FARM FINANCIAL RECORD STUDIES

1922-23-24

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ANNUAL FARM BUSINESS REPORTS PREPARED FROM RECORDS KEPT IN THE ILLINOIS FARM FINANCIAL RECORD BOOK FOR 14 AREAS FOR 1924; 10 AREAS FOR 1923; AND 8 AREAS FOR 1922.

Prepared by the Department of Farm Organization and Management of the University of Illinois.

Reports are included for 14 areas in 1924; 10 areas for 1923; and 8 areas for 1922, and are filed in the following order:

For 1924

- 1. Adams, McDonough, and Hancock Counties
- 2. Champaign, Ford and McLean Counties
- 3. Clinton County
- 4. Douglas, Moultrie, Coles and Clark Counties
- 5. Henry, Marshall-Putnam, and Whiteside Counties
- 6. Jo Daviess, Stephenson and Ogle Counties
- 7. LaSalle County
- 8. Macoupin, Jersey and Greene Counties
- 9. Monroe and Randolph Counties
- 10. Saline and Gallatin Counties
- 11. Tazewell, Logan, Macon and McLean Counties
- 12. Wabash, Edwards, Richland and Lawrence Counties
- 13. Woodford County
- 14. Will County



For 1923

- 1. Clinton County
- 2. Ford County
- 3. Gallatin County
- 4. Jersey County
- 5. Jo Daviess County
- 6. Kane County
- 7. McDonough County
- 8. Monroe County
- 9. Wabash County
- 10. Woodford County

For 1922

- 1. Clinton County
- 2. Coles County
- 3. Jo Daviess County
- 4. Kane County
- 5. Lawrence County
- 6. Lee County
- 7. Monroe County
- 8. Woodford County

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STATEMENT CONCERNING ENCLOSED DATA

The year 1922 represents the initial preparation of individual county reports for those counties where the Farm Adviser has cooperated in the Farm Management Extension work. In a number of instances, the reports included too few farms to justify a report excepting as a means of encouraging the county to develop the project.

This same statement would apply to many of the counties for which reports were prepared for the year 1923. However, it will be noted that an increased number of records were completed in the different counties in 1923.

In 1924 the policy was adopted of preparing separate county reports for those counties completing thirty or more records. Counties having a fewer number of completed records were combined with other counties in the same general farming type area, giving a sufficient number of records to justify a separate report in most instances.

The policy followed in preparing the reports for the three years was intended to encourage the cooperating counties to secure sufficient records to give a good volume of data for a separate county report. From an extension point of view, this is highly desirable, as the Farm Adviser is usually quite well acquainted with all the individual farms and it gives him a better opportunity of studying the factors influencing farm earnings and assisting the cooperating farmers in improving the organization and operation of their farms.

H. C. M. Case



ANNUAL FARM BUSINESS REPORT

ADAMS, McDONOUGH, HANCOCK COUNTIES - 1924

Prepared by H.C.M. Case, M.L. Mosher, K. H. Myers*

The 51 farmers in these three counties who kept farm records in 1924 in the book prepared by the Extension Service earned a rate of 5.34% on an average investment of \$43,653 after figuring their own time at about \$600 per year. These farms averaged 202.2 acres in size. The Labor and Management wage which represents what a man has left as pay for his own work and managing ability after paying all expenses and allowing 5 per cent interest on the total investment, amounted to \$723 as an average for all farmers. The value of the food products furnished the home and the use of the dwelling house represent an income in addition to that shown. On 11 farms in Champaign and Piatt counties a careful record was kept of these two items, the value of which amounted to \$726 per farm at farm prices.

A comparison with other farmers in your community will help you to find at what point you can strengthen your farm. The tables on pages 2 and 3 show the average results of the 51 farms in comparison with those of more profitable and less profitable farms. The 17 most profitable farms earned 9.15% on the investment, while the least profitable group made only 1.99%. Expressed as the Labor and Management wage, the better group made an average labor income of \$2330 while the least profitable group lacked \$830 of having anything left to pay the manager for his own labor and management, a difference of \$3160. In comparing the more profitable farms with the least profitable it will be noted that the 17 more profitable farms averaged over 30 acres smaller in size, but had a larger percent of tillable land. This should be considered in comparing the efficiency with which equipment, machinery, and labor is used.

The records show that the more profitable group had much larger crop yields than the least profitable group. The more profitable farms received 30% larger returns for every \$100. invested in all productive livesteck and the same was true for each class of livesteck, with the exception of poultry. They received 57.6% of their income from livesteck compared with 90.0% on the least profitable farms. The more profitable farms then had larger crop yields and better livesteck, and while a smaller percentage of their returns came from livesteck their total income from livesteck was greater. There was little difference in the efficiency with which man labor was used on the two groups. The upper group made the better use of horse labor. The use of man and horse labor should be considered in relation to the method in which livesteck is handled, and the efficiency with which it has handled.

