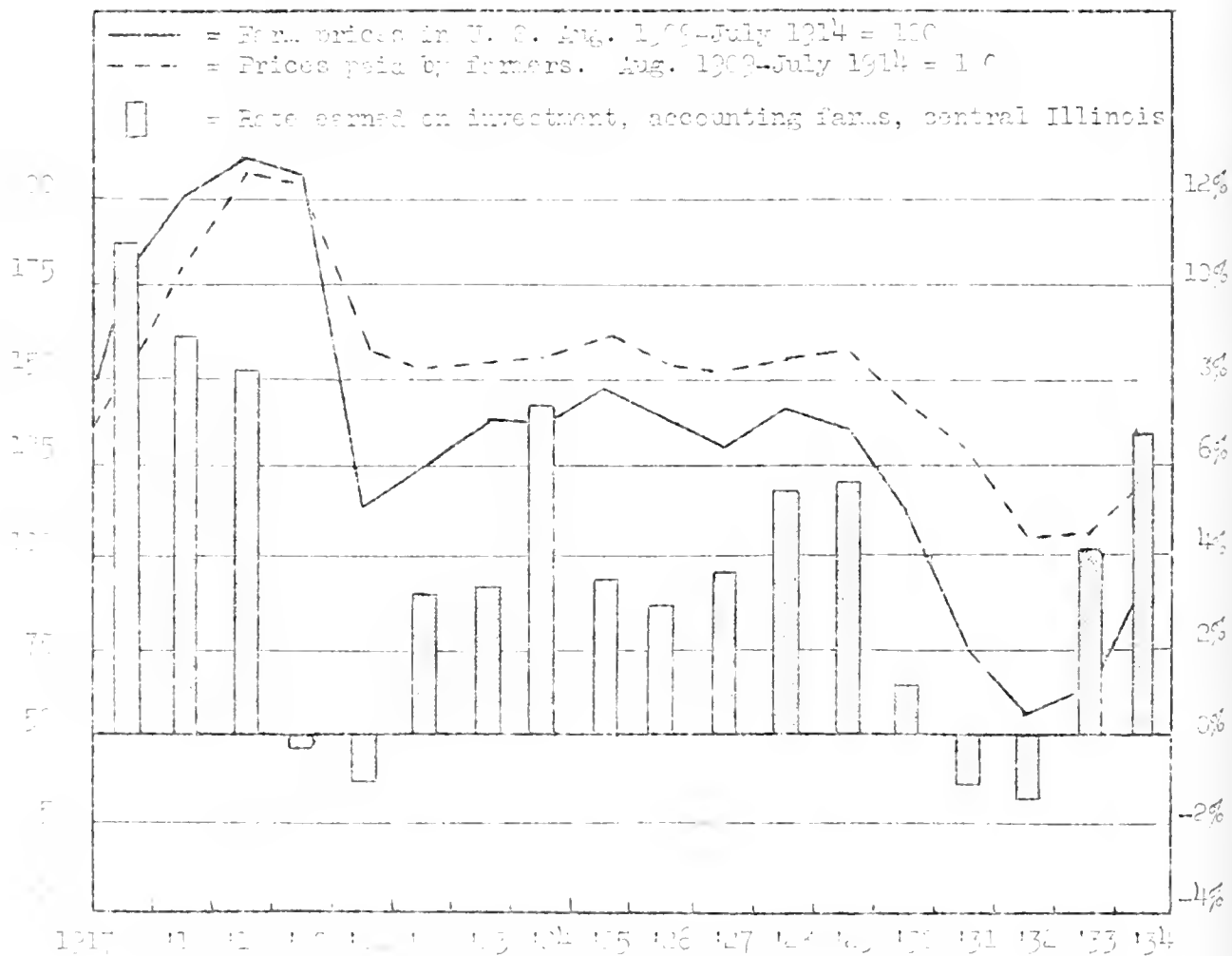
Rate earned on investment	Bushels per acre			Hogs: income per litter	Dairy sales per dairy cow	Poultry income per \$100 invested	L.S. income per \$100 of feed fed	Cost per crop acre		Labor cost per \$100 gross receipts	Increase in inventory	Sales over cash expenses	Gross receipts		Acres in farm
	Corn	Oats	Wheat					Labor	Power and machinery				Per acre	Per farm	
13.4	18	24	37	178	150	134	252	--	--	--	3835	3300	21	7400	430
11.4	16	21	34	158	135	124	127	--	--	5	1526	2300	19	6400	390
9.4	14	18	31	158	116	154	202	.81	--	13	1886	2100	17	5400	350
7.4	12	15	28	118	90	114	177	2.61	46	21	875	2100	15	4400	310
5.4	10	12	25	98	82	274	152	4.41	1.31	29	485	1700	13	3400	270
3.41	8.1	8.5	21.6	78	65	234	127	6.21	2.16	37	66	1343	10.68	2429	227.5
1.4	6	6	19	58	48	194	102	8.01	3.01	45	-314	900	9	1400	190
-.6	4	3	16	38	31	154	77	9.21	3.86	53	-714	500	7	400	150
-2.6	2	0	13	18	14	114	52	11.61	4.71	61	-1114	1	5	--	1.0
-4.6	0	--	10	--	--	74	27	13.41	5.56	60	-1014	--	3	--	70
-5.6	--	--	7	--	--	34	2	15.21	6.41	77	-1014	--	1	--	30

Influence of Price Changes on Farm Earnings

Farm prices in 1934 advanced more rapidly than did the prices of commodities which farmers bought. Farmers of the United States as a group could exchange their farm products in 1934 for 74 percent as many goods as for the period 1909-1914, while in 1934 they received only 64 percent, and 1931 only 61 percent as much in exchange for what they had to sell as in the former period. In the month of February, 1935, this index of purchasing power had increased to 87 percent of former, the index of farm prices having risen to 111 as compared with an index of 127 for commodities which farmers buy. When the line representing farm prices drops below the line representing prices paid by farmers, farm earnings are very low, but when these lines come close together farm earnings increase. (See following graph.)

Index of Prices

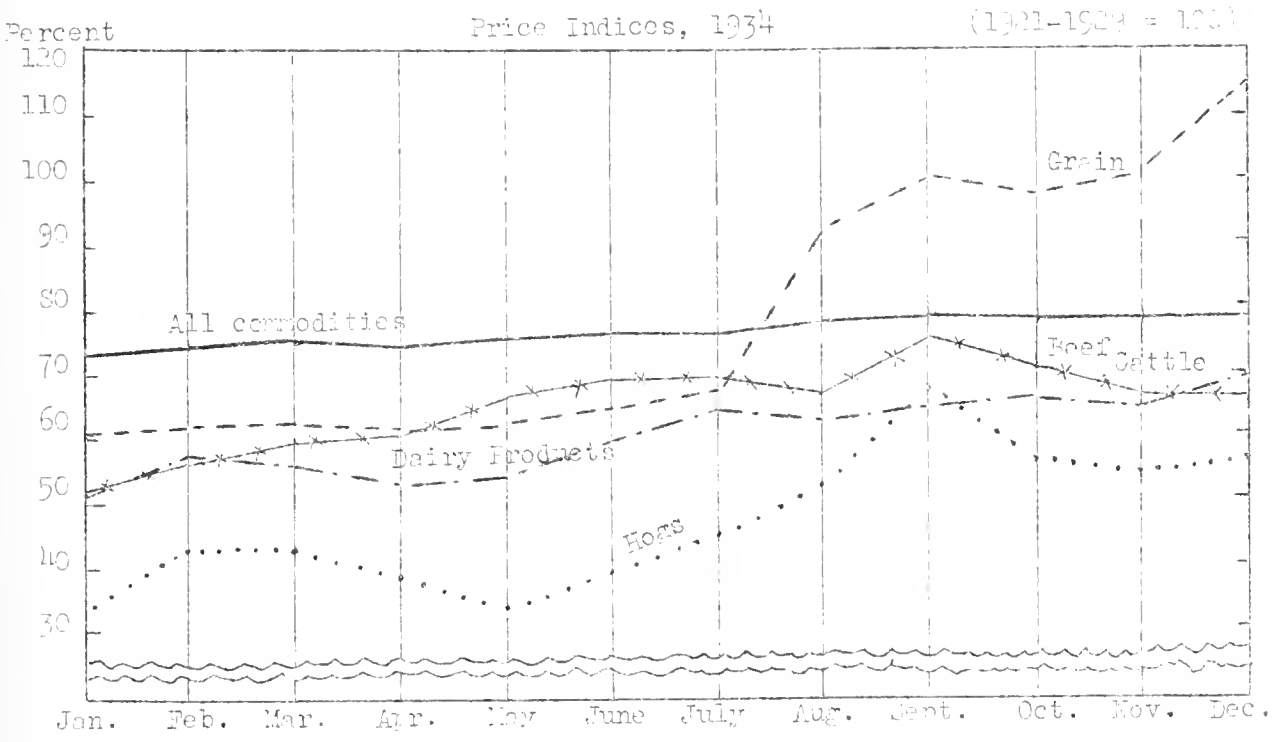
Rate Earned



Since the price of some farm products advanced much more rapidly during 1934 than other products, it is evident that some farms would benefit more than others, depending upon the kind and quantity of products sold. Grain prices advanced much more rapidly than livestock prices; which resulted in a very bad price ratio for farmers who buy large quantities of feed. The average Illinois farm price of corn was 41 cents a bushel in January, 1934; it advanced steadily until the end of the year when it was 88 cents a bushel. Other grains made marked advance although not so great an advance as corn. The price of hogs fluctuated from a low of \$4.50 a hundred in May to a high of \$6.30 in September. The low point in the fall came in November when the average price was \$5.10. The price has advanced quite rapidly since November, the average price being \$7.50 for February, 1935. Beef cattle were worth \$4.10 a hundred in January, 1934 and advanced each month until September, when the price was \$5.90. They dropped to \$5.20 in December but increased again to \$7.40 for February, 1935.

The year 1934 set a record for the reduction in the numbers of livestock. The percentage decreases by species were as follows: horses, 1.1 percent; mules, 2.6 percent; all cattle, 11.8 percent; sheep, 4.7 percent; hogs, 35.3 percent. When all species are combined on the basis of their capacity to consume feed, the reduction was 13 percent. This reduction will greatly reduce the demand for feeds produced in 1935.

The relative change in prices of important commodities may be noted in the following graph, which shows the average Illinois farm prices by months as a percentage of the average prices for the period 1921-1929.



All commodities index represents the wholesale price of a large number of commodities for the United States, as computed by Bureau of Labor Statistics. Grain and livestock indices represent average monthly farm prices in Illinois.

A comparison of production, income, and expenditures on the accounting farms in Macoupin County for the last five years is very interesting because of the violent changes in price level. 1934 was the second year of very low crop yields, yet total receipts per farm were higher than in any other year in the last four and were 54 percent of the 1929 gross receipts. Operating costs per acre were lower than in any year of the five except 1933. Thus profits were the best the county had experienced since 1929.

Earnings in 1935, as usual, will depend upon individual efficiency, weather and prices. A normal year will mean larger yields of grain and probably lower prices.

Comparison of Earnings and Investments on Accounting Farms in
Macoupin County for 1930-1934

Items	1930 ^{1/}	1931	1932 ^{1/}	1933 ^{2/}	1934
Number of farms- - - - -	28	33	42	30	45
Average size of farms, acres - - -	207	221	208	209	228
Average rate earned, to pay for management, risk and capital- - -	2.8%	-3.2%	-2.1%	2.1%	3.41%
Average labor and management wage-	\$ 3	\$-1 587	\$-916	\$-43	\$221
Gross income per acre- - - - -	15.00	7.31	6.02	9.25	10.68
Operating cost per acre- - - - -	11.27	11.12	7.99	7.39	7.79
Average value of land per acre - -	89	76	61	56	55
Total investment per acre- - - - -	134	119	95	89	85
Investment per farm in :					
Total livestock - - - - -	2 520	2 640	1 788	1 799	1 530
Cattle- - - - -	1 211	1 488	850	1 034	777
Hogs- - - - -	598	516	326	240	219
Poultry - - - - -	151	139	115	108	87
Gross income per farm- - - - -	3 109	1 617	1 252	1 930	2 429
Income per farm from:					
Crops - - - - -	434	---	---	296	491
Miscellaneous income- - - - -	67	20	52	39	2
Total livestock- - - - -	2 608	1 556	1 200	1 575	1 864
Cattle- - - - -	254	260	127	440	371
Dairy sales - - - - -	797	417	405	331	537
Hogs- - - - -	1 290	601	512	593	660
Poultry - - - - -	376	213	127	116	75
Average yield of corn in bu. - - -	29	33	50	22	8
Average yield of wheat in bu.- - -	17	26	15	15	22

^{1/} Records from Jersey and Macoupin Counties for 1930 and 1932.

^{2/} Records from Macoupin and Montgomery Counties for 1933

ANNUAL FARM BUSINESS REPORT ON THIRTY-TWO FARMS
IN JERSEY COUNTY, ILLINOIS, 1934

P. E. Johnston, J. E. Wills, and E. L. Sauer*

Farm earnings on the 32 accounting farms in Jersey County averaged 3.3 percent for 1934, which is the second highest return during the past five years. 1933 was highest with an average return of 3.6 percent. The 1934 return is remarkable considering the severe drouth and chinch bug damage.

These 32 accounts show for 1934 an average net income of \$670 per farm, as compared with an average of \$806 in 1933, and an average net loss of \$410 in 1932. The average cash income in 1934 was \$2,998 per farm, the cash business expenditures \$1,490 per farm, leaving a cash balance of \$1,508 to meet interest payments and family living expenses. (Those who keep home account books use the latter figure to represent the cash contribution of the farm to the "realized family income".) The low yields were directly responsible for the decrease in inventory of \$53 a farm. This decrease, deducted from the cash balance, resulted in an average excess of receipts over expenses of \$1,455 a farm.

These data must not be considered representative of average farm conditions, for they were secured from farms which are larger than average, and which were managed by farmers who are more efficient than the average of all farmers in the county.

For the state as a whole, farm earnings were better in 1934 than in 1933, in spite of the fact that corn and oat yields were very low due to the drouth and to chinch bug damage. In the western and southwestern parts of the state the drouth caused an almost total failure of both corn and oats, which accounts for farm earnings being lower there than in other parts of the state.

The corn crop was best in the southeastern part of the state, and was fair in the northwestern section. Wheat yields were particularly good in the south and central portions of the state. Soybean yields were very good throughout the state, and there was a larger than normal acreage in Illinois in 1934. This state produced over half of the nation's 1934 crop of soybeans.

Chinch bug damage extended over most of the state last year, but was much more severe in some sections than in others and was much worse on some farms than on other farms in the same community. Conditions affecting crop yields were very spotted. This accounts in part for the wide variation in farm earnings from one section of the state to another, and the wider variations than usual from one farm to another.

*C. T. Kibler, farm adviser in Jersey County, cooperated in supervising and collecting the records on which this report is based.

Industries other than agriculture again showed improved earnings over the previous year. A group of 840 industrial corporations reported by a nationally known bank showed average earnings of 5.0 percent on their invested capital in 1934, as compared with 3.4 percent for the same corporations in 1933. A similar group had a loss of one-tenth of one percent in 1932, and average earnings of 3.3 percent in 1931.

In comparing the average earnings of corporations with the rate earned on investments on accounting farms, it is well to keep in mind that in corporation accounting, charges are made for management, while in the farm accounts no comparable deduction has been made. On the other hand the farmer and his family receive food, fuel, and other items of living from the farm for which the farm has received no credit in the records used in this report. For the average central Illinois farm family, consisting of five persons, the value of the food and fuel furnished by the farm was about \$250 in 1934, when estimated on the basis of the wholesale price for farm products.

Variations in Farm Incomes

There was a much wider range in farm earnings on the accounting farms in 1934 than in 1933. This was true for the farms included in this report, and it was also true when the average earnings of farms in one section of the state were compared with the earnings of farms in other areas.

The extremely wide range in earnings was due to a combination of physical and economic factors. The average yields of wheat and soybeans were much better, compared with the five-year average, than the average yields of corn and oats. This variation favored those sections which had larger acreages of the higher yielding crops in 1934. There was also a wide range in average corn yields from one section of the state to another, as well as between individual farms in the same area. The price of grains was high in 1934, as compared with prices of livestock and livestock products. Farms where grain sales constitute a large part of the farm income thus had an advantage. The rapid increase in the prices of farm products, particularly grains, favored those farms which had large stocks of salable products on hand at the beginning of the year. Many farmers who inventoried the corn on hand at the beginning of 1934 at 40 cents a bushel, later sold this corn for 30 cents.

In this group of 32 accounting farms the most successful third shows an average net income of \$1,673, while the least successful third had a net loss of \$295. In 1933 the two groups had favorable net incomes of \$1,567 and \$147 respectively.

Investments, Receipts, Expenses and Earnings on 32
Jersey County Farms in 1934

Items	Your farm	Average of 32 farms	11 most profitable farms	11 least profitable farms
CAPITAL INVESTMENTS				
Land - - - - -		13 192	16 281	3 990
Farm improvements- - - - -		2 900	3 649	2 192
Livestock total- - - - -		<u>1 457</u>	<u>1 680</u>	<u>1 119</u>
Horses - - - - -		414	462	343
Cattle - - - - -		659	771	495
Hogs - - - - -		281	350	184
Sheep- - - - -		37	24	43
Poultry- - - - -		66	73	54
Machinery and equipment- - - - -		1 335	1 876	929
Feed and grains- - - - -		1 291	1 657	813
Total capital investment- - -	\$	\$20 175	\$25 143	\$15 043
RECEIPTS AND NET INCREASES				
Livestock total- - - - -		<u>1 766</u>	<u>2 388</u>	<u>959</u>
Horses - - - - -		4	18	---
Cattle - - - - -		225	278	126
Hogs (including AAA payments)-		841	1 272	349
Sheep- - - - -		40	21	33
Poultry- - - - -		55	51	39
Egg sales- - - - -		87	122	58
Dairy sales- - - - -		514	626	354
Feed and grains (including AAA payments) - - - - -		579	1 154	252
Labor off farm - - - - -		83	90	95
Miscellaneous receipts - - - - -		6	14	---
Total receipts & net increases	\$	\$ 2 434	\$ 3 646	\$ 1 306
EXPENSES AND NET DECREASES				
Farm improvements- - - - -		224	220	248
Horses - - - - -		---	---	2
Miscellaneous livestock decreases		---	---	---
Machinery and equipment- - - - -		279	344	235
Feed and grains- - - - -		---	---	---
Livestock expense- - - - -		21	31	7
Crop expense - - - - -		129	186	77
Hired labor- - - - -		108	166	37
Taxes- - - - -		187	205	157
Miscellaneous expenses - - - - -		31	26	30
Total expenses & net decreases	\$	\$ 979	\$ 1 178	\$ 793
RECEIPTS LESS EXPENSES- - - - -	\$	\$ 1 455	\$ 2 468	\$ 513
Total unpaid labor- - - - -		785	795	808
Operator's labor - - - - -		509	540	491
Family labor - - - - -		276	255	317
Net income from investment and management - - - - -		670	1 673	-295
RATE EARNED ON INVESTMENT - - - - -		<u>3.32%</u>	<u>6.65%</u>	<u>-1.96%</u>
Return to capital and operator's labor and management - - - - -		1 179	2 213	196
% of capital invested- - - - -		1 009	1 253	752
LABOR AND MANAGEMENT WAGE - - - - -	\$	\$ 170	\$ 955	\$ -556

The following table shows the number of farms having certain net incomes per acre. There was a marked difference between the most successful and the least successful farms.

<u>Average net income per acre</u>	<u>Number of farms</u>	<u>Average net income per acre</u>	<u>Number of farms</u>
\$15.	1	\$ 1.	1
11.	1	-1.	5
9.	1	-3.	2
7.	4	-5.	2
5.	6	-7.	1
3.	8		

A further study of the farm businesses, made by comparing the investments, receipts and expenses of the group of farms having the highest net income with those having the lowest net income, should throw some light on the question of why some farmers are more successful than others. This comparison is shown in the table on page 3.

The most successful farms averaged 232 acres each, the least successful 168 acres. This difference in size accounts in part for the variation in the average investment, receipts, and expenses in the two groups. Difference in receipts from the sales of hogs, grains, and dairy sales accounts for much of the difference in income between the two groups. Although the expenses per farm were higher on the most profitable farms, the total expense per acre, including the charge for family labor, was less than it was on the least profitable farms.

Changes in Inventories and Inventory Values

The year 1934 was similar to 1933 in that the prices of farm products continued to advance, causing further increases in inventory values. Owing to the poor crop yields in 1934 there were fewer bushels of grain on hand to inventory at the end of the year than at the beginning. The value of the smaller amount of grain, however, was greater than for the larger amount on hand at the beginning of the year.

Bushels of Corn Inventoried

	<u>Jan. 1, 1934</u>	<u>Dec. 31, 1934</u>
Average of all farms.	1 473	284
Average of 11 most successful farms . .	1 982	465
Average of 11 least successful farms. .	753	40
Your farm		

The most profitable farms had a much larger inventory of corn, both at the beginning and end of the year. With the rapid rise in corn prices, this was an important factor in accounting for the difference in returns from feed and grains.

The 32 Jersey County farms show an average inventory decrease of \$53. The 1933 inventory values increased \$117, while in 1932 there was an inventory loss of \$430. In 1934 there were decreases of \$97 in improvements, \$62 in livestock, and \$52 in machinery. Feed and grains showed an increase of \$138. The inventory decreases in machinery was the smallest since 1929, and indicates that needed repairs and replacements are being made, but still not enough to offset current depreciation costs.

Inventory Changes for 1934

Items	Beginning	Closing	Inventory	Inventory
	inventory	inventory	changes	changes,
	1-1-34	12-31-34	1934	Your farm
Total livestock.	\$1 457	\$1 395	\$-62	\$
Feed and grains.	1 291	1 429	138	
Machinery.	1 336	1 304	-32	
Improvements (except residence).	2 200	2 803	-97	
Total.	\$6 984	\$6 931	\$-53	\$

Some Adjustments on Jersey County Farms Since 1929

Farmers have been forced to make adjustments in their cash expenditures as the result of changes in their cash incomes. From 1930 through 1933, farm operating costs declined each year, but the year 1934 brought a reversal of this trend. The total operating expenses were 45 cents an acre higher in 1934 than in 1933, while cash operating expenses were \$1,490 a farm in 1934, as compared with \$1,383 in 1933. The largest increase in cash expenses over the previous year was for machinery and repairs for machinery. Low crop yields necessitated the purchase of considerably more feed and grain in 1934 than in 1933. Indications point to an expansion of spending in 1935 for machinery and improvements, since farmers have postponed repairs and replacements for these items during the four-year period since 1930.

Cash Income and Expenses on Accounting Farms in Jersey County for 1929 and 1934

Items	Your	Average cash		Your	Average cash	
	farm	expense per farm		farm	income per farm	
	1934	1934	1929	1934	1934	1929
Livestock	\$	\$ 168	\$1 058	\$	\$1 396	\$4 576
Feed and grains		335	775		770	1 200
Machinery		584	739		137	151
Improvements.		127	320		---	1
Labor		106	512		83	97
Miscellaneous		31	33		6	37
Livestock expense		21	57		---	---
Crop expense.		129	217		---	---
Taxes		187	283		---	---
Total	\$	\$1 490	\$3 994	\$	\$2 998	\$6 062
Excess of cash sales over expenses.	\$			\$	\$1 508	\$2 068
Increase in inventory					-53	566
Income to labor and capital (Receipts less expenses).					1 455	2 634

The cumulative effect of several years of low agricultural prices on the demand for manufactured goods can readily be ascertained by a comparison of cash farm expenditures in 1934 with those in 1929. Although the average cash income in 1934 was 49 percent of that in 1929, cash expenditures were only 37 percent as large. In 1934 livestock purchases were 16 percent, and feed and grain purchases 45 percent as large as in 1929. In 1934 these farms paid out 52 percent as much for machinery, 40 percent as much for improvements, and 59 percent as much for crop expense as in 1929, while taxes were reduced to 66 percent of the 1929 level.

Comparison of Farms With High and Low Earnings

The most profitable farms in this study had net receipts per acre of \$7.22, as compared with a loss of \$1.76 for the least profitable group. The reasons for this difference may be obtained from a study of the data on pages 3 and 8.

The most profitable farms were larger and carried larger inventories of both crops and livestock on which to make a profit when prices advanced. The most successful farms had 26.5 more acres of corn, 15.8 more acres of wheat, 13 more acres of soybeans, 8.2 more acres of oats, and 7 more acres of hay than the least profitable farms. In addition to the larger acreage of crops, they had higher yields, having 14.4 bushels more oats, 7.2 bushels more wheat, 7.1 bushels more soybeans and 1.6 bushels more corn per acre than the least profitable. Differences in acreage of wheat and soybeans, the high yielding crops in 1934, was an important factor in accounting for the variation in returns from feed and grains between the most profitable, and the least profitable farms.

The most profitable farms were more intensive and more efficient in their livestock production than the least profitable farms. They had an investment in productive livestock of \$5.21 per acre, and fed \$2,071 of feed per farm, as compared to \$4.37 invested per acre, and \$871 of feed fed per farm on the least profitable farms. The most profitable farms had returns of \$114 per \$100 of feed fed, while the least profitable farms had returns of \$110 per \$100 of feed fed. There was an income of \$95 per litter farrowed on the most profitable farms, while the least profitable group received only \$45 per litter. The most profitable farms had dairy sales per dairy cow of \$80, as compared with \$41 for the least profitable farms.

The larger income on the most profitable farms was secured with a total operating cost of \$8.52 per acre, as compared with \$9.54 per acre for the least profitable farms. The man labor costs were \$2.96 per crop acre lower, while power and machinery costs were 41 cents per crop acre lower for the most successful farms.

Influence of AAA Programs on Cropping Systems and Farm Incomes

The farm-account records in Illinois were influenced both directly and indirectly by the corn-hog and wheat adjustment programs. A large percentage of accounting farms were under one or both contracts in 1934. The acreages of corn and wheat on these farms were therefore less than normal. This should have resulted in lower operating costs. Corn-hog benefit payments for the entire 1934 program will total about 40 million dollars for the state, while wheat benefit payments will be about 2.4 million dollars.

The benefit payments for accounting farms are indicated in the following table, which shows the average payment for those farms receiving payments, and includes only those payments received by the cooperator before the 1934 books were closed. In some cases only the first corn-hog check is included, while in other cases the second check had been received. The second payments not received and the third payments will be entered in the 1935 book.

AAA Benefit Payments Received in 1934

	Corn		Wheat		Hogs		Average of all payments ^{1/}
	Number of farms	Amount per farm	Number of farms	Amount per farm	Number of farms	Amount per farm	
1/3 most profitable farms	11	\$100	6	\$150	11	\$174	\$355
1/3 least profitable farms	10	54	5	136	9	103	196
All accounting farms	30	78	19	127	29	148	283

^{1/} Total benefit payments reported by accounting farms under contract for 1934 divided by total number of accounting farms.

On most farms the cash received from benefit payments will more than pay for the year's taxes. As an average of all accounting farms in Jersey County in 1934, the payments actually received were \$96 more than sufficient to pay the 1934 taxes.

It is interesting to note the use made of the contracted acres on the accounting farms. The average farm had 17.4 contracted acres which were used as follows: 3.1 idle; 1.7 red clover; 3.0 sweet clover, 5.6 soybeans and compeas; .4 alfalfa and 3.6 acres were in other crops. These data indicate that most farmers made good use of their contracted acres from the standpoint of soil improvement, as a large part of them were in legumes. When the Government restrictions on the use of crops grown on contracted acres were removed, they were on many farms the most profitable crops, as they furnished hay and pasture where badly needed in drouth areas. The legumes had the further advantage of being immune to attack from chinch bugs.

Farm earnings were influenced indirectly by the AAA programs in that the reduction in production increased the price of the commodities involved. The drouth was a more important factor in reducing production than the adjustment programs, yet if it had not been for the corn-sealing program there would have been but little corn in the hands of farmers at the time the major price advance became effective.

Factors Helping to Analyze the Farm Business on 32
Jersey County Farms in 1954

Items	Your farm	Average of 32 farms	11 most profitable farms	11 least profitable farms
Size of farms--acres - - - - -	_____	202.0	232.0	168.0
Percent of land area tillable- - - -	_____	81.0	84.0	73.0
Percent of tillable land in hay and pasture - - - - -	_____	37.0	30.0	43.0
Gross receipts per acre- - - - -	_____	12.07	15.74	7.73
Total expenses per acre- - - - -	_____	8.75	8.52	9.54
Net receipts per acre- - - - -	_____	3.32	7.22	-1.76
Value of land per acre - - - - -	_____	65	70	60
Total investment per acre- - - - -	_____	100	109	90
Acres in Corn- - - - -	_____	44.6	57.5	31.0
Oats- - - - -	_____	13.7	16.1	7.9
Wheat - - - - -	_____	32.5	42.5	26.7
Soybeans- - - - -	_____	7.1	14.4	1.4
Hay - - - - -	_____	24.7	29.5	22.5
Tillable pasture- - - - -	_____	35.3	29.8	29.9
Crop yields--Corn, bu. per acre- - -	_____	8.5	6.8	5.2
Oats, bu. per acre- - -	_____	13.8	22.1	7.7
Wheat, bu. per acre - -	_____	20.9	24.0	16.8
Soybeans, bu. per acre-	_____	13.5	17.1	10.0
Value of feed fed to productive L.S.	_____	1 570	2 071	871
Returns per \$100 of feed fed to productive livestock- - - - -	_____	112	114	110
Returns per \$100 invested in:				
Cattle- - - - -	_____	112	117	98
Poultry - - - - -	_____	209	234	176
Eggs weaned per litter - - - - -	_____	6.5	6.5	6
Income per litter farrowed - - - - -	_____	73	95	45
Dairy sales per dairy cow- - - - -	_____	60	80	41
Investment in productive L.S. per A.	_____	5.01	5.21	4.37
Receipts from productive L.S. per A.	_____	8.74	10.23	5.72
Man labor cost per crop acre - - - -	_____	6.67	5.57	3.53
Machinery cost per crop acre - - - -	_____	2.13	2.07	2.55
Power and mach. cost per crop A. - -	_____	3.82	3.65	4.06
Farms with tractor - - - - -	_____	47%	55%	36%
Value of feed fed to horses- - - - -	_____	213	280	138
Man labor cost per \$100 gross income- - - - -	_____	35	25	60
Expenses per \$100 gross income - - -	_____	72	54	123
Farm improvements cost per acre- - -	_____	1.11	.95	1.48
Excess of sales over cash expenses - -	_____	1 308	1 959	823
Increase in inventory- - - - -	_____	-53	509	-315
Rate earned on investment- - - - -	_____	3.32%	6.65%	-1.96%
Gross receipts per farm- - - - -	_____	434	3 646	1 306

Chart for Studying the Efficiency of Various Parts of Your Business,
Jersey County, 1934

The numbers above the lines across the middle of the page are the averages for the 32 farms included in this report for the factors named at the top of the page. By drawing a line across each column at the number measuring the efficiency of your farm in that factor, you can compare your efficiency with that of other farmers in your locality.

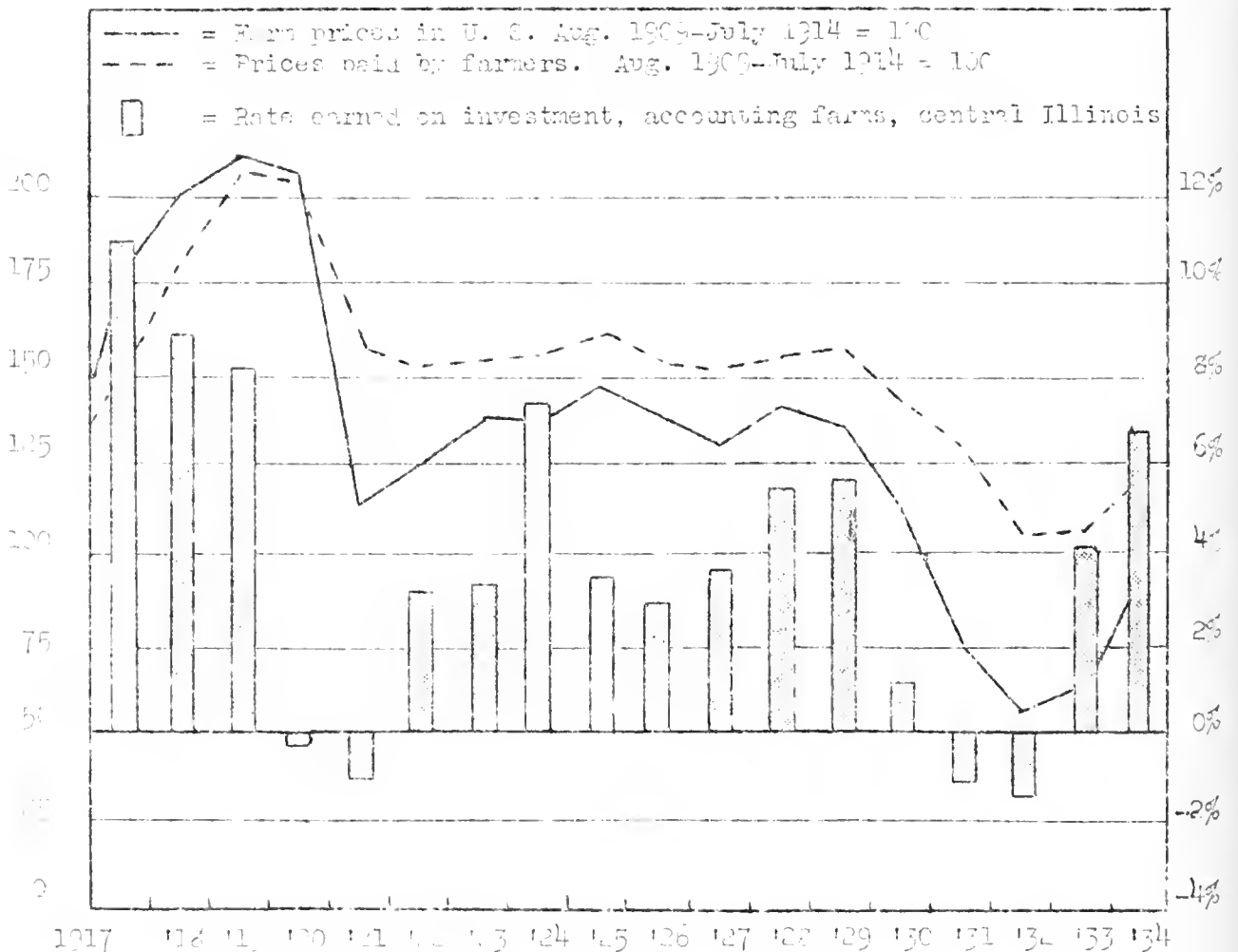
Rate earned on investment	Bushels per acre			Hogs: Income per litter	Dairy sales per dairy cow	Poultry income per \$100 invested	L.S. income per \$100 of feed fed	Cost per crop acre		Labor cost per \$100 gross receipts	Increase in inventory	Sales over cash expenses	Gross receipts		
	Corn	Oats	Wheat					Labor	Power and machinery				Per acre	Per farm	Acres in farm
13.3	23	34	31	138	110	409	237	--	--	--	1447	6500	22	5400	400
11.3	20	30	29	126	100	369	212	1.07	--	--	1147	5500	20	4800	360
9.3	17	26	27	114	90	329	187	2.47	.22	--	847	4500	18	4200	320
7.3	14	22	25	102	80	289	162	3.87	1.42	11	547	3500	16	3600	280
5.3	11	18	23	90	70	249	137	5.27	2.62	23	247	2500	14	3000	240
3.32	8.5	13.8	20.9	78	60	209	112	6.67	3.82	35	-53	1508	12.07	2434	202
1.3	5	10	19	66	50	169	87	8.07	5.02	47	-353	500	10	1800	160
-.7	2	6	17	54	40	129	62	9.47	6.22	59	-653	-500	8	1200	120
-2.7	--	2	15	42	30	89	37	10.87	7.42	71	-953	--	6	600	80
-4.7	--	--	13	30	20	49	12	12.27	8.62	83	-1253	--	4	--	40
-6.7	--	--	11	18	10	9	--	13.67	9.82	95	-1553	--	2	--	--

Influence of Price Changes on Farm Earnings

Farm prices in 1934 advanced more rapidly than did the prices of commodities which farmers bought. Farmers of the United States as a group could exchange their farm products in 1934 for 74 percent as many goods as for the period 1909-1914, while in 1933 they received only 64 percent, and 1932 only 61 percent as much in exchange for what they had to sell as in the former period. In the month of February, 1935, this index of purchasing power had increased to 87 percent of former, the index of farm prices having risen to 111 as compared with an index of 127 for commodities which farmers buy. When the line representing farm prices drops below the line representing prices paid by farmers, farm earnings are very low, but when these lines come close together farm earnings increase. (See following graph.)

Index of Prices

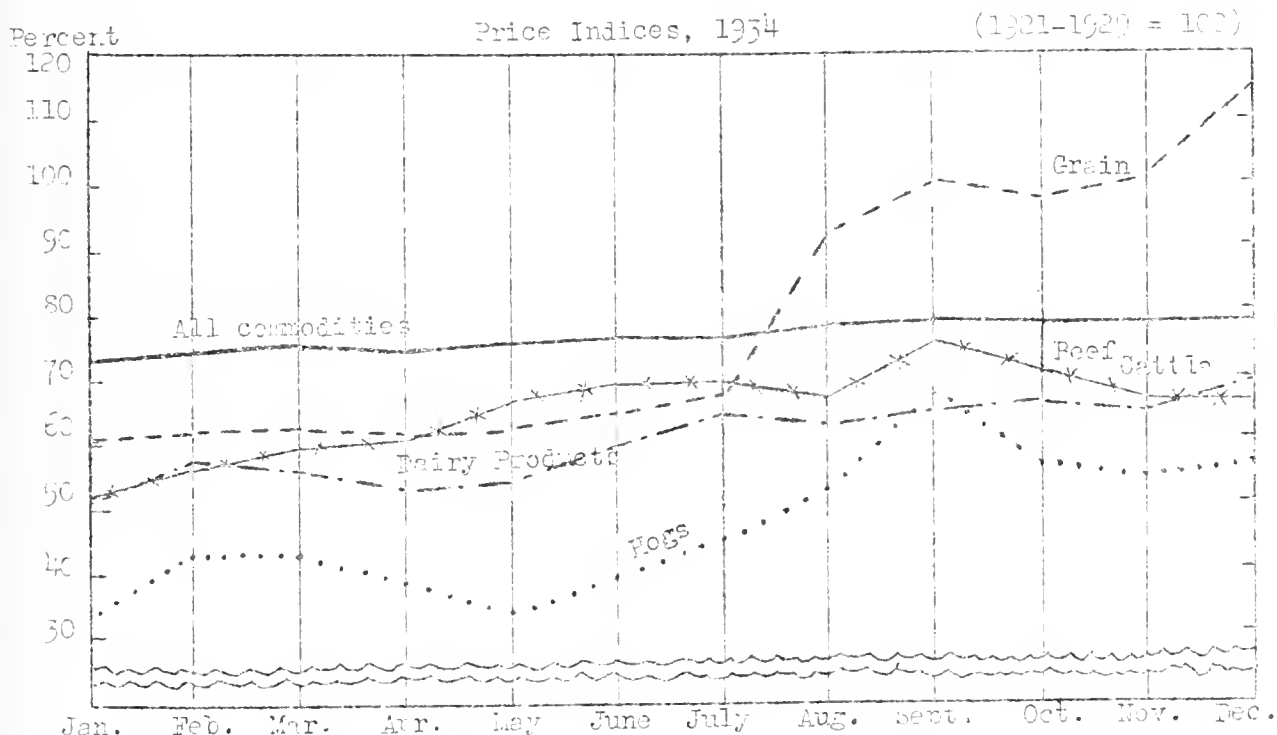
Rate Earned



Since the price of some farm products advanced much more rapidly during 1934 than other products, it is evident that some farms would benefit more than others, depending upon the kind and quantity of products sold. Grain prices advanced much more rapidly than livestock prices; which resulted in a very bad price ratio for farmers who buy large quantities of feed. The average Illinois farm price of corn was 41 cents a bushel in January, 1934; it advanced steadily until the end of the year when it was 82 cents a bushel. Other grains made marked advance although not so great an advance as corn. The price of hogs fluctuated from a low of \$5.20 a hundred in May to a high of \$6.30 in September. The low point in the fall came in November when the average price was \$5.10. The price has advanced quite rapidly since November, the average price being \$7.50 for February, 1935. Beef cattle were worth \$4.10 a hundred in January, 1934 and advanced each month until September, when the price was \$5.90. They dropped to \$5.20 in December but increased again to \$7.40 for February, 1935.

The year 1934 set a record for the reduction in the numbers of livestock. The percentage decreases by species were as follows: horses, 1.1 percent; mules, 2.6 percent; all cattle, 11.2 percent; sheep, 4.7 percent; hogs, 35.3 percent. When all species are combined on the basis of their capacity to consume feed, the reduction was 13 percent. This reduction will greatly reduce the demand for feeds produced in 1935.

The relative change in prices of important commodities may be noted in the following graph, which shows the average Illinois farm prices by months as a percentage of the average prices for the period 1921-1929.



All commodities index represents the wholesale price of a large number of commodities for the United States, as computed by Bureau of Labor Statistics. Grain and livestock indices represent average monthly farm prices in Illinois.

Variation in Earnings Over Five-Year Period

A comparison of production, income, and expenditures on the accounting farms in Jersey County for the last five years is very interesting because of the violent fluctuations in price level. Although the 1934 crop was nearly a failure and followed a smaller than average crop of 1933, the increased prices of both grain and livestock did have considerable effect in holding earnings in second place for the five-year period 1930-1934.

Earnings in 1935, as usual, will depend upon individual efficiency, weather, and prices. With normal weather conditions, prices of grain are likely to go down to a more normal level which will give individual efficiency the responsibility for higher earnings on each farm.

Comparison of Earnings and Investments on Accounting Farms in
Jersey County for 1930-1934

Items	1930 ^{1/}	1931	1932 ^{1/}	1933 ^{2/}	1934
Number of farms - - - - -	28	33	42	32	32
Average size of farms, acres- - - -	207	204	208	207	202
Average rate earned, to pay for management, risk and capital - - -	2.8%	2.2%	2.1%	3.6%	3.31%
Average labor and management wage -	\$ 3	\$-1 272	\$ -916	\$ 154	\$ 170
Gross income per acre - - - - -	15.00	7.35	6.02	12.20	12.07
Operating cost per acre - - - - -	11.27	10.11	7.99	8.30	8.75
Average value of land per acre- - -	89	86	61	73	65
Total investment per acre - - - - -	134	126	95	108	100
Investment per farm in:					
Total livestock- - - - -	2 520	2 092	1 788	1 721	1 457
Cattle - - - - -	1 211	921	859	874	659
Hogs - - - - -	598	562	326	360	281
Poultry- - - - -	151	125	115	64	66
Gross income per farm - - - - -	3 199	1 499	1 262	2 525	2 434
Income per farm from:					
Crops- - - - -	434	23	---	796	579
Miscellaneous income - - - - -	67	47	52	31	6
Total livestock- - - - -	2 608	1 427	1 200	1 698	1 766
Cattle - - - - -	254	---	127	295	225
Eairy sales- - - - -	797	473	405	434	514
Hogs - - - - -	1 290	737	512	846	841
Poultry- - - - -	250	152	128	96	55
Average yield of corn in bu.- - - -	29	35	50	37	8
Average yield of oats in bu.- - - -	32	43	32	28	14
Average yield of wheat in bu.- - - -	17	26	15	18	21

^{1/} Records from Jersey and Macoupin Counties included for 1930 and 1932.

^{2/} Records from Jersey and Greene Counties included for 1933.

ANNUAL FARM BUSINESS REPORT ON THIRTY-ONE FARMS
IN SANGAMON COUNTY, ILLINOIS, 1934

P. E. Johnston, T. R. Hedges, and J. E. Wills*

The farm earnings of 31 account-keeping farmers in Sangamon County showed an increase in 1934 over those of 1933. This is the second consecutive year of improvement in the business of these farms. The three years previous to 1933 showed very low returns.

These 31 accounts show for 1934 an average net income of \$2,068 per farm, as compared with an average of \$1,393 in 1933, and an average net loss of \$545 in 1932. The average cash income in 1934 was \$5,558 per farm, the cash business expenditures \$3,039 per farm, leaving a cash balance of \$2,299 to meet interest payments and family living expenses. (Those who keep home account books use the latter figure to represent the cash contribution of the farm to the "realized family income".) Besides the cash income, there was an inventory increase of \$386 per farm due to the rise in the prices of farm products. This increase, added to the cash balance, resulted in an average excess of receipts over expenses of \$2,685 per farm. The inventory increase was a much smaller part of the total farm income in 1934 than in 1933.

These data must not be considered representative of average farm conditions, for they were secured from farms which are larger than average, and which were managed by farmers who are more efficient than the average of all farmers in the county.

For the state as a whole, farm earnings were better in 1934 than in 1933, in spite of the fact that corn and oat yields were very low due to the drouth and to chinch bug damage. In the western and southwestern parts of the state the drouth caused an almost total failure of both corn and oats, which accounts for farm earnings being lower there than in other parts of the state.

The corn crop was best in the southeastern part of the state, and was fair in the northwestern section. Wheat yields were particularly good in the south and central portions of the state. Soybean yields were very good throughout the state, and there was a larger than normal acreage in Illinois in 1934. This state produced over half of the nation's 1934 crop of soybeans.

Chinch bug damage extended over most of the state last year, but was much more severe in some sections than in others, and was much worse on some farms than other farms in the same community. Conditions affecting crop yields were very spotted; which accounts in part for the wide variation in farm earnings from one section of the state to another, and the wider variations than usual from one farm to another.

* Edwin Bay, farm adviser in Sangamon County, cooperated in supervising and collecting the records on which this report is based.

Industries other than agriculture again showed improved earnings over the previous year. A group of 840 industrial corporations reported by a nationally known bank showed average earnings of 5.0 percent on their invested capital in 1934, as compared with 3.4 percent for the same corporations in 1933. A similar group had a loss of one-tenth of one percent in 1932, and average earnings of 3.3 percent in 1931.

In comparing the average earnings of corporations with the rate earned on investment on accounting farms, it is well to keep in mind that in corporation accounting, charges are made for management, while in the farm accounts no comparable deduction has been made. On the other hand, the farmer and his family receive food, fuel, and other items of living from the farm for which the farm has received no credit in the records used in this report. For the average central Illinois farm family, consisting of five persons, the value of the food and fuel furnished by the farm was about \$250 in 1934, when estimated on the basis of the wholesale price for farm products.

Variations in Farm Incomes

There was a much wider range in farm earnings on the accounting farms in 1934 than in 1933. This was true for the farms included in this report, and was also true when the average earnings of farms in one section of the state are compared with the earnings of farms in other areas.

The extremely wide range in earnings was due to a combination of physical and economic factors. The average yields of wheat and soybeans were much better, compared with the five-year average, than the average yields of corn and oats. This variation favored those sections which had larger acreages of the higher yielding crops in 1934. There was also a wide range in average corn yields from one section of the state to another, as well as between individual farms in the same area. The price of grains was high in 1934 as compared with prices of livestock and livestock products. Farms where grain sales constitute a large part of the farm income thus had an advantage. The rapid increase in the prices of farm products, particularly grains, favored those farms which had large stocks of salable products on hand at the beginning of the year. Many farmers who inventoried the corn on hand at the beginning of 1934 at 40 cents a bushel, later sold this corn for 30 cents.

In this group of 31 accounting farms the most successful third shows an average net income of \$3,377, while the average net income of the least successful third of the farms was only \$383. In 1933 the comparable net incomes for the two groups was \$2,433, and \$404 respectively.

Investments, Receipts, Expenses and Earnings on 31
Seagamon County farms in 1934

Items	Your farm	Average of 31 farms	10 most profitable farms	10 least profitable farms
CAPITAL INVESTMENTS				
Land - - - - -		31 607	29 491	28 340
Farm improvements- - - - -		4 073	4 490	3 501
Livestock total- - - - -		<u>2 281</u>	<u>1 888</u>	<u>2 377</u>
Horses - - - - -		510	496	424
Cattle - - - - -		1 166	869	1 226
Hogs - - - - -		465	402	564
Sheep- - - - -		80	69	80
Poultry- - - - -		60	52	83
Machinery and equipment- - - - -		1 434	1 275	1 653
Feed and grains- - - - -		1 578	1 899	1 441
Total capital investment	\$	\$40 973	\$39 043	\$37 312
RECEIPTS AND NET INCREASES				
Livestock total- - - - -		<u>3 017</u>	<u>3 401</u>	<u>2 888</u>
Horses - - - - -		56	32	20
Cattle - - - - -		954	943	997
Hogs (including AAA payments)- - - - -		1 573	1 982	1 426
Sheep- - - - -		112	141	106
Poultry- - - - -		60	68	75
Egg sales- - - - -		78	72	119
Dairy sales- - - - -		184	158	145
Feed and grains (including AAA payments) - - - - -		1 160	2 140	---
Labor off farm - - - - -		76	128	59
Miscellaneous receipts - - - - -		---	---	---
Total receipts & net increases-	\$	\$ 4 253	\$ 5 669	\$ 2 947
EXPENSES AND NET DECREASES				
Farm improvements- - - - -		297	326	276
Horses - - - - -		---	---	---
Miscellaneous livestock decreases		---	---	---
Machinery and equipment- - - - -		373	355	435
Feed and grains- - - - -		---	---	322
Livestock expense- - - - -		43	59	44
Crop expense - - - - -		170	212	160
Hired labor- - - - -		354	420	335
Taxes- - - - -		290	292	266
Miscellaneous expenses - - - - -		33	35	31
Total expenses & net decreases	\$	\$ 1 568	\$ 1 599	\$ 1 269
RECEIPTS LESS EXPENSES-				
	\$	\$ 2 685	\$ 3 970	\$ 1 678
Total unpaid labor- - - - -		617	593	500
Operator's labor - - - - -		438	459	513
Family labor - - - - -		129	134	177
Net income from investment and management - - - - -		2 068	3 377	348
RATE EARNED ON INVESTMENT - - - - -	%	<u>5.05%</u>	<u>8.65%</u>	<u>1.04%</u>
Return to capital and operator's labor and management		2 456	3 335	901
% of capital invested-		2 048	1 952	1 365
LABOR AND MANAGEMENT WAGE - - - - -	\$	\$ 607	\$ 1 834	\$ -264

The following table shows the number of farms having certain net incomes per acre. There was a marked difference between the most successful and the least successful farms.

<u>Average net in-</u> <u>come per acre</u>	<u>Number of</u> <u>farms</u>	<u>Average net in-</u> <u>come per acre</u>	<u>Number of</u> <u>farms</u>
\$17.	2	\$ 5.	3
15.	1	3.	4
13.	2	1.	2
11.	5	-1.	1
9.	4	-3.	1
7.	5	-5.	1

A further study of the farm businesses made by comparing the investments, receipts, and expenses of the group of farms having the highest net incomes with those having the lowest, should throw some light on the question of why some farmers are more successful than others. This comparison is shown in the table on page 3.

The most successful farms averaged 273 acres each, the least successful 267 acres. The most successful farms had total capital investments of \$39,043, and total receipts and net increases of \$5,669 per farm, as compared with total capital investments of \$57,312, and total receipts and net increases of \$2,947 per farm on the least successful farms. Differences in receipts from feed and grains and hogs accounts for most of the difference in income between the two groups. The most profitable farms secured their larger income with less expense, their total farm expense, including the charge for family labor, being \$2,292 per farm, as compared with total farm expenditures of \$2,759 per farm on the least successful farms.

Changes in Inventories and Inventory Values

The year 1934 was similar to 1933 in that the prices of farm products continued to advance, causing further increases in inventory values. Owing to the poor crop yields in 1934 there were fewer bushels of grain on hand to inventory at the end of the year than at the beginning. The value of the smaller amount of grain, however, was greater than for the larger amount on hand at the beginning of the year.

Bushels of Corn Inventoried

	Jan. 1, 1934	Dec. 31, 1934
Average of all farms.	2 279	996
Average of 10 most successful farms . .	2 852	1 506
Average of 11 least successful farms. .	2 004	615
Four farm		

The most profitable farms had a much larger inventory of corn both at the beginning and end of the year. This was an important factor in accounting for their higher returns from feed and grains.

The average inventory increase for the accounting farms in Sangamon County was \$386 in 1934, as compared with \$652 in 1933, and an inventory loss of \$1,105 per farm in 1932. There were increases of \$123 in total livestock, and \$431 in feed and grains, while machinery showed a decrease of \$23, and improvements, \$145. The inventory decrease in machinery was the smallest since 1929 on account-keeping farms, and indicates that needed repairs and replacements are being made, but still not enough to offset the current depreciation costs.

Inventory Changes for 1934

Items	Beginning inventory 1-1-34	Closing inventory 12-31-34	Inventory changes 1934	Inventory changes, your farm
Total livestock.	\$2 281	\$2 404	\$123	\$
Feed and grains.	1 573	2 009	431	
Machinery.	1 434	1 411	-23	
Improvements (except residence).	4 073	3 923	-145	
Total.	\$9 366	\$9 752	\$386	\$

Some Adjustments on Sangamon County Farms Since 1929

Farmers have been forced to make adjustments in their cash expenditures as the result of changes in their cash incomes. From 1929 through 1934, farm operating costs declined each year. Total operating expenses were 46 cents an acre lower in 1934 than in 1933, while cash operating expenses were \$3,039 a farm in 1934 as compared with \$2,267 in 1933. The largest increases in expenditures over the previous year were for feed and grain, and for machinery and supplies for machinery. Indications point to an increase of spending in 1935 for repairs and replacement of machinery and improvements, since farmers have postponed purchase of these items during the five-year period since 1929.

Cash Income and Expenses on Accounting Farms in Sangamon County 1929 and 1934

Items	Your farm 1934	Average cash expense per farm 1929	Your farm 1934	Average cash income per farm. 1929
Livestock	\$ 563	\$1 161	\$	\$3 457
Feed and grains	954	936		1 683
Machinery	465	647		115
Improvements.	159	308		7
Labor	354	632		79
Miscellaneous	33	42		7
Livestock expense.	43	63		---
Crop expense.	178	312		---
Taxes	290	441		---
Total	\$3 039	\$4 545	\$	\$5 338
Excess of cash sales over expenses.			\$	\$2 299
Increase in inventory				386
Income to labor and capital (Receipts less expenses).				3 827

The cumulative effect of several years of low agricultural prices on the demand for manufactured goods can readily be ascertained by a comparison of cash farm expenditures in 1934 with those in 1929. The average cash income in 1934 was 71 percent of that in 1929, while the average cash expenditures were 67 percent as large as in 1929. In 1929 the average accounting farm in Sangamon County spent 61 percent of the cash income for operating expenses; in 1934 they spent 57 percent. The relationship between income and expenses is approximately the same for the two years. There is, however, considerable difference in the distribution of the expense items. In 1934, livestock purchases were 43 percent, and feed and grain purchases 102 percent of the 1929 expenditures. In 1934 these farms paid 72 percent as much for machinery, and 57 percent as much for crop expense as in 1929, while taxes were reduced to 66 percent of the 1929 level.

Comparison of Farms With High and Low Earnings

The most profitable farms in this study had net receipts per acre of \$12.35, as compared with \$1.45 per acre for the least profitable group. The reason for this difference may be obtained from a study of the data on pages 3 and 8.

The most profitable farms were larger, and carried larger inventories of feed and grain on which to make a profit when the prices advanced. One reason for the larger inventories, however, was the higher crop yields, there being an advantage of 15.7 bushels of corn, 2.7 bushels of oats, 8.3 bushels of wheat, and 14.1 bushels of soybeans in favor of the high profit farms. Crop yields were so low on the least profitable farms that, in spite of the advance in prices of these items, they had an average inventory decrease in the feed and grain account of \$124 per farm, while the most profitable farms had an average inventory increase in feed and grains of \$396 per farm.

The most profitable farms had an investment in productive livestock of \$5.82 per acre, and fed \$2,212 of feed per farm, as compared with \$7.44 invested per acre and \$2,308 of feed fed per farm, on the least profitable farms. The productive livestock on the most profitable farms returned \$152 for each \$100 of feed fed, as compared with a return of \$124 for each \$100 of feed fed on the least profitable farms. The income per litter farrowed was \$85 on the most profitable farms, as compared with \$75 on the least profitable farms.

The larger income on the most profitable farms was secured with a total operating cost of \$1.39 per acre, as compared with \$9.53 per acre on the least profitable farms. Man labor costs per crop acre were \$4.93 on the most profitable farms, as compared with \$5.06 on the least profitable farms, while power and machinery costs per crop acre amounted to \$7.42 on the most profitable farms, and \$8.62 on the least profitable farms.

The Influence of AAA Programs on Cropping Systems and Farm Incomes

The farm-account records in Illinois were influenced both directly and indirectly by the corn-hog and wheat adjustment programs. A large percentage of accounting farms were under one or both contracts in 1934. The acreages of corn and wheat on these farms were therefore less than normal. This should have resulted in lower operating costs. Corn-hog benefit payments for the entire 1934 program will total about 40 million dollars for the state, while wheat benefit payments will be about 2.4 million dollars.

The benefit payments for accounting farms are indicated in the following table, which shows the average payment for those farms receiving payments and includes only those payments received by the cooperator before the 1934 books were closed. In some cases only the first corn-hog check is included, while in other cases the second check had been received. The second payments not received and the third payments will be entered in the 1935 book.

AAA Benefit Payments Received in 1934

	Corn		Wheat		Hogs		Average of all payments ^{1/}
	Number of farms	Amount per farm	Number of farms	Amount per farm	Number of farms	Amount per farm	
1/3 most profitable farms	10	\$132	6	\$214	8	\$276	\$482
1/3 least profitable farms	8	130	7	114	8	130	289
All accounting farms	29	145	18	220	27	205	442

^{1/} Total benefit payments reported by accounting farms under contract for 1934 divided by total number of accounting farms.

On many farms the cash received from benefit payments will more than pay for the year's taxes. As an average for all accounting farms, the payments actually received were \$152 more than sufficient to pay the 1934 taxes.

It is interesting to note the use made of the contracted acres on the accounting farms. The average farm had 22.8 contracted acres which were used as follows: 16.9 idle; 1.2 mixed clover; 3.5 sweet clover; and 1.2 soybeans. When the Government restrictions on the use of crops grown on contracted acres were removed, they were on many farms the most profitable crops as they furnished hay and pasture where badly needed in the drouth areas. The legumes had the further advantage of being immune to attack from chinch bugs.

Farm earnings were influenced indirectly by the AAA programs in that the reduction in production increased the price of the commodities involved. The drouth was a more important factor in reducing production than the adjustment programs, yet if it had not been for the corn-sealing program there would have been but little corn in the hands of farmers at the time the major price advance became effective.

Factors Helping to Analyze the Farm Business on 31
Sangamon County Farms in 1934

Items	Your farm	Average of 31 farms	10 most profitable farms	10 least profitable farms
Size of farms--acres - - - - -		275.5	273.3	267.1
Percent of land area tillable- - - - -		92.4	92.5	92.8
Percent of tillable land in hay and pasture - - - - -		37.1	42.2	33.7
Gross receipts per acre- - - - -		15.44	20.74	11.03
Total expenses per acre- - - - -		7.93	11.39	9.58
Net receipts per acre- - - - -		7.51	12.35	1.45
Value of land per acre - - - - -		114	108	106
Total investment per acre- - - - -		149	143	140
Acres in Corn- - - - -		72.6	72.3	75.6
Oats- - - - -		29.7	28.3	29.9
Wheat - - - - -		28.5	22.4	30.3
Soybeans- - - - -		22.6	13.8	25.9
Hay - - - - -		33.3	46.4	28.6
Tillable pasture- - - - -		61.3	60.2	57.0
Crop yields--Corn, bu. per acre- - - - -		12.4	30.2	14.5
Oats, bu. per acre- - - - -		10.9	11.1	8.4
Wheat, bu. per acre - - - - -		25.9	29.5	21.2
Soybeans, bu. per acre- - - - -		18.3	27.2	13.1
Value of feed fed to productive L.S. - - - - -		2 180	2 212	2 308
Returns per \$100 of feed fed to productive livestock- - - - -		136	152	124
Returns per \$100 invested in:				
Cattle- - - - -		68	122	91
Poultry - - - - -		223	246	237
Pigs weaned per litter - - - - -		5.5	6.5	6.0
Income per litter farrowed - - - - -		74	35	75
Dairy sales per dairy cow- - - - -		43	66	24
Investment in productive L.S. per A. - - - - -		6.64	5.82	7.44
Receipts from productive L.S. per A. - - - - -		10.75	12.33	10.74
Man labor cost per crop acre - - - - -		4.86	4.93	5.06
Machinery cost per crop acre - - - - -		1.93	1.84	2.28
Power and mach. cost per crop A. - - - - -		3.27	3.42	3.62
Farms with tractor - - - - -		61%	70%	50%
Value of feed fed to horses- - - - -		315	335	277
Man labor cost per \$100 gross income- - - - -		22	17	33
Expenses per \$100 gross income - - - - -		51	40	87
Farm improvements cost per acre- - - - -		1.08	1.19	1.03
Excess of sales over cash expenses - - - - -		2 299	2 850	1 375
Increase in inventory- - - - -		386	1 120	-297
Rate earned on investment- - - - -		5.05%	8.65%	1.04%
Gross receipts per farm- - - - -		4 253	5 669	2 947

Chart for Studying the Efficiency of Various Parts of Your Business,
Sangamon County, 1934

The numbers above the lines across the middle of the page are the averages for the 31 farms included in this report for the factors named at the top of the page. By drawing a line across each column at the number measuring the efficiency of your farm in that factor, you can compare your efficiency with that of other farmers in your locality.

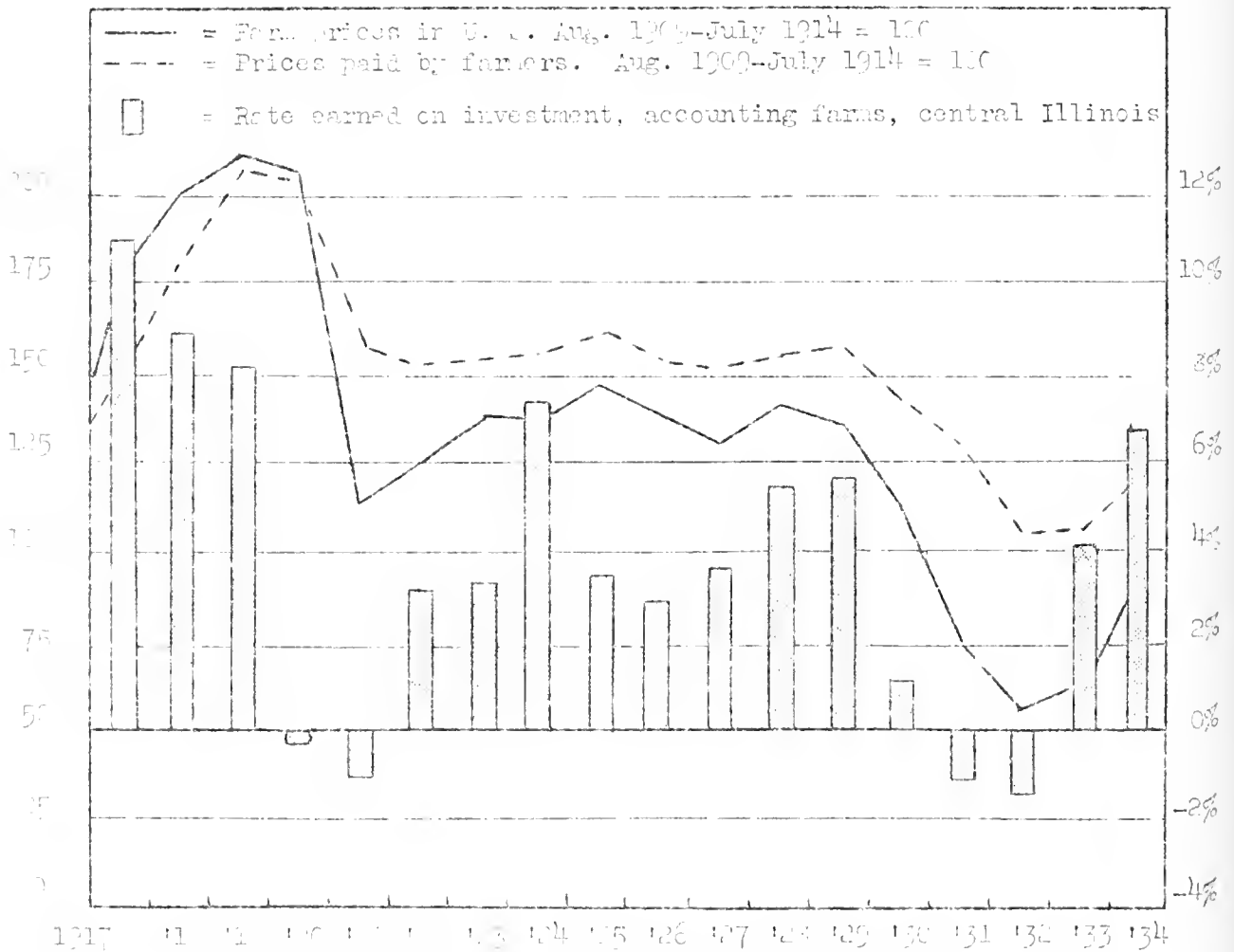
Rate earned on investment	Bushels per acre			Hogs: Income per litter	Dairy sales per dairy cow	Poultry income per \$100 invested	L.S. income per \$100 of feed fed	Cost per crop acre		Labor cost per \$100 gross receipts	Increase in inventory	Sales over cash expenses	Gross receipts		Acres in farm
	Corn	Oats	Wheat					Labor	Power and machinery				Per acre	Per farm	
12.5	37	31	41	149	83	373	236	--	.27	--	3386	6300	35	9300	576
11.0	32	27	38	134	75	343	216	.86	.87	--	2786	5500	31	8300	516
9.5	27	23	35	119	57	313	196	1.86	1.47	4	2186	4700	27	7300	456
8.0	22	19	32	104	49	283	176	2.86	2.07	10	1536	3900	23	6300	356
6.5	17	15	29	89	51	253	156	3.86	2.67	16	986	3100	19	5300	336
5.05	12.4	10.9	25.9	74	43	223	136	4.86	3.27	22	386	2299	15.44	4253	275.5
3.5	7	7	23	59	35	193	116	5.86	3.87	28	-211	1500	11	3300	216
2.0	2	3	20	44	27	163	96	6.86	4.47	34	-811	700	7	2300	156
.5	--	--	17	29	19	133	76	7.86	5.07	40	-1411	--	3	1300	96
-1.0	--	--	14	14	11	103	56	8.86	5.67	46	-2011	--	--	300	36
-2.5	--	--	11	--	3	73	36	9.86	6.27	52	-2611	--	--	--	--

Influence of Price Changes on Farm Earnings

Farm prices in 1934 advanced more rapidly than did the prices of commodities which farmers bought. Farmers of the United States as a group could exchange their farm products in 1934 for 74 percent as many goods as for the period 1909-1914, while in 1934 they received only 64 percent, and 1933 only 61 percent as much in exchange for what they had to sell as in the earlier period. In the month of February, 1935, this index of purchasing power had increased to 77 percent of prewar, the index of farm prices having risen to 111 as compared with an index of 127 for commodities which farmers buy. When the line representing farm prices drops below the line representing prices paid by farmers, farm earnings are very low, but when these lines come close together farm earnings increase. (See following graph.)

Index of Prices

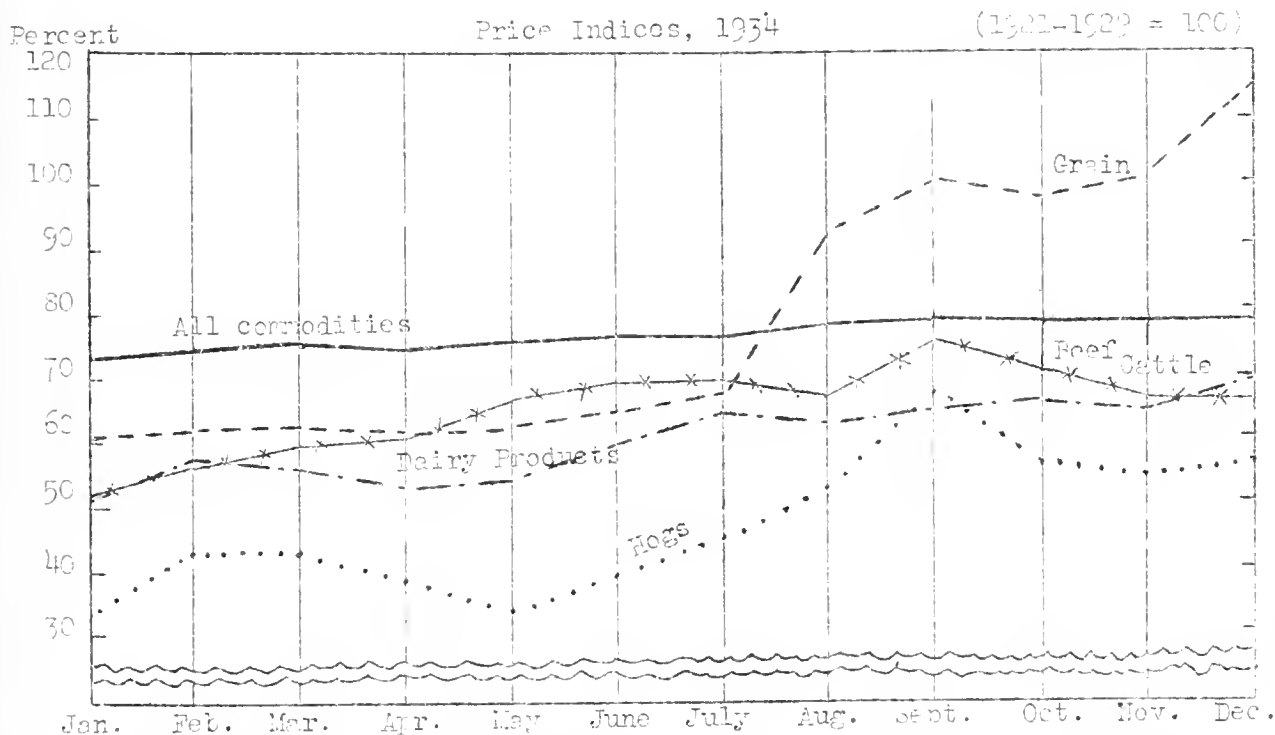
Rate Earned



Since the price of some farm products advanced much more rapidly during 1934 than other products, it is evident that some farms would benefit more than others, depending upon the kind and quantity of products sold. Grain prices advanced much more rapidly than livestock prices; which resulted in a very bad price ratio for farmers who buy large quantities of feed. The average Illinois farm price of corn was 41 cents a bushel in January, 1934; it advanced steadily until the end of the year when it was 86 cents a bushel. Other grains made marked advance although not so great an advance as corn. The price of hogs fluctuated from a low of \$5.80 a hundred in May to a high of \$6.30 in September. The low point in the fall came in November when the average price was \$5.10. The price has advanced quite rapidly since November, the average price being \$7.50 for February, 1935. Beef cattle were worth \$4.10 a hundred in January, 1934 and advanced each month until September, when the price was \$5.90. They dropped to \$5.20 in December but increased again to \$7.40 for February, 1935.

The year 1934 set a record for the reduction in the numbers of livestock. The percentage decreases by species were as follows: horses, 1.1 percent; mules, 2.6 percent; all cattle, 11.2 percent; sheep, 4.7 percent; hogs, 35.3 percent. When all species are combined on the basis of their capacity to consume feed, the reduction was 13 percent. This reduction will greatly reduce the demand for feeds produced in 1935.

The relative change in prices of important commodities may be noted in the following graph, which shows the average Illinois farm prices by months as a percentage of the average prices for the period 1921-1929.



All commodities index represents the wholesale price of a large number of commodities for the United States, as computed by Bureau of Labor Statistics. Grain and livestock indices represent average monthly farm prices in Illinois.

Variation in Earnings Over Five-Year Period

A comparison of production, income, and expenditures on the accounting farms in Sangamon County for the last five years is very interesting because of the violent changes in price level. 1934 was the second year of very low crop yields, yet total receipts per farm were higher than in any other year since 1930, and were 69 percent of the 1929 gross receipts. Operating costs per acre were lower than in any year of the five. Thus profits were the best the county had experienced since 1929.

Earnings in 1935 as usual will depend upon individual efficiency, weather, and prices. A normal year will mean larger yields of grain and probably lower prices.

Comparison of Earnings and Investments on Accounting Farms in
Sangamon County for 1930-1934

Items	1930	1931	1932	1933	1934
Number of farms - - - - -	36	34	32	30	31
Average size of farms, acres- - -	266	268	253	243	276
Average rate earned, to pay for management, risk and capital - -	1.9%	-1.7%	-1.3%	3.7%	5.0%
Average labor and management wage	\$-162	\$-2 711	\$-2 085	\$ 17	\$508
Gross income per acre - - - - -	16.40	7.58	6.58	14.13	15.44
Operating cost per acre - - - - -	12.40	10.71	8.74	8.39	7.93
Average value of land per acre- -	154	141	127	124	114
Total investment per acre - - - -	263	182	163	156	149
Investment per farm in:					
Total livestock- - - - -	3 542	2 834	2 413	1 904	2 281
Cattle - - - - -	1 520	1 272	1 112	900	1 166
Hogs - - - - -	1 079	816	632	419	455
Poultry- - - - -	125	114	92	75	60
Gross income per farm - - - - -	4 360	2 031	1 666	3 429	4 253
Income per farm from:					
Crops- - - - -	723	---	---	1 433	1 150
Miscellaneous income - - - -	95	89	30	21	---
Total livestock- - - - -	3 542	1 942	1 623	1 955	3 017
Cattle - - - - -	1 545	1 342	1 122	1 063	1 166
Dairy sales- - - - -	365	357	355	229	184
Hogs - - - - -	2 250	1 103	739	1 093	1 573
Poultry- - - - -	104	127	109	119	60
Average yield of corn in bu.- - -	34	43	56	32	12
Average yield of wheat in bu. - -	23	27	20	20	26

ANNUAL FARM BUSINESS REPORT ON FIFTY-SEVEN FARMS
IN MORGAN, SCOTT, AND GREENE COUNTIES, ILLINOIS, 1934

P. E. Johnston, J. E. Wills, and E. L. Sauer*

Farm earnings on the 57 accounting farms in Morgan, Scott, and Greene Counties averaged 4.68 percent for 1934. This is the second highest return during the past five years, 1933 having the highest with an average return of 4.9 percent. The 1934 return is remarkable considering the severe drouth and chinch bug damage.

These 57 accounts show for 1934 an average net income of \$1551 per farm, as compared with an average of \$1,394 in 1933, and an average net loss of \$524 in 1932. The average cash income in 1934 was \$4,824 per farm, the cash business expenditures \$2,528 per farm, leaving a cash balance of \$2,296 to meet interest payments and family living expenses. (Those who keep home account books use the latter figure to represent the cash contribution of the farm to the "realized family income".) The low yields were directly responsible for the decrease in inventory of \$53 a farm. This decrease, deducted from the cash balance, resulted in an average excess of receipts over expenses of \$2,243 a farm.

These data must not be considered representative of average farm conditions, for they were secured from farms which are larger than average, and which were managed by farmers who are more efficient than the average of all farmers in the county.

For the state as a whole, farm earnings were better in 1934 than in 1933, in spite of the fact that corn and oat yields were very low due to the drouth and to chinch bug damage. In the western and southwestern parts of the state the drouth caused an almost total failure of both corn and oats. This accounts for farm earnings being lower there than in other parts of the state.

The corn crop was best in the southeastern part of the state, and was fair in the northwestern section. Wheat yields were particularly good in the south and central portions of the state. Soybean yields were very good throughout the state, and there was a larger than normal acreage in Illinois in 1934. This state produced over half of the nation's 1934 crop of soybeans.

Chinch bug damage extended over most of the state last year, but was much more severe in some sections than in others, and was much worse on some farms than on other farms in the same community. Conditions affecting crop yields were very spotted. This accounts in part for the wide variation in farm earnings from one section of the state to another, and the wider variations than usual from one farm to another.

* I. E. Paret, J. L. Iftner, and G. E. Hunt, farm advisers in the above Counties, cooperated in supervising and collecting the records on which this report is based.

Industries other than agriculture again showed improved earnings over the previous year. A group of 840 industrial corporations reported by a nationally known bank showed average earnings of 5.0 percent on their invested capital in 1934, as compared with 3.4 percent for the same corporations in 1933. A similar group had a loss of one-tenth of one percent in 1932, and average earnings of 3.3 percent in 1931.

In comparing the average earnings of corporations with the rate earned on investments on accounting farms, it is well to keep in mind that in corporation accounting charges are made for management, while in the farm accounts no comparable deduction has been made. On the other hand the farmer and his family receive food, fuel, and other items of living from the farm for which the farm has received no credit in the records used in this report. For the average central Illinois farm family, consisting of five persons, the value of the food and fuel furnished by the farm was about \$250 in 1934, when estimated on the basis of the wholesale price for farm products.

Variations in Farm Incomes

There was a much wider range in farm earnings on the accounting farms in 1934 than in 1933. This was true for the farms included in this report, and it was also true when the average earnings of farms in one section of the state were compared with the earnings of farms in other areas.

The extremely wide range in earnings was due to a combination of physical and economic factors. The average yields of wheat and soybeans was much better compared with the five-year average, than the average yields of corn and oats. This variation favored those sections which had larger acreages of the higher yielding crops in 1934. There was also a wide range in average corn yields from one section of the state to another, as well as between individual farms in the same area. The price of grains was high in 1934 as compared with prices of livestock and livestock products. Farms where grain sales constitute a large part of the farm income thus had an advantage. The rapid increase in the prices of farm products, particularly grains, favored those farms which had large stocks of salable products on hand at the beginning of the year. Many farmers who inventoried the corn on hand at the beginning of 1934 at 40 cents a bushel, later sold this corn for 80 cents.

In this group of 57 accounting farms the most successful third shows an average net income of \$3,400, while the average net income of the least successful third of the farms was only \$14. In 1933 the comparable net incomes for the two groups was \$2,503 and \$37 respectively.

Investments, Receipts, Expenses and Earnings on 57
Morgan, Scott, and Greene County Farms in 1934

Items	Your farm	Average of 57 farms	19 most profitable farms	19 least profitable farms
CAPITAL INVESTMENTS				
Land - - - - -		24 736	31 184	19 039
Farm improvements- - - - -		3 602	3 885	3 176
Livestock total- - - - -		<u>1 797</u>	<u>2 335</u>	<u>1 475</u>
Horses - - - - -		440	574	347
Cattle - - - - -		858	1 218	691
Hogs - - - - -		390	467	302
Sheep- - - - -		38	15	59
Poultry- - - - -		71	61	76
Machinery and equipment- - -		1 306	1 496	976
Feed and grains- - - - -		1 697	2 233	1 178
Total capital investment -	\$ _____	\$33 138	\$41 133	\$25 844
RECEIPTS AND NET INCREASES				
Livestock total- - - - -		<u>2 472</u>	<u>3 542</u>	<u>1 786</u>
Horses - - - - -		30	76	13
Cattle - - - - -		696	1 467	311
Hogs (including AAA payments)		1 335	1 652	1 055
Sheep- - - - -		54	34	56
Poultry- - - - -		48	65	41
Egg sales- - - - -		70	87	53
Dairy sales- - - - -		239	161	257
Feed and grains (including AAA payments) - - - - -		1 044	2 269	---
Labor off farm - - - - -		61	57	27
Miscellaneous receipts - - -		9	2	3
Total receipts & net increases	\$ _____	\$ 3 586	\$ 5 870	\$ 1 816
EXPENSES AND NET DECREASES				
Farm improvements- - - - -		184	207	169
Horses - - - - -		---	---	---
Miscellaneous livestock decreases		---	---	---
Machinery and equipment- - -		374	489	268
Feed and grains- - - - -		---	---	50
Livestock expense- - - - -		32	36	21
Crop expense - - - - -		183	289	108
Hired labor- - - - -		259	378	148
Taxes- - - - -		284	332	258
Miscellaneous expenses - - -		27	32	27
Total expenses & net decreases	\$ _____	\$ 1 343	\$ 1 763	\$ 1 049
RECEIPTS LESS EXPENSES- - - - -				
Total unpaid labor- - - - -		692	707	723
Operator's labor - - - - -		512	511	515
Family labor - - - - -		180	196	208
Net income from investment and management - - - - -		1 551	3 400	44
RATE EARNED ON INVESTMENT - - - -	_____ %	<u>4.68%</u>	<u>8.26%</u>	<u>0.17%</u>
Return to capital and operator's labor and management - - - - -		2 063	3 911	559
5% of capital invested- - - - -		1 657	2 057	1 292
LABOR AND MANAGEMENT WAGE - - - -	\$ _____	\$ 406	\$ 1 854	\$ -733

The following table shows the number of farms having certain net incomes per acre. There was a marked difference between the most successful and the least successful farms.

<u>Average net income</u> <u>per acre</u>	<u>Number of</u> <u>farms</u>	<u>Average net income</u> <u>per acre</u>	<u>Number of</u> <u>farms</u>
\$15 and over	3	\$3	11
13.	4	1	7
11.	1	-1	2
9.	4	-3	4
7.	6	-5	1
5.	14		

A further study of the farm businesses made by comparing the investments, receipts and expenses of the group of farms with the highest net income, with those having the lowest net income, should throw some light on the the question of why some farmers are more successful than others. This comparison is shown in the table on page 3.

The most successful farms averaged 330 acres each, the least successful 227 acres. This difference in size accounts in part for the variation in the average investment, receipts, and expenses in the two groups. Difference in receipts from the sales of grains, cattle, and hogs accounts for much of the difference in income between the two groups. Although the expenses per farm were higher on the most profitable farms, the total expense per acre, including the charge for family labor, was less than it was on the least profitable farms.

The year 1934 was similar to 1933 in that the prices of farm products continued to advance. Owing to the extremely poor yields in Morgan, Scott, and Greene Counties, the value of grain at the end of the year was not as much as at the beginning, even though prices of grain had more than doubled. This condition was aggravated by the fact that these counties have considerable livestock and, with very little feed produced, farmers were compelled to buy grain at a high price while livestock prices remained still relatively low.

Bushels of Corn Inventoried

	Jan. 1, 1934	Dec. 31, 1934
Average of all farms	2 509	637
Average of 19 most successful farms	3 049	1 287
Average of 19 least successful farms	1 951	136
Your farm		

The most profitable farms had a much larger inventory of corn both at the beginning and end of the year. This is one of the major factors in accounting for their higher returns from feed and grains.

The decrease in inventory for the 57 accounting farms in Morgan, Scott, and Greene Counties averaged \$53 in 1934. The 1933 inventory values increased \$507 per farm, while in 1932 there was an inventory decrease of \$902 per farm. The decreases in 1934 were: feed and grain \$46, machinery \$11, and improvements \$50, while livestock showed an increase of \$54. The decrease in machinery was the smallest on account-keeping farms since 1929, and indicates that needed repairs and replacements are being made, but still not enough to offset the current depreciation costs.

Inventory Changes for 1934

Items	Beginning inventory 1-1-34	Closing inventory 12-31-34	Inventory changes 1934	Inventory changes, your farm
Total livestock.	\$1 797	\$1 851	\$ 54	\$
Feed and grains.	1 697	1 651	-46	
Machinery.	1 306	1 295	-11	
Improvements (except residence).	3 602	3 552	-50	
Total.	\$8 402	\$8 349	-\$53	\$

Some Adjustments on Morgan, Scott, and Greene County Farms Since 1929

Farmers have been forced to make adjustments in their cash expenditures as the result of changes in their cash incomes. From 1929 through 1933 farm operating costs declined each year, but the year 1934 brought a reversal of this trend. Total operating expenses were 52 cents an acre higher in 1934 than in 1933, while cash operating expenses were \$2,528 a farm in 1934, as compared with \$1,628 in 1933. Due to the drouth and the resultant very low crop yields, it was necessary for the farms in this study to purchase \$453 more food than in 1933. There was also a noticeable increase in expenditure over the previous year for livestock, machinery, improvements, and crop expenses, while a decrease occurred in expenditure for taxes. If this area has more favorable weather and crop conditions in 1935, so as to increase their farm income, indications point to an increase of spending for repairs and replacement of machinery and improvements, since farmers have postponed purchase of these items during the five-year period since 1929.

Cash Income and Expenses on Accounting
Farms in Morgan, Scott, and Greene Counties for 1929 and 1934

Items	Your farm 1934	Average cash expense per farm		Your farm 1934	Average cash income per farm	
		1934	1929		1934	1929
Livestock	\$	\$ 439	\$ 619	\$	\$2 857	\$3 598
Feed and grains		683	663		1 773	1 250
Machinery		473	541		110	52
Improvements.		148	189		14	2
Labor		259	453		61	53
Miscellaneous		27	28		9	28
Livestock expense		32	35		---	---
Crop expense.		183	195		---	---
Taxes		284	310		---	---
Total	\$	\$2 528	\$3 033	\$	\$4 824	\$4 983
Excess of cash sales over expenses.	\$			\$	\$2 296	"1 950
Increase in inventory					-53	520
Income to labor and capital (Receipts less expenses).					2 243	2 470

The cumulative effect of several years of low agricultural prices on the demand for manufactured goods can readily be ascertained by a comparison of cash farm expenditures in 1934 with those in 1929. Although the average cash income in 1934 was 97 percent of that in 1929, cash expenditures were only 83 percent as large. In 1934 livestock purchases were 71 percent, and feed and grain purchases 103 percent as large as in 1929. In 1934 these farms paid out 87 percent as much for machinery, and 94 percent as much for crop expense as in 1929, while taxes were reduced to 92 percent of the 1929 level.

Comparison of Farms With High and Low Earnings

The most profitable farms in this study had net receipts per acre of \$10.32, as compared with \$0.19 for the least profitable group. The reasons for this difference may be obtained from a study of the data on pages 3 and 8.

The most profitable farms in this study averaged 134.9 more tillable acres than the least profitable farms. They had 39.4 acres more corn, 4.4 acres more oats, 45.4 acres more wheat, 15.9 acres more soybeans, 7.1 acres more hay than the least profitable farms. The larger acreage of wheat, soybeans, and hay together with the higher yielding crops in 1934, was an important factor in accounting for the higher returns from feed and grains on the most profitable farms. The most profitable farms carried larger inventories of feed and grains, on which to make a profit when prices advanced. The most profitable farms obtained higher crop yields, producing 12.7 bushels more corn, 9.4 bushels more oats, 11.0 bushels more wheat, and 1.1 bushels more soybeans per acre than the least profitable farms. Crop yields were so low on the least profitable farms that there was an average inventory loss of \$750 per farm in spite of the price advance.

The most profitable farms were more intensive, and more efficient in their livestock production than the least profitable farms. They had an investment in productive livestock of \$5.72 per acre, and fed \$3,044 of feed per farm, as compared with \$4.52 invested per acre, and \$1,751 of feed fed per farm, on the least profitable farms. The productive livestock on the most profitable farms returned \$114 for each \$100 of feed fed, as compared with a return of \$101 for each \$100 of feed fed on the least profitable farms. The most profitable farms had an income of \$87 per litter farrowed, as compared with \$71 on the least profitable farms. There were returns of \$134 for each \$100 invested in cattle on the most profitable farms, as compared with returns of \$89 per \$100 invested in cattle on the low profit group.

The larger income on the most profitable farms was secured with a total operating cost of \$7.49 per acre, as compared with \$7.81 per acre for the least profitable farms. The man labor cost per crop acre on the most profitable farms was \$4.27, as compared with \$7.14 per crop acre on the least profitable farms, while the power and machinery cost per crop acre was \$2.99 on the most profitable farms, and \$4.05 per crop acre for the low-profit group.

Influence of AAA Programs on Cropping Systems and Farm Incomes

The farm-account records in Illinois were influenced both directly and indirectly by the corn-hog and wheat adjustment programs. A large percentage of accounting farms were under one or both contracts in 1934. The acreages of corn and wheat on these farms were therefore less than normal. This should have resulted in lower operating costs. Corn-hog benefit payments for the entire 1934 program will total about 40 million dollars for the state, while wheat benefit payments will be about 2.4 million dollars.

The benefit payments for accounting farms are indicated in the following table, which shows the average payment for those farms receiving payments, and includes only those payments received by the cooperator before the 1934 books were closed. In some cases only the first corn-hog check is included, while in other cases the second check had been received. The second payments not received and the third payments will be entered in the 1935 book.

AAA Benefit Payments Received in 1934

	Corn		Wheat		Hogs		Average of all payments ^{1/}
	Number of farms	Amount per farm	Number of farms	Amount per farm	Number of farms	Amount per farm	
1/3 most profitable farms	19	\$167	13	\$264	17	\$239	\$562
1/3 least profitable farms	18	106	6	260	17	156	331
All accounting farms	56	132	32	253	52	204	458

^{1/} Total benefit payments reported by accounting farms under contract for 1934 divided by total number of accounting farms.

On most farms the cash secured from benefit payments will more than pay for the year's taxes. As an average of all accounting farms in this study, the payments actually received were \$174 more than sufficient to pay the 1934 taxes.

It is interesting to note the use made of the contracted acres on the accounting farms. The average farm had 26.6 contracted acres which were used as follows: 4.5 idle; 3.3 red clover; 3.7 sweet clover; 3.7 soybeans; 0.6 alfalfa and 5.8 acres were in other crops. These data indicate that most farmers made good use of their contracted acres from the standpoint of soil improvement, as a large part of them were in legumes. When the Government restrictions on the use of crops grown on contracted acres were removed, they were on many farms the most profitable crops as they furnished hay and pasture where badly needed in drouth areas. The legumes had the further advantage of being immune to attack from chinch bugs.

Farm earnings were influenced indirectly by the AAA programs in that the reduction in production increased the price of the commodities involved. The drouth was a more important factor in reducing production than the adjustment programs, yet if it had not been for the corn-sealing program there would have been but little corn in the hands of farmers at the time the major price advance became effective.

Factors Helping to Analyze the Farm Business on 57
Morgan, Scott, and Green County Farms in 1934

Items	Your farm	Average of 57 farms	19 most profitable farms	19 least profitable farms
Size of farms--acres - - - - -		275.7	329.6	227.0
Percent of land area tillable- - -		81.0	89.3	70.2
Percent of tillable land in hay and pasture - - - - -		23.7	22.0	26.7
Gross receipts per acre- - - - -		13.01	17.81	8.00
Total expenses per acre- - - - -		7.38	7.49	7.81
Net receipts per acre- - - - -		5.63	10.32	.19
Value of land per acre - - - - -		90	95	84
Total investment per acre- - - - -		120	125	114
Acres in Corn- - - - -		68.1	83.9	49.5
Oats- - - - -		19.7	21.0	16.6
Wheat - - - - -		42.8	64.2	18.8
Soybeans- - - - -		9.8	20.6	4.7
Hay - - - - -		26.2	30.0	22.9
Tillable pasture- - - - -		46.1	53.4	41.1
Crop yields--Corn, bu. per acre- -		11.7	17.7	5.0
Oats, bu. per acre- -		13.7	13.2	9.8
Wheat, bu. per acre -		25.0	29.3	18.3
Soybeans, bu. per acre		15.3	15.8	14.7
Value of feed fed to productive L.S.		2 274	3 044	1 751
Returns per \$100 of feed fed to productive livestock- - - - -		107	114	101
Returns per \$100 invested in:				
Cattle- - - - -		114	134	89
Poultry - - - - -		171	227	138
Pigs weaned per litter - - - - -		5.7	5.6	5.9
Income per litter farrowed - - - -		79	87	71
Dairy sales per dairy cow- - - - -		50	45	48
Investment in productive L.S. per A.		4.94	5.72	4.52
Receipts from productive L.S. per A.		8.36	10.52	7.81
Man labor cost per crop acre - - -		5.21	4.27	7.14
Machinery cost per crop acre - - -		2.11	2.03	2.27
Power and mach. cost per crop A. -		3.44	2.99	4.05
Farms with tractor - - - - -		73.6%	95%	52.6%
Value of feed fed to horses- - - -		265	306	224
Man labor cost per \$100 gross income- - - - -		26	18	46
Expenses per \$100 gross income - -		57	42	98
Farm improvements cost per acre- -		.67	.63	.74
Excess of sales over cash expenses		2 296	3 151	1 517
Increase in inventory- - - - -		-53	956	-750
Rate earned on investment- - - - -		4.63%	8.26%	0.17%
Gross receipts per farm- - - - -		3 586	5 870	1 816

Chart for Studying the Efficiency of Various Parts of Your Business,
Morgan, Scott, and Greene Counties, 1934

The numbers above the lines across the middle of the page are the averages for the 57 farms included in this report for the factors named at the top of the page. By drawing a line across each column at the number measuring the efficiency of your farm in that factor, you can compare your efficiency with that of other farmers in your locality.