For every \$100. taken in, the 17 most profitable farms had an expense of \$38.38, while the 17 least profitable farms had an expense of \$73.41. This may be due to any one of a large number of items of cost. It may be due to low income as well as to high expenses. Whatever it is due to, low expenses per \$100. income are essential to profitable farming. The more profitable farms received \$17.91 larger gross returns per acre and their expenses were only \$1.38 more per acre than on the 17 least profitable farms, giving as a result the net receipts of \$20.70 per acre as compared with \$4.17 per acre on the 17 least profitable farms.

^{*}R. E. Miller, R. C. Doneghue, and J.H. Lloyd, farm advisers in Adams, McDonough, and Hancock Counties, respectively, cooperated in supervising and collecting the records used in this report.

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A detailed statement of the farm earnings is given on page 3, while on page 4 you will find a chart on which you may plot the results from your own farm which will show at what points your farm showed strength or weakness.

Adams, McDonough, Hancock Counties

Factors helping to analyze the farm business	Your farm	Avorage of 51 farms	17 most profitable farms	17 least profitable farms
Rate Earned Labor & Management Wage	\$	5.34% \$723.	9.15 2330.	1.99 -830
Size of Farm - Acres Crop Yields - Corn - Bushels Oats - Bushels Wheat - Bushels Percent of land area Tillable Percent of tillable land in legumes	90.	202.2 41.2 42.4 24.9 90.1% 9.7%.	185.9 47.3 47.0 22.9 95.6 7.7	218.0 32.2 37.6 19.3 84.4 10.5
Returns per \$100. invested in all productive livestock	\$	\$1 4 0.85	164.30	123.40
For \$100 in - Cattle - Swine - Poultry	\$ \$ \$ \$	\$ 92.90 \$179.04 \$170.00	109.15 216.00 174.55	84.40 152.70 171.10
Percent of gross Income from Livestock	5%	69.4%	57.6	90.0
Man Labor Cost por Acre Crop Acres per Man Crop Acres per Horse	Ş	\$ 5.90 74.6 23.2 18.5	6.10 76.5 21.8 20.3	5.76 76.1 18.2 13.9
Expense per \$100. gross Income Machinery Cost per Acre Building & Fencing cost per Acre	८३ ४० ४०	\$ 51.30 \$ 2.04 \$ 1.12	38.38 2.55 1.02	73.41 1.66 1.13
Gross Receipts per Acre Total Expenses per Acre Net Receipts per Acre	\$	\$ 23,66 \$ 12.14 \$ 11.52	33.59 12.69 20.70	15.68 11.51 4.17

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	Your	Average	17 most	17 least
		of 51	profitablo	profitable
	farm	farms	farms	farms
1. Capital Investment - Total	Ś	<u>\$43653</u>	\$42061	\$45779
2. Land	\$ \$ \$ \$ \$ \$ \$ \$	33442	32492	35308
3. Farm Improvements	\$	3850	3300	4099
4. Machinery and Equipment	Ş	1417	1558	1352
5. Feed and Supplies	Ş	2179	2260	1859
6. Livestock	Ş	2765	2451	3161
7. Horses	\$	573	618	587
8. Cattle	\$ \$ \$ \$ \$ \$ \$	957	708	1198
9. Sheep	\$	58	87	46
10. Swine	\$	1034	907	1173
ll. Poultry	\$	1 43	131	157
12. Receipts - Not Increases - Tot.	al §	\$ 4784	\$6245	\$3419
13. Feed and Grain	18	1342	2437	291
14. Labor off Farm	\$	65	123	2
15. Miscellaneous	C+ C+ C+ C+ C+	58	89	49
16. Livestock - Total	\$	3319	3596	3077
17. Horses	\$	-		
18. Cattle	0000000	693	751	737
19. Sheep	\$	79	175	22
20. Swine	\$	2139	2292	1923
21. Poultry	\$	106	118	95
22. Egg Sales	§	132	116	161
23. Dairy Sales	\$	170	144	139
24. Expenses - Net Decreases - Total		\$ 1668	\$1630	\$1720
25. Farm Improvements	\$	227	190	246
26. Livestock	Ş	24	22	32
27. Horses	\$	24	22	32
28. Cattle	Ş			
29. Sheep	\$			
30. Swine	00000000			
31. Poultry	¥	43.0	457.5	263
32. Machinery and Equipment	\$	413	475	361
33. Feed and Supplies 34. Livestock Expense other than		65	58	60
34. Livestock Expense other than 35. Crop Expenses	1660	159	153	164
36. Labor hired	Ş	408	367	465
37. Taxes, Insurance, etc.	è	332	343	350
38. Miscellaneous	0	40	22	42
	T .			
39. Receipts less Expenses	<u>\$</u>	\$3116	\$4615	\$ <u>1699</u>
40. Operator's and Unpaid Family La	abor	786	767	790
41. Net Income from Investment	Ş	2330	38 48	909
42. Farms with Tractor - Percent	70	53.9	50.0	52.9
43. Value of land per Acre		165	175	162
44. Total Investment per Acre	\$	216	226	210
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Find Your Farm Leaks - (Adams, McDonough, Hancock vounties - 1364)