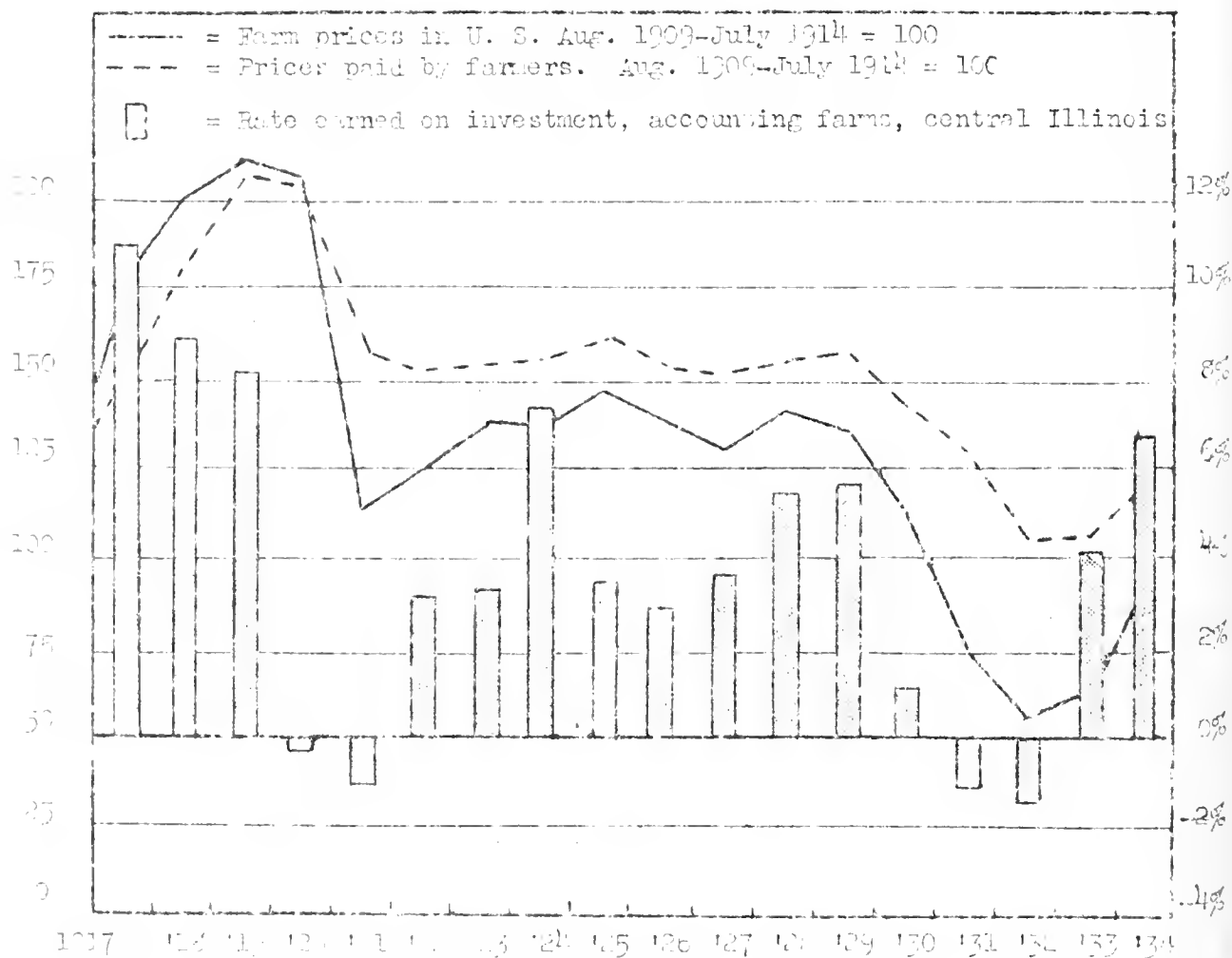
Rate earned on investment	Bushels per acre			Hogs: Income per litter	Dairy sales per dairy cow	Poultry income per \$100 invested	L.S. income per \$100 of feed fed	Cost per crop acre		Labor cost per \$100 gross receipts	Increase in inventory	Sales over cash expenses	Gross receipts		Acres in farm
	Corn	Oats	Wheat					Labor	Power and machinery				Per acre	Per farm	
14.68	27	34	35	154	100	371	157	--	--	--	2950	4800	23	7100	525
12.68	24	31	33	139	90	331	147	.25	--	--	2350	4300	21	6400	475
10.68	21	28	31	124	80	291	137	1.50	.44	5	1750	3800	19	5700	425
8.68	18	25	29	109	70	251	127	2.75	1.44	12	1150	3300	17	5000	375
6.68	15	22	27	94	60	211	117	4.00	2.44	19	550	2800	15	4300	325
4.68	11.7	18.7	25.0	79	50	171	107	5.21	3.44	26	-53	2296	13.01	3586	276
2.68	9	16	23	64	40	131	97	6.50	4.44	33	-650	1800	11	2900	225
.68	6	13	21	49	30	91	87	7.75	5.44	40	-1250	1300	9	2200	175
-1.32	3	10	19	34	20	51	77	9.00	6.44	47	-1350	900	7	1500	125
-3.32	0	7	17	19	10	11	67	10.25	7.44	54	-2450	300	5	800	75
-5.32	--	4	15	4	0	--	57	11.50	8.44	61	-3050	-200	3	100	25

Influence of Price Changes on Farm Earnings

Farm prices in 1934 advanced more rapidly than did the prices of commodities which farmers bought. Farmers of the United States as a group could exchange their farm products in 1934 for 74 percent as many goods as for the period 1909-1914, while in 1933 they received only 64 percent, and 1932 only 61 percent as much in exchange for what they had to sell as in the earlier period. In the month of February, 1935, this index of purchasing power had increased to 87 percent of prewar, the index of farm prices having risen to 111 as compared with an index of 127 for commodities which farmers buy. When the line representing farm prices drops below the line representing prices paid by farmers, farm earnings are very low, but when these lines come close together farm earnings increase. (See following graph.)

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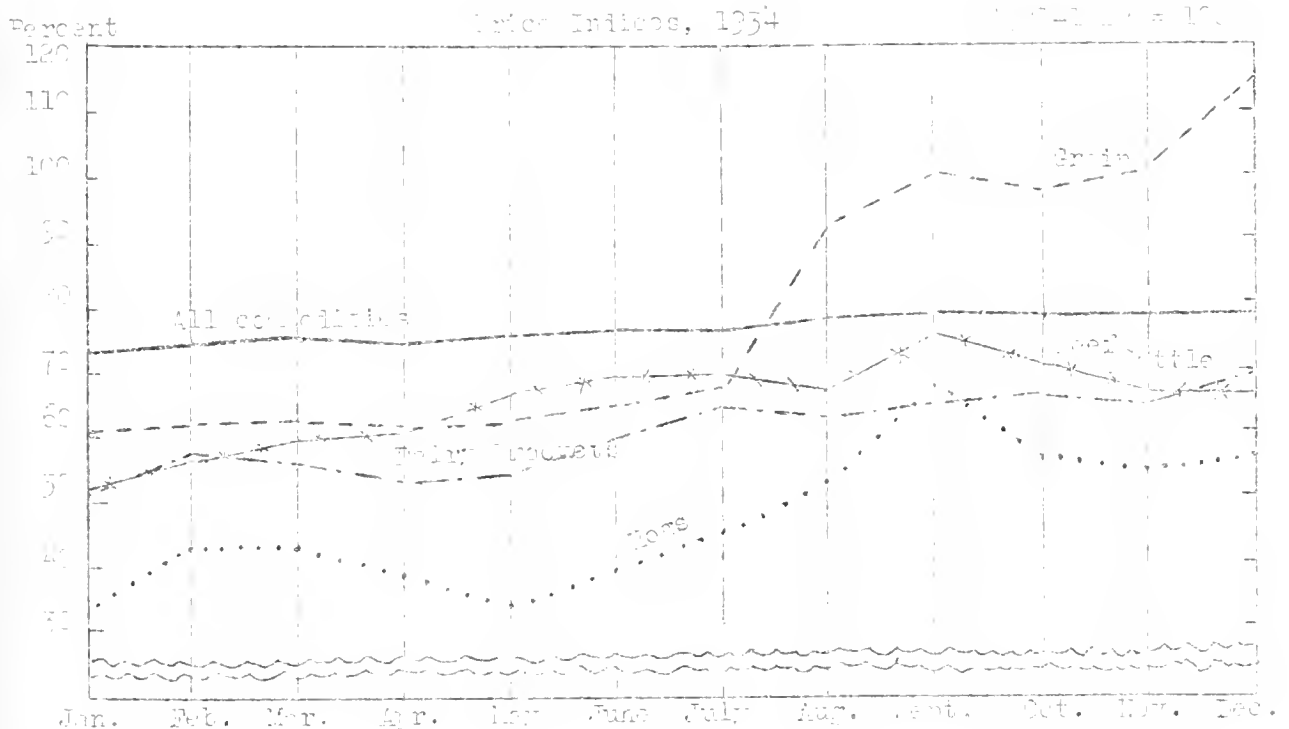
Rate Earned



Since the price of some farm products advanced much more rapidly during 1934 than other products, it is evident that some farms would benefit more than others, depending upon the kind and quantity of products sold. Grain prices advanced much more rapidly than livestock prices; which resulted in a very bad price ratio for farmers who buy large quantities of feed. The average Illinois farm price of corn was 41 cents a bushel in January, 1934; it advanced steadily until the end of the year when it was 81 cents a bushel. Other grains made marked advance although not so great an advance as corn. The price of hogs fluctuated from a low of \$7.5 a hundred in May to a high of \$6.3 in September. The low point in the fall came in November when the average price was \$7.1. The price has advanced quite rapidly since November, the average price being \$7.50 for February, 1935. Beef cattle were worth \$4.10 a hundred in January, 1934 and advanced each month until September, when the price was \$7.00. They dropped to \$5.00 in December but increased again to \$7.40 for February, 1935.

The year 1934 set a record for the reduction in the numbers of livestock. The percentage decreases by species were as follows: horses, 1.1 percent; mules, 2.6 percent; all cattle, 11.2 percent; sheep, 4.7 percent; hogs, 35.3 percent. When all species are combined on the basis of their capacity to consume feed, the reduction was 15 percent. This reduction will greatly reduce the demand for feeds produced in 1935.

The relative change in prices of important commodities may be noted in the following graph, which shows the average Illinois farm prices by months as a percentage of the average prices for the period 1921-1925.



All commodities index represents the wholesale price of a large number of commodities for the United States, as computed by Bureau of Labor Statistics. Grain and livestock indices are average monthly farm prices in Illinois.

Variation in Earnings Over Five-Year Period

A comparison of production, income, and expenditures on the accounting farms in Morgan, Scott, and Greene Counties for the last five years is very interesting because of the violent fluctuations in the price level. Although the 1934 crop was nearly a failure, and followed a smaller than average crop of 1933, the increased prices of both grain and livestock did have considerable effect in holding earnings in second place for the five-year period 1930-1934.

Earnings in 1935, as usual, will depend upon individual efficiency, weather and prices. A normal year will mean larger yields of grain and probably lower prices.

Comparison of Earnings and Investments on Accounting Farms in
Morgan, Scott, and Greene Counties for 1930-1934

Items	1930 ^{1/}	1931 ^{1/}	1932 ^{1/}	1933 ^{1/}	1934
Number of farms - - - - -	30	30	32	30	57
Average size of farms, acres- - - -	232	253	277	263	276
Average rate earned, to pay for management, risk and capital - - -	2.7%	-1.5%	-2.0%	4.9%	4.7%
Average labor and management wage -	\$-70	\$-1 441	\$-1 330	\$ 497	\$ 406
Gross income per acre - - - - -	14.91	7.25	5.28	12.06	13.01
Operating cost per acre - - - - -	11.15	8.91	7.17	6.86	7.38
Average value of land per acre- - -	100	95	70	80	90
Total investment per acre - - - - -	140	128	97	106	120
Investment per farm in:					
Total livestock- - - - -	2 710	2 305	1 940	1 736	1 797
Cattle - - - - -	1 172	939	865	775	858
Hogs - - - - -	852	775	522	451	390
Poultry- - - - -	164	135	103	87	71
Gross income per farm - - - - -	3 461	1 834	1 460	3 233	3 586
Income per farm from:					
Crops- - - - -	311	334	235	1 633	1 044
Miscellaneous income - - - - -	108	64	70	54	9
Total livestock- - - - -	3 042	1 436	1 155	1 546	2 472
Cattle - - - - -	412	240	248	254	696
Dairy sales- - - - -	136	79	92	122	239
Hogs - - - - -	2 193	947	693	1 022	1 335
Poultry- - - - -	262	158	99	95	48
Average yield of corn in bu.- - - -	38	50	56	47	12
Average yield of wheat in bu. - - -	21	25	18	19	25

^{1/} Records from Scott County only included for 1903-1933.

ANNUAL FARM BUSINESS REPORT ON FIFTY-ONE FARMS
IN MASON, CASS, AND MENARD COUNTIES, ILLINOIS, 1934

P. E. Johnston, J. B. Andrews, and A. L. Leonard*

The farm earnings of 51 account-keeping farmers in Mason, Cass, and Menard Counties showed an increase in 1934 over those of 1933. This is the second consecutive year of improvement in the business of these farms. The three years previous to 1933 showed very low returns.

These 51 accounts show for 1934 an average net income of \$1,526 per farm, as compared with an average of \$1,374 in 1933, and an average net loss of \$641 in 1932. The average cash income in 1934 was \$3,751 per farm, the cash business expenditures \$1,652 per farm, leaving a cash balance of \$2,099 to meet interest payments and family living expenses. (Those who keep home account books use the latter figure to represent the cash contribution of the farm to the "realized family income".) Besides the cash income there was an inventory increase of \$49 per farm due to the rise in the prices of farm products. This increase, added to the cash balance, resulted in an average excess of receipts over expenses of \$2,198 per farm. The inventory increase was a much smaller part of the total farm income in 1934 than in 1933.

These data must not be considered representative of average farm conditions, for they were secured from farms which are larger than average, and which were managed by farmers who are more efficient than the average of all farmers in the county.

For the state as a whole, farm earnings were better in 1934 than in 1933 in spite of the fact that corn and oat yields were very low due to the drouth and to chinch bug damage. In the western and southwestern parts of the state the drouth caused an almost total failure of both corn and oats. This accounts for farm earnings being lower there than in other parts of the state.

The corn crop was best in the southeastern part of the state and was fair in the northwestern section. Wheat yields were particularly good in the south and central portions of the state. Soybean yields were very good throughout the state, and there was a larger than normal acreage in Illinois in 1934. This state produced over half of the nation's 1934 crop of soybeans.

Chinch bug damage extended over most of the state last year but was much more severe in some sections than in others, and was much worse on some farms than other farms in the same community. Conditions affecting crop yields were very spotted. This accounts in part for the wide variation in farm earnings from one section of the state to another, and the wider variations than usual from one farm to another.

* C. S. Love, G. H. Husted, and E. W. Cholercraft, farm advisers in above counties, cooperated in supervising and collecting the records on which this report is based.

Industries other than agriculture again showed improved earnings over the previous year. A group of 340 industrial corporations reported by a nationally known bank showed average earnings of 5.0 percent on their invested capital in 1934, as compared with 3.4 percent for the same corporations in 1933. A similar group had a loss of one-tenth of one percent in 1932 and average earnings of 3.0 percent in 1931.

In comparing the average earnings of corporations with the rate earned on investment on accounting farms it is well to keep in mind that in corporation accounting charges are made for management, while in the farm accounts no comparable deduction has been made. On the other hand, the farmer and his family receive food, fuel, and other items of living from the farm for which the farm has received no credit in the records used in this report. For the average central Illinois farm family, consisting of five persons, the value of the food and fuel furnished by the farm was about \$250 in 1934, when estimated on the basis of the wholesale price for farm products.

Variations in Farm Incomes

There was a much wider range in farm earnings on the accounting farms in 1934 than in 1933. This was true for the farms included in this report, and was also true when the average earnings of farms in one section of the state are compared with the earnings of farms in other areas.

The extremely wide range in earnings was due to a combination of physical and economic factors. The average yields of wheat and soybeans were much better, compared with the five-year average, than the average yields of corn and oats. This variation favored those sections which had larger acreages of the higher yielding crops in 1934. There was also a wide range in average corn yields from one section of the state to another as well as between individual farms in the same area. The price of grains was high in 1934 as compared with prices of livestock and livestock products. Farms where grain sales constitute a large part of the farm income thus had an advantage. The rapid increase in the prices of farm products, particularly grains, favored those farms which had large stocks of salable products on hand at the beginning of the year. Many farmers who inventoried the corn on hand at the beginning of 1934 at 40 cents a bushel, later sold this corn for 60 cents.

In this group of 51 accounting farms the most successful one-third shows an average net income of \$4,569, while the average net income of the least successful one-third of the farms was only \$241. In 1933 the comparable net incomes for the two groups was \$4,208, and \$319 respectively.

-3-
Investments, Receipts, Expenses and Earnings on
Mason, Cass, and Leonard County Farms in 1934

Items	Your farm	Average of 51 farms	17 most profitable farms	17 least profitable farms
<u>CAPITAL INVESTMENTS</u>				
Land - - - - -		21 355	23 796	23 115
Farm improvements- - - - -		3 071	3 243	3 331
Livestock total- - - - -		<u>1 340</u>	<u>1 750</u>	<u>1 168</u>
Horses - - - - -		494	563	519
Cattle - - - - -		529	819	368
Hogs - - - - -		235	274	215
Sheep- - - - -		18	23	10
Poultry- - - - -		64	71	56
Machinery and equipment- - - - -		1 055	1 347	948
Feed and grains- - - - -		1 727	2 260	1 342
Total capital investment	\$	<u>\$29 048</u>	<u>\$32 326</u>	<u>\$29 904</u>
<u>RECEIPTS AND NET INCREASES</u>				
Livestock total- - - - -		<u>1 476</u>	<u>1 875</u>	<u>1 123</u>
Horses - - - - -		41	114	34
Cattle - - - - -		232	330	148
Hogs (including AAA payments)-		794	974	592
Sheep- - - - -		20	24	12
Poultry- - - - -		61	57	79
Egg sales- - - - -		105	111	71
Dairy sales- - - - -		223	335	187
Feed and grains (including AAA payments) - - - - -		1 812	2 586	1 569
Labor off farm - - - - -		74	104	42
Miscellaneous receipts - - - - -		7	---	15
Total receipts & net increases	\$	<u>\$ 3 369</u>	<u>\$ 4 665</u>	<u>\$ 2 749</u>
<u>EXPENSES AND NET DECREASES</u>				
Farm improvements- - - - -		166	171	219
Horses - - - - -		---	---	---
Miscellaneous livestock decreases		---	---	---
Machinery and equipment- - - - -		302	386	277
Feed and grains- - - - -		---	---	---
Livestock expense- - - - -		36	32	51
Crop expense - - - - -		154	203	148
Hired labor- - - - -		191	262	196
Taxes- - - - -		292	357	277
Miscellaneous expenses - - - - -		30	37	29
Total expenses & net decreases	\$	<u>\$ 1 171</u>	<u>\$ 1 448</u>	<u>\$ 1 197</u>
<u>RECEIPTS LESS EXPENSES-</u> - - - -	\$	<u>\$ 2 198</u>	<u>\$ 3 217</u>	<u>\$ 1 552</u>
Total unpaid labor- - - - -		672	648	711
Operator's labor - - - - -		536	527	540
Family labor - - - - -		136	121	171
Net income from investment and management - - - - -		1 526	2 569	841
<u>RATE EARNED ON INVESTMENT</u> - - - - -	%	<u>5.25%</u>	<u>7.93%</u>	<u>2.81%</u>
Return to capital and operator's labor and management - - - - -		2 062	3 096	1 381
5% of capital invested- - - - -		1 452	1 520	1 495
<u>LABOR AND MANAGEMENT WAGE</u> - - - - -	\$	<u>\$ 610</u>	<u>\$ 1 476</u>	<u>\$ -114</u>

The following table shows the number of farms having certain net incomes per acre. There was a marked difference between the most successful and the least successful farms.

<u>Average net in-</u> <u>come per acre</u>	<u>Number of</u> <u>farms</u>	<u>Average net in-</u> <u>come per acre</u>	<u>Number of</u> <u>farms</u>
\$11	4	\$3	13
7	11	1	4
7	3	-1	1
5	10		

A further study of the farm businesses made by comparing the investments, receipts, and expenses of the group of farms with the highest net incomes with those having the lowest should throw some light on the question of why some farmers are more successful than others. This comparison is shown in the table on page 3.

The most successful farms averaged 297 acres each, the least successful 260 acres. This difference in size accounts in part for the variation in the average investment, receipts, and expenses in the two groups. Differences in receipts from the sale of grains, hogs, cattle, and dairy products account for most of the difference in income between the two groups. Although the expenses per farm were higher on the most profitable farms, the total expense per acre, including the charge for family labor, was less than it was on the least profitable farms.

Changes in Inventories and Inventory Values

The year 1934 was similar to 1933 in that the prices of farm products continued to advance, causing further increases in inventory values. Owing to the poor crop yields in 1934 there were fewer bushels of grain on hand to inventory at the end of the year than at the beginning. The value of the smaller amount of grain, however, was greater than for the larger amount on hand at the beginning of the year.

Bushels of Corn Inventoried

	<u>Jan. 1, 1934</u>	<u>Dec. 31, 1934</u>
Average of all farms	1 696	1 025
Average of 17 most successful farms	1 526	1 502
Average of 17 least successful farms	1 870	316
Total farms		

The most profitable farms had a much larger inventory of corn both at the beginning and end of the year. This was a major factor in accounting for their higher returns from field and grains.

The average inventory increase for the accounting farms included in this study was \$99 in 1934, as compared with \$700 in 1933, and an inventory loss of \$776 a farm in 1932. There were increases of \$52 in total livestock, \$132 in feed and grains, and \$12 in machinery, while improvements showed a decrease of \$97. Such an increase in inventory as that for machinery results from the value of new replacements during the year being in excess of depreciation costs. This increase is of considerable interest for it is the first time that such an increase in machinery inventories has occurred since farm earnings began to decline so drastically with the general depression.

Inventory Changes for 1934

Items	Beginning inventory 1-1-34	Closing inventory 12-31-34	Inventory changes 1934	Inventory changes, four farm
Total livestock.	\$1 340	\$1 392	\$ 52	\$
Feed and grains.	1 727	1 859	132	
Machinery.	1 055	1 067	12	
Improvements (except residence).	<u>3 671</u>	<u>2 974</u>	<u>-27</u>	
Total.	\$7 193	\$7 292	\$ 99	\$

Some Adjustments on Mason, Cass, and Menard County Farms Since 1929

Farmers have been forced to make adjustments in their cash expenditures as the result of changes in their cash incomes. From 1929 through 1933 farm operating costs declined each year, but the year 1934 brought a reversal of this trend. Total operating expenses were 22 cents an acre higher in 1934 than in 1933, while cash operating expenses were \$1,652 a farm in 1934, as compared with \$1,320 in 1933. The largest increase in expenditures over the previous year was for machinery and repairs for machinery. Indications point to an even greater expansion of spending for these items in 1935, since farmers have postponed machinery replacements during the four-year period since 1929.

Cash Income and Expenses on Accounting Farms in Mason, Cass, and Menard Counties for 1929 and 1934

Items	Your farm 1934	Average cash expense per farm		Your farm 1934	Average cash income per farm	
		1934	1929		1934	1929
Livestock	\$	\$ 210	\$ 979	\$	\$1 634	\$4 303
Feed and grains		252	354		1 932	2 045
Machinery		415	706		101	123
Improvements.		72	292		3	5
Labor		131	394		74	41
Miscellaneous		30	29		7	12
Livestock expense		36	58		---	---
Crop expense.		154	212		---	---
Taxes		<u>292</u>	<u>303</u>		---	---
Total	\$	<u>\$1 652</u>	<u>\$3 923</u>	\$	<u>\$3 751</u>	<u>\$6 533</u>
Excess of cash sales over expenses.				\$	\$2 399	\$2 610
Increase in inventory					99	711
Income to labor and capital (Receipts less expenses).					2 198	3 521

The cumulative effect of several years of low agricultural prices on the demand for manufactured goods can readily be ascertained by a comparison of cash farm expenditures in 1934 with those in 1929. Although the average cash income in 1934 was 57 percent of that in 1929, cash expenditures were only 42 percent as large. In 1934, livestock purchases were 31 percent, and feed and grain purchases 30 percent as large as in 1929. In 1934 these farms paid out 59 percent as much for machinery, and 71 percent as much for crop expense as in 1929, while taxes were reduced to 74 percent of the 1929 level.

Comparison of Farms With High and Low Earnings

The most profitable farms in this study had net receipts per acre of \$1.64, as compared with \$3.13 for the least profitable farms. The reasons for this difference may be obtained from a study of the data on pages 5 and 6.

The most profitable farms in this study averaged 28.5 acres larger, and had 5 acres more corn, 4.2 acres more oats, 11.3 acres more wheat, 16.3 acres more soybeans, and 6.1 acres more hay than the least profitable farms. Wheat and soybeans were the high-yielding crops in 1934. The most profitable farms carried larger inventories of feed and grain on which to make a profit when prices advanced. In addition to the larger acreage of crops, a reason for the larger inventories was the higher crop yields, there being an advantage of 2.3 bushels of corn, 7.5 bushels of oats, 4.5 bushels of wheat, and 7.9 bushels of soybeans in favor of the high-profit group.

The most profitable farms were more intensive, and more efficient in their livestock production than the least profitable farms. The most profitable farms had an investment in productive livestock of \$5.82 per acre, and fed \$1,657 of feed per farm, as compared with \$2.50 invested per acre, and \$1,098 of feed fed per farm, on the least profitable farms. The productive livestock, on the most profitable farms, returned \$110 for each \$100 of feed fed, as compared with a return of \$100 for each \$100 of feed fed on the least profitable farms. The income per litter farrowed was \$120 on the most profitable farms, as compared with \$74 on the least profitable farms.

The larger income on the most profitable farms was secured with a total operating cost of \$7.25 per acre, as compared with \$7.10 an acre on the least profitable farms. Man labor costs per crop acre were \$3.33 on the most profitable farms, as compared with \$4.75 on the least profitable farms, while power and machinery costs per crop acre amounted to \$2.65 on the most profitable farms, and \$1.74 on the least profitable farms.

The Influence of AAA Programs on Cropping Systems and Farm Incomes

The farm-account records in Illinois were influenced both directly and indirectly by the corn-hog and wheat adjustment programs. A large percentage of accounting farms were under one or both contracts in 1934. The acreages of corn and wheat on these farms were therefore less than normal. This should have resulted in lower operating costs. Corn-hog benefit payments for the entire 1934 program will total about 40 million dollars for the state, while wheat benefit payments will be about 2.4 million dollars.

The benefit payments for accounting farms are indicated in the following table, which shows the average payment for those farms receiving payments, and includes only those payments received by the cooperator before the 1934 books were closed. In some cases only the first corn-hog check is included, while in other cases the second check had been received. The second payments not received and the third payments will be entered in the 1935 book.

AAA Benefit Payments Received in 1934

	Corn		Wheat		Hogs		Average of all payments ^{1/}
	Number of farms	Amount per farm	Number of farms	Amount per farm	Number of farms	Amount per farm	
1/3 most profitable farms	17	\$152	13	\$49	17	\$155	\$498
1/3 least profitable farms	16	125	14	191	15	117	377
All accounting farms	50	134	37	200	49	138	409

^{1/} Total benefit payments reported by accounting farms under contract for 1934 divided by total number of accounting farms.

On most farms the cash received from benefit payments will more than pay the year's taxes. As an average for all accounting farms, the payments actually received were \$117 more than sufficient to pay the 1934 taxes.

It is interesting to note the use made of the contracted acres on the accounting farms. The average farm had 25.9 contracted acres which were used as follows: 6.3 idle; 2.1 red clover; 5.0 sweet clover; 9.7 soybeans; 0.3 alfalfa; and 1.5 acres were in other crops. These data indicate that most farmers made good use of their contracted acres from the standpoint of soil improvement, as a large part of them were in legumes. When the Government restrictions on the use of crops grown on contracted acres were removed, they were on many farms the most profitable crops as they furnished hay and pasture where badly needed in drouth areas. The legumes had the further advantage of being immune to attack from chinch bugs.

Farm earnings were influenced indirectly by the AAA programs in that the reduction in production increased the price of the commodities involved. The drouth was a more important factor in reducing production than the adjustment programs, yet if it had not been for the corn-sealing program there would have been but little corn in the hands of farmers at the time the major price advance became effective.

Factors Helping to Analyze the Farm Business on 50
Newly, Old, and Renard County, Farms in 1934

Items	Your farm	Average of 50 farms	17 most profitable farms	17 least profitable farms
Size of farms--acres - - - - -	_____	262.8	297.3	268.8
Percent of land area tillable- - - - -	_____	86.3	90.6	84.1
Percent of tillable land in hay and pasture - - - - -	_____	31.1	29.2	31.6
Gross receipts per acre- - - - -	_____	12.32	15.69	10.23
Total expenses per acre- - - - -	_____	7.01	7.05	7.10
Net receipts per acre- - - - -	_____	5.81	8.64	3.13
Value of land per acre - - - - -	_____	83	80	86
Total investment per acre- - - - -	_____	111	109	111
Yields in:				
Corn- - - - -	_____	63.1	72.8	67.8
Oats- - - - -	_____	24.1	27.9	22.7
Wheat - - - - -	_____	46.0	57.5	45.6
Soybeans- - - - -	_____	10.0	13.4	2.1
Hay - - - - -	_____	27.2	33.9	27.8
Tillable pasture- - - - -	_____	43.4	45.0	41.1
Crop yields--				
Corn, bu. per acre- - - - -	_____	21.2	22.3	19.5
Oats, bu. per acre- - - - -	_____	9.3	12.3	6.8
Wheat, bu. per acre - - - - -	_____	17.1	19.7	15.2
Soybeans, bu. per acre- - - - -	_____	17.2	18.0	10.7
Value of feed fed to productive U.S. -	_____	1 322	1 658	1 098
Returns per \$100 of feed fed to productive livestock- - - - -	_____	109	110	100
Returns per \$100 invested in:				
Cattle- - - - -	_____	86	86	84
Poultry - - - - -	_____	259	233	268
Pigs weaned per litter - - - - -	_____	5.8	5.9	5.8
Income per litter farrowed - - - - -	_____	93	120	74
Milk sales per dairy cow- - - - -	_____	45	54	45
Investment in productive U.S. per A. -	_____	3.85	3.82	2.50
Receipts from productive U.S. per A. -	_____	5.46	6.16	4.05
Machine cost per crop acre - - - - -	_____	4.46	3.83	4.75
Machinery cost per crop acre - - - - -	_____	1.65	1.72	1.52
Power and mach. cost per crop A. - - - -	_____	2.75	2.65	2.74
Farms with tractor - - - - -	_____	55%	74%	41%
Value of feed fed to horses- - - - -	_____	243	252	255
Hourly labor cost per \$100 gross income- - - - -	_____	24	18	31
Expenses per \$100 gross income - - - - -	_____	55	45	69
Land improvements cost per acre- - - - -	_____	63	58	31
Balance on sales over cash expenses - - - - -	_____	1 099	3 104	1 373
Increase in inventory- - - - -	_____	10	113	179
Balance on investment- - - - -	_____	2 458	7 836	2 816
Gross receipts per farm- - - - -	_____	3 369	4 665	2 749

Chart for Studying the Efficiency of Various Parts of Your Business,
Mason, Cass, and Menard Counties, 1934

The numbers above the lines across the middle of the page are the averages for the 51 farms included in this report for the factors named at the top of the page. By drawing a line across each column at the number measuring the efficiency of your farm in that factor, you can compare your efficiency with that of other farmers in your locality.

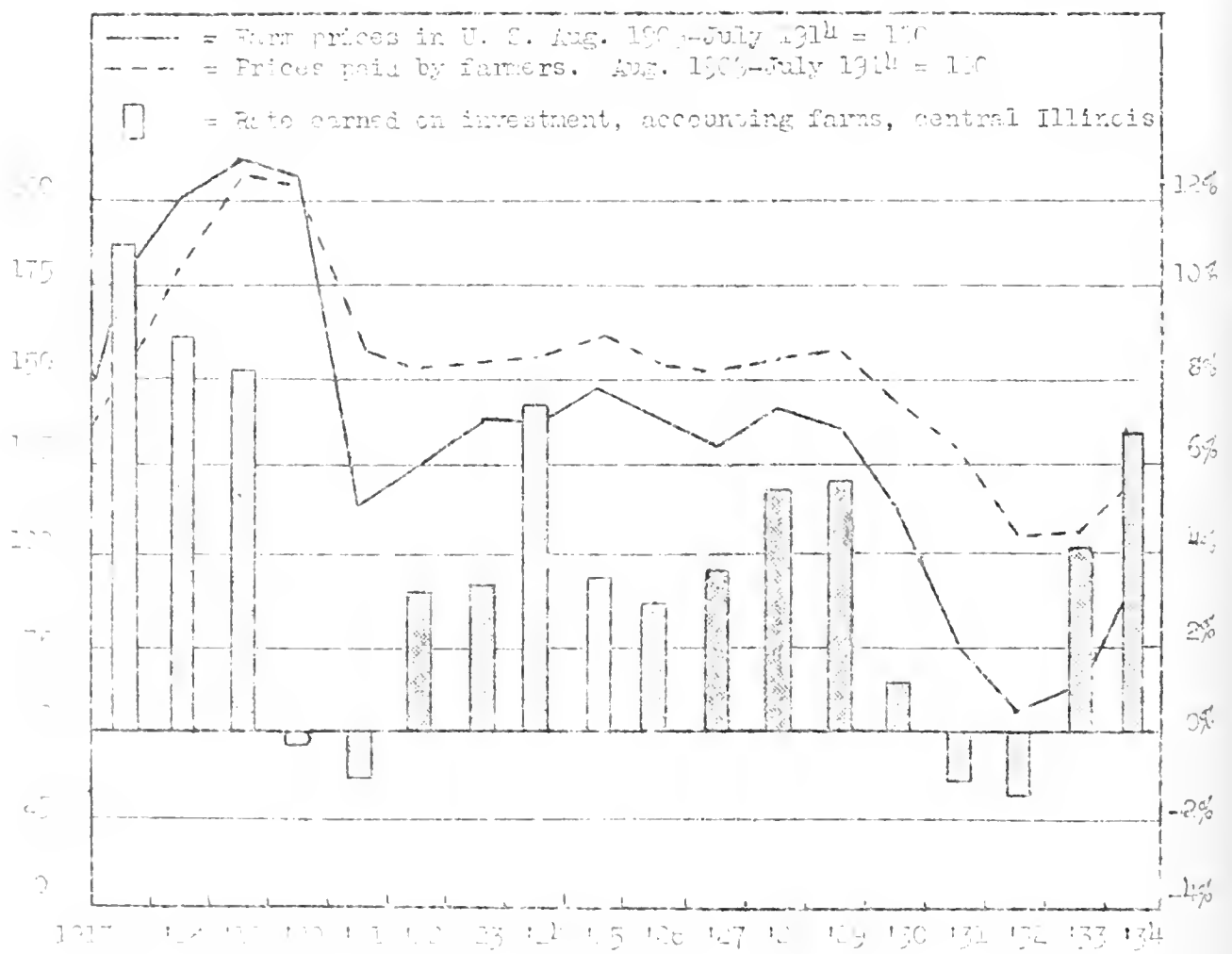
Rate earned on investment	Bushels per acre			Hogs: Income per litter	Dairy sales per dairy cow	Poultry income per \$100 invested	L.S. income per \$100 of feed fed	Cost per crop acre		Labor cost per \$100 gross receipts	Increase in inventory	Sales over cash expenses	Gross receipts		Acres in farm
	Corn	Oats	Wheat					Labor	Power and machinery				Per acre	Per farm	
10.25	36	20	32	143	78	450	185	.75	--	--	3100	5600	23	6900	460
9.25	33	18	29	133	71	420	170	1.50	.35	0	2500	4900	21	6200	420
8.25	30	16	26	123	64	380	155	2.25	.95	6	1900	4200	19	5500	380
7.25	27	14	23	113	57	340	140	3.00	1.55	12	1300	3500	17	4800	340
6.25	24	12	20	103	50	300	125	3.75	2.15	18	700	2800	15	4100	300
5.25	21.2	9.9	17.1	93	43	259	109	4.46	2.75	24	99	2099	12.82	3369	262.8
4.25	18	8	14	83	36	220	95	5.25	3.35	30	-500	1400	11	2700	220
3.25	15	6	11	73	29	180	80	6.00	3.95	36	-1100	700	9	2000	180
2.25	12	4	8	63	22	140	65	6.75	4.55	42	-1700	0	7	1300	140
1.25	9	2	5	53	15	100	50	8.50	5.15	48	-2300	-700	5	600	100
.25	6	0	2	43	8	60	35	9.25	5.75	54	-2900	-1400	3	--	60

Influence of Price Changes on Farm Earnings

Farm prices in 1934 advanced more rapidly than did the prices of commodities which farmers bought. Farmers of the United States as a group could exchange their farm products in 1934 for 74 percent as many goods as for the period 1909-1914, while in 1935 they received only 64 percent, and 1936 only 61 percent as much in exchange for what they had to sell as in the prewar period. In the month of February, 1935, this index of purchasing power had increased to 67 percent of prewar, the index of farm prices having risen to 111 as compared with an index of 137 for commodities which farmers buy. When the line representing farm prices drops below the line representing prices paid by farmers, farm earnings are very low, but when these lines come close together farm earnings increase. (See following graph.)

Index of Prices

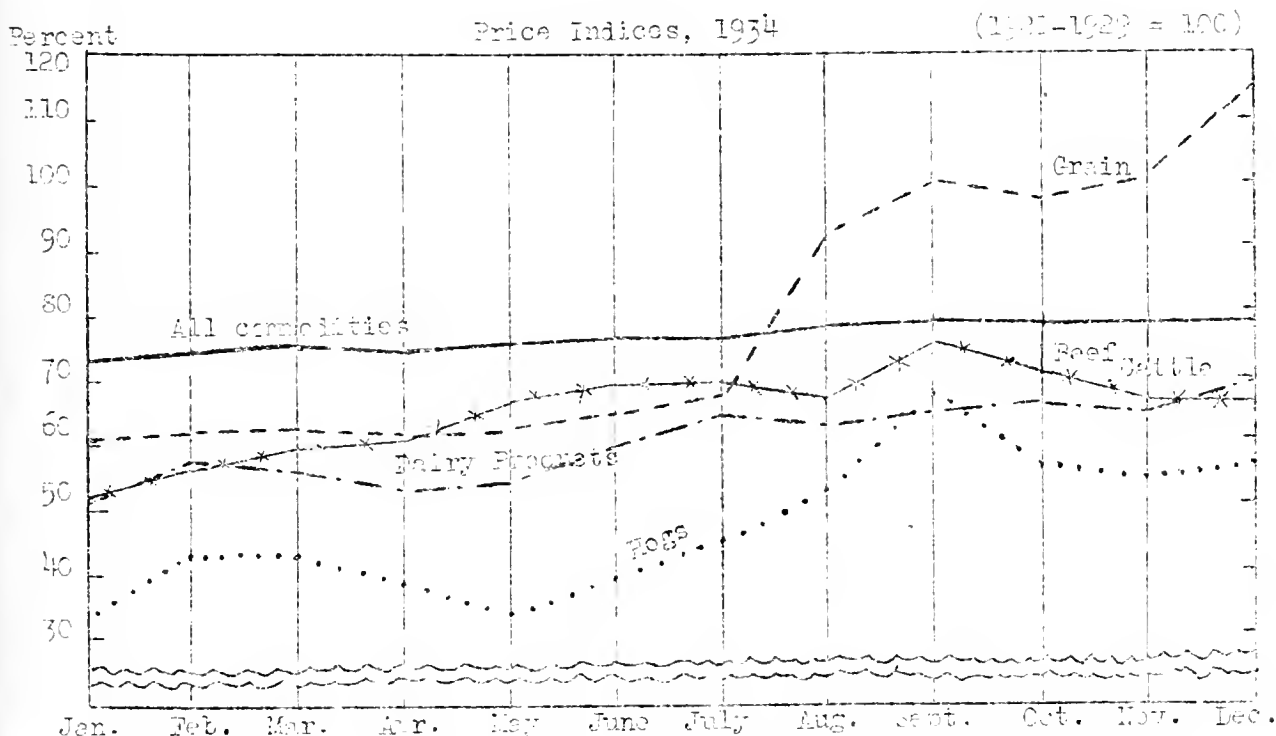
Rate Earned



Since the price of some farm products advanced much more rapidly during 1934 than other products, it is evident that some farmers would benefit more than others, depending upon the kind and quantity of products sold. Grain prices advanced much more rapidly than livestock prices; which resulted in a very bad price ratio for farmers who buy large quantities of feed. The average Illinois farm price of corn was 41 cents a bushel in January, 1934; it advanced steadily until the end of the year when it was 83 cents a bushel. Other grains made marked advance although not so great an advance as corn. The price of hogs fluctuated from a low of \$5.20 a hundred in May to a high of \$6.30 in September. The low point in the fall came in November when the average price was \$5.10. The price has advanced quite rapidly since November, the average price being \$7.50 for February, 1935. Beef cattle were worth \$4.10 a hundred in January, 1934 and advanced each month until September, when the price was \$5.90. They dropped to \$5.20 in December but increased again to \$7.40 for February, 1935.

The year 1934 set a record for the reduction in the numbers of livestock. The percentage decreases by species were as follows: horses, 1.1 percent; mules, 2.6 percent; all cattle, 11.2 percent; sheep, 4.7 percent; hogs, 35.3 percent. When all species are combined on the basis of their capacity to consume feed, the reduction was 13 percent. This reduction will greatly reduce the demand for feeds produced in 1935.

The relative change in prices of important commodities may be noted in the following graph, which shows the average Illinois farm prices by months as a percentage of the average prices for the period 1921-1929.



All commodities index represents the wholesale price of a large number of commodities for the United States, as computed by Bureau of Labor Statistics. Grain and livestock indices represent average monthly farm prices in Illinois.

Fluctuation in Earnings Over Five-Year Period

A comparison of production, income, and expenditures on the accounting farms in this area for the last five years is very interesting because of the violent changes in price level. 1934 was the second year of very low crop yields, yet total receipts per farm were higher than in any other year in the last four, and were 61 percent of the 1930 gross receipts. Operating costs per acre were lower than in any year of the five except 1933. Thus profits were the best the county had experienced since 1929.

Earnings in 1935 to normal will depend upon individual efficiency, weather, and prices. A normal year will mean larger yields of grain and probably lower prices.

Comparison of Earnings and Expenditures on Accounting Farms in Mason, Cass, and Howard Counties for 1930-1934

Items	1930 ¹	1931 ²	1932	1933 ³	1934
Number of farms - - - - -	51	43	37	47	51
Number of acres of farms, acres - - -	252	218	256	252	263
Average net amount to pay for interest, risk and capital - - - - -	1.46	-2.14	-1.46	5.14	5.24
Average labor and management wage	\$-44.6	\$-1,744	\$-1,677	\$539	\$610
Gross income per acre - - - - -	16.11	11.43	8.95	12.24	12.22
Operating cost per acre - - - - -	13.20	12.57	8.13	6.79	7.61
Average value of land per acre - - -	117	113	113	82	83
Net investment per acre - - - - -	117	137	177	100	111
Net amount per farm in:					
Total investment - - - - -	1,024	2,370	1,762	1,466	1,340
Total - - - - -	1,024	1,363	782	367	329
Wage - - - - -	1,024	343	393	328	235
Interest - - - - -	100	220	114	70	64
Gross income per farm - - - - -	3,147	1,456	1,478	1,117	3,309
Income per farm from:					
Crop - - - - -	---	---	55	150	1,512
Miscellaneous income - - - - -	61	47	15	36	7
Total investment - - - - -	1,024	1,000	1,136	1,432	1,476
Total - - - - -	3,147	415	276	283	232
Wage - - - - -	1,024	111	322	161	223
Interest - - - - -	100	111	114	70	70
Total - - - - -	1,024	172	144	70	64
Income per acre of farm in value - - -	33	19	17	42	21
Income per acre of farm in cash - - -	33	19	17	17	17

¹ Records from Mason, Cass, and Howard Counties included for 1930.
² Records from Mason, Cass, and Howard Counties included for 1931.
³ Records from Mason, Cass, and Howard Counties included for 1933.

ANNUAL FARM BUSINESS REPORT ON THIRTY-TWO FARMS
IN PIKE AND BROWN COUNTIES, ILLINOIS, 1934

P. E. Johnston, J. B. Andrews, and A. L. Leonard*

Farm earnings on the 32 accounting farms in Pike and Brown Counties averaged 3.01 percent for 1934. This is the second highest return during the past five years, 1933 having the highest with an average return of 5.1 percent. The 1934 return is remarkable considering the severe drouth and chinch bug damage.

These 32 accounts show for 1934 an average net income of \$769 per farm, as compared with an average of \$1,374 in 1933, and an average net loss of \$641 in 1932. The average cash income in 1934 was \$3,676 per farm, the cash business expenditures \$1,917 per farm, leaving a cash balance of \$1,759 to meet interest payments and family living expenses. (Those who keep home account books use the latter figure to represent the cash contribution of the farm to the "realized family income".) The low yields were directly responsible for the decrease in inventory of \$507 a farm. This decrease, deducted from the cash balance, resulted in an average excess of receipts over expenses of \$1,452 a farm.

These data must not be considered representative of average farm conditions, for they were secured from farms which are larger than average, and which were managed by farmers who are more efficient than the average of all farmers in the county.

For the state as a whole, farm earnings were better in 1934 than in 1933, in spite of the fact that corn and oat yields were very low due to the drouth and to chinch bug damage. In the western and southwestern parts of the state the drouth caused an almost total failure of both corn and oats. This accounts for farm earnings being lower there than in other parts of the state.

The corn crop was best in the southeastern part of the state, and was fair in the northwestern section. Wheat yields were particularly good in the south and central portions of the state. Soybean yields were very good throughout the state, and there was a larger than normal acreage in Illinois in 1934. This state produced over half of the nation's 1934 crop of soybeans.

Chinch bug damage extended over most of the state last year, but was much more severe in some sections than in others, and was much worse on some farms than on other farms in the same community. Conditions affecting crop yields were very spotted. This accounts in part for the wide variation in farm earnings from one section of the state to another, and the wider variations than usual from one farm to another.

* W. B. Bunn and W. E. Foard, farm advisers in the above Counties, cooperated in supervising and collecting the records on which this report is based.

Industries other than agriculture again showed improved earnings over the previous year. A group of 840 industrial corporations reported by a nationally known bank showed average earnings of 5.0 percent on their invested capital in 1934, as compared with 3.4 percent for the same corporations in 1933. A similar group has a loss of one-tenth of one percent in 1932, and average earnings of 3.3 percent in 1931.

In comparing the average earnings of corporations with the rate earned on investments on accounting farms, it is well to keep in mind that in corporation accounting, charges are made for management, while in the farm accounts no comparable deduction has been made. On the other hand the farmer and his family receive food, fuel, and other items of living from the farm for which the farm has received no credit in the records used in this report. For the average central Illinois farm family, consisting of five persons, the value of the food and fuel furnished by the farm was about \$250 in 1934, when estimated on the basis of the wholesale price for farm products.

Variations in Farm Incomes

There was a much wider range in farm earnings on the accounting farms in 1934 than in 1933. This was true for the farms included in this report, and it was also true when the average earnings of farms in one section of the state were compared with the earnings of farms in other areas.

The extremely wide range in earnings was due to a combination of physical and economic factors. The average yields of wheat and soybeans was much better, compared with the five-year average, than the average yields of corn and oats. This variation favored those sections which had larger acreages of the higher yielding crops in 1934. There was also a wide range in average corn yields from one section of the state to another, as well as between individual farms in the same area. The price of grains was high in 1934 as compared with prices of livestock and livestock products. Farms where grain sales constitute a large part of the farm income thus had an advantage. The rapid increase in the prices of farm products, particularly grains, favored those farms which had large stocks of salable products on hand at the beginning of the year. Many farmers who inventoried the corn on hand at the beginning of 1934 at 40 cents a bushel, later sold this corn for 30 cents.

In this group of 32 accounting farms the most successful third shows an average net income of \$2,365, while the least successful third had an average net loss of \$149. In 1933 the most successful third had an average net income of \$2,398, and the least successful third had an average net income of \$319.

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Investments, Receipts, Expenses and Earnings on 32
Pike and Brown County Farms in 1934

Items	Your farm	Average of 32 farms	11 most profitable farms	11 least profitable farms
CAPITAL INVESTMENTS				
Land - - - - -		17 604	25 385	11 363
Farm improvements- - - - -		3 434	4 601	2 503
Livestock total- - - - -		<u>2 067</u>	<u>3 350</u>	<u>1 390</u>
Horses - - - - -		348	434	355
Cattle - - - - -		1 144	2 147	625
Hogs - - - - -		461	650	276
Sheep- - - - -		69	70	86
Poultry- - - - -		45	49	48
Machinery and equipment- - - -		979	1 333	754
Feed and grains		1 431	2 260	722
Total capital investment	\$ _____	\$25 515	\$36 949	\$16 732
RECEIPTS AND NET INCREASES				
Livestock total- - - - -		<u>2 885</u>	<u>5 045</u>	<u>1 368</u>
Horses - - - - -		36	64	23
Cattle - - - - -		849	1 882	217
Hogs (including AAA payments)		1 738	2 833	848
Sheep- - - - -		90	107	80
Poultry- - - - -		32	15	41
Egg sales- - - - -		45	31	53
Dairy sales- - - - -		96	111	106
Feed and grains (including AAA payments) - - - - -		---	---	---
Labor off farm - - - - -		58	80	22
Miscellaneous receipts - - - -		5	15	2
Total receipts & net increases	\$ _____	\$ 2 949	\$ 5 138	\$ 1 392
EXPENSES AND NET DECREASES				
Farm improvements- - - - -		199	308	126
Horses - - - - -		---	---	---
Miscellaneous livestock decreases		---	---	---
Machinery and equipment- - - -		246	387	132
Feed and grains- - - - -		502	506	507
Livestock expense- - - - -		45	68	30
Crop expense - - - - -		130	206	84
Hired labor- - - - -		151	313	41
Taxes- - - - -		194	303	128
Miscellaneous expenses - - - -		30	35	25
Total expenses & net decreases	\$ _____	\$ 1 497	\$ 2 126	\$ 1 073
RECEIPTS LESS EXPENSES- - - - -				
	\$ _____	\$ 1 452	\$ 3 012	\$ 319
Total unpaid labor- - - - -		683	547	768
Operator's labor - - - - -		515	524	528
Family labor - - - - -		168	123	240
Net income from investment and management - - - - -		769	2 365	-449
RATE EARNED ON INVESTMENT - - - - -	%	<u>3.01%</u>	<u>6.40%</u>	<u>-2.68%</u>
Return to capital and operator's labor and management - - - - -		1 284	2 839	79
5% of capital invested- - - - -		1 276	1 847	837
LABOR AND MANAGEMENT WAGE - - - - -	\$ _____	\$ 8	\$ 1 042	\$ -758

The following table shows the number of farms having certain net incomes per acre. There was a marked difference between the most successful and the least successful farms.

<u>Average net income</u> <u>per acre</u>	<u>Number of</u> <u>farms</u>	<u>Average net income</u> <u>per acre</u>	<u>Number of</u> <u>farms</u>
\$13	1	\$1	5
11	2	-1	7
9	1	-3	3
7	1	-5	0
5	6	-7 and under	2
3	4		

A further study of the farm businesses made by comparing the investments, receipts, and expenses of the group of farms with the highest net income, with those having the lowest net income should throw some light on the question of why some farmers are more successful than others. This comparison is shown in the table on page 3.

The most successful farms averaged 339 acres each, the least successful 204 acres. This difference in size accounts in part for the variation in the average investment, receipts, and expenses in the two groups. Difference in receipts from the sales of hogs and cattle accounts for most of the difference in income between the two groups. Although the expenses per farm were higher on the most profitable farms, the total expense per acre, including the charge for family labor, was less than it was on the least profitable farms.

The year 1934 was similar to 1933 in that the prices of farm products continued to advance. Owing to the extremely poor yields in Pike and Brown Counties the value of grain at the end of the year was not as much as at the beginning, even though prices of grain had more than doubled. This condition was aggravated by the fact that these counties had considerable livestock and, with very little feed produced, farmers were compelled to buy grain at a high price while livestock prices were still relatively low.

Bushels of Corn Inventoried

	Jan. 1, 1934	Dec. 31, 1934
Average of all farms	2 250	425
Average of 11 most successful farms . .	3 699	908
Average of 11 least successful farms . .	1 032	106
Your farm		

The most profitable farms had a much larger inventory of corn both at the beginning and end of the year. With the rise in corn prices, this was one of the important factors accounting for the difference in farm earnings.

The decrease in inventory for the 32 accounting farms in Pike and Brown Counties averaged \$307 in 1934. The 1933 inventory values increased \$750 per farm, while in 1932 there was an inventory decrease of \$776 per farm. The decreases in 1934 were: feed and grain \$281; improvements \$113, and machinery \$33, while livestock showed an increase of \$120. The decrease in machinery was the smallest since 1929 on accounting farms, and indicates that needed repairs and replacements are being made, but still not enough to offset the current depreciation costs.

Inventory Changes for 1934

Items	Beginning	Closing	Inventory	Inventory
	inventory 1-1-34	inventory 12-31-34	changes 1934	changes, your farm
Total livestock.	\$2 067	\$2 187	\$ 120	\$
Feed and grains.	1 431	1 150	-281	
Machinery.	979	946	-33	
Improvements (except residence)	3 434	3 321	-113	
Total.	\$7 911	\$7 604	\$-307	\$

Some Adjustments on Pike and Brown County Farms Since 1929

Farmers have been forced to make adjustments in their cash expenditures as the result of changes in their cash incomes. From 1929 through 1933 farm operating costs declined each year, but the year 1934 brought a reversal of this trend. Total operating expenses were \$1.94 an acre higher in 1934 than in 1933, while cash operating expenses were \$1,917 a farm in 1934, as compared with \$1,320 a farm in 1933. Due to the drouth and the resultant very low crop yields, it was necessary for the farms in this study to purchase \$554 more feed than in 1933. There was also a slight increase in expenditures over the previous year for livestock and machinery, while a considerable decrease occurred in expenditures for taxes. If this area has more favorable weather and crop conditions in 1935, so as to increase their farm income, indications point to an increase in spending for repairs and replacement of machinery and improvements, since farmers have postponed purchase of these items during the five-year period since 1929.

Cash Income and Expenses on Accounting Farms in Pike and Brown Counties for 1929 and 1934

Items	Your	Average cash		Your	Average cash	
	farm 1934	expense per farm 1934	1929	farm 1934	income per farm 1934	1929
Livestock	\$	\$ 247	\$ 979	\$	\$3 013	\$4 303
Feed and grains		783	854		562	2 045
Machinery		250	706		37	123
Improvements.		87	292		1	3
Labor		151	394		53	41
Miscellaneous		30	29		5	18
Livestock expense		45	58		---	---
Crop expense.		130	218		---	---
Taxes		194	393		---	---
Total	\$	\$1 917	\$3 923	\$	\$3 676	\$6 533
Excess of cash sales over expenses.	\$			\$	\$1 759	\$2 610
Increase in inventory					-307	711
Income to labor and capital (Receipts less expenses).					1 452	3 321

The cumulative effect of several years of low agricultural prices on the demand for manufactured goods can readily be ascertained by a comparison of cash farm expenditures in 1934 with those in 1929. Although the average cash income in 1934 was 56 percent of that in 1929, cash expenditures were only 49 percent as large. In 1934 livestock purchases were 25 percent, and feed and grain purchases 92 percent as large as in 1929. In 1934 these farms paid out 35 percent as much for machinery, 30 percent as much for improvements, 32 percent as much for labor, and 59 percent as much for crop expense as in 1929, while taxes were reduced to 50 percent of the 1929 level.

Comparison of Farms With High and Low Earnings

The most profitable farms in this study had net receipts per acre of \$6.97, as compared with a loss of \$2.20 per acre for the least profitable group. The reasons for this difference may be obtained from a study of the data on pages 3 and 5.

The most profitable farms were more intensive and more efficient in their livestock production than the least profitable farms. They had an investment in productive livestock of \$9.34 per acre, and fed \$3,839 of feed per farm, as compared with \$4.78 invested per acre, and \$1,215 of feed fed per farm, on the least profitable farms. The productive livestock on the most profitable farms returned \$130 for each \$100 of feed fed, as compared with a return of \$111 for each \$100 of feed fed on the least profitable farms. The most profitable farms had an income of \$92 per litter farrowed, as compared with \$77 per litter farrowed on the least profitable farms. There were returns of \$85 for each \$100 invested in cattle on the most profitable farms, as compared with returns of \$55 per \$100 invested in cattle on the low-profit group.

The most profitable farms in this study were 134.9 acres larger, and had a larger proportion of their land area tillable than the least profitable farms. They had 52.9 acres more corn, 14.0 acres more oats, 4.3 acres more wheat, 9.3 acres more hay, and 24.6 acres more tillable pasture than the least profitable farms. The most profitable farms carried much larger inventories of feed and grain on which to make a profit when prices advanced. Besides the larger acreage of crops, another reason for the larger inventories was the higher crop yields, there being an advantage of 6.2 bushels of corn, 7.7 bushels of oats, and 12.4 bushels of wheat per acre in favor of the high-profit group.

The larger income on the most profitable farms was secured with a total operating cost of \$8.17 per acre, as compared with \$9.01 per acre for the least profitable farms. The man labor cost per crop acre on the most profitable farms was \$7.25, as compared with \$9.69 per crop acre on the least profitable farms. The power and machinery cost per crop acre was \$3.27 on the most profitable farms, and \$3.37 per crop acre for the low-profit group.

Influence of AAA Programs on Cropping Systems and Farm Incomes

The farm-account records in Illinois were influenced both directly and indirectly by the corn-hog and wheat adjustment programs. A large percentage of accounting farms were under one or both contracts in 1934. The acreages of corn and wheat on these farms were therefore less than normal. This should have resulted in lower operating costs. Corn-hog benefit payments for the entire 1934 program will total about 40 million dollars for the state, while wheat benefit payments will be about 2.4 million dollars.

The benefit payments for accounting farms are indicated in the following table, which shows the average payment for those farms receiving payments, and includes only those payments received by the cooperator before the 1934 books were closed. In some cases only the first corn-hog check is included, while in other cases the second check had been received. The second payments not received and the third payments will be entered in the 1935 book.

AAA Benefit Payments Received in 1934

	Corn		Wheat		Hogs		Average of of all payments ^{1/}
	Number of farms	Amount per farm	Number of farms	Amount per farm	Number of farms	Amount per farm	
1/3 most profitable farms	11	\$129	1	\$ 66	11	\$349	\$483
1/3 least profitable farms	9	67	2	40	10	164	211
All accounting farms	29	102	6	74	31	245	343

^{1/} Total benefit payments reported by accounting farms under contract for 1934 divided by total number of accounting farms.

On most farms the cash received from benefit payments will more than pay for the year's taxes. As an average of all accounting farms in this study, the payments actually received were \$149 more than sufficient to pay the 1934 taxes.

It is interesting to note the use made of the contracted acres on the accounting farms. The average farm had 18.3 contracted acres which were used as follows: 5.4 idle; 3.8 mixed clover and timothy; 6.7 sweet clover, 1.3 soybeans; and 1.6 acres alfalfa. These data indicate that most farmers made good use of their contracted acres from the standpoint of soil improvement, as a large part of them were in legumes. When the Government restrictions on the use of crops grown on contracted acres were removed, they were on many farms the most profitable crops as they furnished hay and pasture where badly needed in drouth areas. The legumes had the further advantage of being immune to attack from chinch bugs.

Farm earnings were influenced indirectly by the AAA programs in that the reduction in production increased the price of the commodities involved. The drouth was a more important factor in reducing production than the adjustment programs, yet if it had not been for the corn-sealing program there would have been but little corn in the hands of farmers at the time the major price advance became effective.

Factors Helping to Analyze the Farm Business on 32
Pike and Brown County Farms in 1934

Items	Your farm	Average of 32 farms	11 most profitable farms	11 least profitable farms
Size of farms--acres - - - - -	_____	249.7	339.3	204.4
Percent of land area tillable- - -	_____	75.5	74.2	66.5
Percent of tillable land in hay and pasture - - - - -	_____	49.7	44.4	57.1
Gross receipts per acre- - - - -	_____	11.81	15.14	6.81
Total expenses per acre- - - - -	_____	8.73	8.17	9.01
Net receipts per acre- - - - -	_____	3.08	6.97	-2.20
Value of land per acre - - - - -	_____	71	75	56
Total investment per acre- - - - -	_____	102	109	82
Acres in Corn- - - - -	_____	48.6	77.3	24.4
Oats- - - - -	_____	17.3	26.1	12.1
Wheat - - - - -	_____	13.3	14.8	10.5
Hay - - - - -	_____	27.6	32.7	22.9
Tillable pasture- - - - -	_____	66.1	79.3	54.7
Crop yields--Corn, bu. per acre- -	_____	5.9	9.0	2.8
Oats, bu. per acre- -	_____	6.9	9.5	1.8
Wheat, bu. per acre -	_____	17.6	24.1	11.7
Value of feed fed to productive L.S.	_____	2 370	3 839	1 215
Returns per \$100 of feed fed to productive livestock- - - - -	_____	120	130	111
Returns per \$100 invested in:				
Cattle- - - - -	_____	80	85	55
Poultry - - - - -	_____	175	115	192
Pigs weaned per litter - - - - -	_____	6.4	6.3	6.4
Income per litter farrowed - - - -	_____	91	92	77
Dairy sales per dairy cow- - - - -	_____	26	23	24
Investment in productive L.S. per A.	_____	7.11	9.34	4.78
Receipts from productive L.S. per A.	_____	11.41	14.67	6.58
Man labor cost per crop acre - - -	_____	6.34	5.25	9.69
Machinery cost per crop acre - - -	_____	2.01	2.24	1.61
Power and mach. cost per crop A. -	_____	3.22	3.27	3.37
Farms with tractor - - - - -	_____	69%	82%	45%
Value of feed fed to horses- - - -	_____	134	242	165
Man labor cost per \$100 gross income- - - - -	_____	26	13	57
Expenses per \$100 gross income - -	_____	74	54	132
Farm improvements cost per acre- -	_____	.80	.91	.62
Excess of sales over cash expenses	_____	1 759	2 901	784
Increase in inventory- - - - -	_____	-307	111	-465
Rate earned on investment- - - - -	_____	3.01%	6.40%	-2.68%
Gross receipts per farm- - - - -	_____	2 949	5 138	1 392

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Chart for Studying the Efficiency of Various Parts of Your Business,
Pike and Brown Counties, 1934

The numbers above the lines across the middle of the page are the averages for the 32 farms included in this report for the factors named at the top of the page. By drawing a line across each column at the number measuring the efficiency of your farm in that factor, you can compare your efficiency with that of other farmers in your locality.

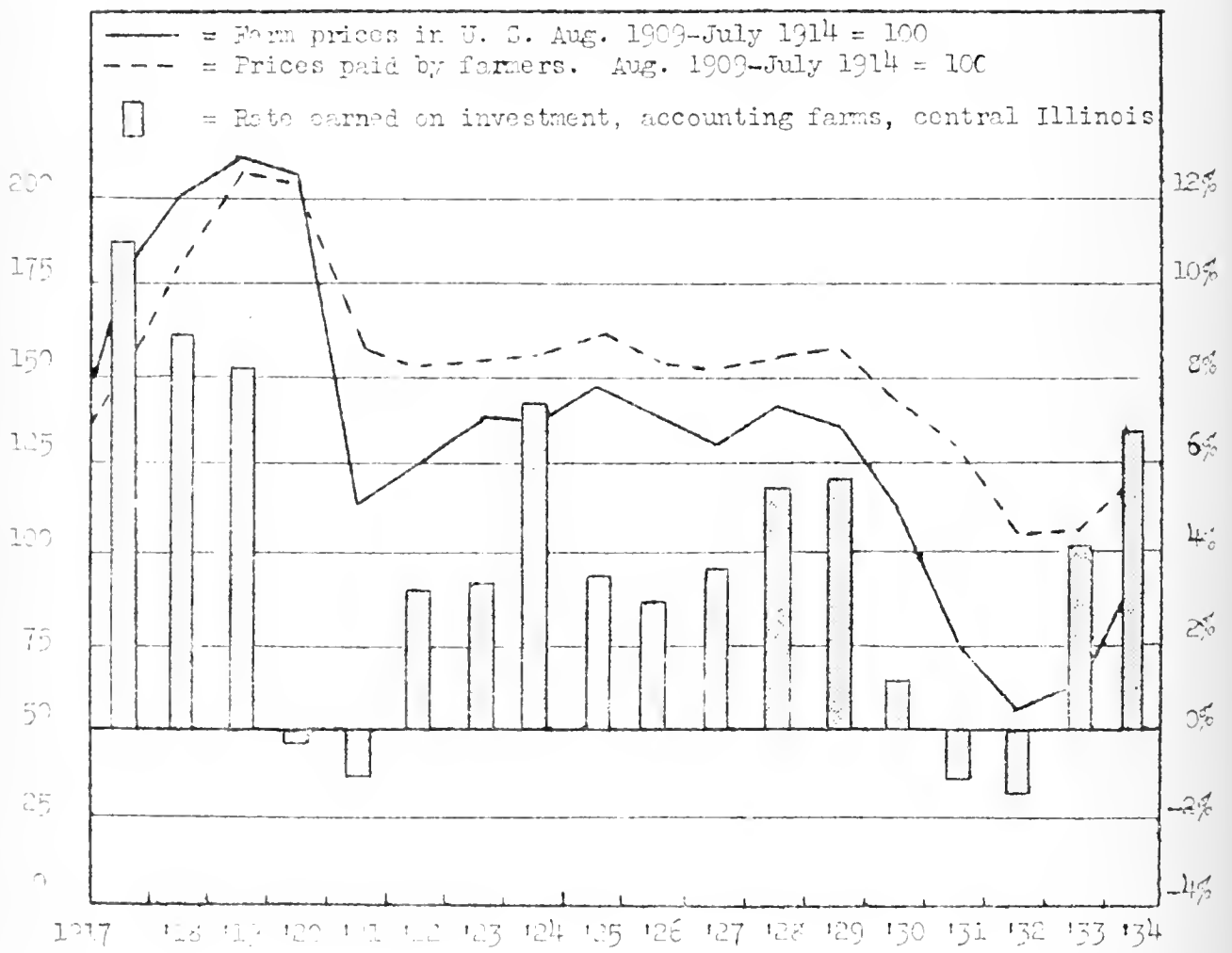
Rate earned on investment	Bushels per acre			Hogs: Income per litter	Dairy sales per dairy cow	Poultry income per \$100 invested	L.S. income per \$100 of feed fed	Cost per crop acre		Labor cost per \$100 gross receipts	Increase in inventory	Sales over cash expenses	Gross receipts		Acres in farm
	Corn	Oats	Wheat					Labor	Power and machinery				Per acre	Per farm	
13.0	16	22	33	141	56	300	170	--	--	--	1700	4250	27	6700	450
11.0	14	19	30	131	50	275	160	.25	--	2	1300	3750	24	5950	410
9.0	12	16	27	121	44	250	150	1.75	.22	8	900	3250	21	5200	370
7.0	10	13	24	111	38	225	140	3.25	1.22	14	500	2750	18	4450	330
5.0	8	10	21	101	32	200	130	4.75	2.22	20	100	2250	15	3700	290
3.01	5.9	6.9	17.6	91	26	175	120	6.34	3.22	26	-307	1759	11.81	2949	249.7
1.0	4	4	15	81	20	150	110	7.75	4.22	32	-700	1250	9	2200	210
-1.0	2	1	12	71	14	125	100	9.25	5.22	38	-1100	750	6	1450	170
-3.0	0	--	9	61	8	100	90	10.75	6.22	44	-1500	250	3	700	130
-5.0	--	--	6	51	2	75	80	12.25	7.22	50	-1900	--	0	--	90
-7.0	--	--	3	41	--	50	70	13.75	8.22	56	-2300	--	--	--	50

Influence of Price Changes on Farm Earnings

Farm prices in 1934 advanced more rapidly than did the prices of commodities which farmers bought. Farmers of the United States as a group could exchange their farm products in 1934 for 74 percent as many goods as for the period 1909-1914, while in 1933 they received only 64 percent, and 1932 only 61 percent as much in exchange for what they had to sell as in the prewar period. In the month of February, 1935, this index of purchasing power had increased to 57 percent of prewar, the index of farm prices having risen to 111 as compared with an index of 127 for commodities which farmers buy. When the line representing farm prices drops below the line representing prices paid by farmers, farm earnings are very low, but when these lines come close together farm earnings increase. (See following graph.)

Index of Prices

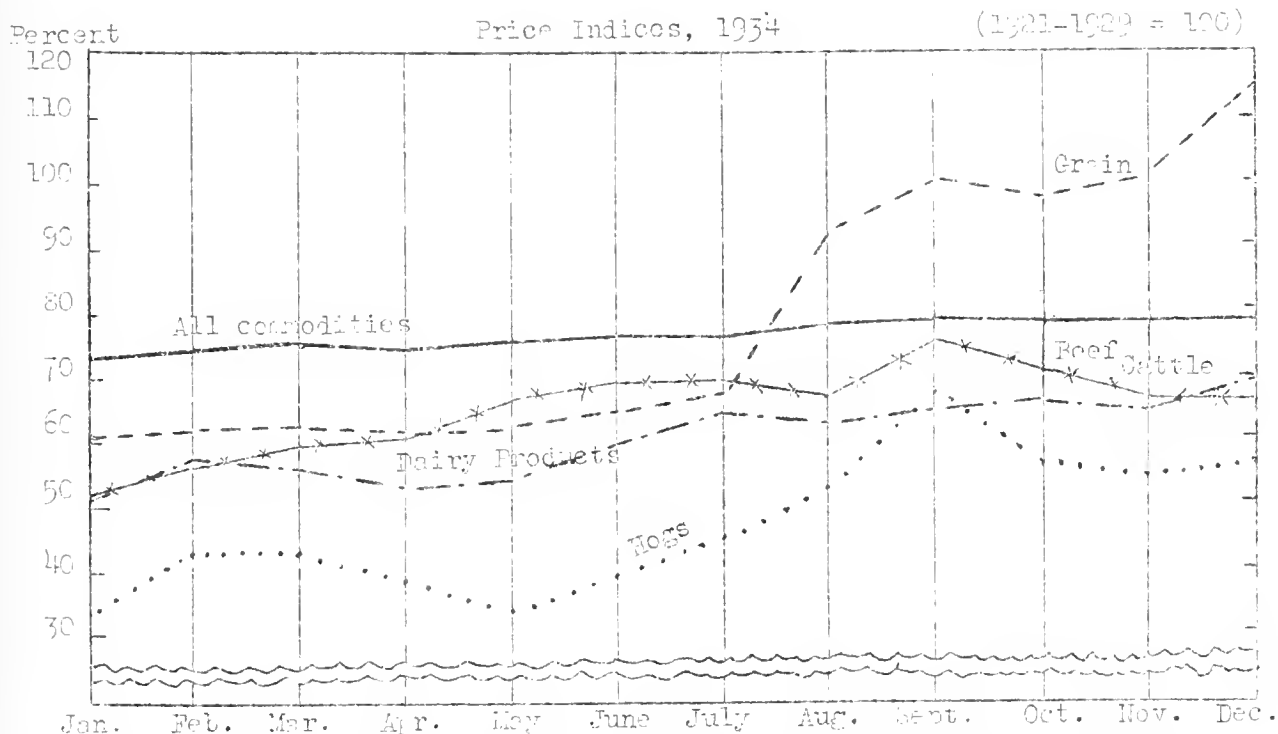
Rate Earned



Since the price of some farm products advanced much more rapidly during 1934 than other products, it is evident that some farms would benefit more than others, depending upon the kind and quantity of products sold. Grain prices advanced much more rapidly than livestock prices; which resulted in a very bad price ratio for farmers who buy large quantities of feed. The average Illinois farm price of corn was 41 cents a bushel in January, 1934; it advanced steadily until the end of the year when it was 88 cents a bushel. Other grains made marked advance although not so great an advance as corn. The price of hogs fluctuated from a low of \$3.80 a hundred in May to a high of \$6.30 in September. The low point in the fall came in November when the average price was \$5.10. The price has advanced quite rapidly since November, the average price being \$7.50 for February, 1935. Beef cattle were worth \$4.10 a hundred in January, 1934 and advanced each month until September, when the price was \$5.90. They dropped to \$5.20 in December but increased again to \$7.40 for February, 1935.

The year 1934 set a record for the reduction in the numbers of livestock. The percentage decreases by species were as follows: horses, 1.1 percent; mules, 2.6 percent; all cattle, 11.2 percent; sheep, 4.7 percent; hogs, 35.3 percent. When all species are combined on the basis of their capacity to consume feed, the reduction was 13 percent. This reduction will greatly reduce the demand for feeds produced in 1935.

The relative change in prices of important commodities may be noted in the following graph, which shows the average Illinois farm prices by months as a percentage of the average prices for the period 1921-1929.



All commodities index represents the wholesale price of a large number of commodities for the United States, as computed by Bureau of Labor Statistics. Grain and livestock indices represent average monthly farm prices in Illinois.

Variation in Earnings Over Five-Year Period

A comparison of production, income, and expenditures on the accounting farms in Pike and Brown Counties for the last five years is very interesting because of the violent fluctuations in price level. Although the 1934 crop was nearly a failure, and followed a smaller than average crop of 1933, the increased prices of both grain and livestock did have considerable effect in holding earnings in second place for the five-year period 1930-1934.

Earnings in 1935, as usual, will depend upon individual efficiency, weather, and prices. With normal weather conditions, prices of grain are likely to go down to a more normal level which will give individual efficiency the responsibility for higher earnings on each farm.

Comparison of Earnings and Investments on Accounting Farms in
Pike and Brown Counties for 1930-1934

Items	1930 ^{1/}	1931 ^{2/}	1932	1933 ^{3/}	1934
Number of farms - - - - -	52	43	30	47	32
Average size of farms, acres - - - -	244	218	248	252	250
Average rate earned, to pay for management, risk and capital - - -	2.0%	-2.1%	-1.5%	5.1%	3.0%
Average labor and management wage -	\$-446	\$-1 544	\$-1 309	\$535	\$ 8
Gross income per acre - - - - -	16.21	9.43	7.39	12.24	11.81
Operating cost per acre - - - - -	13.18	12.34	9.09	6.79	8.73
Average value of land per acre - - -	105	93	72	82	71
Total investment per acre - - - - -	153	137	110	108	102
Investment per farm in:					
Total livestock- - - - -	3 804	2 870	2 621	1 496	2 067
Cattle - - - - -	1 942	1 363	1 426	667	1 144
Hogs - - - - -	1 044	845	654	328	461
Poultry- - - - -	153	120	80	80	45
Gross income per farm - - - - -	3 947	2 056	1 834	3 087	2 949
Income per farm from:					
Crops- - - - -	----	----	----	1 559	----
Miscellaneous income - - - - -	64	47	52	36	5
Total livestock- - - - -	3 883	2 009	1 782	1 492	2 886
Cattle - - - - -	680	415	483	263	849
Dairy sales- - - - -	302	211	180	161	96
Hogs - - - - -	2 654	1 211	983	902	1 738
Poultry- - - - -	218	152	104	29	32 77
Average yield of corn in bu. - - - -	33	42	35	42	6
Average yield of wheat in bu. - - -	22	24	34	17	18

^{1/} Records from Pike, Brown, Menard, and Cass Counties included for 1930.

^{2/} Records from Pike, Cass, and Brown Counties included for 1931.

^{3/} Records from Cass, Mason, Pike, and Brown Counties included for 1933.

ANNUAL FARM BUSINESS REPORT ON FORTY-NINE FARMS
IN MADISON COUNTY, ILLINOIS, 1934

P. E. Johnston, T. R. Hedges, and J. E. Wills*

Farm earnings of the 49 account keeping farmers in Madison County showed an increase in 1934 over those of 1933. This is the second consecutive year of improvement in the earnings, and the highest year since 1929.

These 49 accounts show for 1934 an average net income of \$794 per farm, as compared with an average of \$265 in 1933 and an average net loss of \$424 in 1932. The average cash income in 1934 was \$2,748 per farm, the cash business expenditures \$1,560 per farm, leaving a cash balance of \$1,188 to meet interest payments and family living expenses. (Those who keep home account books use the latter figure to represent the cash contribution of the farm to the "realized family income".) Besides the cash income, there was an inventory increase of \$275 a farm due mostly to the rise in prices of farm products. This increase added to the cash balance, resulted in an average excess of receipts over expenses of \$1,463 a farm. Both the inventory increase and the cash balance were larger in 1934 than in 1933.

These data must not be considered representative of average farm conditions, for they were secured from farms which are larger than average, and which were managed by farmers who are more efficient than the average of all farmers in the county.

For the state as a whole, farm earnings were better in 1934 than in 1933, in spite of the fact that corn and oat yields were very low due to the drouth and to chinch bug damage. In the western and southwestern parts of the state the drouth caused an almost total failure of both corn and oats, which accounts for farm earnings being lower there than in other parts of the state.

The corn crop was best in the southeastern part of the state, and was fair in the northwestern section. Wheat yields were particularly good in the south and central portions of the state. Soybean yields were very good throughout the state, and there was a larger than normal acreage in Illinois in 1934. This state produced over half of the nation's 1934 crop of soybeans.

Chinch bug damage extended over most of the state last year but was much more severe in some sections than in others, and was much worse on some farms than on other farms in the same community. Conditions affecting crop yields were very spotted; which accounts in part for the wide variation in farm earnings from one section of the state to another, and the wider variations than usual from one farm to another.

*T. W. May, farm adviser in Madison County, cooperated in supervising and collecting the records on which this report is based.

Industries other than agriculture again showed improved earnings over the previous year. A group of 340 industrial corporations reported by a nationally known bank showed average earnings of 5.0 percent on their invested capital in 1934, as compared with 3.4 percent for the same corporations in 1933. A similar group had a loss of one-tenth of one percent in 1932 and average earnings of 3.3 percent in 1931.

In comparing the average earnings of corporations with the rate earned on investments on accounting farms, it is well to keep in mind that in corporation accounting, charges are made for management, while in the farm accounts no comparable deduction has been made. On the other hand the farmer and his family receive food, fuel, and other items of living from the farm for which the farm has received no credit in the records used in this report. For the average central Illinois farm family, consisting of five persons, the value of the food and fuel furnished by the farm was about \$300 in 1934, when estimated on the basis of the wholesale price for farm products.

Variations in Farm Incomes

There was a much wider range in farm earnings on the accounting farms in 1934 than in 1933. This was true for the farms included in this report, and was also true when the average earnings of farms in one section of the state were compared with the earnings of farms in other areas.

The extremely wide range in earnings was due to a combination of physical and economic factors. The average yield of wheat and soybeans was much better, compared with the five-year average, than the average yields of corn and oats. This variation favored those sections which had larger acreages of the higher yielding crops in 1934. There was also a wide range in average corn yields from one section of the state to another, as well as between individual farms in the same area. The price of grains was high in 1934 as compared with prices of livestock and livestock products. Farms where grain sales constitute a large part of the farm income thus had an advantage. The rapid increase in the prices of farm products, particularly grains, favored those farms which had large stocks of salable products on hand at the beginning of the year. Many farmers who inventoried the corn on hand at the beginning of 1934 at 40 cents a bushel, later sold this corn for 80 cents.

In this group of 40 accounting farms the most successful third shows an average net income of \$1,435, while the average net income on the least successful third of the farms was \$176. In 1933 the comparable net income for the two groups was \$685 and \$-343 respectively.

-3-
Investments, Receipts, Expenses and Earnings on
49 Madison County Farms in 1934

Items	Your farm	Average of 49 farms	16 most profitable farms	16 least profitable farms
<u>CAPITAL INVESTMENTS</u>				
Land - - - - -		9 374	9 883	8 577
Farm improvements- - - - -		2 759	2 576	2 758
Livestock total- - - - -		1 299	1 411	1 009
Horses - - - - -		320	310	269
Cattle - - - - -		735	208	514
Hogs - - - - -		132	165	112
Sheep- - - - -		14	11	21
Poultry- - - - -		98	117	33
Machinery and equipment- - - - -		1 305	1 369	1 065
Feed and grains		1 035	1 122	919
Total capital investment- - -	\$ _____	\$15 772	\$16 361	\$14 325
<u>RECEIPTS AND NET INCREASES</u>				
Livestock total- - - - -		1 502	1 598	1 023
Horses - - - - -		19	18	16
Cattle - - - - -		127	158	100
Hogs (including AAA payments)-		309	371	229
Sheep- - - - -		21	11	33
Poultry- - - - -		120	199	42
Egg sales- - - - -		141	214	105
Dairy sales- - - - -		765	927	498
Feed and grain (including AAA payments) - - - - -		817	877	725
Labor off farm - - - - -		78	106	84
Miscellaneous receipts - - - - -		2	6	1
Total receipts & net increases	\$ _____	\$ 2 400	\$ 2 887	\$ 1 833
<u>EXPENSES AND NET DECREASES</u>				
Farm improvements- - - - -		171	109	192
Horses - - - - -		---	---	---
Miscellaneous livestock decreases		---	---	---
Machinery and equipment- - - - -		242	193	242
Feed and grains- - - - -		---	---	---
Livestock expense- - - - -		25	34	19
Crop expense - - - - -		152	141	155
Hired labor- - - - -		155	160	184
Taxes- - - - -		165	146	163
Miscellaneous expenses - - - - -		27	26	27
Total expenses & net decreases	\$ _____	\$ 937	\$ 809	\$ 982
<u>RECEIPTS LESS EXPENSES-</u> - - - - -	\$ _____	\$ 1 463	\$ 2 078	\$ 851
Total unpaid labor- - - - -		669	643	675
Operator's labor - - - - -		411	420	394
Family labor - - - - -		258	223	281
Net income from investment and management- - - - -		794	1 435	176
<u>RATE EARNED ON INVESTMENT</u> - - - - -	%	5.03%	8.77%	1.23%
return to capital and operator's labor and management- - - - -		1 205	1 855	570
% of capital invested- - - - -		789	818	716
<u>LABOR AND MANAGEMENT WAGE</u> - - - - -	\$ _____	\$ 416	\$ 1 037	\$ -146

The following table shows the number of farms having certain net incomes per acre. There was a marked difference between the most successful and the least successful farms.

<u>Average net income</u> <u>per acre</u>	<u>Number of</u> <u>farms</u>	<u>Average net income</u> <u>per acre</u>	<u>Number of</u> <u>farms</u>
15.	1	\$5.	6
13.	2	3.	14
11.	2	1.	7
9.	3	-1.	1
7.	11	-3.	2

A further study of the farm businesses, made by comparing the investments, receipts and expenses of the group of farms having the highest net income with those having the lowest, will throw some light on the question of why some farmers are more successful than others. This comparison is shown in the table on page 5.

The most successful farms average 169 acres each; the least successful 149 acres. This difference in size accounts in part for the variation in the average investment, receipts, and expenses in the two groups. Difference in receipts from the sales of livestock and livestock products accounts for much of the difference in income between the two groups.

The year 1934 was similar to 1933 in that the prices of farm products continued to advance, causing further increases in inventory values. Owing to the poor crop yields in 1934 there were fewer bushels of grain on hand to inventory at the end of the year than at the beginning. The value of the smaller amount of grain, however, was greater than for the larger amount on hand at the beginning of the year.

Bushels of Corn Inventoried

	Jan. 1, 1934	Dec. 31, 1934
Average of all farms.	577	192
Average of 16 most successful farms .	722	302
Average of 16 least successful farms.	515	161
Year farm.		

The carry-over of corn on Madison County farms is not a large item, but it was significant in 1934 because of the rapid increase of corn prices.

The average inventory increase for the accounting farms in Madison County was \$275, as compared with decreases of \$148 in 1933 and \$638 in 1932. There were decreases of \$3 in livestock and \$45 in improvements, and increases of \$258 in feed and grain, and \$70 in machinery. Such an increase in inventory as that for machinery results from the value of new replacements during the year being in excess of the depreciation. This increase is of considerable interest, for it is the first time that such an increase in machinery has occurred since farm earnings began to decline so drastically with the general depression.

Inventory Changes for 1934

Items	Beginning	Closing	Inventory	Inventory
	inventory	inventory	changes	changes
	1-1-34	12-31-34	1934	Your farm
Total livestock.	\$1 299	\$1 291	\$ -3	3
Feed and grains.	1 035	1 293	258	
Machinery.	1 305	1 375	70	
Improvements (except residence).	2 759	2 714	-45	
Total.	\$6 398	\$ 673	\$275	\$

Some Adjustments on Madison County Farms Since 1929

Farmers have been forced to make adjustments in their cash expenditures as the result of changes in their cash income. From 1930 through 1933, farm operating costs declined each year, but the year 1934 brought a reversal of this trend. The total operating expenses were 53 cents an acre higher in 1934 than in 1933, while cash operating expenses were \$1,566 a farm in 1934 as compared with \$1,048 in 1933. The largest increase in cash expenses over the previous year was for machinery and repairs for machinery. Indications point to an even greater expansion of spending for these items in 1935, since farmers have postponed machinery replacements during the four-year period since 1930.

Cash Income and Expenses on Accounting Farms in Madison County for 1929 and 1934

Items	Your	Average cash		Your	Average cash	
	farm	expense	per farm	farm	income	per farm
	1934	1934	1929	1934	1934	1929
Livestock	\$	\$ 136	\$ 352	\$	\$1 646	\$3 240
Feed and grains		319	638		279	615
Machinery		454	443		142	51
Improvements.		127	264		1	4
Labor		155	201		73	80
Miscellaneous		27	27		2	10
Livestock expense		25	25		---	---
Crop expense.		152	133		---	---
Taxes		165	169		---	---
Total	\$	\$1 566	\$2 062	\$	\$2 743	\$3 000
Excess of cash sales over expenses	\$			\$	\$1 132	\$1 732
Increase in inventory.					275	249
Income to labor and capital (Receipts less expenses)					1 455	1 987

The cash expense in 1934 was 69 percent of the 1929 figure, and the cash income in 1934 was also 69 percent of the 1929 figure. In other words, the relationship of total cash income to total cash expense was the same in 1934 as it was in 1929, but the total amounts were 31 percent less. However, there was considerable difference in the distribution of expenses. In 1934, livestock bought was 38 percent, feed 50 percent, improvements 48 percent, and labor 77 percent of the cash expenditures for these items in 1929. Machinery and crop expenses were higher in 1934 than in 1929, and miscellaneous expenses, livestock expenses, and taxes were practically the same. These figures indicate that the relatively higher cash outlay in 1934 was only for items that had to do directly with the operation of the farm and the repair and replacement of needed machinery, while repairs on improvements and other expenditures were being held to a minimum.

The cash income from livestock in 1934 was only 51 percent of the 1929 figure, while the cash income from the sale of crops in 1934 was 43 percent higher than the corresponding figure in 1929. This reflects the relatively high prices of grain as compared with the price of livestock and livestock products.

Comparison of Farms With High and Low Earnings

The most profitable farms in this study had net receipts per acre of \$8.50, as compared with \$1.18 for the least profitable group. The reasons for this difference may be obtained from a study of the data on pages 3 and 8.

The most profitable farms were 19.9 acres larger, and had 15.3 more crop acres than the least profitable farms. They also carried larger inventories of both crops and livestock on which to make a profit when prices advanced.

The most profitable farms were more intensive and more efficient in their livestock production than the least profitable farms. They had an investment in productive livestock of \$6.43 per acre, and fed \$1,431 of feed per farm, as compared to \$4.64 per acre and \$1,008 per farm on the least profitable farms. The livestock on the most profitable farms returned \$131 for each \$100 of feed fed them, as compared to \$100 returns for \$100 of feed fed on the least profitable farms.

Crop yields, while important, were not enough higher on the most profitable farms to account for much of the difference in earnings. This difference in yields was only 2.2 bushels for corn, 2.5 bushels for oats, and .5 bushels for wheat.

Higher total operating expenses on the least profitable farms, amounting to \$4.53 an acre, was an important factor in the reduced net earnings of this group. Every item of expense except livestock expense was higher on the least profitable farms. Man labor costs per crop acre were \$6.76 on the most profitable farms, as compared to \$8.41 on the least profitable farms, while power and machinery costs per crop acre amounted to \$3.20 on the most profitable farms, and \$4.46 on the least profitable farms.

Influence of AAA Programs on Cropping Systems and Farm Incomes

The farm-account records in Illinois were influenced both directly and indirectly by the corn-hog and wheat adjustment programs. A large percentage of accounting farms were under one or both contracts in 1934. The acreages of corn and wheat on these farms were therefore less than normal. This should have resulted in lower operating costs. Corn-hog benefit payments for the entire 1934 program will total about 40 million dollars for the state, while wheat benefit payments will be about 2.4 million dollars.

The benefit payments for accounting farms are indicated in the following table, which shows the average payment for those farms receiving payments, and includes only those payments received by the cooperator before the 1934 books were closed. In some cases only the first corn-hog check is included, while in other cases the second check had been received. The second payments not received and the third payments will be entered in the 1935 books.

AAA Benefit Payments Received in 1934

	Corn		Wheat		Hogs		Average of all payments ^{1/}
	Number of farms	Amount per farm	Number of farms	Amount per farm	Number of farms	Amount per farm	
1/3 most profitable farms	14	\$55	14	\$130	13	\$75	\$227
1/3 least profitable farms	14	39	13	120	11	56	170
All accounting farms	41	49	42	124	35	70	202

^{1/} Total benefit payments reported by accounting farms under contract for 1934 divided by total number of accounting farms.

As an average of all accounting farms, the payments actually received (\$202), were more than sufficient to pay all of the 1934 taxes, (\$165).

It is interesting to note the use made of the contracted acres on the accounting farms. The average farm had 14.7 contracted acres which were used as follows: 4.4 idle; 1.4 red clover; 2.9 sweet clover; 2.0 soybeans and cowpeas; 2.1 alfalfa and 1.9 acres were in other crops. These data indicate that most farmers made good use of their contracted acres from the standpoint of soil improvement, as most of them were in legumes. When the Government restrictions on the use of crops grown on contracted acres were removed, they were on many farms the most profitable crops as they furnished hay and pasture where badly needed in drouth areas. The legumes had the further advantage of being immune to attack from chinch bugs.

Farm earnings were influenced indirectly by the AAA programs in that the reduction in production increased the price of the commodities involved. The drouth was a more important factor in reducing production than the adjustment programs, yet if it had not been for the corn-sealing program there would have been but little corn in the hands of farmers at the time the major price advance became effective.

Factors Helping to Analyze the Farm Business on
47 Madison County Farms in 1934

Items	Your farm	Average of 49 farms	16 most profitable farms	16 least profitable farms
Size of farms--acres - - - - -	_____	162.6	168.9	149
Percent of land area tillable- - - - -	_____	84.5	83.7	82.8
Percent of tillable land in hay and pasture- - - - -	_____	39.5	36.6	37.6
Gross receipts per acre- - - - -	_____	14.76	17.09	12.30
Total expenses per acre- - - - -	_____	9.88	8.59	11.12
Net receipts per acre- - - - -	_____	4.88	8.50	1.18
Value of land per acre - - - - -	_____	52	59	58
Total investment per acre- - - - -	_____	97	97	96
Acres in Corn- - - - -	_____	29.7	35	26
Oats- - - - -	_____	11.2	10.6	9.9
Wheat - - - - -	_____	35.7	39.3	32.7
Soybeans- - - - -	_____	1.4	1.6	1.8
Hay - - - - -	_____	25.1	24.7	20.9
Tillable pasture- - - - -	_____	29.2	26.5	25.4
Crop yields--Corn, bu. per acre- - -	_____	12.7	14.5	12.3
Oats, bu. per acre- - -	_____	11.8	12.5	10
Wheat, bu. per acre - -	_____	24.1	24.2	23.7
Value of feed fed to productive L.S.	_____	1 224	1 431	1 008
Returns per \$100 of feed fed to productive livestock- - - - -	_____	121	131	100
Returns per \$100 invested in:				
Cattle- - - - -	_____	125	137	127
Poultry - - - - -	_____	249	308	166
Pigs weaned per litter - - - - -	_____	6.7	6.3	6.6
Income per litter farrowed - - - - -	_____	77	74	73
Dairy sales per dairy cow- - - - -	_____	67	72	54
Investment in productive L.S. per A.	_____	5.90	6.43	4.64
Receipts from productive L.S. per A.	_____	9.12	11.13	6.76
Man labor cost per crop acre - - - - -	_____	7.32	6.76	8.41
Machinery cost per crop acre - - - - -	_____	2.24	1.70	2.47
Power and mach. cost per crop A. - - -	_____	4.00	3.20	4.46
Farms with tractor - - - - -	_____	69.4%	81%	69%
Value of feed fed to horses- - - - -	_____	210	242	211
Man labor cost per \$100 gross income- - - - -	_____	33	26	45
Expenses per \$100 gross income - - -	_____	67	50	90
Farm improvements cost per acre- - -	_____	1.05	.65	1.29
Excess of sales over cash expenses -	_____	1 133	1 570	676
Increase in inventory- - - - -	_____	275	50	175
Rate earned on investment- - - - -	_____	5.03	6.77	1.23
Gross receipts per farm- - - - -	_____	2 400	2 337	1 833

Chart for Studying the Efficiency of Various Parts of Your Business,
Madison County, 1934

The numbers above the lines across the middle of the page are the averages for the 49 farms included in this report for the factors named at the top of the page. By drawing a line across each column at the number measuring the efficiency of your farm in that factor, you can compare your efficiency with that of other farmers in your locality.