The numbers just above the line across the middle of the page are approximately the average for your county 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 community.

Size	4-4	377	352	327	302	277	252	227	202	177	152	127	102	22	52	27	CS
Gross Recep.	per Acre	45	숙	9.0	36	33	30	27	८ ३ भ	21	13	15	12	o,	ý	m	0
Expense	Incomo	97	21	26	31	36	댞	46	51	56	61	99	7.1	76	81	86	91
Der	o Trac	26	10 10	22.4	23	22	21	20	19	18	1.7	16	15	14	13	12	11
Acres	Tractor	37	35	33	33	23	27	23	23	21	19	17	15	13	11	6	7
Grops	77	110	105	100	9	0	ω ω	80	75	70	65	09	55	20	45	40	35
Man Lab	Acre	2,50	3.00	3,50	4,00	4,50	5.00	5,50	00°9	ö.50	7.00	7.50	8.00	8.50	00.6	9.50	10.00
Percent	ď	26	88	ტ დ	80	81	77	73	69	65	61	57	53	49	45	4	37
r \$100	ltry	310	290	270	250	230	210	190	170	150	130	110	06	02	20	30	10
Roturns per		319	200	279	259	239	219	661	179	159	139	119	66	62	59	39	19
Roti	Cattle	163	153	143	133	123	113	103	93	83	73	63	53	43	33	23	13
	Wheat	39	37	35	 	31	29	27	25	23	21	19	17	15	13	11	O)
Bushels per	Oats	70	99	62	58	40	50	94	42	38	3.4	30	36	22	18	7,	10
Bus	Sorn	62	23	56	53	20	47	44	다	38	35	32	29	56	23	20	17
Rate	Earnod	12,50	11,50	10,50	9.50	8,50	7.50	6.50	5.50	4.50	3,50	2,50	1.50	0,50	-0.50	-1.50	-2.50

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HOW TO STUDY YOUR FARM ACCORD

We shall endeavor in the following discussion to point out the importance of certain factors in their influence on the farm profits. Cost of production data will frequently be referred to. The cost of producing farm products has been studied during the past twelve years in different parts of Illinois. Thile your record does not permit determining the cost of producing separate products on your farm, the information from your farm does enable you to learn whether the different parts of your business correspond favorably with other farms in your community. A study of a group of farm records from any community always improcess one with the fact that each farmer can profit at some point from studing the results obtained by his more efficient farmer neighbors.

Different factors which we wish to call to your attention include the following:

- 1. Total Farm Enrips. These are shown first in terms of the rate earned on the total farm investment, and second, in terms of the Labor and Management wage. However, in studying the form earnings you will be interested in noting the last three items on page 2 which show the wide differences between the one-third most profitable and the one-third least profitable forms in the gross receipts and the total expenses per acre, and in the resulting difference in the net receipts per acre. These wide differences in farm earnings call for an analysis of a number of different factors which affect the farm earnings. These factors are included in the following discussion in which we endeavor to point out why these different factors are of special importance.
- 2. Crop Yields. Cood crop yields are one essential requirement for good incomes. Cost of production studies on 18 farms in one community showed that the cost of producing a bushel of corn varied from 39¢ or one farm to 79¢ per bushel on another farm for the same year. Similar lifferences occurred on other crops. A large part of the difference in cost is due to the difference in yield per acre. It is not uncommon to find a difference of 25% a bushel in the cost of producing corn which can be attributed directly to the difference in the yield per acre since most items of cost do not increase as the yield increases. When crop yields are low one can well afford to study the practices of men who secure higher yields. In order to determine what is responsible for those differences attention should be given to the rotation of crops, quality and variety of seed, use of legumes and manure, use of limestone and phosphate where reeded, preparation of seed bed, cultivation, protection from disease and insects, and drainage.
- 3. Returns from Livestock. One of the best measures of the efficiency of livestock, in these records, is the returns per \$100.00 invested. The returns per \$100.00 worth of feed fed any class of livestock, however, gives you more reliable information as to whether the efficiency of that class of livestock may be improved. You are urged, therefore, to keep the feed record on pages 38 and 39 of the farm account book, at least for the livestock from which you receive considerable income. As evidence of the wide variation in livestock efficiency on farms, cost accounts secured on 18 farms in the same community showed a range in the cost of feed in producing pork of \$4.18 to \$8.81 per 100 pounds gain in weight for the same year.