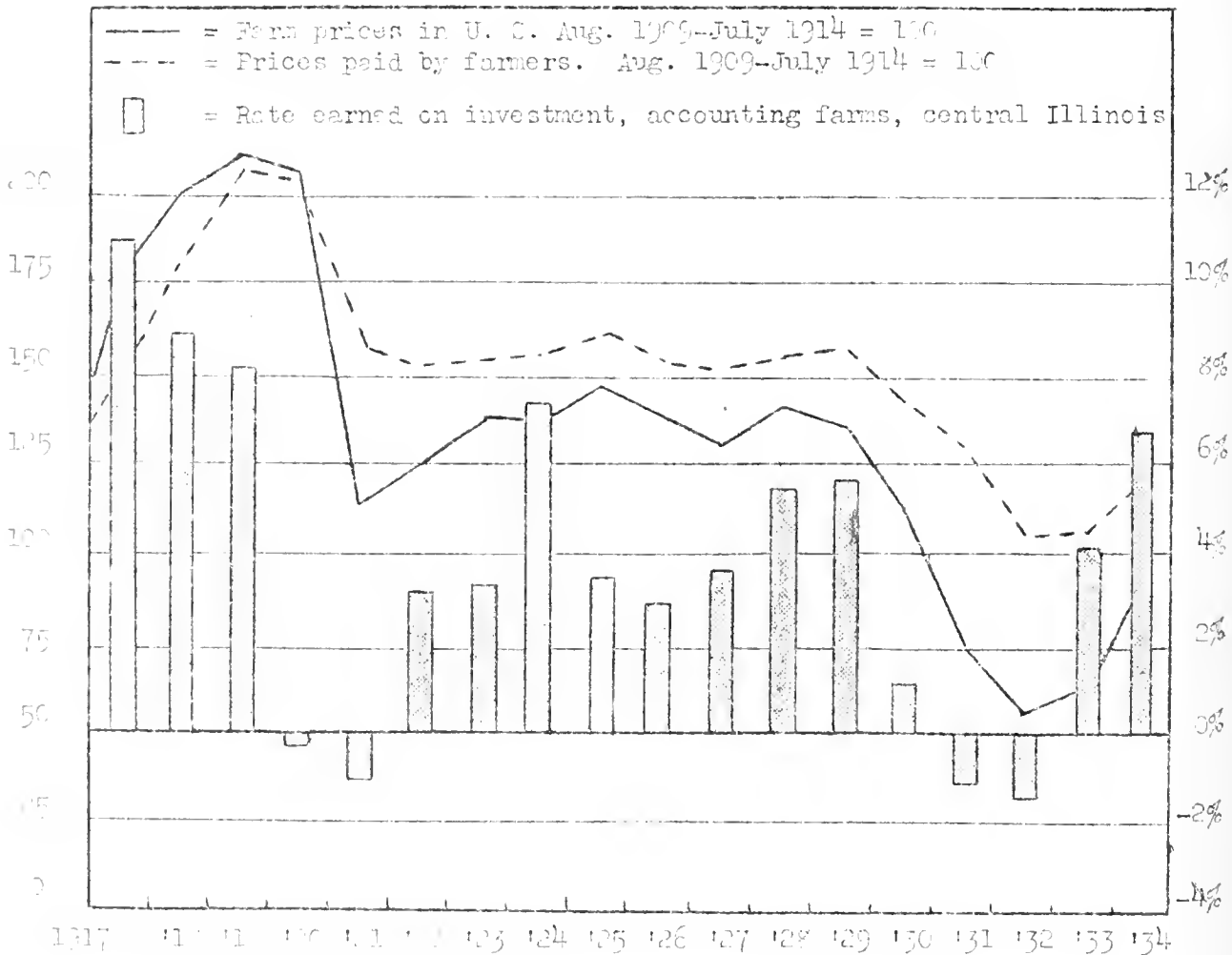
Rate earned on investment	Bushels per acre			Hogs: Income per litter	Dairy sales per dairy cow	Poultry income per \$100 invested	L.S. income per \$100 of feed fed	Cost per crop acre		Labor cost per \$100 gross receipts	Increase in inventory	Sales over cash expenses	Gross receipts		Acres in farm
	Corn	Oats	Wheat					Labor	Power and machinery				Per acre	Per farm	
10	25.0	32	34	127	117	450	221	1.32	--	--	1275	2700	25	4400	263
9	22.5	28	32	117	107	410	201	2.52	--	--	1075	2400	23	4000	243
8	20.0	24	30	107	97	370	181	3.72	1.00	5	875	2100	21	3600	223
7	17.5	20	27	97	87	330	161	4.92	2.00	13	675	1800	19	3200	203
6	15.0	16	26	87	77	290	141	6.12	3.00	23	475	1500	17	2800	183
5.03	12.7	11.8	24.1	77	67	240	121	7.32	4.00	33	275	1133	14.76	2400	162.6
4	10.0	8	22	67	57	210	101	8.52	5.00	43	75	900	13	2000	143
3	7.5	4	20	57	47	170	81	9.72	6.00	53	-125	600	11	1600	123
2	5.0	--	18	47	37	130	61	10.92	7.00	63	-325	300	9	1200	103
1	2.5	--	16	37	27	90	41	12.12	8.00	73	-525	0	7	800	83
0	0	--	14	27	17	50	21	13.62	9.00	83	-725	-500	5	400	63

Influence of Price Changes on Farm Earnings

Farm prices in 1934 advanced more rapidly than did the prices of commodities which farmers bought. Farmers of the United States as a group could exchange their farm products in 1934 for 74 percent as many goods as for the period 1909-1914, while in 1933 they received only 64 percent, and 1932 only 61 percent as much in exchange for what they had to sell as in the prewar period. In the month of February, 1935, this index of purchasing power had increased to 87 percent of prewar, the index of farm prices having risen to 111 as compared with an index of 127 for commodities which farmers buy. When the line representing farm prices drops below the line representing prices paid by farmers, farm earnings are very low, but when these lines come close together farm earnings increase. (See following graph.)

Index of Prices

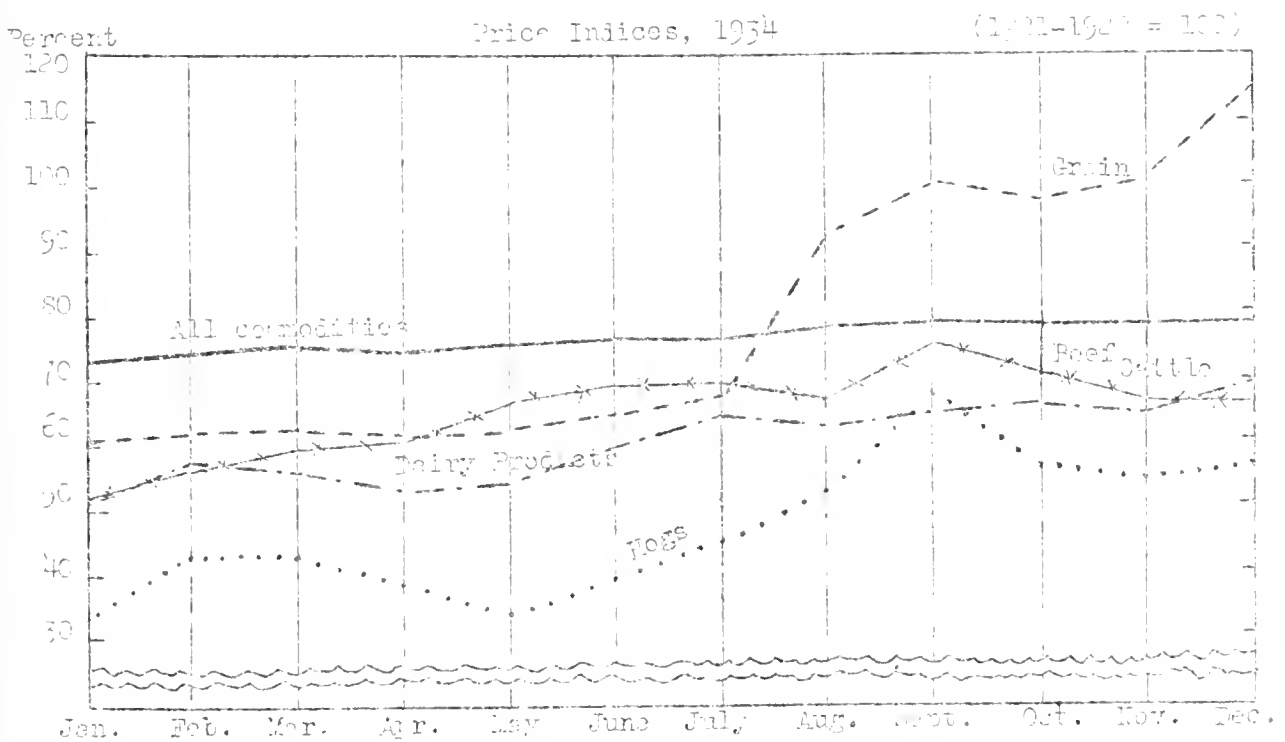
Rate Earned



Since the price of some farm products advanced much more rapidly during 1934 than other products, it is evident that some farms would benefit more than others, depending upon the kind and quantity of products sold. Grain prices advanced much more rapidly than livestock prices; which resulted in a very bad price ratio for farmers who buy large quantities of feed. The average Illinois farm price of corn was 41 cents a bushel in January, 1934; it advanced steadily until the end of the year when it was 88 cents a bushel. Other grains made marked advance although not so great an advance as corn. The price of hogs fluctuated from a low of \$7.20 a hundred in May to a high of \$6.30 in September. The low point in the fall came in November when the average price was \$5.10. The price has advanced quite rapidly since November, the average price being \$7.50 for February, 1935. Beef cattle were worth \$4.10 a hundred in January, 1934 and advanced each month until September, when the price was \$5.90. They dropped to \$5.20 in December but increased again to \$7.40 for February, 1935.

The year 1934 set a record for the reduction in the numbers of livestock. The percentage decreases by species were as follows: horses, 1.1 percent; mules, 2.6 percent; all cattle, 11.2 percent; sheep, 4.7 percent; hogs, 35.3 percent. When all species are combined on the basis of their capacity to consume feed, the reduction was 13 percent. This reduction will greatly reduce the demand for feeds produced in 1935.

The relative change in prices of important commodities may be noted in the following graph, which shows the average Illinois farm prices by months as a percentage of the average prices for the period 1921-1929.



All commodities index represents the wholesale price of a large number of commodities for the United States, as computed by Bureau of Labor Statistics. Grain and livestock indices represent average monthly farm prices in Illinois.

Variation in Earnings Over Five-Year Period

A comparison of production, income, and expenditures on the accounting farms in Madison County for the last five years is very interesting because of the violent fluctuations in price level. 1934 was the second year of low crop yields, yet total receipts per farm were higher than any other year since 1931 and because of relatively lower expenses the rate earned of 7.8 percent is the highest of any year during the past five.

Earnings in 1935 as usual will depend upon individual efficiency, weather, and prices. With normal weather conditions, prices of grain are likely to go down to a more normal level which will give individual efficiency the responsibility for higher earnings on each farm.

Comparison of Earnings and Investments on Accounting Farms in Madison County for 1930-1934

Items	1930	1931	1932	1933	1934
Number of farms - - - - -	41	47	35	33	49
Average size of farms, acres- - -	154	150	170.4	153.5	163
Average rate earned, to pay for management, risk and capital - -	1.6%	1.5%	42.30	1.75%	5.03%
Average labor and management wage	\$-77	\$-750	\$-307	\$-8	416
Gross income per acre - - - - -	17.7	10.35	8.30	11.06	14.76
Operating cost per acre - - - - -	10.14	12.66	11.12	9.38	9.38
Average value of land per acre- -	67	62	58	60	58
Total investment per acre - - - -	181	112	105	100	97
Investment per farm in:					
Total livestock- - - - -	2 206	2 117	1 607	1 422	1 209
Cattle - - - - -	1 415	1 250	925	849	735
Hogs - - - - -	253	234	150	14	132
Poultry- - - - -	254	133	147	128	93
Gross income per farm - - - - -	633	1 617	1 249	1 711	2 400
Income per farm from:					
Crops- - - - -	---	---	---	470	618
Miscellaneous income - - - - -	61	103	10	76	2
Total livestock - - - - -	584	1 531	1 150	1 186	1 502
Cattle - - - - -	27	---	---	127	127
Dairy value- - - - -	1 377	941	645	172	765
Hogs - - - - -	377	230	245	271	300
Poultry- - - - -	433	290	251	178	120
Average yield of corn in bushels - -	21	34	48	29	13
Average yield of wheat in bushels - -	15	17	18	17	24

ANNUAL FARM BUSINESS REPORT ON THIRTY-THREE FARMS
IN RANDOLPH COUNTY, ILLINOIS, 1934

P. E. Johnston, J. Ackerman, and J. B. Andrews*

The farm earnings of 33 account-keeping farmers in Randolph County showed an increase in 1934 over those of 1933. This is the second consecutive year of improvement in the business of these farms. The three years previous to 1933 showed very low returns.

These 33 accounts show for 1934 an average net income of \$817 per farm, as compared with an average of \$344 in 1933, and an average net loss of \$364 in 1932. The average cash income in 1934 was \$2,142 per farm, the cash business expenditures \$1,031 per farm, leaving a cash balance of \$1,111 to meet interest payments and family living expenses. (Those who keep home account books use the latter figure to represent the cash contribution of the farm to the "realized family income".) Besides the cash income, there was an inventory increase of \$367 per farm due to the rise in the prices of farm products. This increase, added to the cash balance, resulted in an average excess of receipts over expenses of \$1,478 per farm. The inventory increase was a larger part of the total farm income in 1934 than in 1933.

These data must not be considered representative of average farm conditions, for they were secured from farms which are larger than average, and which were managed by farmers who are more efficient than the average of all farmers in the county.

For the state as a whole, farm earnings were better in 1934 than in 1933, in spite of the fact that corn and oat yields were very low due to the drouth and to chinch bug damage. In the western and southwestern parts of the state the drouth caused an almost total failure of both corn and oats, which accounts for farm earnings being lower there than in other parts of the state.

The corn crop was best in the southeastern part of the state, and was fair in the northwestern section. Wheat yields were particularly good in the south and central portions of the state. Soybean yields were very good throughout the state, and there was a larger than normal acreage in Illinois in 1934. This state produced over half of the nation's 1934 crop of soybeans.

Chinch bug damage extended over most of the state last year, but was much more severe in some sections than in others, and was much worse on some farms than on other farms in the same community. Conditions affecting crop yields were very spotted. This accounts in part for the wide variation in farm earnings from one section of the state to another and the wider variations than usual from one farm to another.

*E. C. Secor, farm adviser in Randolph County, cooperated in supervising and collecting the records on which this report is based.

Industries other than agriculture again showed improved earnings over the previous year. A group of 840 industrial corporations reported by a nationally known bank showed average earnings of 5.0 percent on their invested capital in 1934, as compared with 3.4 percent for the same corporations in 1933. A similar group had a loss of one-tenth of one percent in 1932, and average earnings of 3.3 percent in 1931.

In comparing the average earnings of corporations with the rate earned on investment on accounting farms, it is well to keep in mind that in corporation accounting, charges are made for management, while in the farm accounts no comparable deduction has been made. On the other hand the farmer and his family receive food, fuel, and other items of living from the farm for which the farm has received no credit in the records used in this report. For the average central Illinois farm family, consisting of five persons, the value of the food and fuel furnished by the farm was about \$250 in 1934, when estimated on the basis of the wholesale price for farm products.

Variations in Farm Incomes

There was a much wider range in farm earnings on the accounting farms in 1934 than in 1933. This was true for the farms included in this report, and it was also true when the average earnings of farms in one section of the state are compared with the earnings of farms in other areas.

The extremely wide range in earnings was due to a combination of physical and economic factors. The average yields of wheat and soybeans were much better, compared with the five-year average, than the average yields of corn and oats. This variation favored those sections which had larger acreages of the higher yielding crops in 1934. There was also a wide range in average corn yields from one section of the state to another, as well as between individual farms in the same area. The price of grains was high in 1934 as compared with prices of livestock and livestock products. Farms where grain sales constitute a large part of the farm income thus had an advantage. The rapid increase in the prices of farm products, particularly grains, favored those farms which had large stocks of salable products on hand at the beginning of the year. Many farmers who inventoried the corn on hand at the beginning of 1934 at 40 cents a bushel, later sold this corn for 20 cents.

In this group of 35 accounting farms the most successful one-third shows an average net income of \$1,434, while the average net income of the least successful one-third of the farms was only \$213. In 1933 the comparable net incomes for the two groups was \$1,057, and \$-317 respectively.

Investments, Receipts, Expenses and Earnings on
33 Randolph County Farms in 1934

Items	Your farm	Average of 33 farms	11 most profitable farms	11 least profitable farms
CAPITAL INVESTMENTS				
Land - - - - -		7 723	7 469	8 052
Farm improvements- - - - -		2 379	2 199	2 540
Livestock total- - - - -		<u>1 030</u>	<u>950</u>	<u>966</u>
Horses - - - - -		304	265	324
Cattle - - - - -		519	519	429
Hogs - - - - -		95	98	99
Sheep- - - - -		14	--	18
Poultry- - - - -		98	63	96
Machinery and equipment- - - -		1 126	1 161	1 053
Feed and grains- - - - -		1 003	967	762
Total capital investment -	\$ _____	\$13 281	\$12 746	\$13 373
RECEIPTS AND NET INCREASES				
Livestock total- - - - -		<u>1 105</u>	<u>1 220</u>	<u>851</u>
Horses - - - - -		15	18	--
Cattle - - - - -		162	199	56
Hogs (including AAA payments)		206	251	162
Sheep- - - - -		29	--	30
Poultry- - - - -		51	37	52
Egg sales- - - - -		156	107	163
Dairy sales- - - - -		430	608	388
Feed and grains (including AAA payments) - - - - -		932	1 380	636
Labor off farm - - - - -		53	105	36
Miscellaneous receipts - - - - -		3	7	1
Total receipts & net increases	\$ _____	\$ 2 143	\$ 2 712	\$ 1 574
EXPENSES AND NET DECREASES				
Farm improvements- - - - -		107	118	108
Horses - - - - -		---	---	4
Miscellaneous livestock decreases <u>Sheep</u>		---	1	---
Machinery and equipment- - - - -		210	181	197
Feed and grains- - - - -		---	---	---
Livestock expense- - - - -		15	12	24
Crop expense - - - - -		133	154	114
Hired labor- - - - -		57	100	26
Taxes- - - - -		119	109	117
Miscellaneous expenses - - - - -		24	24	25
Total expenses & net decreases	\$ _____	\$ 665	\$ 699	\$ 615
RECEIPTS LESS EXPENSES- - - - -	\$ _____	\$ 1 478	\$ 2 013	\$ 959
Total unpaid labor- - - - -		661	579	746
Operator's labor - - - - -		409	420	420
Family labor - - - - -		252	159	326
Net income from investment and management- - - - -		817	1 434	213
RATE EARNED ON INVESTMENT - - - - -	%	<u>6.15%</u>	<u>11.25%</u>	<u>1.59%</u>
Return to capital and operator's labor and management- - - - -		1 226	1 854	633
5% of capital invested- - - - -		664	637	688
LABOR AND MANAGEMENT WAGE - - - - -	\$ _____	\$ 562	\$ 1 217	\$ 35

The following table shows the number of farms having certain net incomes per acre. There was a marked difference between the most successful and the least successful farms.

<u>Average net in-</u> <u>come per acre</u>	<u>Number of</u> <u>farms</u>	<u>Average net in-</u> <u>come per acre</u>	<u>Number of</u> <u>farms</u>
\$11	2	\$3	8
8	2	1	7
7	4	-1	1
5	9		

A further study of the farm businesses made by comparing the investments, receipts, and expenses of the group of farms with the highest net incomes, with those having the lowest incomes, should throw some light on the question of why some farmers are more successful than others. This comparison is shown in the table on page 3.

The most profitable farms had a smaller total capital investment than the least profitable farms, or the average of all the farms. Despite the smaller investment, the most profitable farms had higher total receipts and net increases, a major part of which was due to larger sales of feed and grains and dairy products. The most profitable farms also had higher returns from cattle and hogs.

Changes in Inventories and Inventory Values

The year 1934 was similar to 1933 in that the prices of farm products continued to advance, causing further increases in inventory values. Owing to the poor crop yields in 1934 there were fewer bushels of grain on hand to inventory at the end of the year than at the beginning. The value of the smaller amount of grain, however, was greater than for the larger amount on hand at the beginning of the year.

Bushels of Grain Inventoried

	<u>Corn</u>		<u>Wheat</u>	
	<u>Jan. 1, 34</u>	<u>Dec. 31, 34</u>	<u>Jan. 1, 34</u>	<u>Dec. 31, 34</u>
Average of all farms	550	250	319	347
Average of 11 high farms	563	322	203	313
Average of 11 low farms	327	138	221	274
Your farm				

The difference in quantities of grain inventoried was one of the factors influencing the difference in earning. The most profitable farms had a larger inventory of corn both at the beginning and at the end of the year, and a larger inventory of wheat at the end of the year than did the least profitable farms.

The average inventory increase for the accounting farms in Randolph County was \$367, as compared with \$115 in 1933, and a decrease of \$526 in 1932. There were increases of \$415 in feed and grain, and \$24 in livestock, as compared to decreases of \$38 in improvements, and \$34 in machinery. The inventory decrease in machinery and improvements was the smallest since 1929 on account-keeping farms, and indicates that needed repairs and replacements are being made but still not enough to offset the current depreciation costs.

Inventory Changes for 1934

Items	Beginning inventory 1-1-34	Closing inventory 12-31-34	Inventory changes 1934	Inventory changes your farm
Total livestock.	\$1 030	\$1 054	\$ 24	\$
Feed and grains.	1 003	1 418	415	
Machinery.	1 126	1 092	-34	
Improvements (except residence).	2 399	2 361	-38	
Total.	\$5 558	\$5 925	\$ 367	\$

Some Adjustments on Randolph County Farms Since 1929

Farmers have been forced to make adjustments in their cash expenditures as the result of changes in their cash incomes. From 1929 through 1933 farm operating costs declined each year, but the year 1934 brought a reversal of this trend. Total operating expenses were 13 cents an acre higher in 1934 than in 1933, while cash operating expenses were \$1,031 a farm in 1934 as compared with \$1,026 in 1933. There was a slight increase in expenditures over the previous year for crop expenses and improvements, and a slight decrease in expenses for taxes, livestock, and labor. Indications point to an increase of spending in 1935 for repairs and replacement of machinery and improvements, since farmers have postponed purchase of these items during the five-year period since 1929.

Cash Income and Expenses on Accounting Farms in Randolph County for 1929 and 1934

Items	Your farm 1934	Average cash expense per farm		Your farm 1934	Average cash income per farm	
		1934	1929		1934	1929
Livestock	\$	\$ 173	\$ 165	\$	\$1 254	\$2 050
Feed and grains		196	317		763	648
Machinery		240	357		64	55
Improvements.		74	204		5	2
Labor		57	221		53	32
Miscellaneous		24	24		3	7
Livestock expense		15	14		---	---
Crop expense.		133	144		---	---
Taxes		119	148		---	---
Total	\$	\$1 031	\$1 594	\$	\$2 142	\$3 094
Excess of cash sales over expenses.				\$	\$1 111	\$1 500
Increase in inventory					367	253
Income to labor and capital (Receipts less expenses)					1 478	1 753

The cumulative effect of several years of low agricultural prices on the demand for manufactured goods can be readily ascertained by a comparison of cash expenditures in 1934 with those in 1929. The average total cash income in 1934 was 60 percent of that of 1929. The total cash expenditures were 65 percent as large as in 1929. In 1929 the average accounting farms in Randolph County spent 52 percent of the cash income for operating expenses; in 1934 they spent 48 percent. The relationship between income and expenses is approximately the same for the two years. There is, however, considerable difference in the distribution of the expense items. In 1934, machinery was 67 percent, feed 62 percent, improvements 36 percent, hired labor 26 percent, and taxes 20 percent of the cash expenditure for these items in 1929. Crop expenses and livestock purchases were almost the same in 1934 as in 1929.

Comparison of Farms With High and Low Earnings

After deducting total expenses and net decreases, including family labor, from income and net increases there remained a net increase of \$7.56 per acre for the most profitable farms, as compared with \$1.15 per acre for the least profitable farms. This represents a return on the capital invested in the farm business of 11.5 percent on the most profitable farms, and 1.59 percent on the least profitable farms. The reasons for the difference may be obtained from a study of the data on pages 5 and 8.

In Randolph County the most profitable farms averaged only 5 acres larger than the least profitable farms, but they carried larger inventories on both crops and livestock on which to make a profit when prices advanced. One reason for the larger inventories, however, was the higher crop yields, there being an advantage of 11.7 bushels of corn, 4 bushels of oats, and 3.3 bushels of wheat per acre in favor of the high profit group.

The most profitable farms had an investment in productive livestock of \$5.77 per acre, and fed \$1,132 of feed per farm, as compared with \$3.45 per acre, and \$651 of feed per farm, on the least profitable farms. The productive livestock on the most profitable farms returned \$106 for each \$100 of feed fed, as compared with a return of \$89 for the least profitable farms. Dairy sales were \$19 per cow higher, and income per litter farrowed \$19 higher on the most profitable farms.

The larger income on the most profitable farms was secured with a total operating cost of \$6.11 per acre, as compared with \$7.37 per acre for the least profitable farms. The man labor costs were 98 cents per crop acre lower, while power and machinery costs were 5 cents per crop acre lower, for the most successful farms.

Influence of AAA Programs on Cropping Systems and Farm Incomes

The farm-account records in Illinois were influenced both directly and indirectly by the corn-hog and wheat adjustment programs. A large percentage of accounting farms were under one or both contracts in 1934. The acreages of corn and wheat on these farms were therefore less than normal. This should have resulted in lower operating costs. Corn-hog benefit payments for the entire 1934 program will total about 40 million dollars for the state, while wheat benefit payments will be about 2.4 million dollars.

The benefit payments for accounting farms are indicated in the following table, which shows the average payment for those farms receiving payments, and includes only those payments received by the coordinator before the 1934 books were closed. In some cases only the first corn-hog check is included, while in other cases the second check had been received. The second payments not received and the third payments will be entered in the 1935 book.

AAA Benefit Payments Received in 1934

	Corn		Wheat		Hogs		Average of all payments ^{1/}
	Number of farms	Amount per farm	Number of farms	Amount per farm	Number of farms	Amount per farm	
1/3 most profitable farms	9	\$50	10	\$145	7	\$52	\$205
1/3 least profitable farms	8	33	10	93	6	44	132
All accounting farms	24	48	30	128	19	43	176

^{1/} Total benefit payments reported by accounting farms under contract for 1934 divided by total number of accounting farms.

On many farms the cash received from benefit payments will more than pay for the year's taxes. As an average for all accounting farms, the payments actually received were \$57 more than sufficient to pay the 1934 taxes.

It is interesting to note the use made of the contracted acres on the accounting farms. The average farm had 16.4 contracted acres which were used as follows: 5.4 idle; .3 red clover; 9.2 sweet clover; .5 soybeans; .4 alfalfa; and .6 acres were in other crops. These data indicate that most farmers made good use of their contracted acres from the standpoint of soil improvement, as a large part of them were in legumes. When the government restrictions on the use of crops grown on contracted acres were removed, they were on many farms the most profitable crops as they furnished hay and pasture where badly needed in drouth areas. The legumes had the further advantage of being immune to attack from chinch bugs.

Farm earnings were influenced indirectly by the AAA program in that the reduction in production increased the price of the commodities involved. The drouth was a more important factor in reducing production than the adjustment programs, yet if it had not been for the corn-sealing program there would have been but little corn in the hands of farmers at the time the major price advance became effective.

Factors Helping to Analyze the Farm Business on
33 Randolph County Farms in 1934

Items	Your farm	Average of 33 farms	11 most profitable farms	11 least profitable farms
Size of farms--acres - - - - -	_____	187.5	189.8	184.7
Percent of land area tillable- - -	_____	82.4	83.7	82.8
Percent of tillable land in hay and pasture- - - - -	_____	41.6	40.7	41.4
Gross receipts per acre- - - - -	_____	11.36	14.29	7.52
Total expenses per acre- - - - -	_____	7.73	6.73	7.37
Net receipts per acre- - - - -	_____	4.53	7.56	1.15
Value of land per acre - - - - -	_____	41	39	44
Total investment per acre- - - - -	_____	71	67	72
Acres in Corn- - - - -	_____	26.1	29.7	24.6
Soybeans- - - - -	_____	14.3	15.5	11.9
Wheat- - - - -	_____	44.7	44.3	40.8
Soybeans- - - - -	_____	.6	.4	1.3
Hay- - - - -	_____	20.7	20.9	20.6
Tillable pasture- - - - -	_____	44.7	43.8	42.7
Crop yields--Corn, bu. per acre- -	_____	16.5	11.6	9.3
Oats, bu. per acre- - - - -	_____	25.7	28.2	24.2
Wheat, bu. per acre - - - - -	_____	17.7	20.5	17.2
Value of feed fed to productive L.S.	_____	1 073	1 132	951
Returns per \$100 of feed fed to productive livestock- - - - -	_____	102	116	89
Returns per \$100 invested in:				
Cattle- - - - -	_____	106	149	105
Poultry - - - - -	_____	213	209	221
Pigs weaned per litter - - - - -	_____	6.6	6.7	6.4
Income per litter farrowed - - - -	_____	74	83	74
Dairy sales per dairy cow- - - - -	_____	51	62	43
Investment in productive L.S. per A.	_____	3.24	3.77	3.45
Receipts from productive L.S. per A.	_____	5.78	6.33	4.61
Man labor cost per crop acre - - -	_____	5.91	5.69	6.67
Machinery cost per crop acre - - -	_____	1.87	1.57	1.79
Power and mech. cost per crop A. -	_____	3.50	3.37	3.42
Farms with tractor - - - - -	_____	33.6%	72.7%	45.6%
Value of feed fed to horses- - - -	_____	125	225	176
Man labor cost per \$100 gross income - - - - -	_____	31	24	47
Expenses per \$100 gross income - -	_____	62	47	86
Fixed investments cost per acre- -	_____	.87	.62	.58
Excess of sales over cash expenses	_____	1 111	1 221	751
Increase in inventory- - - - -	_____	367	792	208
Rate earned on investment- - - - -	_____	6.15	11.5	1.59
Gross profit per farm- - - - -	_____	1 471	2 013	959

Chart for Studying the Efficiency of Various Parts of Your Business,
Randolph County, 1934

The numbers above the lines across the middle of the page are the averages for the 33 farms included in this report for the factors named at the top of the page. By drawing a line across each column at the number measuring the efficiency of your farm in that factor, you can compare your efficiency with that of other farmers in your locality.

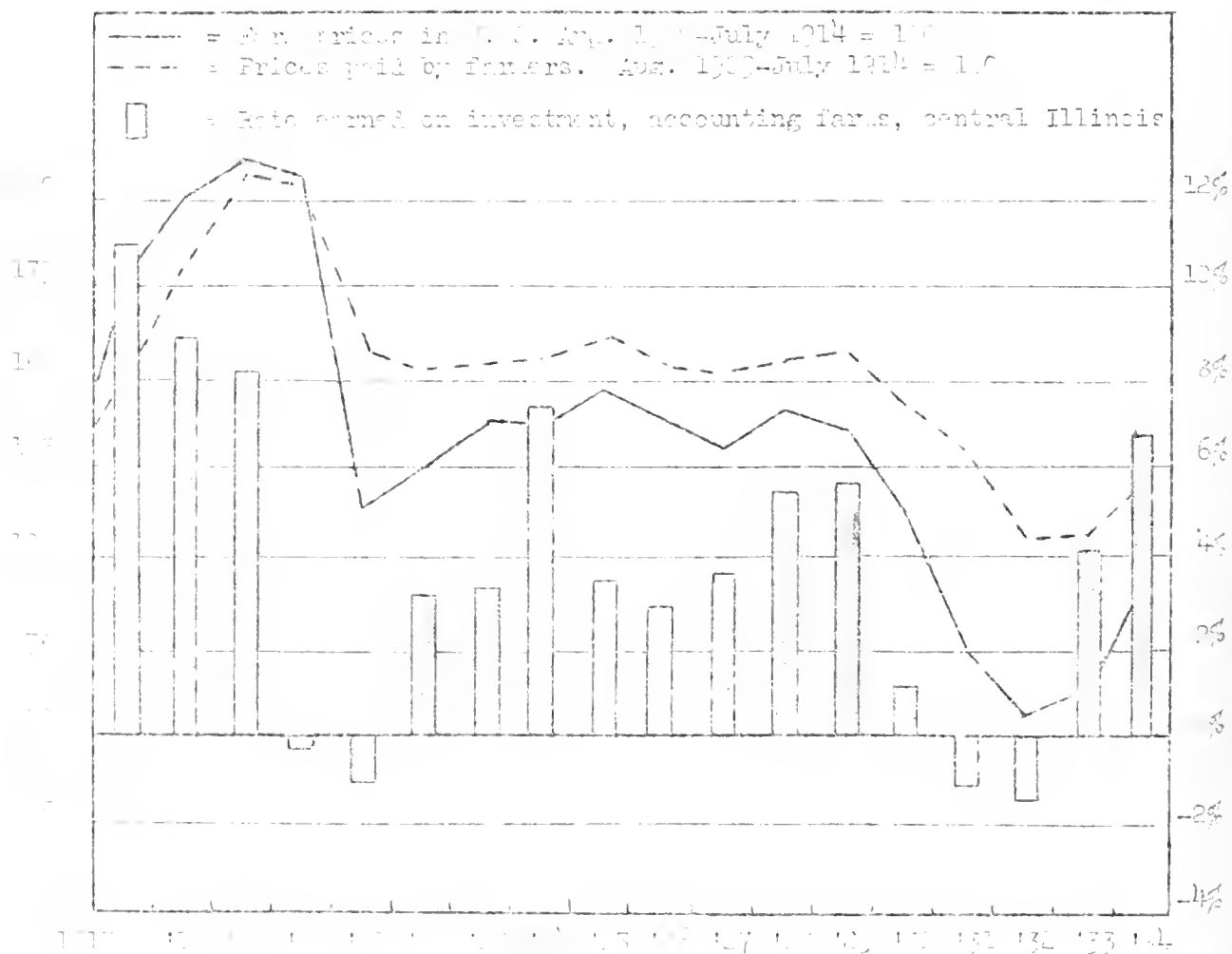
Rate earned on investment	Bushels per acre			Hogs: Income per litter	Dairy sales per dairy cow	Poultry income per \$100 invested	L.S. income per \$100 of feed fed	Cost per crop acre		Labor cost per \$100 gross receipts	Increase in inventory	Sales over cash expenses	Gross receipts		Acres in farm
	Corn	Oats	Wheat					Labor	Power and machinery				Per acre	Per farm	
13.7	36	46	29	124	101	363	177	.91	.50	--	2900	2600	21	4600	288
12.2	32	42	27	114	91	333	162	1.91	1.10	--	2400	2300	19	4100	268
10.7	28	38	25	104	31	303	147	2.91	1.70	7	1900	2000	17	3600	248
9.2	24	34	23	94	71	273	132	3.91	2.30	15	1400	1700	15	3100	228
7.7	20	30	21	84	61	243	117	4.91	2.90	23	900	1400	13	2600	208
6.15	16.5	25.8	18.9	74	51	213	102	5.91	3.50	31	367	1111	11.36	2143	188
4.7	12	22	17	64	41	183	87	6.91	4.10	39	-100	800	9	1600	168
3.2	8	18	15	54	31	153	72	7.91	4.70	47	-600	500	7	1100	148
1.7	4	14	13	44	21	123	57	8.91	5.30	55	-1100	200	5	600	128
.2	--	10	11	34	11	93	42	9.91	5.90	63	-1200	-100	3	100	128
-1.3	--	6	9	24	1	63	27	10.91	6.50	71	-1700	-400	1	--	88

Influence of Price Changes on Farm Earnings

Farm prices in 1934 advanced more rapidly than did the prices of commodities which farmers bought. Farmers of the United States as a group could exchange their farm products in 1934 for 74 percent as many goods as for the period 1909-1914, while in 1933 they received only 61 percent, and 1932 only 51 percent as much in exchange for what they had to sell as in the former period. In the month of February, 1935, this index of purchasing power had increased to 77 percent of former, the index of farm prices having risen to 111 as compared with an index of 107 for commodities which farmers buy. When the line representing farm prices drops below the line representing prices paid by farmers, farm earnings are very low, but when these lines come close together farm earnings increase. (See following graph.)

Index of Prices

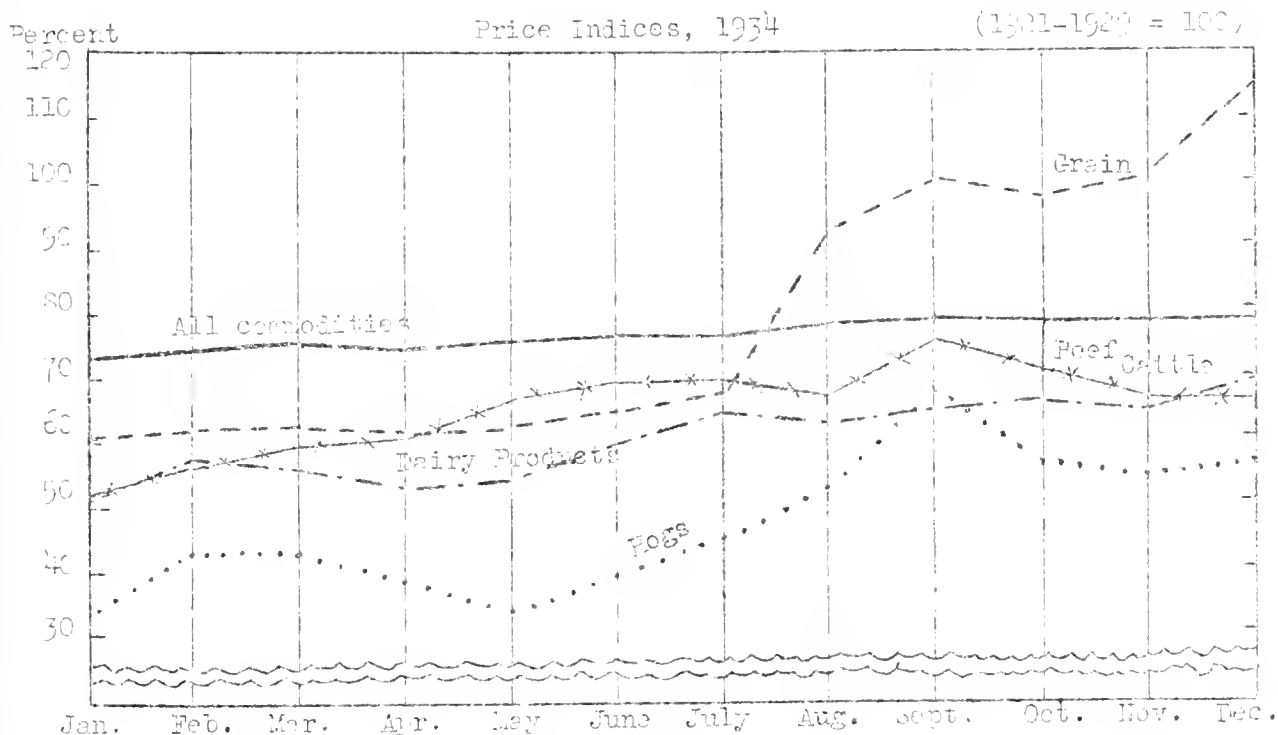
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All commodities index represents the wholesale price of a large number of commodities for the United States, as computed by Bureau of Labor Statistics. Grain and livestock indices represent average monthly farm prices in Illinois.

Variation in Earnings Over Five-Year Period

A comparison of production, income, and expenditures on the accounting farms in Randolph County for the last five years is very interesting because of the violent changes in price level. 1934 was the second year of very low crop yields, yet total receipts per farm were higher than in any other year in the last five and were 75 percent of the 1929 gross receipts. Operating costs per acre were lower than in any year of the five except 1933. Thus profits were the best the county had experienced since 1928.

Earnings in 1935, as usual, will depend upon individual efficiency, weather and prices. A normal year will mean larger yields of grain and probably lower prices.

Comparison of Earnings and Investments on Accounting Farms in Randolph County for 1930-1934

Items	1930 ¹	1931 ¹	1932 ¹	1933	1934
Number of farms - - - - -	32	30	39	30	33
Average size of farms, acres- - - -	190	190	201	196	188
Average rate earned, to pay for management, risk and capital - - -	0.3%	-1.0%	-2.4%	2.3%	6.15%
Average labor and management wage -	\$-237	\$-521	\$-711	\$ 72	\$ 562
Gross income per acre - - - - -	10.25	8.44	5.46	8.65	11.36
Operating cost per acre - - - - -	9.96	9.28	7.27	6.90	7.03
Average value of land per acre- - -	53	51	45	43	41
Total investment per acre - - - - -	94	87	76	70	70
Investment per farm in:					
Total livestock- - - - -	1 834	1 550	1 246	1 107	1 030
Cattle - - - - -	963	809	626	557	519
Hogs - - - - -	212	164	118	129	95
Poultry- - - - -	220	193	150	117	98
Gross income per farm - - - - -	1 945	1 601	1 097	1 699	2 143
Income per farm from:					
Crops- - - - -	259	382	62	591	982
Miscellaneous income - - - - -	49	30	26	47	3
Total livestock- - - - -	1 637	1 189	1 009	1 061	1 105
Cattle - - - - -	140	56	56	115	168
Dairy sales- - - - -	716	546	556	508	480
Hogs - - - - -	321	240	140	250	206
Poultry- - - - -	444	336	246	172	512.7
Average yield of corn in bu.- - - -	19	31	36	27	16
Average yield of wheat in bu. - - -	20	27	17	16	19

^{1/} Records from Monroe and Washington counties included for 1930-1932

ANNUAL FARM BUSINESS REPORT ON THIRTY-TWO FARMS
IN ST. CLAIR COUNTY, ILLINOIS, 1934

P. E. Johnston, J. Ackerman, and J. B. Andrews*

The farm earnings of 32 account-keeping farmers in St. Clair County showed an increase in 1934 over those of 1933. This is the second consecutive year of improvement in the business of these farms. The three years previous to 1933 showed very low returns.

These 32 accounts show for 1934 an average net income of \$952 per farm, as compared with an average of \$698 in 1933, and an average net loss of \$264 in 1932. The average cash income in 1934 was \$3,023 per farm, the cash business expenditures \$1,643 per farm, leaving a cash balance of \$1,380 to meet interest payments and family living expenses. (Those who keep home account books use the latter figure to represent the cash contribution of the farm to the "realized family income".) Besides the cash income, there was an inventory increase of \$252 per farm due to the rise in the prices of farm products. This increase, added to the cash balance, resulted in an average excess of receipts over expenses of \$1,632 per farm. The inventory increase was a larger part of the total farm income in 1934 than in 1933.

These data must not be considered representative of average farm conditions, for they were secured from farms which are larger than average, and which were managed by farmers who are more efficient than the average of all farmers in the county.

For the state as a whole, farm earnings were better in 1934 than in 1933, in spite of the fact that corn and oat yields were very low due to the drouth and to chinch bug damage. In the western and southwestern parts of the state the drouth caused an almost total failure of both corn and oats. This accounts for farm earnings being lower there than in other parts of the state.

The corn crop was best in the southeastern part of the state, and was fair in the northwestern section. Wheat yields were particularly good in the south and central portions of the state. Soybean yields were very good throughout the state, and there was a larger than normal acreage in Illinois in 1934. This state produced over half of the nation's 1934 crop of soybeans.

Chinch bug damage extended over most of the state last year, but was much more severe in some sections than in others, and was much worse on some farms than on other farms in the same community. Conditions affecting crop yields were very spotted. This accounts in part for the wide variation in farm earnings from one section of the state to another, and the wider variations than usual from one farm to another.

* B. W. Tillman, farm adviser in St. Clair County, cooperated in supervising and collecting the records on which this report is based.

Industries other than agriculture again showed improved earnings over the previous year. A group of 840 industrial corporations reported by a nationally known bank showed average earnings of 5.0 percent on their invested capital in 1934, as compared with 3.4 percent for the same corporations in 1933. A similar group had a loss of one-tenth of one percent in 1932, and average earnings of 3.3 percent in 1931.

In comparing the average earnings of corporations with the rate earned on investment on accounting farms, it is well to keep in mind that in corporation accounting, charges are made for management, while in the farm accounts no comparable deduction has been made. On the other hand the farmer and his family receive food, fuel, and other items of living from the farm for which the farm has received no credit in the records used in this report. For the average central Illinois farm family, consisting of five persons, the value of the food and fuel furnished by the farm was about \$250 in 1934, when estimated on the basis of the wholesale price for farm products.

Variations in Farm Incomes

There was a much wider range in farm earnings on the accounting farms in 1934 than in 1933. This was true for the farms included in this report, and it was also true when the average earnings of farms in one section of the state are compared with the earnings of farms in other areas.

The extremely wide range in earnings was due to a combination of physical and economic factors. The average yields of wheat and soybeans were much better, compared with the five-year average, than the average yields of corn and oats. This variation favored those sections which had larger acreages of the higher yielding crops in 1934. There was also a wide range in average corn yields from one section of the state to another, as well as between individual farms in the same area. The price of grains was high in 1934 as compared with prices of livestock and livestock products. Farms where grain sales constitute a large part of the farm income thus had an advantage. The rapid increase in the prices of farm products, particularly grains, favored those farms which had large stocks of salable products on hand at the beginning of the year. Many farmers who inventoried the corn on hand at the beginning of 1934 at 40 cents a bushel, later sold this corn for 80 cents.

In this group of 32 accounting farms the most successful one-third shows an average net income of \$1,380 while the average net income of the least successful one-third of the farms was only \$454. In 1933 the comparable net incomes for the two groups was \$1,147, and \$228 respectively.

Investments, Receipts, Expenses and Earnings on 32
St. Clair County Farms in 1934

Items	Your farm	Average of 32 farms	11 most profitable farms	11 least profitable farms
<u>CAPITAL INVESTMENTS</u>				
Land - - - - -		11 824	10 991	13 740
Farm improvements- - - - -		2 895	2 102	3 631
Livestock total- - - - -		<u>1 364</u>	<u>1 104</u>	<u>1 739</u>
Horses - - - - -		396	230	583
Cattle - - - - -		622	505	723
Hogs - - - - -		171	172	186
Sheep- - - - -		49	5	128
Poultry- - - - -		126	142	119
Machinery and equipment- - - - -		1 174	994	1 228
Feed and grains- - - - -		1 117	1 055	1 061
Total capital investment	\$ _____	\$18 374	\$16 246	\$21 449
<u>RECEIPTS AND NET INCREASES</u>				
Livestock total- - - - -		<u>1 618</u>	<u>1 432</u>	<u>1 690</u>
Horses - - - - -		22	---	71
Cattle - - - - -		163	176	204
Hogs (including AAA payments)-		416	400	418
Sheep- - - - -		54	8	139
Poultry- - - - -		118	185	54
Egg sales- - - - -		255	246	214
Dairy sales- - - - -		590	417	590
Feed and grains (including AAA payments) - - - - -		868	1 228	469
Labor off farm - - - - -		64	101	20
Miscellaneous receipts - - - - -		1	2	1
Total receipts & net increases	\$ _____	\$ 2 551	\$ 2 763	\$ 2 180
<u>EXPENSES AND NET DECREASES</u>				
Farm improvements- - - - -		163	138	162
Horses - - - - -		---	17	---
Miscellaneous livestock decreases		---	---	---
Machinery and equipment- - - - -		227	181	239
Feed and grains- - - - -		---	---	---
Livestock expense- - - - -		32	19	35
Crop expense - - - - -		186	159	183
Hired labor- - - - -		129	132	149
Taxes- - - - -		152	154	157
Miscellaneous expenses - - - - -		30	32	30
Total expenses & net decreases	\$ _____	\$ 919	\$ 832	\$ 955
<u>RECEIPTS LESS EXPENSES-</u>	\$ _____	\$ 1 632	\$ 1 931	\$ 1 225
Total unpaid labor- - - - -		680	551	771
Operator's labor - - - - -		410	420	391
Family labor - - - - -		270	131	380
Net income from investment and management - - - - -		952	1 380	454
RATE EARNED ON INVESTMENT	%	<u>5.18%</u>	<u>8.19%</u>	<u>2.12%</u>
Return to capital and operator's labor and management- - - - -		1 362	1 800	345
5% of capital invested- - - - -		919	312	1 072
LABOR AND MANAGEMENT WAGE	\$ _____	\$ 443	\$ 988	\$ -227

The following table shows the number of farms having certain net incomes per acre. There was a marked difference between the most successful and the least successful farms.

<u>Average net in-</u> <u>come per acre</u>	<u>Number of</u> <u>farms</u>	<u>Average net in-</u> <u>come per acre</u>	<u>Number of</u> <u>farms</u>
\$17.	2	\$7.	8
15.	1	5.	5
13.	0	3.	7
11.	1	1.	3
9.	5		

A further study of the farm businesses made by comparing the investments, receipts, and expenses of the group of farms having the highest net incomes, with those having the lowest, should throw some light on the question of why some farmers are more successful than others. This comparison is shown in the table on page 3.

The most profitable farms had a smaller total capital investment than either the least profitable farms, or the average of all the farms. Despite the smaller investment, the most profitable farms had higher total receipts and net increases, due to larger sales of feed and grains. They also had lower expenses, as the total farm expense, including the charge for family labor, was \$1,383 on the most profitable farms as compared with \$1,726 on the least profitable farms.

Changes in Inventories and Inventory Values

The year 1934 was similar to 1933 in that the prices of farm products continued to advance, causing further increases in inventory values. Owing to the poor crop yields in 1934 there were fewer bushels of grain on hand to inventory at the end of the year than at the beginning. The value of the smaller amount of grain, however, was greater than for the larger amount on hand at the beginning of the year.

Inventory Changes in Feed and Grains

	Beginning inventory 1-1-34	Closing inventory 1-12-34	Inventory increases 1934
Average of all farms	\$1 117	\$1 416	\$299
Average of 11 high farms	1 055	1 504	449
Average of 11 low farms	1 061	1 265	204
Your farm			

The difference in the values of feed and grains inventoried was one of the factors influencing the difference in earnings. The most profitable farms had an inventory increase in feed and grains of \$449, as compared with an inventory increase of \$204 on the least profitable farms. The quantity of hay inventoried was a very important factor influencing the inventory differences.

The average inventory increase for the accounting farms in St. Clair County was \$252 in 1934, as compared with \$123 in 1933, and a decrease of \$580 in 1932. There was an increase of \$299 in feed and grains, and decreases of \$33 in total livestock, \$0 in machinery, and \$8 in improvements. The inventory decrease in machinery and improvements was the smallest since 1929 on account keeping farms, and it indicates that needed repairs and replacements are being made but still not enough to offset the current depreciation costs.

Inventory Changes for 1934

Items	Beginning inventory 1-1-34	Closing inventory 12-31-34	Inventory changes 1934	Inventory changes, your farm
Total livestock.	\$1 364	\$1 331	\$-33	\$
Feed and grains.	1 117	1 416	299	
Machinery.	1 174	1 168	-6	
Improvements (except residence)	<u>2 395</u>	<u>2 387</u>	<u>-8</u>	
Total.	\$6 550	\$6 302	\$252	\$

Some Adjustments on St. Clair County Farms Since 1929

Farmers have been forced to make adjustments in their cash expenditures as the result of changes in their cash incomes. From 1929 through 1933, farm operation costs declined each year, but the year 1934 brought a reversal of this trend. Total operating expenses were 99 cents an acre higher in 1934 than in 1933, while cash operating expenses were \$1,643 a farm in 1934 as compared with \$1,074 a farm in 1933. The very low crop yields was a factor causing the large increase in expenditures for feed and grains in 1934. Indications point to an increase of spending in 1935 for repairs and replacements of machinery and improvements, since farmers have postponed purchase of these items during the five-year period since 1929.

Cash Income and Expenses on Accounting Farms in St. Clair County for 1929 and 1934

Items	Your farm 1934	Average cash expense per farm		Your farm 1934	Average cash income per farm	
		1934	1929		1934	1929
Livestock	\$	\$ 197	\$ 445	\$	\$1 848	\$2 672
Feed and grains		470	268		1 039	1 156
Machinery		289	508		68	32
Improvements.		158	369		5	4
Labor		129	230		64	42
Miscellaneous		30	24		1	2
Livestock expense		32	31		---	---
Crop expense.		186	174		---	---
Taxes		<u>152</u>	<u>206</u>		<u>---</u>	<u>---</u>
Total	\$	\$1 643	\$2 255	\$	\$3 023	\$3 908
Excess of cash sales over expenses.	\$			\$	\$1 380	\$1 653
Increase in inventory					252	357
Income to labor and capital (Receipts less expenses).					1 632	2 510

The cumulative effect of several years of low agricultural prices on the demand for manufactured goods can be readily ascertained by a comparison of cash expenditures in 1934 with those in 1929. The average total cash income in 1934 was 77 percent of that in 1929, while cash expenses in 1934 were 75 percent as large as in 1929. The relationship of total cash income to total cash expenses is approximately the same in 1934 as it was in 1929. There is, however, considerable difference in the distribution of the expense items. In 1934, expense for livestock was 44 percent, machinery 57 percent, improvements 43 percent, labor 56 percent, and taxes 74 percent of the cash expenditures for these items in 1929. The cash expenditures for feed and grains were much higher in 1934 than in 1929, and miscellaneous expense and crop expenses were practically the same.

Comparison of Farms With High and Low Earnings

The most profitable farms in this study had net receipts per acre of \$3.69, as compared with \$2.65 for the least profitable group. The reasons for this difference may be obtained from a study of the data on pages 3 and 8.

The most successful farms averaged 158.9 acres, the least successful 171.2 acres. On the most profitable farms 85 percent of the land area was tillable, as compared with 65 percent tillable on the least profitable farms. The cropping system did not vary a great deal between the two groups. The most profitable farms did, however, have 6.3 acres more of wheat, which was one of the higher yielding crops in 1934. The most profitable farms had an advantage in crop yields. They secured 3 bushels more corn, 2.2 bushels more oats, and 2.4 bushels more wheat than the least profitable farms. The most profitable farms had much larger sales of hay than the least profitable farms.

The most profitable farms were less intensive, but more efficient in their livestock production than the least profitable farms. They had an investment in productive livestock of \$4.97 per acre and fed \$1,138 of feed per farm as compared with \$6.45 invested per acre and \$1,578 of feed fed per farm on the least profitable farms. The livestock on the most profitable farms returned \$126 for each \$100 of feed fed, as compared with a return of \$103 for \$100 of feed fed on the least profitable farms.

The larger net income on the most profitable farms was secured with a total operating cost of \$8.70 per acre, as compared with \$10.03 per acre for the least profitable farms. The higher operating cost was an important factor in reducing the net earnings of the least profitable farms. Every item of expense and net decrease except the decrease for horses, and miscellaneous expenses were higher on the least profitable farms. Man labor costs per crop acre were \$5.91 on the most profitable farms, as compared with \$7.04 on the least profitable farms. Power and machinery costs per crop acre amounted to \$5.78 on the most profitable farms, and \$4.26 on the least profitable farms.

Influence of AAA Programs on Cropping Systems and Farm Incomes

The farm-account records in Illinois were influenced both directly and indirectly by the corn-hog and wheat adjustment programs. A large percentage of accounting farms were under one or both contracts in 1934. The acreages of corn and wheat on these farms were therefore less than normal. This should have resulted in lower operating costs. Corn-hog benefit payments for the entire 1934 program will total about 40 million dollars for the state, while wheat benefit payments will be about 2.4 million dollars.

The benefit payments for accounting farms are indicated in the following table, which shows the average payment for those farms receiving payments, and includes only those payments received by the cooperator before the 1934 books were closed. In some cases only the first corn-hog check is included, while in other cases the second check had been received. The second payments not received, and the third payments will be entered in the 1935 book.

AAA Benefit Payments Received in 1934

	Corn		Wheat		Hogs		Average of all payments ^{1/}
	Number of farms	Amount per farm	Number of farms	Amount per farm	Number of farms	Amount per farm	
1/3 most profitable farms	9	\$36	10	\$190	9	\$ 92	\$278
1/3 least profitable farms	6	62	7	150	5	123	185
All accounting farms	22	45	26	170	21	93	230

^{1/} Total benefit payments reported by accounting farms under contract for 1934 divided by total number of accounting farms.

On many farms the cash received from benefit payments will more than pay for the year's taxes. As an average for all accounting farms, the payments actually received were \$78 more than sufficient to pay the 1934 taxes.

It is interesting to note the use made of the contracted acres on the accounting farms. The average farm had 11.4 contracted acres which were used as follows: 3.1 idle; 1.0 red clover; 4.2 sweet clover; .5 soybeans; 1.1 alfalfa; and 1.5 acres were in other crops. These data indicate that most farmers made good use of their contracted acres from the standpoint of soil improvement, as a large part of them were in legumes. When the Government restrictions on the use of crops grown on contracted acres were removed, they were on many farms the most profitable crops as they furnished hay and pasture where badly needed in drouth areas. The legumes had the further advantage of being immune to attack from chinch bugs.

Farm earnings were influenced indirectly by the AAA programs in that the reduction in production increased the price of the commodities involved. The drouth was a more important factor in reducing production than the adjustment programs, yet if it had not been for the corn-sealing program there would have been but little corn in the hands of farmers at the time the major price advance became effective.

Factors Helping to Analyze the Farm Business on 32
St. Clair County Farms in 1934

Items	Your farm	Average of 32 farms	11 most profitable farms	11 least profitable farms
Size of farms--acres - - - - -		164.8	158.9	171.2
Percent of land area tillable- - - - -		84.8	84.9	65.4
Percent of tillable land in hay and pasture - - - - -		35.6	32.5	44.3
Gross receipts per acre- - - - -		15.48	17.39	12.73
Total expenses per acre- - - - -		9.70	8.70	10.08
Net receipts per acre- - - - -		5.78	8.69	2.65
Value of land per acre - - - - -		72	69	50
Total investment per acre- - - - -		111	102	125
Acres in Corn- - - - -		29.5	26.8	32.0
Oats- - - - -		20.0	19.1	21.6
Wheat - - - - -		35.3	38.7	32.4
Soybeans- - - - -		.5	1.1	---
Hay - - - - -		20.1	18.3	19.6
Tillable pasture- - - - -		29.6	25.7	33.3
Crop yields--Corn, bu. per acre- - - - -		9.3	11.9	8.9
Oats, bu. per acre- - - - -		29.7	30.9	28.7
Wheat, bu. per acre - - - - -		24.3	25.3	22.9
Value of feed fed to productive L.S. - - - - -		1 332	1 132	1 578
Returns per \$100 of feed fed to productive livestock- - - - -		120	126	103
Returns per \$100 invested in:				
Cattle- - - - -		129	119	128
Poultry - - - - -		296	302	239
Pigs weaned per litter - - - - -		6.8	7.0	6.9
Income per litter farrowed - - - - -		76	75	62
Dairy sales per dairy cow- - - - -		74	67	71
Investment in productive L.S. per A. - - - - -		5.72	4.97	6.45
Receipts from productive L.S. per A. - - - - -		9.68	9.01	9.46
Man labor cost per crop acre - - - - -		7.61	8.91	8.04
Machinery cost per crop acre - - - - -		2.06	1.65	2.13
Power and mach. cost per crop A. - - - - -		4.19	3.78	4.26
Farms with tractor - - - - -		44%	54%	36%
Value of feed fed to horses- - - - -		256	216	309
Man labor cost per \$100 gross income- - - - -		30	23	41
Expenses per \$100 gross income - - - - -		63	50	79
Farm improvements cost per acre- - - - -		.99	.87	.95
Excess of sales over cash expenses - - - - -		1 380	1 409	1 142
Increase in inventory- - - - -		252	522	83
Rate earned on investment- - - - -		5.18%	2.43%	2.12%
Gross receipts per farm- - - - -		2 551	2 763	2 180

Chart for Studying the Efficiency of Various Parts of Your Business,
St. Clair County, 1934

The numbers above the lines across the middle of the page are the averages for the 32 farms included in this report for the factors named at the top of the page. By drawing a line across each column at the number measuring the efficiency of your farm in that factor, you can compare your efficiency with that of other farmers in your locality.

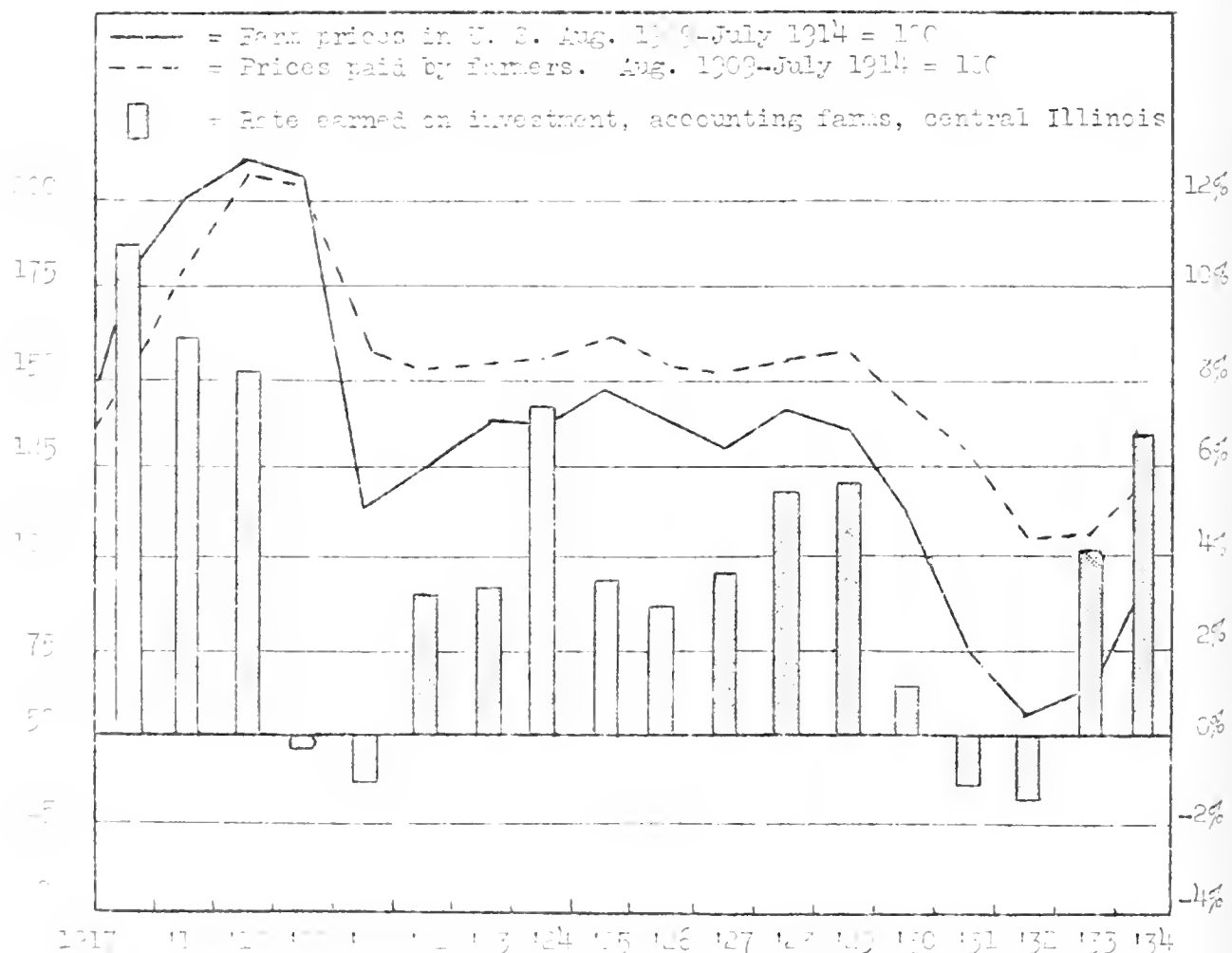
Rate earned on investment	Bushels per acre			Hogs: Income per litter	Dairy sales per dairy cow	Poultry income per \$100 invested	L.S. income per \$100 of feed fed	Cost per crop acre		Labor cost per \$100 gross receipts	Increase in inventory	Sales over cash expenses	Gross receipts		Acres in farm
	Corn	Oats	Wheat					Labor	Power and machinery				Per acre	Per farm	
12.68	24	45	39	176	124	546	170	--	1.19	0	2000	2900	40	4500	290
11.18	21	42	36	156	114	496	160	.21	1.79	5	1650	2600	35	4200	267
9.68	18	39	33	136	104	440	150	1.91	2.39	12	1300	2700	30	3800	240
8.18	15	36	30	116	94	396	140	3.61	2.99	18	950	2000	25	3400	215
6.58	12	33	27	96	84	346	130	5.31	3.59	24	600	1700	20	3000	190
5.18	9.3	29.7	24.3	76	74	296	120	7.01	4.19	30	252	1380	15.48	2551	164.8
3.68	6	27	21	56	64	246	110	8.71	4.79	36	-100	1100	10	2200	140
2.18	3	24	18	36	54	196	100	10.41	5.59	42	-450	800	5	1800	115
.68	0	21	15	16	44	145	90	12.11	5.99	48	-800	500	0	1400	90
-.82	--	18	12	--	34	96	80	13.81	6.59	54	-1150	200	--	1000	65
--	--	15	9	--	24	46	70	15.51	7.19	60	-1500	--	--	600	40

Influence of Price Changes on Farm Earnings

Farm prices in 1934 advanced more rapidly than did the prices of commodities which farmers bought. Farmers of the United States as a group could exchange their farm products in 1934 for 74 percent as many goods as for the period 1909-1914, while in 1933 they received only 64 percent, and 1932 only 61 percent as much in exchange for what they had to sell as in the former period. In the month of February, 1935, this index of purchasing power had increased to 87 percent of former, the index of farm prices having risen to 111 as compared with an index of 127 for commodities which farmers buy. When the line representing farm prices drops below the line representing prices paid by farmers, farm earnings are very low, but when these lines come close together farm earnings increase. (See following graph.)

Index of Prices

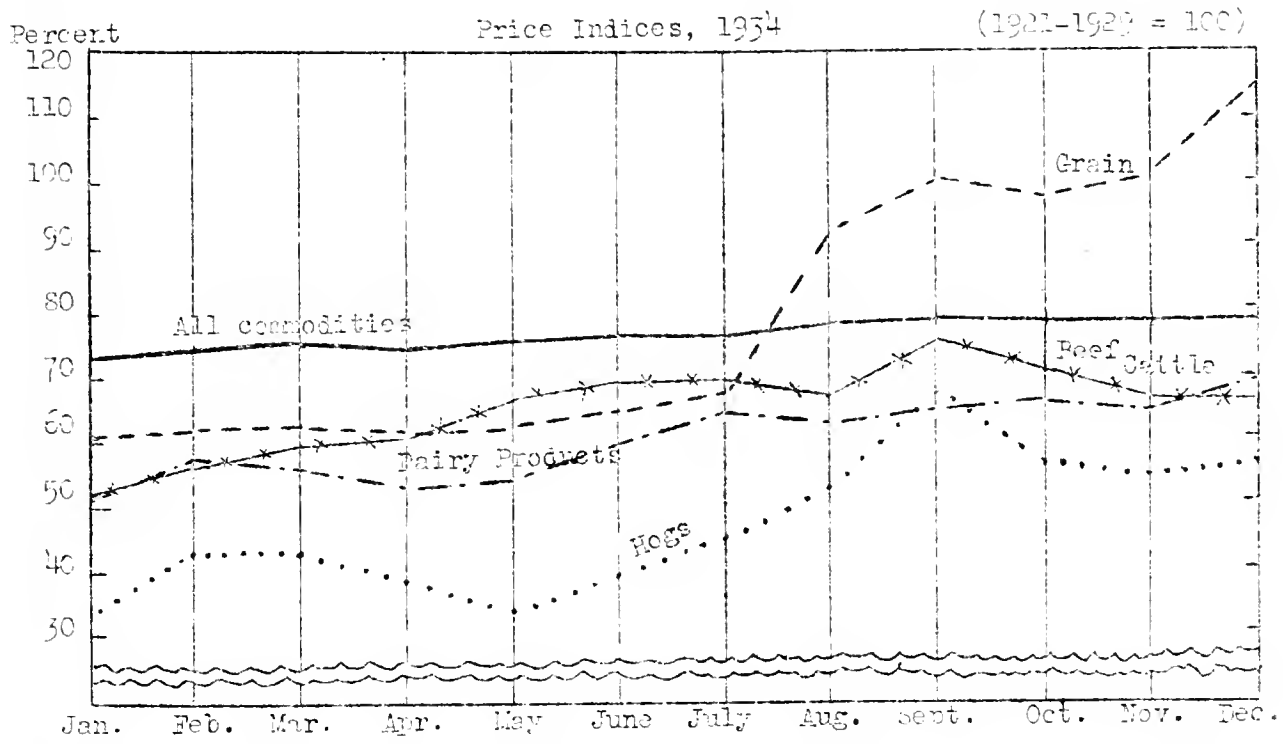
Rate Earned



Since the price of some farm products advanced much more rapidly during 1934 than other products, it is evident that some farmers would benefit more than others, depending upon the kind and quantity of products sold. Grain prices advanced much more rapidly than livestock prices; which resulted in a very bad price ratio for farmers who buy large quantities of feed. The average Illinois farm price of corn was 41 cents a bushel in January, 1934; it advanced steadily until the end of the year when it was 88 cents a bushel. Other grains made marked advance although not so great an advance as corn. The price of hogs fluctuated from a low of \$5.20 a hundred in May to a high of \$6.30 in September. The low point in the fall came in November when the average price was \$5.10. The price has advanced quite rapidly since November, the average price being \$7.50 for February, 1935. Beef cattle were worth \$4.10 a hundred in January, 1934 and advanced each month until September, when the price was \$5.90. They dropped to \$5.20 in December but increased again to \$7.40 for February, 1935.

The year 1934 set a record for the reduction in the numbers of livestock. The percentage decreases by species were as follows: horses, 1.1 percent; mules, 2.6 percent; all cattle, 11.2 percent; sheep, 4.7 percent; hogs, 35.3 percent. When all species are combined on the basis of their capacity to consume feed, the reduction was 13 percent. This reduction will greatly reduce the demand for feeds produced in 1935.

The relative change in prices of important commodities may be noted in the following graph, which shows the average Illinois farm prices by months as a percentage of the average prices for the period 1921-1929.



All commodities index represents the wholesale price of a large number of commodities for the United States, as computed by Bureau of Labor Statistics. Grain and livestock indices represent average monthly farm prices in Illinois.

Variation in Earnings Over Five-Year Period

A comparison of production, income, and expenditures on the accounting farms in St. Clair County for the last five years is very interesting because of the violent changes in price level. 1934 was the second year of very low crop yields, yet total receipts per farm were higher than in any other year in the last five, and were 70 percent of the 1929 gross receipts. Operating costs per acre were lower than in any year of the five except 1933. Thus profits were the best the county had experienced since 1929.

Earnings in 1935, as usual, will depend upon individual efficiency, weather and prices. A normal year will mean larger yields of grain and probably lower prices.

Comparison of Earnings and Investments on Accounting Farms in St. Clair County for 1930-1934

Items	1930	1931	1932	1933	1934
Number of farms - - - - -	34	31	30	30	32
Average size of farms, acres- - -	161	163	158.2	182.5	164.8
Average rate earned, to pay for management, risk and capital - -	.7%	-1.0%	-1.4%	3.8%	5.18%
Average labor and management wage	\$-355	\$-774	\$-526	\$165	\$443
Gross income per acre - - - - -	14.68	10.69	8.87	12.53	15.48
Operating cost per acre - - - - -	13.72	11.97	10.54	8.71	9.70
Average value of land per acre- -	86	81	79	68	72
Total investment per acre - - - -	139	123	121	102	111
Investment per farm in:					
Total livestock- - - - -	1 949	1 727	1 052	1 293	1 364
Cattle - - - - -	1 009	852	717	588	622
Hogs - - - - -	305	277	153	167	171
Poultry- - - - -	221	188	176	157	126
Gross income per farm - - - - -	2 359	1 741	1 404	2 287	2 551
Income per farm from:					
Crops- - - - -	271	282	282	919	868
Miscellaneous income - - - - -	79	36	53	37	1
Total livestock- - - - -	2 009	1 423	1 069	1 331	1 618
Cattle - - - - -	114	80	33	120	163
Dairy sales- - - - -	894	645	442	516	590
Hogs - - - - -	484	285	242	347	416
Poultry- - - - -	510	406	351	337	118
Average yield of corn in bu.- - -	25	37	48	29	9
Average yield of wheat in bu. - -	20	28	20	20	24

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ANNUAL FARM BUSINESS REPORT ON SEVENTY-THREE FARMS
IN CLINTON, BOND, MONROE, AND MONTGOMERY COUNTIES, ILLINOIS, 1934

P. E. Johnston, E. L. Sauer, and T. R. Hedges*

The farm earnings of 73 account-keeping farmers in Clinton, Bond, Monroe, and Montgomery Counties showed an increase in 1934 over those of 1933. This is the second consecutive year of improvement in the business of these farms. The three years previous to 1933 showed very low returns.

These 73 accounts show for 1934 an average net income of \$1,043 per farm, as compared with an average of \$259 in 1933, and an average net loss of \$542 in 1932. The average cash income in 1934 was \$2,715 per farm, the cash business expenditures \$1,500 per farm, leaving a cash balance of \$1,215 to meet interest payments and family living expenses. (Those who keep home account books use the latter figure to represent the cash contribution of the farm to the "realized family income".) Besides the cash income, there was an inventory increase of \$461 per farm due to the rise in the prices of farm products. This increase, added to the cash balance, resulted in an average excess of receipts over expenses of \$1,676 per farm. The inventory increase was a larger part of the total farm income in 1934 than in 1933.

These data must not be considered representative of average farm conditions, for they were secured from farms which are larger than average, and which were managed by farmers who are more efficient than the average of all farmers in the county.

For the state as a whole, farm earnings were better in 1934 than in 1933, in spite of the fact that corn and oat yields were very low due to the drouth and to chinch bug damage. In the western and southwestern parts of the state the drouth caused an almost total failure of both corn and oats. This accounts for farm earnings being lower there than in other parts of the state.

The corn crop was best in the southeastern part of the state, and was fair in the northwestern section. Wheat yields were particularly good in the south and central portions of the state. Soybean yields were very good throughout the state, and there was a larger than normal acreage in Illinois in 1934. This state produced over half of the nation's 1934 crop of soybeans.

Chinch bug damage extended over most of the state last year, but was much more severe in some sections than in others, and was much worse on some farms than on other farms in the same community. Conditions affecting crop yields were very spotted. This accounts in part for the wide variation in farm earnings from one section of the state to another, and the wider variations than usual from one farm to another.

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Industries other than agriculture again showed improved earnings over the previous year. A group of 840 industrial corporations reported by a nationally known bank showed average earnings of 5.0 percent on their invested capital in 1934, as compared with 3.4 percent for the same corporations in 1933. A similar group had a loss of one-tenth of one percent in 1932, and average earnings of 3.5 percent in 1931.

In comparing the average earnings of corporations with the rate earned on investment on accounting farms, it is well to keep in mind that in corporation accounting, charges are made for management, while in the farm accounts no comparable deduction has been made. On the other hand the farmer and his family receive food, fuel, and other items of living from the farm for which the farm received no credit in the records used in this report. For the average central Illinois farm family, consisting of five persons, the value of the food and fuel furnished by the farm was about \$250 in 1934, when estimated on the basis of the wholesale price for farm products.

Variations in Farm Incomes

There was a much wider range in farm earnings on the accounting farms in 1934 than in 1933. This was true for the farms included in this report, and it was also true when the average earnings of farms in one section of the state are compared with the earnings of farms in other areas.

The extremely wide range in earnings was due to a combination of physical and economic factors. The average yields of wheat and soybeans were much better, compared with the five-year average, than the average yields of corn and oats. This variation favored those sections which had larger acreages of the higher yielding crops in 1934. There was also a wide range in average corn yields from one section of the state to another, as well as between individual farms in the same area. The price of grains was high in 1934 as compared with prices of livestock and livestock products. Farms where grain sales constitute a large part of the farm income thus had an advantage. The rapid increase in the prices of farm products, particularly grains, favored those farms which had large stocks of salable products on hand at the beginning of the year. Many farmers who inventoried the corn on hand at the beginning of 1934 at 40 cents a bushel, later sold this corn for 60 cents.

The 73 account-keeping farms in Clinton, Bond, Monroe, and Montgomery Counties were divided into two groups, consisting of 38 general farms and 35 dairy farms. The division was made on the basis of the proportion of the gross income received from dairy sales and the number of dairy cows per farm, the factors which normally indicate the relative importance and permanency of the dairy enterprise on the farm.

In the group of 38 general farms, the most successful one-third shows an average net income of \$1,761 while the average net income of the least successful one-third was only \$373. In the group of 35 dairy farms, the comparable net incomes for the two groups were \$1,650, and \$418, respectively. In 1933, the most successful one-third of the accounting farms in this area had an average net income of \$794, while the least successful one-third had an average net loss of \$533.

Investments, Receipts, Expenses and Earnings on 38 General Farms in Clinton, Bond, Monroe, and Montgomery Counties, 1934

Items	Your farm	Average of 38 farms	13 most profitable farms	13 least profitable farms
CAPITAL INVESTMENTS				
Land - - - - -		11 272	9 741	12 609
Farm improvements- - - - -		2 483	1 816	3 446
Livestock total- - - - -		<u>1 091</u>	<u>912</u>	<u>1 304</u>
Horses - - - - -		357	361	378
Cattle - - - - -		424	262	608
Hogs - - - - -		161	133	191
Sheep- - - - -		29	21	38
Poultry- - - - -		120	135	89
Machinery and equipment- - - - -		1 057	1 084	824
Feed and grains- - - - -		1 066	1 154	871
Total capital investment	\$	<u>\$16 969</u>	<u>\$14 707</u>	<u>\$19 054</u>
RECEIPTS AND NET INCREASES				
Livestock total- - - - -		<u>1 090</u>	<u>928</u>	<u>1 259</u>
Horses - - - - -		---	---	---
Cattle - - - - -		167	102	247
Hogs (including AAA payments)-		401	268	630
Sheep- - - - -		48	23	75
Poultry- - - - -		93	91	63
Egg sales- - - - -		185	133	105
Dairy sales- - - - -		196	261	139
Feed and grains (including AAA payments) - - - - -		1 423	2 145	626
Labor off farm - - - - -		54	84	25
Miscellaneous receipts - - - - -		4	4	6
Total receipts & net increases	\$	<u>\$ 2 571</u>	<u>\$ 3 161</u>	<u>\$ 1 917</u>
EXPENSES AND NET DECREASES				
Farm improvements- - - - -		130	101	171
Horses - - - - -		17	11	23
Miscellaneous livestock decreases		---	---	---
Machinery and equipment- - - - -		234	171	263
Feed and grains- - - - -		---	---	---
Livestock expense- - - - -		19	18	23
Crop expense - - - - -		162	175	144
Hired labor- - - - -		163	174	174
Taxes- - - - -		149	170	143
Miscellaneous expenses - - - - -		23	25	21
Total expenses & net decreases	\$	<u>\$ 897</u>	<u>\$ 845</u>	<u>\$ 962</u>
RECEIPTS LESS EXPENSES-				
	\$	<u>\$ 1 674</u>	<u>\$ 2 316</u>	<u>\$ 955</u>
Total unpaid labor- - - - -		612	555	582
Operator's labor - - - - -		433	434	418
Family labor - - - - -		179	121	164
Net income from investment and management - - - - -		1 062	1 761	373
RATE EARNED ON INVESTMENT	%	<u>6.26%</u>	<u>11.97%</u>	<u>1.96%</u>
Return to capital and operator's labor and management - - - - -		1 495	2 195	790
5% of capital invested- - - - -		849	715	953
LABOR AND MANAGEMENT WAGE	\$	<u>\$ 646</u>	<u>\$ 1 480</u>	<u>\$ -163</u>

The following table, based on all accounting farms, shows the number of farms having certain net incomes per acre. There was a marked difference between the most successful and the least successful farms.

<u>Average net in-</u> <u>come per acre</u>	<u>Number of</u> <u>farms</u>	<u>Average net in-</u> <u>come per acre</u>	<u>Number of</u> <u>farms</u>
\$15 and over.	2	\$3.	15
13	3	1.	5
11	7	-1.	2
9	4	-3.	2
7	12	-5.	1
5	20		

A further study of the farm businesses, made by comparing the investments, receipts, and expenses of the group of farms with the highest net incomes, with those having the lowest, should throw some light on the question of why some farmers are more successful than others. This comparison is shown in the tables on pages 3 and 5.

In the group of 38 general farms, the most profitable farms averaged 175 acres each, the least profitable 203 acres. The most profitable farms had a larger investment in feed and grains, and in machinery and equipment than the least profitable farms, but a smaller investment in land, improvements and total livestock. The most profitable farms had higher total receipts due to larger sales of feed and grains. The total expense per acre, including the charge for family labor, was slightly higher on the most profitable farms.

In the group of 35 dairy farms, the most profitable farms, although 23 acres smaller than the least profitable farms, had larger investments in feed and grains, machinery and equipment, and total livestock. They had higher total receipts and net increases, due chiefly to larger sales of livestock and livestock products, and of feed and grains. The total expense per acre, including the charge for family labor, was slightly higher on the most profitable farms.

Investments, Receipts, Expenses and Earnings on 35 Dairy Farms in Clinton, Bond, Monroe, and Montgomery Counties, 1934

Items	Your farm	Average of 35 farms	12 most profitable farms	12 least profitable farms
CAPITAL INVESTMENTS				
Land - - - - -		9 901	9 517	10 610
Farm improvements- - - - -		2 804	2 432	3 400
Livestock total- - - - -		<u>1 546</u>	<u>1 738</u>	<u>1 711</u>
Horses - - - - -		412	446	510
Cattle - - - - -		831	912	954
Hogs - - - - -		144	130	116
Sheep- - - - -		19	14	17
Poultry- - - - -		140	186	114
Machinery and equipment- - - - -		1 160	1 363	1 150
Feed and grains- - - - -		1 002	1 201	864
Total capital investment	\$	<u>\$16 413</u>	<u>\$16 251</u>	<u>\$17 735</u>
RECEIPTS AND NET INCREASES				
Livestock total- - - - -		<u>1 561</u>	<u>1 961</u>	<u>1 202</u>
Horses - - - - -		27	20	38
Cattle - - - - -		84	158	---
Hogs (including AAA payments)-		331	423	221
Sheep- - - - -		32	23	12
Poultry- - - - -		53	53	31
Egg sales- - - - -		201	238	148
Dairy sales- - - - -		833	1 016	752
Feed and grains (including AAA payments) - - - - -		919	1 204	714
Labor off farm - - - - -		57	66	7
Miscellaneous receipts - - - - -		3	---	1
Total receipts & net increases	\$	<u>\$ 2 540</u>	<u>\$ 3 231</u>	<u>\$ 1 924</u>
EXPENSES AND NET DECREASES				
Farm improvements- - - - -		165	152	217
Horses - - - - -		---	---	---
Miscellaneous livestock decreases Cattle		---	---	4
Machinery and equipment- - - - -		227	257	207
Feed and grains- - - - -		---	---	---
Livestock expense- - - - -		16	16	15
Crop expense - - - - -		155	151	151
Hired labor- - - - -		143	131	104
Taxes- - - - -		133	140	135
Miscellaneous expenses - - - - -		24	22	23
Total expenses & net decreases	\$	<u>\$ 863</u>	<u>\$ 399</u>	<u>\$ 856</u>
RECEIPTS LESS EXPENSES-				
	\$	<u>\$ 1 677</u>	<u>\$ 2 332</u>	<u>\$ 1 068</u>
Total unpaid labor- - - - -		654	682	650
Operator's labor - - - - -		387	405	379
Family labor - - - - -		267	277	271
Net income from investment and management - - - - -		1 023	1 650	418
RATE EARNED ON INVESTMENT	%	<u>6.23%</u>	<u>10.15%</u>	<u>2.36%</u>
Return to capital and operator's labor and management - - - - -		1 410	2 055	797
5% of capital invested- - - - -		821	813	857
LABOR AND MANAGEMENT WAGE	\$	<u>\$ 589</u>	<u>\$ 1 242</u>	<u>\$ -90</u>

Changes in Inventories and Inventory Values

The year 1934 was similar to 1933 in that the prices of farm products continued to advance, causing further increases in inventory values. Owing to the poor crop yields in 1934 there were fewer bushels of grain on hand to inventory at the end of the year than at the beginning. The value of the smaller amount of grain, however, was greater than for the larger amount on hand at the beginning of the year.

Bushels of Grain Inventoried on General Farms

	Corn		Wheat	
	Jan. 1, '34	Dec. 31, '34	Jan. 1, '34	Dec. 31, '34
Average of all farms.	360	355	247	313
Average of 13 high farms.	572	324	411	450
Average of 13 low farms.	541	199	97	143
Four farms				

Bushels of Grain Inventoried on Dairy Farms

	Corn		Wheat	
	Jan. 1, '34	Dec. 31, '34	Jan. 1, '34	Dec. 31, '34
Average of all farms.	342	217	211	249
Average of 12 high farms.	373	287	260	302
Average of 12 low farms.	306	142	151	218
Four farms				

The difference in quantities of grain inventoried was one of the factors influencing the difference in earnings. The most profitable dairy farms had larger inventories of corn and wheat, both at the beginning and at the end of the year, while the most profitable general farms had larger inventories of wheat, both at the beginning and end of the year, and a larger inventory of corn at the end of the year than did the least profitable farms.

The average inventory increase for all accounting farms in Clinton, Bond, Monroe, and Montgomery counties was \$461 in 1934, as compared with inventory losses of \$1 per farm in 1933, and \$680 per farm in 1932. There were increases of \$4 in total livestock, \$434 in feed and grain, and \$67 in machinery, while improvements showed a decrease of \$44. Such an increase in inventory as that for machinery results from the value of new replacements and repairs during the year being in excess of depreciation costs. This increase is of considerable interest for it is the first time that such an increase in machinery inventories has occurred since farm earnings began to decline so drastically with the general depression.

Inventory Changes on 73
Clinton, Bond, Monroe, and Montgomery County Farms for 1934

Items	Beginning inventory 1-1-34	Closing inventory 12-31-34	Inventory changes 1934	Inventory changes, your farm
Total livestock.	\$1 310	\$1 314	\$ 4	\$
Feed and grains.	1 035	1 469	434	
Machinery.	1 106	1 173	67	
Improvements (except residence).	2 636	2 592	-44	
Total.	\$6 087	\$6 548	\$461	\$

Some Adjustments on Clinton, Bond, Monroe, and Montgomery County Farms
Since 1929

Farmers have been forced to make adjustments in their cash expenditures as the result of changes in their cash incomes. From 1929 through 1933 farm operating costs declined each year, but the year 1934 brought a reversal of this trend. Total operating expenses were 14 cents an acre higher in 1934 than in 1933, while cash operating expenses were \$1,500 a farm in 1934 as compared with \$1,175 in 1933. The largest increase in expenditures over the previous year was for machinery and repairs for machinery. There was also a significant increase in expenditures for livestock, feed, and crop expenses while a decrease was recorded in expenses for taxes. Indications point to an increase of spending in 1935 for repairs and replacement of machinery and improvements, since farmers have postponed purchase of these items during the five-year period since 1929.

Cash Income and Expenses on 73 Accounting Farms in
Clinton, Bond, Monroe, and Montgomery Counties for 1929 and 1934

Items	Your farm 1934	Average cash expense per farm		Your farm 1934	Average cash income per farm	
		1934	1929		1934	1929
Livestock	\$	\$ 181	\$ 189	\$	\$1 485	\$2 963
Feed and grains		328	459		1 075	594
Machinery		390	575		93	119
Improvements.		104	281		2	---
Labor		154	180		55	85
Miscellaneous		26	22		5	13
Livestock expense		18	26		---	---
Crop expense.		158	178		---	---
Taxes		141	148		---	---
Total	\$	\$1 500	\$2 058	\$	\$2 715	\$3 774
Excess of cash sales over expenses.	\$			\$	\$1 215	\$1 716
Increase in inventory					461	344
Income to labor and capital (Receipts less expenses).					1 676	2 060

The cumulative effect of several years of low agricultural prices on the demand for manufactured goods can be readily ascertained by a comparison of cash expenditures in 1934 with those in 1929. The average total cash income in 1934 was 70 percent of that of 1929. The total cash expenditures were 73 percent as large as in 1929. In 1929 the average accounting farms in Clinton, Bond, Monroe, and Montgomery Counties spent 55 percent of the cash income for operating expenses; in 1934 they spent 55 percent. The relationship between income and expenses is approximately the same for the two years. There is, however, considerable difference in the distribution of the expense items. In 1934, machinery was 68 percent, feed 71 percent, improvements 37 percent, hired labor 86 percent, and crop expense 89 percent of the cash expenditure for these items in 1929. Taxes and livestock purchases were almost the same in 1934 as in 1929.

Comparison of General Farms With High and Low Earnings

The 15 most profitable general farms in this study had net receipts per acre of \$10.08, as compared with \$1.84 per acre for the least profitable general farms. The reasons for this difference may be obtained from a study of the data on pages 3 and 12.

The most profitable farms were 23.5 acres smaller than the least profitable farms. However, they had a larger proportion of tillable land, and had 7.9 acres more crops than the least profitable farms. The most profitable farms had about the same acreage of corn and oats as the least profitable group, but they had 27.7 acres more wheat, which was also one of the high yielding crops in 1934. The most profitable farms carried larger inventories of feed and grain on which to make a profit when prices advanced. One reason for the larger inventories was the higher crop yields, there being an advantage of 3.6 bushels of corn, 14.2 bushels of oats, and 5.7 bushels of wheat per acre in favor of the high profit group.

The most profitable farms were not as intensive in their livestock production, but they showed greater efficiency in their livestock feeding operations than the least profitable farms. The most profitable farms had an investment in productive livestock of \$5.10 per acre, and fed \$774 of feed per farm, as compared with \$4.20 invested per acre, and \$1,184 of feed fed per farm, on the least profitable farms. The productive livestock on the most profitable farms returned \$120 for each \$100 of feed fed, as compared with returns of \$26 for each \$100 of feed fed on the least profitable farms. Dairy sales per dairy cow averaged \$59 on the most profitable farms, as compared with \$35 on the least profitable group.

The larger income on the most profitable farms was secured with a total operating expense of only 40 cents an acre above that on the least profitable farms. Man labor costs per crop acre was \$7.7 on the most profitable farms, as compared with \$5.69 on the least profitable farms, while power and machinery cost per crop acre was only \$2.33 on the most profitable farms, as compared with \$4.3 on the least profitable group.

Comparison of Dairy Farms With High and Low Earnings

The 12 most profitable dairy farms in this study had net receipts per acre of \$3.31, as compared with \$1.89 per acre for the 12 least profitable dairy farms. The reasons for this difference may be obtained from a study of the data on pages 5 and 14.

The most profitable farms were more intensive, and more efficient in their livestock production than the least profitable farms. The most profitable farms had an investment in productive livestock of \$6.29 per acre, and fed \$1,412 of feed per farm, as compared with \$5.13 invested per acre, and \$1,208 of feed fed per farm, on the least profitable farms. The productive livestock on the most profitable farms returned \$137 for each \$100 of feed fed, as compared with returns of \$96 for each \$100 of feed fed on the least profitable farms. Each group had an average of 13.6 dairy cows per farm. The most profitable farms had average dairy sales per dairy cow of \$75, as compared with dairy sales of \$55 per dairy cow on the least profitable farms. The most profitable farms had an income of \$93 per litter farrowed, as compared with \$71 for the least profitable group.

The most profitable farms, although having 22.8 fewer total acres, had 7.4 more crop acres than the least profitable farms. They had 6.1 acres more corn, 5.6 acres more oats, and 8.7 acres more wheat than the least profitable farms. Wheat and soybeans were the high yielding crops in 1934. The most profitable farms had slightly higher crop yields. Because of the larger crop acreage and the higher yields, the most profitable farms had larger inventories of feed and grain on which to make a profit when prices advanced.

The total operating cost per acre, including the charge for family labor, was somewhat higher on the most profitable farms. Man labor cost was 13 cents per crop acre higher, and power and machinery cost was 44 cents per crop acre higher than on the least profitable farms. However, in proportion to income, costs were much lower on the most profitable farms. Their total expenses per \$100 gross income was \$43, as compared with \$75 on the least profitable farms.

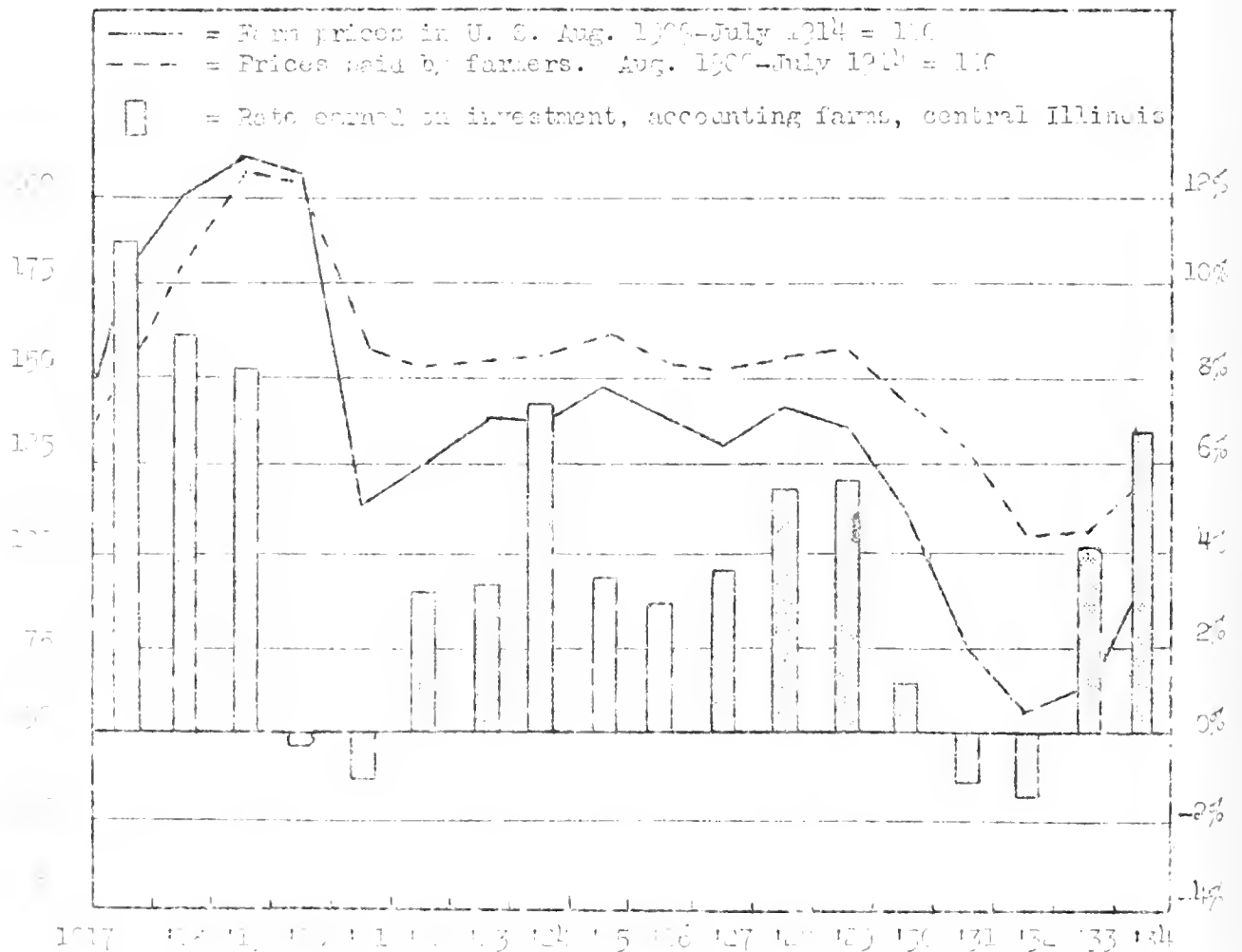
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Influence of Price Changes on Farm Earnings

Farm prices in 1934 advanced more rapidly than did the prices of commodities which farmers bought. Farmers of the United States as a group could exchange their farm products in 1934 for 74 percent as many goods as for the period 1909-1914, while in 1937 they received only 64 percent, and 1950 only 61 percent as much in exchange for what they had to sell as in the prewar period. In the month of February, 1955, this index of purchasing power had increased to 87 percent of prewar, the index of farm prices having risen to 111 as compared with an index of 127 for commodities which farmers buy. When the line representing farm prices drops below the line representing prices paid by farmers, farm earnings are very low, but when these lines come close together farm earnings increase. (See following graph.)