The per cent. of total receipts from livestock enables one to know how large a factor livestock is in determining the farm income. On some farms where livestock represented a considerable part of the income in 1920 the earlings were reduced due to the abnormal price situation. As compared with the five-year everage of farm prices from 1909 to 1914 the prices of meat animals in 1924 were only 9% higher that for the five-year period, while the prices of grains were 29% and the prices of daily products and eggs were 37% higher. This means that farms which were heavy producers.



of meat animals in 1924 did not fare so well as they might expect to do on an average of a number of years when compared with either grain or dairy forms. In spite of this fact the larger proportion of livestock returns on the better forms indicate that good livestock properly handled paid even under the adverse price situation.

Success with livestock, as with crop production, depends upon a number of factors among which the following should be noted: Raising a large per cent. of young animals, sanitation, prevention of disease, ability in buying and selling livestock, keeping animals of good quality, good feeding practices - especially the growing of sufficient legume forage to supply most of the protein requirements, careful purchasing of additional protein and mineral supplements when needed, and the economical use of roughage which is available on all farms.

Some men are more successful than others in handling livestock. It is not recommended that anyone quickly change his practice and suddenly go into extensive feeding or breeding operations. It is better to work gradually into the livestock business, building up either breeding or feeding operations as he finds that livestock is filling a place in his system of farming.

4. <u>Use of Man and Horse Lobor</u>. One of the best measures of the use of labor is the number of crop acres worked per man or per horse when the farms are of the same general type. When the cost of man labor and horse labor are noted it emphasizes at once the importance of watching these items of expense and arranging the organization of the form to make efficient use of labor.

Cost accounting data secured on 18 farms in the same community for the same year show that the net cost of keeping a work horse ranged from \$63.76 to \$124.15; or an average of \$93.05 per horse. When it is considered that a horse usually works about 20 acres of crops when a tractor is not employed, it means that horse labor costs will range from \$3.50 to over \$6.00 per acre on different farms. This wide range in the cost of horse labor is dependent not only on the number of acres handled with one horse, but also upon the economy with which the horse is fet and whether or not other items of empense are kept at a low figure. The careful planning of a rotation of crops is probably one of the best ways to reduce both man and horse labor costs. A rotation should be chosen so that as uniform an amount of man and horse labor is required from early spring until late fall as possible. Frequently the size of certain enterprises within the farm business may be adjusted to utilize the available family labor to advantage. Feeding down crops and keeping enough livestock to utilize labor during the seasons when farm work is light are other definite means of increasing the efficiency with which labor is used. Repeated study of farm records over the state indicate that occasionally a man may reduce the amount of both man labor and horse labor to a point where lower profits are secured from both crop and livestock enterprises because of a lack of well directed labor. It is usually found, however, that the more profitable farms not only secure larger yields per acre, but they handle a larger acreage per worker or per horse.

5. Expense per \$100. Gross Income. This is a measure of thrift in all parts of the farm business. It does not misrepresent a farm which has a large expense if the income is correspondingly high. However, it is a well-known principle in all business organization that empenses must be kept low in proportion to income if the business is to prove profitable. Cost accounts kept on 18 farms in the same community showed that the annual building empense per acre varied from \$1.42 to \$6.63 per acre; the annual expense for fences varied from \$.32 to \$2.36 per acre; and machinery and equipment expenses varied from \$.83 per acre to \$2.46. These data show how much more efficient some farmers are than others in keeping expenses low.

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Farmers who are most successful in keeping expenses low in proportion to the income plan their work so as to make the labor of themselves and members of the family as productive as possible. Enterprises are included in the farm business that utilize available labor at all seasons of the year. While they secure good varieties of seed, in so far as possible, they raise and prepare their own seed. Rainy days and off seasons are used to repair buildings, fences, machinery, and harness. This prolongs the life of equipment, saves in the purchase of new equipment and also saves paying out money for highly paid skilled labor. By having equipment in shape they also save the expense incident to delay in the busy season caused by broken machinery or fences, which might have been prevented by timely repair.