Index of Prices

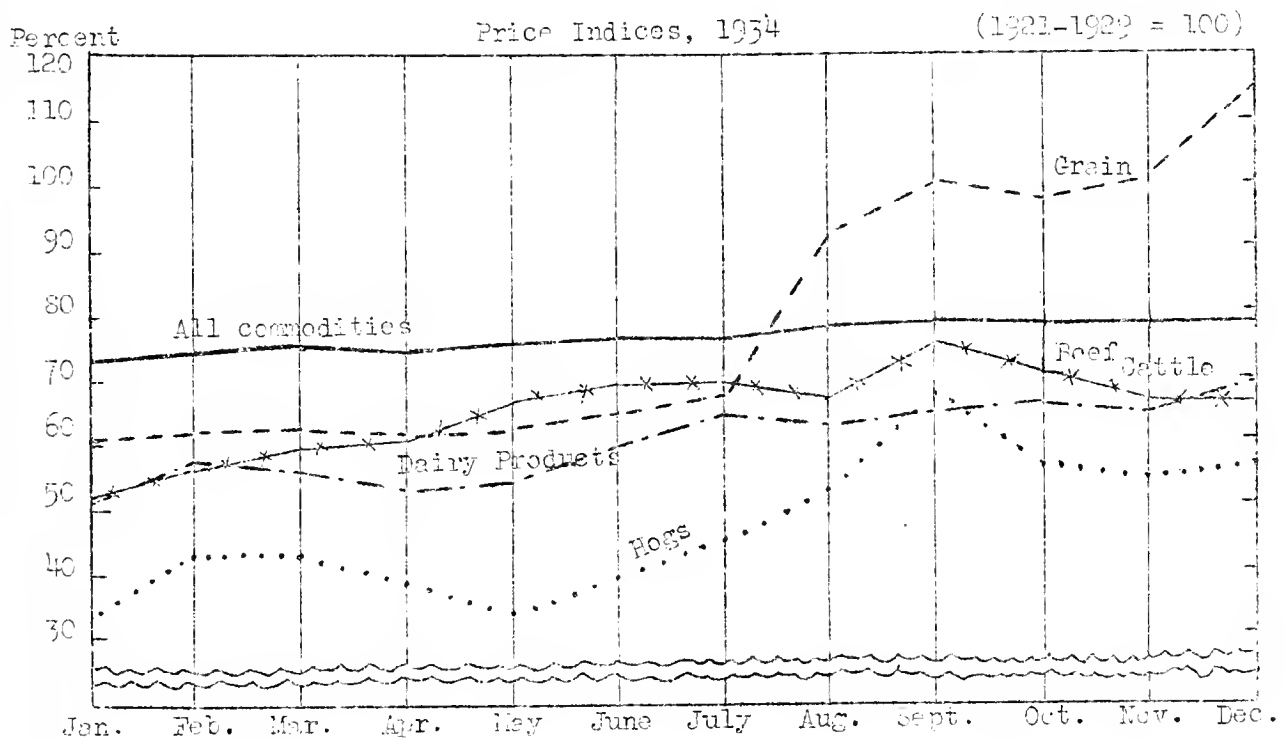
Rate Earned



Since the price of some farm products advanced much more rapidly during 1934 than other products, it is evident that some farms would benefit more than others, depending upon the kind and quantity of products sold. Grain prices advanced much more rapidly than livestock prices; which resulted in a very bad price ratio for farmers who buy large quantities of feed. The average Illinois farm price of corn was 41 cents a bushel in January, 1934; it advanced steadily until the end of the year when it was 88 cents a bushel. Other grains made marked advance although not so great an advance as corn. The price of hogs fluctuated from a low of \$5.20 a hundred in May to a high of \$6.30 in September. The low point in the fall came in November when the average price was \$5.10. The price has advanced quite rapidly since November, the average price being \$7.50 for February, 1935. Beef cattle were worth \$4.10 a hundred in January, 1934 and advanced each month until September, when the price was \$5.90. They dropped to \$5.20 in December but increased again to \$7.40 for February, 1935.

The year 1934 set a record for the reduction in the numbers of livestock. The percentage decreases by species were as follows: horses, 1.1 percent; mules, 2.6 percent; all cattle, 11.2 percent; sheep, 4.7 percent; hogs, 35.3 percent. When all species are combined on the basis of their capacity to consume feed, the reduction was 13 percent. This reduction will greatly reduce the demand for feeds produced in 1935.

The relative change in prices of important commodities may be noted in the following graph, which shows the average Illinois farm prices by months as a percentage of the average prices for the period 1921-1929.



All commodities index represents the wholesale price of a large number of commodities for the United States, as computed by Bureau of Labor Statistics. Grain and livestock indices represent average monthly farm prices in Illinois.

Factors Helping to Analyze the Farm Business on 38 General Farms in Clinton, Paul, Monroe, and Montgomery Counties, 1934

Items	Your farm	Average of 38 farms	13 most profitable farms	13 least profitable farms
Size of farms--acres - - - - -	_____	195.9	174.7	203.0
Percent of land area tillable- - - - -	_____	83.7	92.6	78.9
Percent of tillable land in hay and pasture - - - - -	_____	33.3	26.5	38.7
Gross receipts per acre- - - - -	_____	\$ 13.39	\$ 18.09	\$ 9.44
Total expenses per acre- - - - -	_____	7.71	8.01	7.61
Net receipts per acre- - - - -	_____	5.41	10.08	1.84
Value of land per acre - - - - -	_____	58	56	62
Total investment per acre- - - - -	_____	67	84	94
Acres in Corn- - - - -	_____	33.7	35.4	35.7
Oats- - - - -	_____	20.0	17.7	19.8
Wheat - - - - -	_____	43.2	56.4	28.7
Hay - - - - -	_____	23.6	17.5	30.3
Tillable pasture- - - - -	_____	31.0	25.5	31.7
Crop yields--Corn, bu. per acre- - - - -	_____	15.5	15.4	12.4
Oats, bu. per acre- - - - -	_____	21.0	31.1	16.9
Wheat, bu. per acre - - - - -	_____	26.4	29.0	25.7
Value of feed fed to productive L.S. - - - - -	_____	956	774	1 134
Returns per \$100 of feed fed to productive livestock- - - - -	_____	114	120	106
Returns per \$100 invested in:				
Cattle- - - - -	_____	83	132	65
Poultry - - - - -	_____	232	203	187
Pigs weaned per litter - - - - -	_____	6.0	6.0	6.2
Income per litter farrowed - - - - -	_____	75	68	77
Dairy sales per dairy cow- - - - -	_____	45	59	35
Investment in productive L.S. per A. - - - - -	_____	3.87	3.10	4.30
Receipts from productive L.S. per A. - - - - -	_____	5.56	5.31	6.20
Man labor cost per crop acre - - - - -	_____	5.43	5.07	5.69
Machinery cost per crop acre - - - - -	_____	1.76	1.25	2.05
Power and mach. cost per crop A. - - - - -	_____	3.57	2.88	4.03
Farms with tractor - - - - -	_____	66%	62%	46%
Value of feed fed to horses- - - - -	_____	224	211	231
Man labor cost per \$100 gross income - - - - -	_____	28	22	38
Expenses per \$100 gross income - - - - -	_____	58	44	51
Farm improvements cost per acre - - - - -	_____	.66	.58	.84
Excess of sales over cash expenses - - - - -	_____	1 145	1 544	667
Increase in inventory- - - - -	_____	528	772	288
Rate earned on investment- - - - -	_____	6.26%	11.97%	1.96%
Gross receipts per farm- - - - -	_____	2 571	3 161	1 917

Chart for Studying the Efficiency of Various Parts of Your Business,
Clinton, Bond, Monroe, and Montgomery Counties, 1934

The numbers above the lines across the middle of the page are the averages for the 33 general farms included in this report for the factors named at the top of the page. By drawing a line across each column at the number measuring the efficiency of your farm in that factor, you can compare your efficiency with that of other farmers in your locality.

Rate earned on investment	Bushels per acre			Hogs: Income per litter	Dairy sales per dairy cow	Poultry income per \$100 invested	U.S. income per \$100 of feed fed	Cost per crop acre		Labor cost per \$100 gross receipts	Increase in inventory	Sales over cash expenses	Gross receipts		
	Corn	Oats	Wheat					Labor	Power and machinery				Per acre	Per farm	Acres in farm
13.8	30	41	41	125	85	432	139	.43	.60	--	1500	2600	23	5100	400
12.3	27	37	38	115	77	392	174	1.43	1.20	4	1300	2300	21	4600	360
10.8	24	33	35	105	59	352	159	2.43	1.80	10	1100	2000	19	4100	320
9.3	21	29	32	95	61	312	144	3.43	2.40	15	900	1700	17	3600	280
7.8	18	25	29	85	53	272	129	4.43	3.00	22	700	1400	15	3100	240
6.26	15.5	21.0	26.4	75	45	232	114	5.43	3.57	28	529	1145	13.39	2571	196
4.8	12	17	23	65	37	192	99	6.43	4.20	34	300	600	11	2100	160
3.3	9	13	20	55	29	152	84	7.43	4.80	40	100	500	9	1600	120
1.8	6	9	17	45	21	112	69	8.43	5.40	46	-100	200	7	1100	80
.3	3	5	14	35	13	72	54	9.43	6.00	52	-300	-100	5	600	40
-1.2	0	1	11	25	5	32	39	10.43	6.60	58	-500	-400	3	100	0

Factors Helping to Adjust the Farm Business on 75 Dairy Farms in Clinton, Bond, Monroe, and Montgomery Counties, 1934

Items	Your farm	Average of 75 farms	12 most profitable farms	12 least profitable farms
Size of farms--acres - - - - -		205.2	198.4	221.2
Percent of land area tillable- - - - -		83.06	85.9	84.1
Percent of tillable land in hay and pasture - - - - -		42.7	36.7	50.1
Gross receipts per acre- - - - -		\$ 18.38	\$ 16.28	\$ 8.70
Total expenses per acre- - - - -		7.39	7.97	6.81
Net receipts per acre- - - - -		4.99	2.31	1.89
Value of land per acre - - - - -		42	48	42
Total investment per acre- - - - -		30	72	80
Acres in Corn- - - - -		41.7	24.6	18.5
Oats- - - - -		42.9	25.3	19.7
Wheat - - - - -		34.7	32.3	29.8
Hay - - - - -		31.5	26.7	34.5
Tillable pasture- - - - -		42.0	35.2	38.7
Crop yields--Corn, bu. per acre- - - - -		24.1	18.1	17.7
Oats, bu. per acre- - - - -		23.4	11.1	12.8
Wheat, bu. per acre - - - - -		22.7	23.4	22.5
Value of feed fed to productive L.S. - - - - -		1 304	1 412	1 202
Returns per \$100 of feed fed to unproductive livestock- - - - -		118	137	96
Returns per \$100 invested in:				
Cattle- - - - -		113	129	83
Poultry- - - - -		124	179	157
Pigs weaned per litter - - - - -		6.5	6.7	6.1
Income per litter farrowed - - - - -		82	98	71
Dairy sales per dairy cow- - - - -		64	75	55
Number of dairy cows - - - - -		13.0	13.6	13.6
Investment in productive L.S. per A. - - - - -		5.35	6.29	5.13
Receipts from productive L.S. per A. - - - - -		7.48	7.78	5.24
Man labor cost per crop acre - - - - -		5.63	6.00	5.87
Machinery cost per crop acre - - - - -		1.74	1.81	1.63
Power and mech. cost per crop A. - - - - -		3.72	4.69	3.61
Farms with tractor - - - - -		24%	52%	25%
Value of feed fed to horses- - - - -		115	107	291
Man labor cost per \$100 gross income - - - - -		18	25	37
Expenses per \$100 gross income - - - - -		61	42	75
Farm improvements cost per acre- - - - -		1.31	1.77	1.83
Excess of sales over cash expenses - - - - -		1 301	1 735	933
Increase in inventory- - - - -		348	599	135
Profit earned on investment- - - - -		6.10%	16.18%	2.36%
Gross receipts per farm- - - - -		2 74	3 431	1 324

Chart for Studying the Efficiency of Various Parts of Your Business, Clinton, Bond, Monroe, and Montgomery Counties, 1934

The numbers above the lines across the middle of the page are the averages for the 35 dairy farms included in this report for the factors named at the top of the page. By drawing a line across each column at the number measuring the efficiency of your farm in that factor, you can compare your efficiency with that of other farmers in your locality.

Rate earned on investment	Bushels per acre		Number of dairy cows	Hogs: Income per litter	Dairy sales per dairy cow	Poultry income per \$100 invested	L.S. income per \$100 of feed fed	Cost per crop acre		Labor cost per \$100 gross receipts	Increase in inventory	Sales over cash expenses	Gross receipts		Acres in farm
	Corn	Wheat						Labor	Power and machinery				Per acre	Per farm	
13.7	33	37	23	138	114	334	178	.68	—	3	1400	2800	22	4500	355
12.2	30	34	21	128	104	304	166	1.68	.72	8	1200	2500	20	4100	325
10.7	27	31	19	118	94	274	154	2.68	1.47	13	1000	2200	18	3700	295
9.2	24	28	17	108	84	244	142	3.68	2.22	18	800	1900	16	3300	265
7.7	21	25	15	98	74	214	130	4.68	2.97	23	600	1600	14	2900	235
6.23	18.1	22.3	13	88	64	184	118	5.68	3.72	28	386	1291	12.38	2540	205
4.7	15	19	11	78	54	154	106	6.68	4.47	33	200	1000	10	2100	175
3.2	12	16	9	68	44	124	94	7.68	5.22	38	0	700	8	1700	145
1.7	9	13	7	58	34	94	82	8.68	5.97	43	-200	400	6	1300	115
.2	6	10	5	48	24	64	70	9.68	6.72	48	-400	100	4	900	85
-1.3	3	7	3	38	14	34	58	10.68	7.47	53	-600	-200	2	500	55

Influence of AAA Programs on Cropping Systems and Farm Incomes

The farm-account records in Illinois were influenced both directly and indirectly by the corn-hog and wheat adjustment programs. A large percentage of accounting farms was under one or both contracts in 1934. The acreages of corn and wheat on these farms were, therefore, less than normal. This should have resulted in lower operating costs. Corn-hog benefit payments for the entire 1934 program will total about 40 million dollars for the state, while wheat benefit payments will be about 2.4 million dollars.

The benefit payments for accounting farms are indicated in the following table, which shows the average payment for those farms receiving payments, and includes only those payments received by the cooperator before the 1934 books were closed. In some cases only the first corn-hog check is included, while in other cases the second check had been received. The second payments not received, and the third payments will be entered in the 1935 books.

AAA Benefit Payments Received on 75 Accounting Farms
in Clinton, Bond, Monroe, and Montgomery Counties for 1934

	Corn		Wheat		Hogs		Average of all payments ^{1/}
	Number of farms	Amount per farm	Number of farms	Amount per farm	Number of farms	Amount per farm	
10 most profitable farms	16	\$75	20	\$165	17	\$73	\$220
10 least profitable farms	11	57	17	134	21	65	214
All accounting farms	57	64	45	140	56	71	205

^{1/} Total benefit payments reported by accounting farms under contract for 1934 divided by total number of accounting farms.

On many farms the cash received from benefit payments will more than pay for the year's taxes. As an average for all accounting farms, the payments actually received were \$84 more than sufficient to pay the 1934 taxes.

It is interesting to note the use made of the contracted acres on the accounting farms. The average farm had 13.4 contracted acres which were used as follows: 5.7 idle; 3.4 red clover; 4.1 sweet clover; 1.2 soybeans; and 1.1 alfalfa; and 1.9 acres were in other crops. These data indicate that most farmers made good use of their contracted acres from the standpoint of soil improvement, as a large part of them were in legumes. When the Government restrictions on the use of crops grown on contracted acres were removed, they were on many farms the most profitable crops as they furnished hay and straw where badly needed in drought years. The legumes had the further advantage of being immune to attack from chinch bugs.

Farm earnings were influenced indirectly by the AAA programs in that the reduction in production increased the price of the commodities involved. The drought was a more important factor in reducing production than the adjustment programs, yet if it had not been for the corn-sealing program there would have been but little corn in the hands of farmers at the time the dollar price became effective.

Variation in Earnings Over Five-Year Period

A comparison of production, income, and expenditures on the accounting farms in Clinton, Bond, Monroe, and Montgomery Counties for the last five years is very interesting because of the violent changes in price level. 1934 was the second year of very low crop yields, yet total receipts per farm were higher than in any other year in the last five, and were 82 percent of the 1929 gross receipts. Operating costs per acre were lower than in any year of the five except 1933. Thus profits were the best the county had experienced since 1928.

Earnings in 1935, as usual, will depend upon individual efficiency, weather and prices. A normal year will mean larger yields of grain and probably lower prices.

Comparison of Earnings and Investments on all Accounting Farms in
Clinton, Bond, Monroe, and Montgomery Counties for 1930-1934

Items	1930 ^{1/}	1931 ^{1/}	1932 ^{1/}	1933 ^{2/}	1934
Number of farms - - - - -	36	31	30	34	73
Average size of farms, acres- - - -	173	170	166	194	200
Average rate earned, to pay for management, risk and capital - - -	1.8%	0.2%	-3.1%	1.5%	6.24%
Average labor and management wage -	\$-47	\$-428	\$-1 004	\$-239	\$619
Gross income per acre - - - - -	14.64	9.94	5.91	8.72	12.72
Operating cost per acre - - - - -	12.54	9.76	9.17	7.38	7.52
Average value of land per acre- - -	67	64	62	55	53
Total investment per acre - - - - -	116	103	104	91	83
Investment per farm in:					
Total livestock- - - - -	2 252	1 863	1 662	1 607	1 310
Cattle - - - - -	1 228	1 024	902	832	619
Hogs - - - - -	287	142	108	149	153
Poultry- - - - -	282	271	255	196	130
Gross income per farm - - - - -	2 539	1 688	982	1 692	2 549
Income per farm from:					
Crops- - - - -	---	331	28	443	1 181
Miscellaneous income - - - - -	91	96	67	44	5
Total livestock- - - - -	2 448	1 261	837	1 205	1 203
Cattle - - - - -	157	30	---	105	127
Dairy sales- - - - -	1 304	734	513	540	502
Hogs - - - - -	489	164	109	320	367
Poultry- - - - -	496	325	252	206	74-200
Average yield of corn in bu.- - - -	18	35	40	15	17
Average yield of wheat in bu. - - -	21	21	22	17	25

^{1/} Records from Clinton County included for 1930-1932.

^{2/} Records from Clinton, Bond, and Washington Counties included for 1933.



ANNUAL FARM BUSINESS REPORT ON THIRTY-EIGHT FARMS
IN EFFINGHAM COUNTY, ILLINOIS, 1934

P. E. Johnston, T. R. Hedges, and J. B. Andrews

The farm earnings of 38 account-keeping farmers in Effingham County showed an increase in 1934 over those of 1933. This is the second consecutive year of improvement in the business of these farms. The three years previous to 1933 showed very low returns.

These 38 accounts show for 1934 an average net income of \$1,029 per farm, as compared with an average of \$358 in 1933 and an average net loss of \$442 in 1932. The average cash income in 1934 was \$1,861 per farm, the cash business expenditures \$900 per farm, leaving a cash balance of \$961 to meet interest payments and family living expenses. (Those who keep home account books use the latter figure to represent the cash contribution of the farm to the "realized family income".) Besides the cash income there was an inventory increase of \$666 per farm due to the rise in the prices of farm products. This increase, added to the cash balance, resulted in an average excess of receipts over expenses of \$1,627 per farm. The inventory increase was a much smaller part of the total farm income in 1934 than in 1933.

These data must not be considered representative of average farm conditions, for they were secured from farms which are larger than average, and were managed by farmers who are more efficient than the average of all farmers in the county.

For the state as a whole, farm earnings were better in 1934 than in 1933 in spite of the fact that corn and oat yields were very low due to the drouth and to chinch bug damage. In the western and southwestern parts of the state the drouth caused an almost total failure of both corn and oats, which accounts for farm earnings being lower there than in other parts of the state.

The corn crop was best in the southeastern part of the state and was fair in the northwestern section. Wheat yields were particularly good in the south and central portions of the state. Soybean yields were very good throughout the state, and there was a larger than normal acreage in Illinois in 1934. This state produced over half of the nation's 1934 crop of soybeans.

Chinch bug damage extended over most of the state last year but was much more severe in some sections than in others, and was much worse on some farms than on other farms in the same community. Conditions affecting crop yields were very spotted; which accounts in part for the wide variation in farm earnings from one section of the state to another and the wider variations than usual from one farm to another.

*Mr. V. D. Evans, farm adviser in Effingham County, cooperated in supervising and collecting the records on which this report is based.

Industries other than agriculture again showed improved earnings over the previous year. A group of 840 industrial corporations reported by a nationally known bank showed average earnings of 5.0 percent on their invested capital in 1934, as compared with 3.4 percent for the same corporations in 1933. A similar group had a loss of one-tenth of one percent in 1932, and average earnings of 3.3 percent in 1931.

In comparing the average earnings of corporations with the rate earned on investment on accounting farms, it is well to keep in mind that in corporation accounting, charges are made for management, while in the farm accounts no comparable deduction has been made. On the other hand the farmer and his family receive food, fuel, and other items of living from the farm for which the farm has received no credit in the records used in this report. For the average central Illinois farm family, consisting of five persons, the value of the food and fuel furnished by the farm was about \$250 in 1934, when estimated on the basis of the wholesale price for farm products.

Variations in Farm Incomes

There was a much wider range in farm earnings on the accounting farms in 1934 than in 1933. This was true for the farms included in this report, and was also true when the average earnings of farms in one section of the state are compared with the earnings of farms in other areas.

The extremely wide range in earnings was due to a combination of physical and economic factors. The average yields of wheat and soybeans were much better, compared with the five-year average, than the average yields of corn and oats. This variation favored those sections which had larger acreages of the higher yielding crops in 1934. There was also a wide range in average corn yields from one section of the state to another as well as between individual farms in the same area. The price of grains was high in 1934 as compared with prices of livestock and livestock products. Farms where grain sales constitute a large part of the farm income thus had an advantage. The rapid increase in the prices of farm products, particularly grains, favored those farms which had large stocks of salable products on hand at the beginning of the year. Many farmers who inventoried the corn on hand at the beginning of 1934 at 40 cents a bushel, later sold this corn for 70 cents.

In this group of 38 accounting farms the most successful third shows an average net income of \$1860, the average net income of the least successful third of the farms was only \$274. Figured on a cash basis the more successful farms had on the average 131 percent more cash income left to meet interest payments and family living expenses than did the least successful farms. In 1933 the comparable net incomes for the two groups was \$777 and \$-126 respectively.

Investments, Receipts, Expenses and Earnings on
38 Effingham County Farms in 1954

Items	Your farm	Average of 38 farms	13 most profitable farms	13 least profitable farms
CAPITAL INVESTMENTS				
Land - - - - -		7 599	7 756	7 594
Farm improvements- - - - -		1 895	1 996	1 804
Livestock total- - - - -		<u>1 291</u>	<u>1 510</u>	<u>1 121</u>
Horses - - - - -		327	393	303
Cattle - - - - -		708	848	592
Hogs - - - - -		92	105	97
Sheep- - - - -		32	29	16
Poultry- - - - -		132	135	113
Machinery and equipment- - -		930	864	902
Feed and grain - - - - -		939	1 199	755
Total capital investment	\$ _____	<u>\$12 652</u>	<u>\$13 325</u>	<u>\$12 176</u>
RECEIPTS AND NET INCREASES				
Livestock total- - - - -		<u>1 221</u>	<u>1 538</u>	<u>878</u>
Horses - - - - -		31	42	7
Cattle - - - - -		209	316	112
Hogs (including AAA payments)		256	335	195
Sheep- - - - -		41	44	8
Poultry- - - - -		101	112	95
Egg sales- - - - -		186	205	140
Dairy sales- - - - -		397	424	321
Feed and grains (including AAA payments) - - - - -		868	1 394	544
Labor off farm - - - - -		78	90	63
Miscellaneous receipts - - -		2	1	5
Total receipts & net increases	\$ _____	<u>\$2 169</u>	<u>\$3 023</u>	<u>\$1 490</u>
EXPENSES AND NET DECREASES				
Farm improvements- - - - -		114	110	138
Horses - - - - -		---	---	---
Miscellaneous livestock decreases		---	---	---
Machinery and equipment- - -		136	130	156
Feed and grain - - - - -		---	---	---
Livestock expense- - - - -		19	21	17
Crop expense - - - - -		83	89	77
Hired labor- - - - -		57	83	24
Taxes- - - - -		105	122	97
Miscellaneous expenses - - -		28	27	32
Total expenses & net decreases	\$ _____	<u>\$ 542</u>	<u>\$ 582</u>	<u>\$ 541</u>
RECEIPTS LESS EXPENSES- - - - -				
Total unpaid labor- - - - -	\$ _____	<u>\$1 627</u>	<u>\$2 441</u>	<u>\$ 949</u>
Operator's labor - - - - -		598	581	675
Family labor - - - - -		407	420	389
Family labor - - - - -		191	161	286
Net income from investment and management- - - - -		1 029	1 860	274
RATE EARNED ON INVESTMENT - - - -	%	<u>8.13%</u>	<u>13.96%</u>	<u>2.25%</u>
Return to capital and operator's labor and management- - - - -		1 436	2 280	663
5% of capital invested- - - - -		632	666	609
LABOR AND MANAGEMENT WAGE - - - -	\$ _____	<u>\$ 804</u>	<u>\$1 614</u>	<u>\$ 54</u>

The following table shows the number of farms having certain net incomes per acre. There was a marked difference between the most successful and the least successful farms.

<u>Average net in-</u> <u>come per acre</u>	<u>Number of</u> <u>farms</u>	<u>Average net in-</u> <u>come per acre</u>	<u>Number of</u> <u>farms</u>
\$13.	2	\$3.	7
11.	5	1.	5
9.	1	-1.	1
7.	3	-3.	1
5.	13		

A further study of the farm businesses made by comparing the investments, receipts, and expenses of the group of farms with the highest net incomes with those having the lowest should throw some light on the question of why some farmers are more successful than others. This comparison is shown in the table on page 3.

The total investment on the most profitable farms averaged \$13,325, as compared with a total investment of \$12,176 on the least profitable farms. The two groups had about the same amount invested in land and improvements but the most profitable farms had a larger investment in productive livestock, and feed and grain. A difference of \$355 in the sale and inventory of feed and grain, accounts for much of the difference in income between the two groups. The total expense, including the charge for family labor was \$1,163 on the most profitable farms, as compared with \$1,216 on the least profitable group.

Changes in Inventories and Inventory Values

The year 1934 was similar to 1933 in that the prices of farm products continued to advance, causing further increases in inventory values. Owing to the poor crop yields in 1934 there were fewer bushels of grain on hand to inventory at the end of the year than at the beginning. The value of the smaller amount of grain, however, was greater than for the larger amount on hand at the beginning of the year.

Bushels of Corn Inventoried

	<u>Jan. 1, 1934</u>	<u>Dec. 31, 1934</u>
Average of all farms.	693	598
Average of 13 most successful farms . .	1 062	877
Average of 13 least successful farms. .	392	356
Your farm		

The most profitable farms had a much larger inventory of corn both at the beginning and end of the year; which accounts in part for the difference in farm earnings.

-5-

The average inventory increase for the accounting farms in Effingham County was \$666 in 1934, as compared with \$140 in 1933 and an inventory loss of \$372 a farm in 1932. There were increases of \$136 in total livestock, \$558 in feed and grain, and \$9 in machinery, while improvements showed a decrease of \$37. Such an increase in inventory as that for machinery results from the value of new replacements during the year being in excess of depreciation costs. This increase is of considerable interest for it is the first time that such an increase in machinery inventories has occurred since farm earnings began to decline so drastically with the general depression.

Inventory Changes for 1934

Items	Beginning	Closing	Inventory	Inventory
	inventory 1-1-34	inventory 12-31-34	changes 1934	changes your farm
Total livestock.	\$1 291	\$1 427	\$136	\$
Feed and grains.	939	1 497	558	
Machinery.	930	939	9	
Improvements (except residence)	<u>1 893</u>	<u>1 856</u>	<u>-37</u>	
Total.	\$5 053	\$5 719	\$666	\$

Some Adjustments on Effingham County Farms Since 1929

Farmers have been forced to make adjustments in their cash expenditures as the result of changes in their cash incomes. From 1929 through 1934 farm operating costs declined each year. Total operating expenses were 3 cents an acre less in 1934 than in 1933, while cash operating expenses were \$900 a farm in 1934 as compared with \$724 in 1933. The largest increase in expenditures over the previous year was for machinery and supplies for machinery. Indications point to an even greater expansion of spending for these items in 1935 since farmers have postponed machinery replacements during the four-year period since 1929.

Cash Income and Expenses on Accounting Farms in Effingham County
1929 and 1934

Items	Your	Average cash		Your	Average cash	
	farm 1934	expense 1934	per farm 1929	farm 1934	income 1934	per farm 1929
Livestock	\$	\$ 104	\$ 151	\$	\$1 189	\$1 575
Feed and grains		186	382		496	442
Machinery		241	321		96	122
Improvements.		77	138		---	4
Labor		57	119		78	75
Miscellaneous		28	22		2	4
Livestock expense		19	9		---	---
Crop expense.		83	99		---	---
Taxes		<u>105</u>	<u>125</u>			
Total	\$	\$ 900	\$1 366	\$	\$1 861	\$2 222
Excess of cash sales over expenses.	\$			\$	\$ 961	\$ 856
Increase in inventory					666	530
Income to labor and capital (Receipts less expenses)					1 627	1 386

The cumulative effect of several years of low agricultural prices on the demand for manufactured goods can readily be ascertained by a comparison of cash farm expenditures in 1934 with those in 1929. Although average cash income in 1934 was 84 percent of that in 1929, cash expenditures were only 66 percent as large. In 1934 livestock purchases were 69 percent, and feed and grain purchases 49 percent as large as in 1929. In 1934 these farms paid out 75 percent as much for machinery and 84 percent as much for crop expense as in 1929, while taxes were reduced to 84 percent of the 1929 level.

Comparison of Farms With High and Low Earnings

After deducting total expenses and net decreases from income and net increases there remained a net increase of \$8.80 per acre for the most profitable farms, as compared with \$1.24 per acre for the less profitable group. For the first group this was a return of 13.96 percent on the capital invested in the business, and for the second group 2.25 percent. The reasons for this difference may be obtained from a study of the data on pages 3 and 8.

The size of the most profitable farms was 211 acres, as compared with 222 for the least profitable. However, the most profitable farms had 12 percent more tillable land and 15 more crop acres per farm than the least profitable farms. The most profitable farms carried larger inventories in feed and grain, and productive livestock on which to make a profit when prices advanced. The cropping system was practically the same for the two groups. There was, however, considerable difference in the crop yields. The most profitable farms grew 10.6 bushels more corn, 5.4 bushels more oats and 3 bushels more wheat per acre than did the least profitable farms. The larger crop production and the increase in grain prices accounted for the fact that the closing inventory of feed and grain was \$906 per farm higher than the beginning inventory while on the less profitable farms it was only \$376 higher.

The total investment in productive livestock was \$5.60 per acre on the most profitable farms as compared with \$3.65 on the least profitable farms. The receipts from productive livestock were \$7.07 and \$3.93 per acre respectively. The difference in livestock efficiency is further illustrated by the fact that the returns per \$100 of feed fed were \$146 for the most profitable farms as compared with \$105 for the less profitable farms.

The total operating expenses of the two groups of farms showed but little difference. The total operating expense per acre for the most profitable group was \$5.50 as compared with \$5.48 for the least profitable group. The cost of power and machinery was 48 cents per crop acre lower while man labor costs were \$1.00 per crop acre lower, for the most profitable farms.

Influence of AAA Programs on Cropping Systems and Farm Incomes

The farm-account records in Illinois were influenced both directly and indirectly by the corn-hog and wheat adjustment programs. A larger percentage of accounting farms were under one or both contracts in 1934. The acreages of corn and wheat on these farms were therefore less than normal. This should have resulted in lower operating costs. Corn-hog benefit payments for the entire 1934 program will total about 40 million dollars for the state, while wheat benefit payments will be about 2.4 million dollars.

The benefit payments for accounting farms are indicated in the following table, which shows the average payment for those farms receiving payments, and includes only those payments received by the cooperator before the 1934 books were closed. In some cases only the first corn-hog check is included, while in other cases the second check had been received. The second payments not received and the third payments will be entered in the 1935 book.

AAA Benefit Payments Received in 1934

	Corn		Wheat		Hogs		Average of all payments ^{1/}
	Number of farms	Amount per farm	Number of farms	Amount per farm	Number of farms	Amount per farm	
1/3 most profitable farms	12	\$62	6	\$52	11	\$48	\$122
1/3 least profitable farms	9	58	9	49	8	43	100
All accounting farms	30	52	23	46	26	47	101

^{1/} Total benefit payments reported by accounting farms under contract for 1934 divided by total number of accounting farms.

On many farms the cash received from benefit payments will more than pay the year's taxes. As an average of all accounting farms, the payments actually received were sufficient to pay 96 percent of the 1934 taxes.

It is interesting to note the use made of the contracted acres on the accounting farms. On the most profitable farms 5.7 acres were idle, 4.4 were in crops. On the least profitable farms 12.2 acres were idle and 5.9 were in crops. When the Government restrictions on the use of crops grown on contracted acres were removed, they were on many farms the most profitable crops as they furnished hay and pasture where badly needed in drouth areas.

Farm earnings were influenced indirectly by the AAA programs in that the reduction in production increased the price of the commodities involved. The drouth was a more important factor in reducing production than the adjustment programs, yet if it had not been for the corn-sealing program there would have been but little corn in the hands of farmers at the time the major price advance became effective.

Factors Helping to Analyze the Farm Business on 33
Birmingham County Farms in 1934

Items	Your farm	Average of 33 farms	13 most profitable farms	13 least profitable farms
Size of farms--acres - - - - -	_____	210.3	211.4	221.7
Percent of land area tillable- - -	_____	84	86.4	73.6
Percent of tillable land in hay and pasture- - - - -	_____	50.1	47	48.9
Gross receipts per acre- - - - -	_____	10.29	14.30	6.72
Total expenses per acre- - - - -	_____	5.41	5.50	5.48
Net receipts per acre- - - - -	_____	4.88	8.80	1.24
Value of land per acre - - - - -	_____	36	37	34
Total investment per acre- - - - -	_____	60	63	55
Acres in Corn- - - - -	_____	32.3	34.9	30.5
Oats- - - - -	_____	19.5	20.4	19.4
Wheat - - - - -	_____	17.7	20.3	16.3
Soybeans- - - - -	_____	10.6	16.4	6.2
Hay - - - - -	_____	37.7	37.1	36.2
Tillable pasture- - - - -	_____	51	48.7	43.5
Crop yields--Corn, bu. per acre- -	_____	25.4	29.7	19.1
Oats, bu. per acre- -	_____	7.5	11	5.6
Wheat, bu. per acre -	_____	17.2	18.5	15.5
Value of feed fed to productive L.S.	_____	910	1 025	831
Returns per \$100 of feed fed to productive livestock- - - - -	_____	131	146	105
Returns per \$100 invested in:				
Cattle- - - - -	_____	33	92	73
Poultry - - - - -	_____	219	233	214
Pigs weaned per litter - - - - -	_____	6.4	6	6.5
Income per litter farrowed - - - -	_____	90	114	72
Dairy sales per dairy cow- - - - -	_____	48	54	40
Investment in productive L.S. per A.	_____	4.76	5.60	3.65
Receipts from productive L.S. per A.	_____	5.65	7.07	3.93
Man labor cost per crop acre - - -	_____	4.90	4.61	5.63
Machinery cost per crop acre - - -	_____	1.08	.97	1.30
Power and mach. cost per crop A. -	_____	2.17	1.93	2.41
Farms with tractor - - - - -	_____	52%	62%	46%
Value of feed fed to horses- - - -	_____	169	171	139
Man labor cost per \$100 gross income- - - - -	_____	28	20	45
Expenses per \$100 gross income - -	_____	53	38	82
Farm improvements cost per acre- -	_____	.54	.52	.62
Excess of sales over cash expenses	_____	961	1 344	581
Increase in inventory- - - - -	_____	666	1 097	368
Rate earned on investment- - - - -	_____	3.15	15.96	2.25
Gross receipts per farm- - - - -	_____	2 169	3 023	1 490

Chart for Studying the Efficiency of Various Parts of Your Business,
Effingham County, 1934

The numbers above the lines across the middle of the page are the averages for the 38 farms included in this report for the factors named at the top of the page. By drawing a line across each column at the number measuring the efficiency of your farm in that factor, you can compare your efficiency with that of other farmers in your locality.

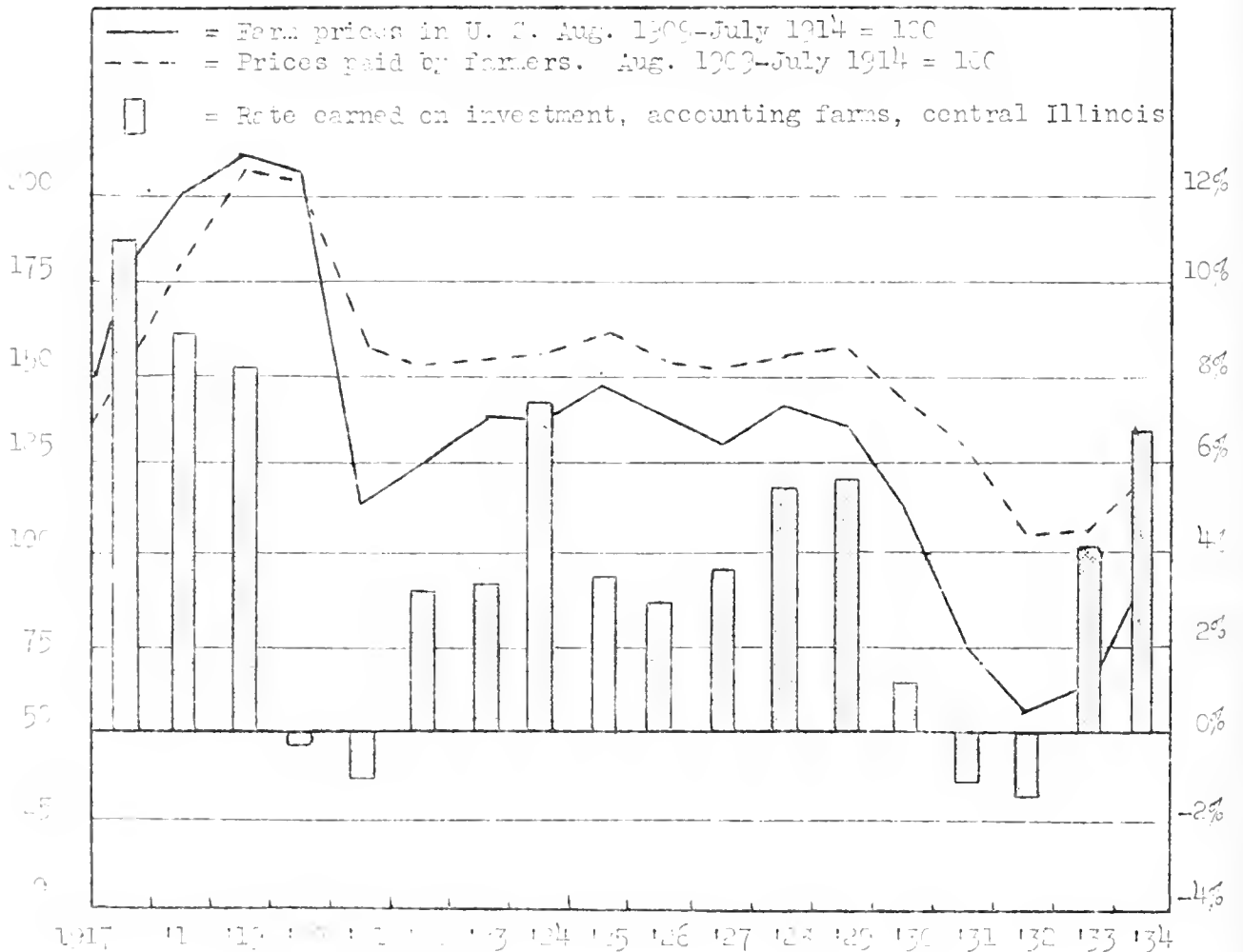
Rate earned on investment	Bushels per acre			Hogs: Income per litter	Dairy sales per dairy cow	Poultry income per \$100 invested	L.S. income per \$100 of feed fed	Cost per crop acre		Labor cost per \$100 gross receipts	Increase in inventory	Sales over cash expenses	Gross receipts		Acres in farm
	Corn	Oats	Wheat					Labor	Power and machinery				Per acre	Per farm	
18.13	45	22	27	240	68	469	231	--	--	--	2166	1960	17.80	3770	361
16.13	41	19	25	210	64	419	211	.90	.17	--	1866	1760	16.30	3470	331
14.13	37	16	23	180	60	369	191	1.90	.67	--	1566	1560	14.80	3170	301
12.13	33	13	21	150	56	319	171	2.90	1.17	8	1266	1360	13.30	2770	271
10.13	29	10	19	120	52	269	151	3.90	1.67	18	966	1160	11.80	2470	241
8.13	25.4	7.5	17.2	90	48	219	131	4.90	2.17	28	666	961	10.29	2169	211
6.13	21	4	15	60	44	169	111	5.90	2.67	38	366	760	8.80	1870	181
4.13	17	1	13	30	40	119	91	6.90	3.17	48	66	560	7.30	1570	151
2.13	13	--	11	0	36	69	71	7.90	3.67	58	-234	360	5.80	1270	121
.13	9	--	9	--	32	19	51	8.90	4.17	68	-534	160	5.30	970	91
-2.13	5	--	7	--	23	--	31	9.90	4.67	78	-834	-40	3.80	670	61

Influence of Price Changes on Farm Earnings

Farm prices in 1954 advanced more rapidly than did the prices of commodities which farmers bought. Farmers of the United States as a group could exchange their farm products in 1954 for 74 percent as many goods as for the period 1909-1914, while in 1933 they received only 64 percent, and 1932 only 61 percent as much in exchange for what they had to sell as in the prewar period. In the month of February, 1955, this index of purchasing power had increased to 77 percent of prewar, the index of farm prices having risen to 111 as compared with an index of 127 for commodities which farmers buy. When the line representing farm prices drops below the line representing prices paid by farmers, farm earnings are very low, but when these lines come close together farm earnings increase. (See following graph.)

Index of Prices

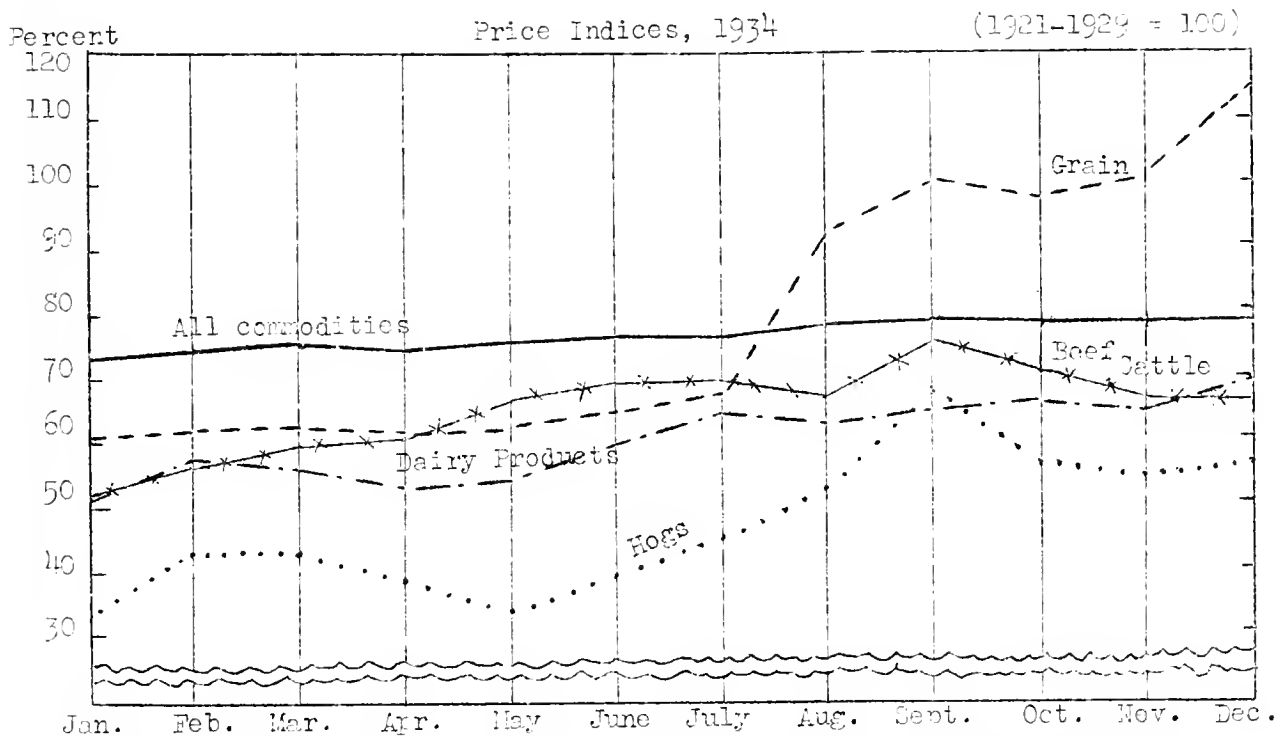
Rate Earned



Since the price of some farm products advanced much more rapidly during 1934 than other products, it is evident that some farmers would benefit more than others, depending upon the kind and quantity of products sold. Grain prices advanced much more rapidly than livestock prices; which resulted in a very bad price ratio for farmers who buy large quantities of feed. The average Illinois farm price of corn was 41 cents a bushel in January, 1934; it advanced steadily until the end of the year when it was 88 cents a bushel. Other grains made marked advance although not so great an advance as corn. The price of hogs fluctuated from a low of \$5.20 a hundred in May to a high of \$6.30 in September. The low point in the fall came in November when the average price was \$5.10. The price has advanced quite rapidly since November, the average price being \$7.50 for February, 1935. Beef cattle were worth \$4.10 a hundred in January, 1934 and advanced each month until September, when the price was \$5.90. They dropped to \$5.20 in December but increased again to \$7.40 for February, 1935.

The year 1934 set a record for the reduction in the numbers of livestock. The percentage decreases by species were as follows: horses, 1.1 percent; mules, 2.6 percent; all cattle, 11.2 percent; sheep, 4.7 percent; hogs, 35.3 percent. When all species are combined on the basis of their capacity to consume feed, the reduction was 13 percent. This reduction will greatly reduce the demand for feeds produced in 1935.

The relative change in prices of important commodities may be noted in the following graph, which shows the average Illinois farm prices by months as a percentage of the average prices for the period 1921-1929.



All commodities index represents the wholesale price of a large number of commodities for the United States, as computed by Bureau of Labor Statistics. Grain and livestock indices represent average monthly farm prices in Illinois.

Variation in Earnings Over Five-Year Period

A comparison of production, income, and expenditures on the accounting farms in Effingham County for the last five years is very interesting because of the violent changes in price level. 1934 was the second year of very low crop yields, yet total receipts per farm were higher than in any other year in the last five. Operating costs per acre were lower than in any year of the five. Thus profits were the best the county had experienced since 1927.

Earnings in 1935 as usual will depend upon individual efficiency, weather and prices. A normal year will mean larger yields of grain and probably lower prices.