6. Size of Farm. In most types of farming there is a limit to the amount of product which can be profitably secured per acre. When one finds his form is smaller than the more profitable farms in his locality and his income is low even though he has good crop yields and good returns from livestock, a weakness is frequently found in the small size of farm. This situation may be remedied by buying or renting additional land or changing the type of farming to a more highly intensive or specialized type which will bring a larger volume of production. It must be recognized, however, that some men have more ability than others in handling a large sized business. Some men may find their farm is considerably larger than the best paying farms, but the income is low because of too large an area handled from one point. Some farmers may find that they can secure a larger net profit by renting out some land and doing more efficient work on a smaller acreage. It is a wellknown principle of farm management that a farm must be large enough to utilize capital in the form of buildings, machinery and other equipment, and labor in an economical way. Just how large the farm should be, however, is a question which depends upon the ability of the operator himself as a manager.

Balanced Farming Pays.

Each of the factors previously discussed plays a part in determining farm profits. Full success in farming requires that all parts of the farmer's business be given attention. One may have good crop yields and make good use of livestock, but receive a small net income because of inefficient use of labor. Or one may work a large acreage per man and per horse, but fail because of low crop yields or poor returns from livestock. A well balanced farm with a fair degree of efficiency along all lines brings the operator returns which will enable him to maintain a good standard of living for his family.

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ANNUAL FARM BUSINESS REPORT CHAMPAIGN, FORD, AND McLEAN* COUNTIES - 1924

Prepared by H.C.M.Casc, M.L.Mosher, K.H.Myers**

The 52 farmers in the three counties who kept farm records in 1924 in the book prepared by the Extension Service earned a rate of 7.43% on an average investment of \$54,118 after figuring their own time at \$600 per year. These farms averaged 223.3 acres in size. The Labor and Management wage which represents what a man has left as pay for his own work and managing ability after paying all expenses and allowing 5 per cent. interest on the total investment, amounted to \$1868 as an average for all farmers. The value of the food products furnished the home and the use of the dwelling house represent an income in addition to that shown. On 11 farms in Champaign and Piatt counties a careful record was kept of these two items, the value of which amounted to \$726 per farm at farm prices.

A comparison with other farmers in your community will help you to find at what point you can strengthen your farm. The tables on pages 2 and 3 show the average results of the 52 farms in comparison with those of more profitable and less profitable farms. The 17 most profitable farms carned 10.41% on the investment, while the least profitable group made 4.34%. Expressed as the Labor and Management wage, the better group made an average labor income of \$3808. while the least profitable group had only \$164 left to pay the manager for his own labor and management, a difference of \$3644. In comparing the more profitable farms with the least profitable it will be noted that the 17 more profitable farms averaged over 40 acres larger in size, making it possible to use equipment, machinery, and labor to greater advantage.

The records show that the more profitable group had larger crop yields than the least profitable group. Both groups had considerable land in legume crops. The more profitable farms received over 30% larger returns for every \$100.00 invested in productive livestock and the same was true for each class of livestock. They received only 23.8% of their income from livestock compared with 38.4% on the least profitable farms. The more profitable farms then had larger crop yields and better livestock, and while the more profitable farms received a smaller percentage of their return from livestock the total income from livestock was greater on those farms. The livestock returns, however, should be interpreted in the light of the discussion on page 5. They also handled about 12.5 acres more crops with each man and 4.5 acres more crops with each horse where tractors were used, than did the least profitable group, a factor which was responsible for a slightly lower labor cost per acre.

For every \$100.00 taken in, the 17 most profitable farms had an expense of \$30.41 while the 17 least profitable farms had an expense of \$52.04. This may be due to any one of a large number of items of cost, but as shown, the more profitable farms kept the machinery expense, and building and fencing expenses, as well as other operating expenses, at a lower figure per acre. This may be due in part to the size of the farms, but low expenses in relation to income is essential to profitable farming. The more profitable farms received \$11.41 larger gross returns per acre and their expenses were \$1.65 less per acre than on the 17 least profitable farms, giving as a result the net receipts of \$24.43 per acre as compared with only \$11.37 per acre on the 17 least profitable farms.

^{*} Records in the east part of McLean county only, were used in this report.

^{**} C. C. Burns, G. T. Swaim, and H. Fahrnkopf, farm advisers in Champaign, Ford and McLean counties respectively, cooperated in supervising and collecting the records used in this report.

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A detailed statement of the farm earnings is given on page 3, while on page 4 you will find a chart on which you may plot the results from your own farm which will show at what points your farm showed strength or weakness.

CHAMPAIGN, FORD, AND McLEAN COUNTIES

Factors helping to analyze the farm business	Your farm		Average of 52 farms.	17 most profitable farms.	17 least profitable farms.
Rate Earned Labor & Management Wage	\$	60	7.43% 1868.00	10,41% 3808.00	4.34% 164.00
Size of Farm - Acres Crop Yields - Corn - Bushels Oats - Bushels Wheat - Bushels Percent of land area Tillable Percent of tillable land in legumes		50.80	223.3 40.7 49.0 18.7 95.0 16.0	255.3 44.7 51.1 20.0 94.7 12.3	214.1 38.2 48.5 18.0 95.3 16.7
Returns per \$100. invested in all productive livestock	\$		118.45	133.10	99.00
For \$100. in - Cattle - Swine - Poultry	\$ \$ \$		86.75 154.85 148.60	112.20 183.40 169.00	47.70 136.10 141.60
Percent of gross Income from Livestoc	k K	00	28.5	23.8	38,4
Man Labor Cost per Acre Crop Acres per Man Crop Acres per Horse(With tractor) (Without tractor) Expense per \$100. gross income Machinery Cost per Acre Building & Fencing cost per Acre	\$ \$\$ \$\$		4.99 107.1 28.2 19.9 35.82 1.76 1.15	4.74 114.1 29.6 19.6 30.41 1.63	5.03 101.4 25.1 19.7 52.04 1.91 1.69
Gross Reccipts per Acre Total Expenses per Acre Net Receipts per Acre	€) (A (A)		29.44 11.43 15.01	35.11 10.68 24.43	23.70 12.33 11.37

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		Your farm	Average of 52 farms	17 most profitable farms	17 least profitable farms
1. 2. 3. 4. 5. 6.	Capital investment - Total Land Farm Improvements Machinery and Equipment Feed and Supplies Livestock	\$ \$ \$ \$ \$ \$ \$	54118 44303 3571 1397 2637 2210	59920 49354 3706 1463 3163 2234	56089 45287 4354 1375 2323 2750
7. 8. 9. 10.	Horses Cattle Sheep Swine Poultry	***	713 675 123 548 151	738 736 200 403 157	829 836 62 868 155
12. 13. 14. 15. 16.	Receipts - Net Increases - Total Feed and Grain Labor off Farm Miscellaneous Livestock - Total	\$ \$ \$	6576 4620 66 17 1873	8964 6719 100 12 2133	507.5 307.1 30 23 1951
17. 18. 19. 20. 21. 22. 23,	Horses Cattle Sheep Swine Poultry Egg Sales Dairy Sales	0000000	358 123 886 118 115 268	3 660 77 771 171 122 329	159 64 1300 66 140 222
24. 25. 26.	Expenses - Net Decreases - Total Farm Improvements Livestock	\$ \$	1889 256 26	1959 242	2028 362 28
27· 28. 29· 30.	Horses Cattle Sheep Swine	\$ \$ \$ \$ \$ \$ \$ \$	26		28
31. 32. 33. 34. 35. 36. 37.	Poultry Machinery and Equipment Feed and Supplies Livestock Expense other than f Crop Expense Labor Hired Taxes, Insurance, etc. Miscellaneous	1\$	393 38 230 451 465 30	415 38 270 442 520 32	408 41 198 466 501 24
39. 40.	Receipts Less Expenses Operators & Unpaid Family Labor Net Income from Investment	(9-4)-()-	<u>4687</u> 664 4023	7005 767 6238	3047 613 2434
42. 43. 44.	Farms with Tractor - Percent Value of land per Acre Total Investment per Acre	\$? \$\$	67.3% 198. 242.	88.2% 193. 235.	58.8% 212. 262.

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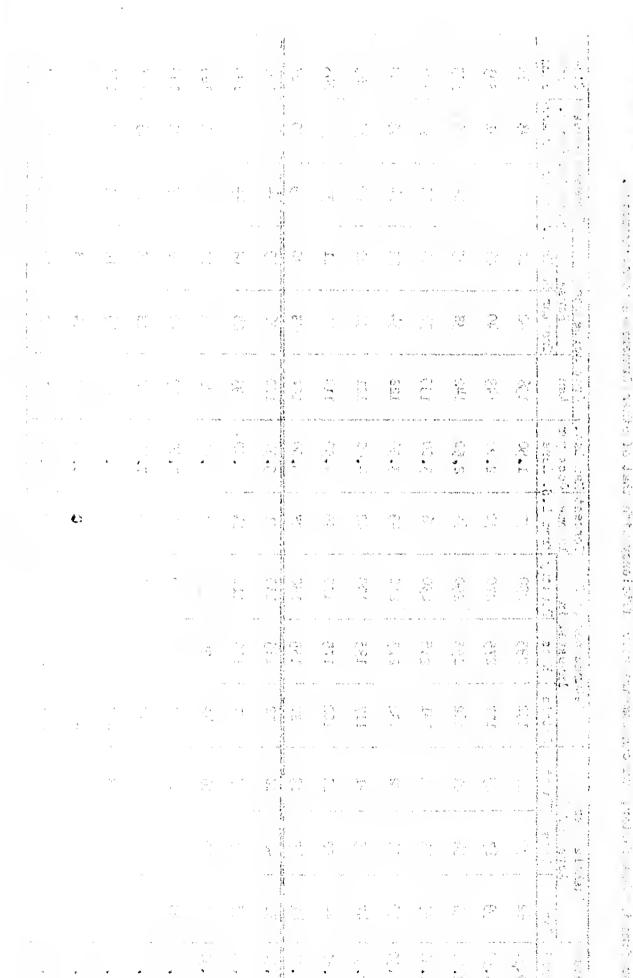
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Find Your Farm Leaks - (Champaign, Ford, and McLean Counties - 1924)