Comparison of Earnings and Investments on Accounting Farms in Effingham County for 1930-1934

Items	1930	1931	1932	1933	1934
Number of farms - - - - -	32	35	34	32	38
Average size of farms, acres- - - -	189	196	199	194	211
Average rate earned, to pay for management, risk and capital - - -	0.1%	-0.1%	-3.5%	2.3%	8.13%
Average labor and management wage -	\$-61	\$-126	\$-659	\$133	\$204
Gross income per acre - - - - -	7.44	6.18	3.96	7.18	10.29
Operating cost per acre - - - - -	7.32	6.21	6.19	5.44	5.41
Average value of land per acre- - -	40	40	37	36	36
Total investment per acre - - - - -	68	67	64	62	60
Investment per farm in:					
Total livestock- - - - -	1 741	1 506	1 345	1 312	1 291
Cattle - - - - -	957	819	734	741	708
Hogs - - - - -	115	107	96	74	92
Poultry- - - - -	269	211	183	167	132
Gross income per farm - - - - -	1 406	1 210	736	1 394	2 169
Income per farm from:					
Crops- - - - -	62	214	---	396	868
Miscellaneous income - - - - -	48	72	47	56	2
Total livestock- - - - -	1 296	924	737	942	1 221
Cattle - - - - -	141	82	95	172	209
Dairy sales- - - - -	410	330	252	272	397
Hogs - - - - -	133	132	123	139	256
Poultry- - - - -	494	363	269	276	101
Average yield of corn in bu. - - - -	14	34	34	22	25
Average yield of wheat in bu. - - - -	13	27	13	13	18

ANNUAL FARM BUSINESS REPORT ON EIGHTY-THREE FARMS
 IN JEFFERSON, EDWARDS, WABASH, JACKSON, MARION, WHITE, SALINE, CRAWFORD,
 RICHLAND, CLAY, WASHINGTON, WAYNE, AND JOHNSON COUNTIES, ILLINOIS, 1934

P. E. Johnston, J. B. Andrews, and E. L. Sauer*

The farm earnings of 83 account-keeping farmers in the above counties showed an increase in 1934 over those of 1933. This is the second consecutive year of improvement in the business of these farms. The three years previous to 1933 showed very low returns.

These 83 accounts show for 1934 an average net income of \$1,194 per farm, as compared with an average of \$353 in 1933, and an average net loss of \$412 in 1932. The average cash income in 1934 was \$2,078 per farm, the cash business expenditures \$1,007 per farm, leaving a cash balance of \$1,071 to meet interest payments and family living expenses. (Those who keep home account books use the latter figure to represent the cash contribution of the farm to the "realized family income".) Besides the cash income, there was an inventory increase of \$680 per farm due to the rise in the prices of farm products. This increase, added to the cash balance, resulted in an average excess of receipts over expenses of \$1,751 per farm. The inventory increase was a larger part of the total farm income in 1934 than in 1933.

These data must not be considered representative of average farm conditions, for they were secured from farms which are larger than average, and which were managed by farmers who are more efficient than the average of all farmers in the county.

For the state as a whole, farm earnings were better in 1934 than in 1933, in spite of the fact that corn and oat yields were very low due to the drouth and to chinch bug damage. In the western and southwestern parts of the state the drouth caused an almost total failure of both corn and oats. This accounts for farm earnings being lower there than in other parts of the state.

The corn crop was best in the southeastern part of the state, and was fair in the northwestern section. Wheat yields were particularly good in the south and central portions of the state. Soybean yields were very good throughout the state, and there was a larger than normal acreage in Illinois in 1934. This state produced over half of the nation's 1934 crop of soybeans.

Chinch bug damage extended over most of the state last year, but was much more severe in some sections than in others, and was much worse on some farms than on other farms in the same community. Conditions affecting crop yields were very spotted. This accounts in part for the wide variation in farm earnings from one section of the state to another and the wider variations than usual from one farm to another.

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Industries other than agriculture again showed improved earnings over the previous year. A group of 840 industrial corporations reported by a nationally known bank showed average earnings of 5.0 percent on their invested capital in 1934, as compared with 3.4 percent for the same corporations in 1933. A similar group had a loss of one-tenth of one percent in 1932, and average earnings of 3.3 percent in 1931.

In comparing the average earnings of corporations with the rate earned on investment on accounting farms, it is well to keep in mind that in corporation accounting, charges are made for management, while in the farm accounts no comparable deduction has been made. On the other hand the farmer and his family receive food, fuel, and other items of living from the farm for which the farm has received no credit in the records used in this report. For the average central Illinois farm family, consisting of five persons, the value of the food and fuel furnished by the farm was about \$250 in 1934, when estimated on the basis of the wholesale price for farm products.

Variations in Farm Incomes

There was a much wider range in farm earnings on the accounting farms in 1934 than in 1933. This was true for the farms included in this report, and it was also true when the average earnings of farms in one section of the state are compared with the earnings of farms in other areas.

The extremely wide range in earnings was due to a combination of physical and economic factors. The average yields of wheat and soybeans were much better, compared with the five-year average, than the average yields of corn and oats. This variation favored those sections which had larger acreages of the higher yielding crops in 1934. There was also a wide range in average corn yields from one section of the state to another, as well as between individual farms in the same area. The price of grains was high in 1934 as compared with prices of livestock and livestock products. Farms where grain sales constitute a large part of the farm income thus had an advantage. The rapid increase in the prices of farm products, particularly grains, favored those farms which had large stocks of salable products on hand at the beginning of the year. Many farmers who inventoried the corn on hand at the beginning of 1934 at 40 cents a bushel, later sold this corn for 80 cents.

The 33 account-keeping farms in this report were divided into the three following groups: 56 farms on the lower-valued land, 17 farms on the higher-valued land, and 10 dairy farms. The 56 farms on the lower-valued land were further divided to permit the usual comparative analysis between the most profitable farms and the least profitable farms. The group of 56 farms averaged 184 acres in size and had an average land value of \$32 per acre. They received approximately one-half of their gross income from feed and grains and one-half from livestock and livestock products. The group of 17 farms averaged 234 acres in size and had an average land value of \$56 per acre. They received 65 percent of their gross income from feed and grains and 34 percent from livestock and livestock products. The 10 dairy farms were selected on the basis of the number of dairy cows per farm, and the proportion of the gross income received from dairy sales, the factors which usually indicate the relative importance and permanency of the dairy enterprise on the farm. The 33 farms were divided into the above groups in order to give the account cooperators in Southern Illinois a better analysis of their farm business. Such a division permits the comparison of the individual farm business with the averages of farms of similar type and organization.

Investments, Receipts, Expenses and Earnings on 56
Southern Illinois Farms on Lower-Valued Land in 1934

Items	Your farm	Average of 56 farms	19 most profitable farms	19 least profitable farms
CAPITAL INVESTMENTS				
Land - - - - -		5 970	5 707	4 851
Farm improvements- - - - -		1 538	1 598	1 272
Livestock total- - - - -		<u>901</u>	<u>960</u>	<u>731</u>
Horses - - - - -		313	329	243
Cattle - - - - -		340	358	291
Hogs - - - - -		110	125	64
Sheep- - - - -		41	41	51
Poultry- - - - -		97	107	82
Machinery and equipment- - - - -		631	554	665
Feed and grains- - - - -		743	867	483
Total capital investment	\$	\$9 783	\$9 686	\$8 002
RECEIPTS AND NET INCREASES				
Livestock total- - - - -		<u>894</u>	<u>1 092</u>	<u>613</u>
Horses - - - - -		32	38	27
Cattle - - - - -		121	179	41
Hogs (including AAA payments)		310	394	176
Sheep- - - - -		41	48	43
Poultry- - - - -		78	80	63
Egg sales- - - - -		180	231	123
Dairy sales- - - - -		132	122	140
Feed and grains (including AAA payments) - - - - -		894	1 259	461
Labor off farm - - - - -		60	79	57
Miscellaneous receipts - - - - -		4	2	8
Total receipts & net increases	\$	\$1 352	\$2 432	\$1 139
EXPENSES AND NET DECREASES				
Farm improvements- - - - -		82	90	71
Horses - - - - -		---	---	---
Miscellaneous livestock decreases		---	---	---
Machinery and equipment- - - - -		131	119	148
Feed and grains- - - - -		---	---	---
Livestock expense- - - - -		11	11	11
Crop expense - - - - -		110	137	79
Hired labor- - - - -		68	83	31
Taxes- - - - -		95	109	70
Miscellaneous expenses - - - - -		19	19	19
Total expenses & net decreases	\$	\$ 516	\$ 568	\$ 429
RECEIPTS LESS EXPENSES- - - - -	\$	\$1 336	\$1 864	\$ 710
Total unpaid labor- - - - -		546	510	605
Operator's labor - - - - -		386	382	376
Family labor - - - - -		160	128	229
Net income from investment and management - - - - -		790	1 354	105
RATE EARNED ON INVESTMENT - - - - -	%	8.08%	13.98%	1.31%
Return to capital and operator's labor and management - - - - -		1 176	1 736	481
5% of capital invested- - - - -		489	484	400
LABOR AND MANAGEMENT WAGE - - - - -	\$	\$ 637	\$1 252	\$ 81

In the group of 56 farms on the lower-valued land, the most successful one-third shows an average net income of \$1,354, while the average net income of the least successful one-third was only \$105. The average net income on the 17 farms on the higher-valued land was \$2,476, and the average net income on the 10 dairy farms was \$1,277.

The following table, based upon all 83 accounting farms, shows the number of farms having certain net incomes per acre. There was a marked difference between the most successful and the least successful farms.

<u>Average net in-</u> <u>come per acre</u>	<u>Number of</u> <u>farms</u>	<u>Average net in-</u> <u>come per acre</u>	<u>Number of</u> <u>farms</u>
\$19	2	\$7	11
17	1	5	17
15	3	3	18
13	4	1	8
11	4	-1	7
9	7	-3	1

A further study of the farm businesses made by comparing the investments, receipts, and expenses of the group of farms with the highest net incomes, with those having the lowest, should throw some light on the question of why some farmers are more successful than others. This comparison is shown in the table on pages 3 and 5.

In the group of 56 farms on the lower-valued land, the most profitable farms averaged 186 acres each, the least profitable 146 acres. This difference in size accounts in part for the variation in the average investment, receipts, and expenses in the two groups. The most profitable farms had higher total receipts and net increases due to larger sales of feed and grains, and of livestock and livestock products. Although the expenses per farm were higher on the most profitable farms, the total expense per acre, including the charge for family labor, was less than it was on the least profitable farms.

The 17 farms on the higher-valued land were approximately the same size as the 10 dairy farms, but they had a much larger total farm investment, due chiefly to their higher land values. The 10 dairy farms had a larger investment in total livestock, but not as large an investment in feed and grains as the 17 farms on the higher-valued land. The 17 farms on the higher-valued land had higher total receipts and net increases, due to their larger sales of feed and grains. However, they had smaller receipts from livestock and livestock products than the 10 dairy farms. The total expenses per farm and per acre, including the charge for family labor, were less on the 10 dairy farms than on the 17 farms on the higher-valued land.

-5-
Investments, Receipts, Expenses and Earnings on 27
Southern Illinois Farms in 1934

Items	Your farm	17 farms on higher-valued land	10 dairy farms
<u>CAPITAL INVESTMENTS</u>			
Land - - - - -		13 024	7 834
Farm improvements- - - - -		2 491	2 377
Livestock total- - - - -		<u>1 103</u>	<u>1 319</u>
Horses - - - - -		396	290
Cattle - - - - -		336	796
Hogs - - - - -		254	134
Sheep - - - - -		34	1
Poultry- - - - -		83	98
Machinery and equipment- - - - -		689	996
Feed and grains- - - - -		1 323	982
Total capital investment	\$	<u>\$18 826</u>	<u>\$13 508</u>
<u>RECEIPTS AND NET INCREASES</u>			
Livestock total- - - - -		1 378	1 776
Horses - - - - -		26	70
Cattle - - - - -		174	195
Hogs (including AAA payments)		740	463
Sheep- - - - -		52	2
Poultry- - - - -		103	113
Egg sales- - - - -		140	145
Dairy sales- - - - -		163	788
Feed and grains (including AAA payments) - - - - -		2 636	735
Labor off farm - - - - -		62	109
Miscellaneous receipts - - - - -		1	9
Total receipts & net increases	\$	<u>\$ 4 079</u>	<u>\$2 629</u>
<u>EXPENSES AND NET DECREASES</u>			
Farm improvements- - - - -		144	111
Horses - - - - -		---	---
Miscellaneous livestock decreases		---	---
Machinery and equipment- - - - -		207	205
Feed and grains- - - - -		---	---
Livestock expense- - - - -		21	28
Crop expense - - - - -		184	124
Hired labor- - - - -		278	137
Taxes- - - - -		184	117
Miscellaneous expenses - - - - -		21	22
Total expenses & net decreases	\$	<u>\$ 1 039</u>	<u>\$ 744</u>
<u>RECEIPTS LESS EXPENSES-</u>			
	\$	<u>\$ 3 040</u>	<u>\$1 885</u>
Total unpaid labor- - - - -		564	608
Operator's labor - - - - -		404	420
Family labor - - - - -		160	188
Net income from investment and management - - - - -		2 476	1 277
RATE EARNED ON INVESTMENT - - - - -	%	<u>13.15%</u>	<u>9.45%</u>
Return to capital and operator's labor and management - - - - -		2 880	1 697
5% of capital invested- - - - -		941	676
LABOR AND MANAGEMENT WAGE - - - - -	\$	<u>\$ 1 939</u>	<u>\$ 983</u>

Changes in Inventories and Inventory Values

The year 1934 was similar to 1933 in that the prices of farm products continued to advance, causing further increases in inventory values. Owing to the poor crop yields in 1934 there were fewer bushels of grain on hand to inventory at the end of the year than at the beginning. The value of the smaller amount of grain, however, was greater than for the larger amount on hand at the beginning of the year.

Bushels of Grain Inventoried on 56 Farms on Lower-Valued Land

	Corn		Wheat	
	Jan. 1, '34	Dec. 31, '34	Jan. 1, '34	Dec. 31, '34
Average of 56 farms	710	232	23	27
Average of 19 high farms.	754	775	200	219
Average of 19 low farms	433	273	64	57
Your farm				

Bushels of Grain Inventoried on Farms on Higher-Valued Land and on Dairy Farms

	Corn		Wheat	
	Jan. 1, '34	Dec. 31, '34	Jan. 1, '34	Dec. 31, '34
Average of 17 farms on higher-valued land	1 826	1 284	159	543
Average of 10 dairy farms	847	615	183	171
Your farm				

The difference in quantities of grain inventoried was one of the factors influencing the difference in earnings. The most profitable farms in the lower-valued land group had larger inventories of corn and wheat, both at the beginning and end of the year, than the least profitable farms in that group. The large quantity of grain inventoried on the 17 farms on higher-valued land significantly influenced their returns from feed and grains.

The average inventory increase for the 83 accounting farms in this study was \$680 in 1934. There were increases of \$574 in feed and grain, \$78 in livestock, and \$30 in machinery, while improvements showed a decrease of \$2. Such an increase in inventory as that for machinery results from the value of new replacements during the year being in excess of the depreciation costs. This increase is of considerable interest, for it is the first time that such an increase in machinery has occurred since farm earnings began to decline so drastically with the general depression.

Inventory Changes on 83 Accounting Farms
in Southern Illinois for 1934

Items	Beginning inventory 1-1-34	Closing inventory 12-31-34	Inventory changes 1934	Inventory changes, your farm
Total livestock.	\$ 993	\$1 071	\$ 78	\$
Feed and grains.	890	1 464	574	
Machinery.	727	757	30	
Improvements (except residence).	<u>1 834</u>	<u>1 832</u>	<u>- 2</u>	
Total.	<u>\$4 444</u>	<u>\$5 124</u>	<u>\$680</u>	\$

Some Adjustments on Accounting Farms in Southern Illinois Since 1929

Farmers have been forced to make adjustments in their cash expenditures as the result of changes in their cash income. From 1930 through 1933, farm operating costs declined each year, but the year 1934 brought a reversal of this trend. The total operating expenses were 10 cents an acre higher in 1934 than in 1933, while cash operating expenses were \$1,007 a farm in 1934 as compared with \$732 in 1933. While there were increases over the previous year for all items of expenditures except feed and grain and livestock expense, the most significant increases were for crop expense, machinery, labor, and improvements. Indications point to an expansion of spending in 1935 for repairs and replacements for machinery and improvements, since farmers have postponed purchase of these items during the five-year period since 1929.

Cash Income and Expenses on 83 Accounting
Farms in Southern Illinois Counties for 1929 and 1934

Items	Your farm 1934	Average cash expense per farm		Your farm 1934	Average cash income per farm	
		1934	1929		1934	1929
Livestock	\$	\$ 126	\$ 236	\$	\$1 148	\$1 976
Feed and grains		139	432		797	596
Machinery		239	332		54	83
Improvements.		104	158		8	4
Labor		120	161		67	73
Miscellaneous		20	21		4	8
Livestock expense		15	15		---	---
Crop expense.		128	130		---	---
Taxes		116	163		---	---
Total	<u>\$</u>	<u>\$1 007</u>	<u>\$1 653</u>	<u>\$</u>	<u>\$2 078</u>	<u>\$2 740</u>
Excess of cash sales over expenses.	\$			\$	\$1 071	\$1 087
Increase in inventory					680	546
Income to labor and capital (Receipts less expenses).					1 751	1 633

The cumulative effect of several years of low agricultural prices on the demand for manufactured goods can readily be ascertained by a comparison of cash farm expenditures in 1934 with those in 1929. Although the average cash income in 1934 was 76 percent of that in 1929, cash expenditures were only 61 percent as large. In 1934 livestock purchases were 53 percent, and feed and grain purchases 32 percent as large as in 1929. In 1934 these farms paid out 72 percent as much for machinery, 66 percent as much for improvements, and 98 percent as much for crop expense as in 1929, while taxes were reduced to 69 percent of the 1929 level.

Comparison of Farms with High and Low Earnings on
Lower-Valued Land

The 19 most profitable farms on the lower-valued land had net receipts per acre of \$7.27, as compared with 72 cents per acre for the 19 least profitable farms on the lower-valued land. The reasons for this difference may be obtained from a study of the data on pages 3 and 12.

The most profitable farms were 39.8 acres larger and had a larger proportion of their land area tillable than the least profitable farms. They had 10.2 acres more corn, 3.7 acres more oats, 16.6 acres more wheat, and 3.8 acres more soybeans than the least profitable farms. Since wheat and soybeans were two of the high-profit crops in 1934, their larger acreage of these crops was an important factor in accounting for the higher returns from feed and grains on the most profitable farms. The most profitable farms also carried larger inventories of feed and grains on which to make a profit when prices advanced. Along with the larger acreage of crops, another reason for the larger inventories of feed and grains was the higher crop yields, there being an advantage of 13.8 bushels of corn, 2.0 bushels of oats, 5.5 bushels of wheat, and 5.0 bushels of soybeans per acre in favor of the high-profit group.

The most profitable farms had more livestock, and were more efficient in their livestock feeding operations than the least profitable farms. They had an investment in productive livestock of \$3.66 per acre, and fed \$826 of feed per farm, as compared with \$3.35 invested per acre, and \$578 of feed fed per farm on the least profitable farms. The productive livestock on the most profitable farms returned \$122 per \$100 of feed fed, as compared with returns of \$101 per \$100 of feed fed on the least profitable farms. The most profitable farms had an income of \$104 per litter farrowed, as compared with \$65 for the least profitable group.

The larger income on the most profitable farms was secured with a total operating cost of \$5.79 per acre, as compared with \$7.06 for the least profitable farms. The man labor cost per crop acre was \$4.71 on the most profitable farms, as compared with \$6.71 per crop acre on the least profitable farms, while power and machinery costs per crop acre were \$1.90 on the most profitable farms and \$3.23 per crop acre on the least profitable farms.

Analysis of Farms on Higher-Valued Land and Dairy Farms

The 17 farms on the higher-valued land had net receipts per acre of \$10.57, while the 10 dairy farms had net receipts per acre of \$5.47. The reasons for these returns may be obtained from a study of the data on pages 5 and 14. The returns from these two groups of farms may be further analyzed by comparing the data on them with the data on the 56 farms on the lower-valued land, on pages 3 and 12.

The 17 farms averaged 234 acres in size, and had 159.5 crop acres per farm. They had 55.4 acres of corn, 13.6 acres of oats, 47.0 acres of wheat, and 27.3 acres of hay. They carried large inventories of feed and grains on which to make a profit when prices advanced. Their crop yields were very excellent, as they had an average production per acre of 36.2 bushels of corn, 33.0 bushels of oats, and 26.0 bushels of wheat. These 17 farms had an average investment in productive livestock of \$3.13 per acre, and fed \$1,189 of feed per farm. They secured returns of \$114 per \$100 of feed fed to productive livestock.

The 10 dairy farms had an average investment in productive livestock of \$4.48 per acre, and fed \$1,185 of feed per farm. They secured returns of \$144 per \$100 of feed fed. These farms had an average of 14.2 dairy cows per farm, and had average dairy sales of \$55 per dairy cow. The 10 dairy farms averaged 233 acres in size, and had 29.5 acres of corn, 19.4 acres of oats, 26.6 acres of wheat, 48.2 acres of hay, and 63.1 acres of tillable pasture per farm. They had average crop yields of 26.5 bushels of corn, 14.9 bushels of oats, and 13.9 bushels of wheat per acre.

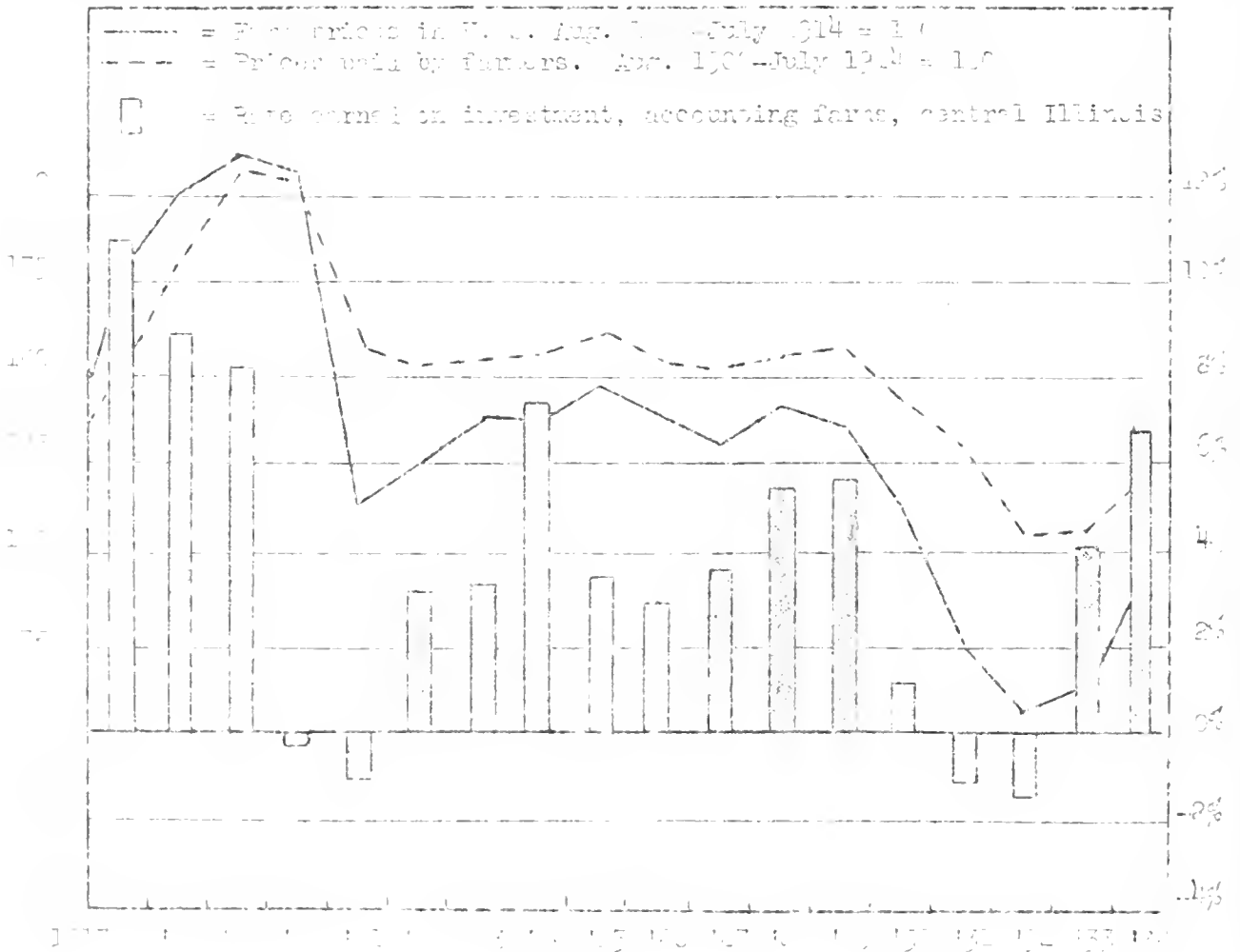
The 17 farms on the higher valued land had total expenses per acre, including the charge for family labor, of \$6.85, as compared with \$5.80 per acre on the 10 dairy farms. The man labor cost per crop acre was \$3.30 on the group of 17 farms, and \$4.96 per crop acre on the 10 dairy farms. Power and machinery cost per crop acre averaged \$2.76 for the 17 farms on the higher-valued land, and \$2.30 per crop acre on the 10 dairy farms.

Influence of Price Changes on Farm Earnings

Farm prices in 1933 advanced more rapidly than did the prices of commodities which farmers bought. Farmers of the United States as a group could exchange their farm products in 1934 for 74 percent as many goods as for the period 1907-1914, while in 1933 they received only 64 percent, and 1932 only 61 percent as much in exchange for what they had to sell as in the earlier period. In the month of February, 1933, this index of purchasing power had increased to 77 percent of par, the index of farm prices having risen to 111 as compared with an index of 127 for commodities which farmers buy. When the line representing farm prices drops below the line representing prices paid by farmers, farm earnings are very low, but when these lines come close together farm earnings increase. (See following graph.)

Index of Prices

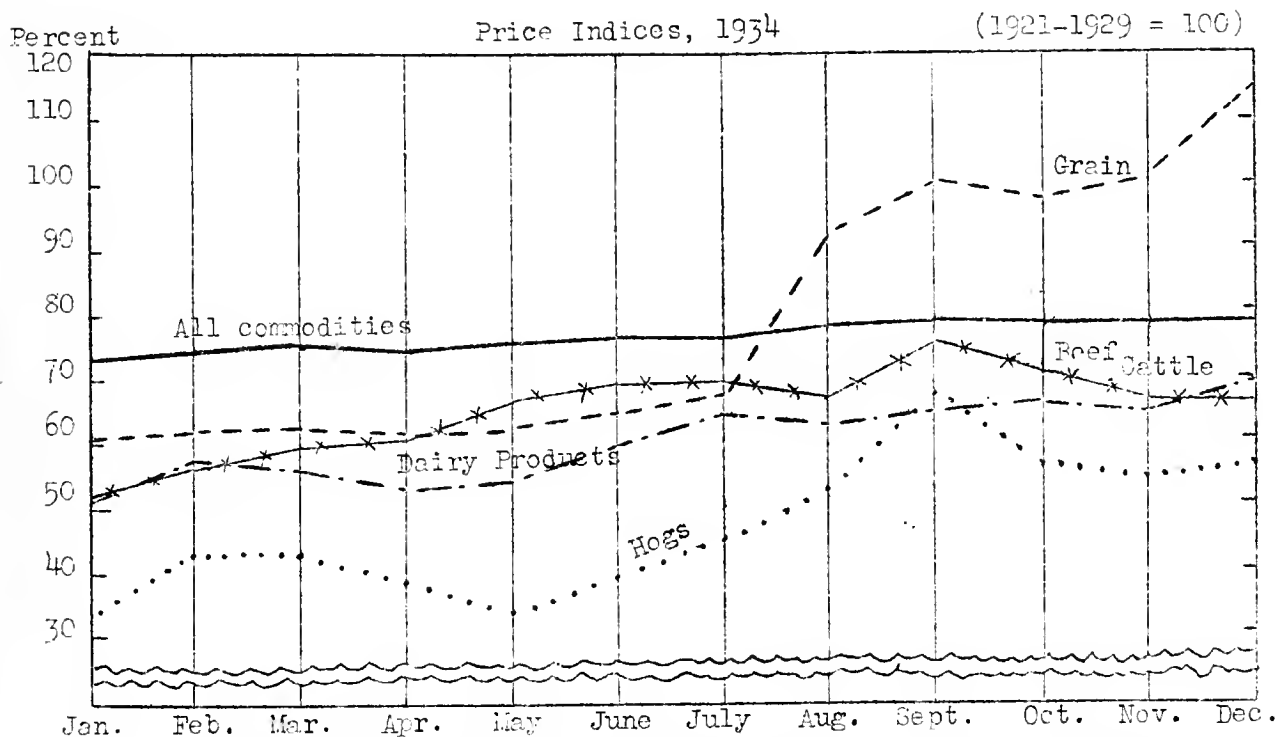
Rate Earned



Since the price of some farm products advanced much more rapidly during 1934 than other products, it is evident that some farms would benefit more than others, depending upon the kind and quantity of products sold. Grain prices advanced much more rapidly than livestock prices; which resulted in a very bad price ratio for farmers who buy large quantities of feed. The average Illinois farm price of corn was 41 cents a bushel in January, 1934; it advanced steadily until the end of the year when it was 88 cents a bushel. Other grains made marked advance although not so great an advance as corn. The price of hogs fluctuated from a low of \$5.20 a hundred in May to a high of \$6.30 in September. The low point in the fall came in November when the average price was \$5.10. The price has advanced quite rapidly since November, the average price being \$7.50 for February, 1935. Beef cattle were worth \$4.10 a hundred in January, 1934 and advanced each month until September, when the price was \$5.90. They dropped to \$5.20 in December but increased again to \$7.40 for February, 1935.

The year 1934 set a record for the reduction in the numbers of livestock. The percentage decreases by species were as follows: horses, 1.1 percent; mules, 2.6 percent; all cattle, 11.2 percent; sheep, 4.7 percent; hogs, 35.3 percent. When all species are combined on the basis of their capacity to consume feed, the reduction was 13 percent. This reduction will greatly reduce the demand for feeds produced in 1935.

The relative change in prices of important commodities may be noted in the following graph, which shows the average Illinois farm prices by months as a percentage of the average prices for the period 1921-1929.



All commodities index represents the wholesale price of a large number of commodities for the United States, as computed by Bureau of Labor Statistics. Grain and livestock indices represent average monthly farm prices in Illinois.

Factors Helping to Analyze the Farm Business on 56
Southern Illinois Farms on Lower-Valued Land in 1934

Items	Your farm	Average of 56 farms	19 most profitable farms	19 least profitable farms
Size of farms--acres - - - - -	_____	184.0	186.2	146.4
Percent of land area tillable- - -	_____	85.3	38.2	84.4
Percent of tillable land in hay and pasture - - - - -	_____	52.7	45.3	60
Gross receipts per acre- - - - -	_____	10.07	13.06	7.78
Total expenses per acre- - - - -	_____	5.78	5.79	7.06
Net receipts per acre- - - - -	_____	4.29	7.27	.72
Value of land per acre - - - - -	_____	32	31	33
Total investment per acre- - - - -	_____	53	52	55
Acres in Corn- - - - -	_____	27.6	30.6	20.4
Oats- - - - -	_____	12.3	12.5	8.8
Wheat - - - - -	_____	20.2	28.1	11.5
Soybeans- - - - -	_____	4.4	5.3	1.5
Hay - - - - -	_____	32.9	27.9	36.8
Tillable pasture- - - - -	_____	49.2	46.5	37.4
Crop yields--Corn, bu. per acre- -	_____	29.1	34.6	20.8
Oats, bu. per acre- -	_____	17.8	18.6	16.6
Wheat, bu. per acre -	_____	19.6	21.1	15.6
Soybeans, bu. per acre	_____	11.9	15.8	10.8
Value of feed fed to productive L.S.	_____	742	826	578
Returns per \$100 of feed fed to productive livestock- - - - -	_____	116	128	101
Returns per \$100 invested in:				
Cattle- - - - -	_____	70	77	64
Poultry - - - - -	_____	248	264	219
Pigs weaned per litter - - - - -	_____	6.5	6.7	6.2
Income per litter farrowed - - - -	_____	89	104	65
Dairy sales per dairy cow- - - - -	_____	25	21	54
Investment in productive L.S. per A.	_____	3.36	3.66	3.35
Receipts from productive L.S. per A.	_____	4.68	5.66	4.00
Man labor cost per crop acre - - -	_____	5.19	4.71	6.71
Machinery cost per crop acre - - -	_____	1.23	1.01	1.72
Power and mach. cost per crop A. -	_____	2.27	1.90	3.08
Farms with tractor - - - - -	_____	43%	58%	42%
Value of feed fed to horses- - - -	_____	143	143	145
Man labor cost per \$100 gross income- - - - -	_____	30	23	51
Expenses per \$100 gross income - -	_____	57	44	91
Farm improvements cost per acre- -	_____	.45	.48	.98
Excess of sales over cash expenses	_____	831	1 022	481
Increase in inventory- - - - -	_____	505	842	229
Rate earned on investment- - - - -	_____	8.08	13.98	1.31
Gross receipts per farm- - - - -	_____	1 852	2 432	1 139

Chart for Studying the Efficiency of Various Parts of Your Business,
Southern Illinois Counties 1934

The numbers above the lines across the middle of the page are the averages for the 56 farms on lower-valued land included in this report for the factors named at the top of the page. By drawing a line across each column at the number measuring the efficiency of your farm in that factor, you can compare your efficiency with that of other farmers in your locality.

Rate earned on investment	Bushels per acre			Hogs: Income per litter	Dairy sales per dairy cow	Poultry income per \$100 invested	L.S. income per \$100 of feed fed	Cost per crop acre		Labor cost per \$100 gross receipts	Increase in inventory	Sales over cash expenses	Gross receipts		Acres in farm
	Corn	Oats	Wheat					Labor	Power and machinery				Per acre	Per farm	
18.0	49	33	30	139	50	448	166	.19	--	5	1500	1831	20	3350	380
16.0	45	30	28	129	45	408	156	1.19	.25	10	1300	1631	18	3050	340
14.0	41	27	26	119	40	368	146	2.19	.75	15	1100	1431	16	2750	300
12.0	37	24	24	109	35	328	136	3.19	1.25	20	900	1231	14	2450	260
10.0	33	21	22	99	30	288	126	4.19	1.75	25	700	1031	12	2150	220
8.08	29.1	17.8	19.6	89	25	248	116	5.19	2.27	30	505	831	10.07	1852	184
6.0	25	15	18	79	20	208	106	6.19	2.75	35	300	631	8	1550	140
4.0	21	12	16	69	15	168	96	7.19	3.25	40	100	431	6	1250	100
2.0	17	9	14	59	10	128	86	8.19	3.75	45	-100	231	4	950	60
0.	13	6	12	49	5	88	76	9.19	4.25	50	-300	31	2	650	20
-2.0	9	3	10	39	0	48	66	10.19	4.75	55	-500	-169	0	350	--

Factors Helping to Analyze the Farm Business on 27
Southern Illinois Farms in 1934

Items	Your farm	17 farms on higher-valued land	10 dairy farms
Size of farms--acres - - - - -	_____	234.2	233.3
Percent of land area tillable- - - - -	_____	85.7	87.2
Percent of tillable land in hay and pasture - - - - -	_____	34.0	54.7
Gross receipts per acre- - - - -	_____	17.42	112.7
Total expenses per acre- - - - -	_____	6.85	5.80
Net receipts per acre- - - - -	_____	10.57	5.47
Value of land per acre - - - - -	_____	56	34
Total investment per acre- - - - -	_____	80	58
Acres in Corn- - - - -	_____	55.4	29.5
Oats- - - - -	_____	18.6	19.4
Wheat - - - - -	_____	47.0	26.6
Soybeans- - - - -	_____	1.5	4.9
Hay - - - - -	_____	27.3	48.2
Tillable pasture- - - - -	_____	41.2	63.1
Crop yields--Corn, bu. per acre- - - - -	_____	36.2	26.5
Oats, bu. per acre- - - - -	_____	33.0	14.9
Wheat, bu. per acre - - - - -	_____	26.0	18.9
Value of feed fed to productive L.S. - Returns per \$100 of feed fed to productive livestock- - - - -	_____	1 189	1 185
Returns per \$100 invested in:	_____	114	144
Cattle- - - - -	_____	91	121
Poultry - - - - -	_____	276	250
Pigs weaned per litter - - - - -	_____	6.1	6.9
Income per litter farrowed - - - - -	_____	76	93
Number of dairy cows - - - - -	_____	5.1	14.2
Dairy sales per dairy cow- - - - -	_____	32	55
Investment in productive L.S. per A. -	_____	3.13	4.48
Receipts from productive L.S. per A. -	_____	5.78	7.31
Man labor cost per crop acre - - - - -	_____	3.30	4.96
Machinery cost per crop acre - - - - -	_____	1.30	1.46
Power and mach. cost per crop A. - - -	_____	2.76	2.30
Farms with tractor - - - - -	_____	71%	60%
Value of feed fed to horses- - - - -	_____	260	187
Man labor cost per \$100 gross income- - - - -	_____	13	26
Expenses per \$100 gross income - - - -	_____	39	51
Farm improvements cost per acre- - - -	_____	.61	.48
Excess of sales over cash expenses - - -	_____	1 650	1 430
Increase in inventory- - - - -	_____	1 390	455
Rate earned on investment- - - - -	_____	13.15%	9.45%
Gross receipts per farm- - - - -	_____	4 079	2 629

Chart for Studying the Efficiency of Various Parts of Your Business,
Southern Illinois Counties 1934

The numbers above the lines across the middle of the page are the averages for the 17 farms on higher-valued land and the 10 dairy farms included in this report for the factors named at the top of the page. By drawing a line across each column at the number measuring the efficiency of your farm in that factor, you can compare your efficiency with that of other farmers in your locality.

Rate earned on investment	Bushels per acre		Hogs: Income per litter	Number of dairy cows	Dairy sales per dairy cows	Poultry income per \$100 invested	L.S. income per \$100 of feed fed	Cost per crop acre		Labor cost per \$100 gross receipts	Increase in inventory	Sales over cash expenses	Gross receipts		Acres in farm
	Corn	Wheat						Labor	Power and machinery				Per acre	Per farm	
21.6	51	35.0	160	20	34	460	205	--	--	--	3400	3040	24.35	6400	440
19.6	47	32.5	145	18	84	420	190	1.13	.50	0	2900	2740	22.35	5800	400
17.6	43	30.0	130	16	74	380	175	1.13	1.00	5	2400	2440	20.35	5200	360
15.6	39	27.5	115	14	64	340	160	2.13	1.50	10	1900	2140	18.35	4600	320
13.6	35	25.0	100	12	54	300	145	3.13	2.00	15	1400	1840	16.35	4000	280
11.6	31.4	22.5	85	10	44	263	129	4.13	2.53	20	922	1540	14.35	3354	233.8
9.6	27	20.0	70	8	34	220	115	5.13	3.00	25	400	1240	12.35	2800	200
7.6	23	17.5	55	6	24	180	100	6.13	3.50	30	-100	940	10.35	2200	160
5.6	19	15.0	40	4	14	140	85	7.13	4.00	35	-600	640	8.35	1600	120
3.6	15	12.5	25	2	4	100	70	8.13	4.50	40	--	340	6.35	1000	80
1.6	11	10.0	10	0	--	60	55	9.13	5.00	45	--	40	4.35	400	--

Influence of AAA Programs on Cropping Systems and Farm Incomes

The farm-account records in Illinois were influenced both directly and indirectly by the corn-hog and wheat adjustment programs. A large percentage of accounting farms were under one or both contracts in 1934. The acreages of corn and wheat on these farms were therefore less than normal. This should have resulted in lower operating costs. Corn-hog benefit payments for the entire 1934 program will total about 40 million dollars for the state, while wheat benefit payments will be about 2.4 million dollars.

The benefit payments for accounting farms are indicated in the following table, which shows the average payment for those farms receiving payments, and includes only those payments received by the cooperator before the 1934 books were closed. In some cases only the first corn-hog check is included, while in other cases the second check had been received. The second payments not received, and the third payments will be entered in the 1935 book.

AAA Benefit Payments Received in 1934

	Corn		Wheat		Hogs		Average of all payments ^{1/}
	Number of farms	Amount per farm	Number of farms	Amount per farm	Number of farms	Amount per farm	
1/3 most profitable lower-valued land farms	15	\$53	7	\$100	13	\$ 89	\$148
1/3 least profitable lower-valued land farms	10	47	6	35	12	49	66
1/7 higher-valued land farms	15	91	14	136	14	122	293
10 dairy farms	9	36	6	81	8	83	147
All accounting farms	63	60	42	91	64	85	157
^{1/} Total benefit payments reported by accounting farms under contract for 1934 divided by total number of accounting farms.							

On many farms the cash received from benefit payments will more than pay for the year's taxes. As an average for all accounting farms, the payments actually received were \$41 more than sufficient to pay the 1934 taxes.

It is interesting to note the use made of the contracted acres on the accounting farms. The average farm had 15.9 contracted acres which were used as follows: 3.3 idle; 3.2 mixed red clover and timothy; 4.2 sweet clover; 1.4 soybeans; 2.6 alfalfa; and 3.2 acres were in other crops. These data indicate that most farmers made good use of their contracted acres from the standpoint of soil improvement, as a large part of them were in legumes. When the Government restrictions on the use of crops grown on contracted acres were removed, they were on many farms the most profitable crops as they furnished hay and pasture where badly needed in drouth areas. The legumes had the further advantage of being immune to attack from chinch bugs.

Farm earnings were influenced indirectly by the AAA programs in that the reduction in production increased the price of the commodities involved. The drouth was a more important factor in reducing production than the adjustment programs, yet if it had not been for the corn-sealing program there would have been but little corn in the hands of farmers at the time the major price advance became effective.

Variations in Earnings over Five-Year Period

A comparison of production, income, and expenditures on the accounting farms in Southern Illinois for the last five years is very interesting because of the violent changes in price level. Crop yields were good in most of Southern Illinois in 1934 and total receipts per farm were higher than in any other year in the last five. Operating costs per acre were lower than in any year of the last five except 1933. Thus profits were the best that this area has experienced since 1929.

Earnings in 1935, as usual, will depend upon individual efficiency, weather, and prices. With normal weather conditions, prices of grain are likely to go down to a more normal level which will give individual efficiency the responsibility for higher earnings on each farm.

Comparison of Earnings and Investments on Accounting Farms in
Southern Illinois for 1930-1934

Items	1930 ^{1/}	1931 ^{2/}	1932 ^{3/}	1933 ^{4/}	1934
Number of farms	34	62	39	30	83
Average size of farms, acres. . .	181	207	178	193	200
Average rate earned, to pay for management, risk and capital . .	-3.0%	-1.5%	-5.1%	2.5%	9.9%
Average labor and management wage	\$-382	\$-309	\$-567	\$133	\$983
Gross income per acre	6.84	6.16	3.44	7.24	12.00
Operating cost per acre	8.83	7.03	6.13	5.94	6.04
Average value of land per acre. .	37	32	31	32	38
Total investment per acre	67	58	53	52	60
Investment per farm in:					
Total livestock.	1 604	1 545	1 085	1 039	993
Cattle	771	809	505	476	394
Hogs	163	146	96	103	142
Poultry.	201	165	126	111	95
Gross income per farm	1 237	1 274	610	1 400	2 403
Income per farm from:					
Crops.	---	239	---	338	1 232
Miscellaneous income	57	90	49	69	4
Total livestock.	1 180	945	561	993	1 100
Cattle	101	145	10	40	137
Dairy sales.	348	314	265	506	217
Hogs	316	206	115	198	418
Poultry.	398	264	167	189	87
Average yield of corn in bu. . . .	12	31	32	29	31
Average yield of wheat in bu. . .	16	29	15	14	12

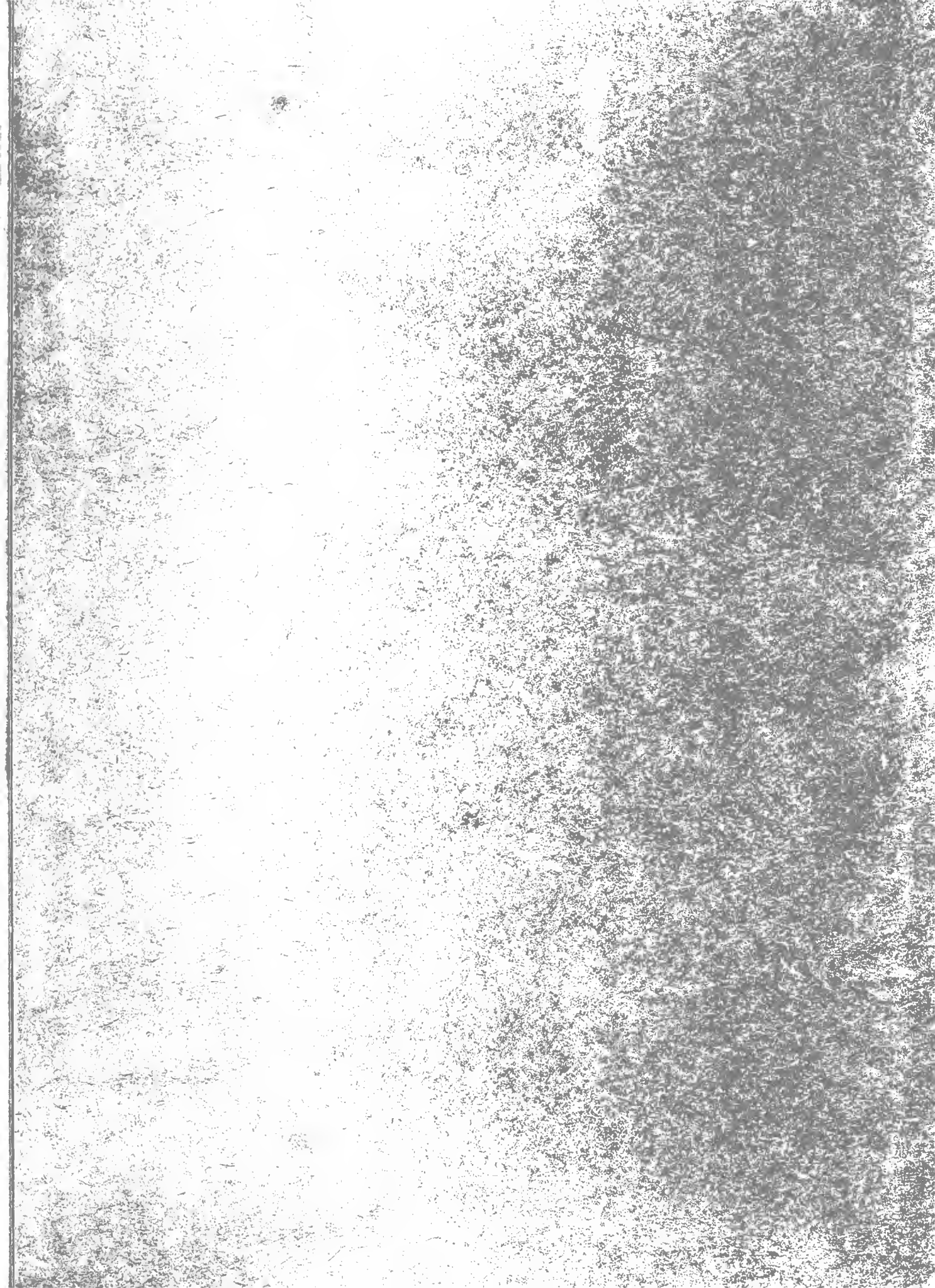
^{1/} Records from Edwards, Richland, and Wayne Counties included for 1930.

^{2/} Records from Richland, Pope, Wayne, Johnson, Williamson, and Franklin Counties included for 1931.

^{3/} Records from Richland, Wayne, Johnson, and Williamson Counties included for 1932.

^{4/} Records from Jefferson, Marion, Jackson, and Clay Counties included for 1933.







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