the factors named at the top of the page. By drawing a line across each column at the number measuring the efficiency of The numbers just above the line across the middle of the page are approximately the average for your county for your farm in that factor, you can compare your efficiency with that of other farmers in your community.

															- 4	-	
Size	of Farm	363	343	323	303	283	263	243	223	203	183	163	143	123	103	83	63
	Recep.	43	41	39	37	35	33	31	29	27	25	23	21	19	17	15	13
Expense	per \$100 Income	4	0	14	19	5/1	59	34	39	††	64	574	59	49	69	47	62
	o Trac.	27	56	25	ħ2	23	22	21	50	19	18	17	16	15	17	13	12
Acres per	Horse Tractor N	745	040	38	36	34	32	30	28	56	77	22	50	18	16	14	12
a	Man	156	149	142	135	128	121	114	107	100	93	98	4	72	65	58	51
Man Lab.	Cost per	1.50	2.8	2,50	3.00	3.50	ρ°1γ	4.50	2.00	5.50	00-9	6.50	7.00	7.50	8,00	8.50	00°6
Percent 1	Income from L.S	11	100	63	56	64	742	35	28	21	14		0	0	0	O	0
00	in Poultry	290	270	250	230	210	190	170	150	130	110	90	02	50	30	20	0
per	Invested	295	275	255	235	215	195	175	155	135	115	95	75	55	35	15	- 5
Returns	Cattle	192	177	162	141	132	117	102	28	72	25	715	27	12	- 3	-18	-33
<u>.</u>	Wheat	92	25	72	23	22	21	50	19	18	17	16	15	17.1	13	12	11
	Acre of Oats	02	29	ή9	61	58	55	52	64	94	43	710	37	34	31	28	25
Busi	Corn	62	59	26	53	50	L t1	†\†	ľή	38	35	32	29	56	23	20	17
Rate	Earned	14.50	13.50	12.50	11.50	10.50	9.50	8.50	7.50	6.50	5.50	4.50	3.50	2.50	1.50	0.50	-0.50



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HOW TO STUDY YOUR FARM RECORD

We shall endeaver in the following discussion to point out the importance of certain factors in their influence on the farm profits. Cost of production data will frequently be referred to. The cost of producing farm products has been studied during the past twelve years in different parts of Illinois. While your record does not permit determining the cost of producing separate products on your farm, the information from your farm does enable you to learn whether the different parts of your business correspond favorably with other farms in your community. A study of a group of farm records from any community always impresses one with the fact that each farmer can profit at some point from studying the results obtained by his more efficient farmer neighbors.

Different factors which we wish to call to your attention include the following:

- 1. Total Farm Earnings. These are shown first in terms of the rate carned on the total farm investment, and second, in terms of the Labor and Management wage. However, in studying the farm carnings you will be interested in noting the last three items on page 2 which show the wide differences between the one-third most profitable and the one-third least profitable forms in the gross receipts and the total expenses per acre, and in the resulting difference in the net receipts per acre. These wide differences in farm carnings call for an analysis of a number of different factors which affect the farm earnings. These factors are included in the following discussion in which we endeavor to point out why these different factors are of special importance.
- 2. Crop Yields. Good crop yields are one essential requirement for good incomes. Cost of production studies on 18 farms in one community showed that the cost of producing a bushel of corn varied from 39ϕ on one farm to 79ϕ per bushel on another farm for the same year. Similar differences occurred on other crops. A large part of the difference in cost is due to the difference in yield per acre. It is not uncommon to find a difference of 25ϕ a bushel in the cost of producing corn which can be attributed directly to the difference in the yield per acre since most items of cost do not increase as the yield increases. When crop yields are low one can well afford to study the practices of men who secure higher yields. In order to determine what is responsible for those differences attention should be given to the rotation of crops, quality and variety of seed, use of legumes and manure, use of limestone and phosphate where needed, preparation of seed bed, cultivation, protection from disease and insects, and drainage.
- 3. Returns from Livestock. One of the best measures of the efficiency of livestock, in these records, is the returns per \$100.00 invested. The returns per \$100.00 worth of feed fed any class of livestock, however, gives you more reliable information as to whether the efficiency of that class of livestock may be improved. You are urged, therefore, to keep the feed record on pages 38 and 39 of the farm account book, at least for the livestock from which you receive considerable income. As evidence of the wide variation in livestock efficiency on farms, cost accounts secured on 18 farms in the same community showed a range in the cost of feed in producing pork of \$4.18 to \$8.81 per 100 pounds gain in weight for the same year.

The per cent. of total receipts from livestock enables one to know how large a factor livestock is in determining the farm income. On some farms where livestock represented a considerable part of the income in 1924 the earnings were reduced due to the abnormal price situation. As compared with the five-year average of farm prices from 1909 to 1914 the prices of meat animals in 1924 were only 9% higher than for the five-year period, while the prices of grains were 29% and the prices of dairy products and eggs were 37% higher. This means that farms which were heavy producers



of meat animals in 1924 did not fare so well as they might expect to do on an average of a number of years when compared with either grain or dairy farms. In spite of this fact the larger proportion of livestock returns on the better farms indicate that good livestock properly handled paid even under the adverse price situation.

Success with livestock, as with crop production, depends upon a number of factors among which the following should be noted: Raising a large per cent. of young animals, sanitation, prevention of disease, ability in buying and selling livestock, keeping animals of good quality, good feeding practices - especially the growing of sufficient legume forage to supply most of the protein requirements, careful purchasing of additional protein and mineral supplements when needed, and the economical use of roughage which is available on all farms.

Some men are more successful than others in handling livestock. It is not recommended that anyone quickly change his practice and suddenly go into extensive feeding or breeding operations. It is better to work gradually into the livestock business, building up either breeding or feeding operations as he finds that livestock is filling a place in his system of farming.

4. Use of Man and Horse Labor. One of the best measures of the use of labor is the number of crop acres worked per man or per horse when the farms are of the same general type. When the cost of man labor and horse labor are noted it emphasizes at once the importance of watching these items of expense and arranging the organization of the farm to make efficient use of labor.

Cost accounting data secured on 18 farms in the same community for the same year show that the net cost of keeping a work horse ranged from \$63.76 to \$124.15; or an average of \$93.08 per horse. When it is considered that a horse usually works about 20 acres of crops when a tractor is not employed, it means that horse labor costs will range from \$3.50 to over \$6.00 per acre on different farms. This wide range in the cost of horse labor is dependent not only on the number of acres handled with one horse, but also upon the economy with which the horse is fed and whether or not other items of expense are kept at a low figure. The careful planning of a rotation of crops is probably one of the best ways to reduce both man and horse labor costs. A rotation should be chosen so that as uniform an amount of man and horse labor is required from early spring until late fall as possible. Frequently the size of certain enterprises within the farm business may be adjusted ' to utilize the available family labor to advantage. Feeding down crops and keeping enough livestock to utilize labor during the seasons when farm work is light are other definite means of increasing the efficiency with which labor is used. Repeated study of farm records over the state indicate that occasionally a man may reduce the amount of both man labor and horse labor to a point where lower profits are secured from both crop and livestock enterprises because of a lack of well directed labor. It is usually found, however, that the more profitable farms not only secure larger yields per acre, but they handle a larger acreage per worker or per horse.

5. Expense per \$100. Gross Income. This is a measure of thrift in all parts of the farm business. It does not misrepresent a farm which has a large expense if the income is correspondingly high. However, it is a well-known principle in all business organization that expenses must be kept low in proportion to income if the business is to prove profitable. Cost accounts kept on 18 farms in the same community showed that the annual building expense per acre varied from \$1.42 to \$6.63 per acre; the annual expense for fences varied from \$.32 to \$2.36 per acre; and machinery and equipment expenses varied from \$.83 per acre to \$2.46. These data show how much more efficient some farmers are than others in keeping expenses low.

A control of the contro

Farmers who are most successful in keeping expenses low in proportion to the income plan their work so as to make the labor of themselves and members of the family as productive as possible. Enterprises are included in the farm business that utilize available labor at all seasons of the year. While they secure good varieties of seed, in so far as possible, they raise and prepare their own seed. Rainy days and off seasons are used to repair buildings, fences, machinery, and harness. This prolongs the life of equipment, saves in the purchase of new equipment and also saves paying out money for highly paid skilled labor. By having equipment in shape they also save the expense incident to delay in the busy season caused by broken machinery or fences, which might have been prevented by timely repair.

6. Size of Farm. In most types of farming there is a limit to the amount of product which can be profitably secured per acre. When one finds his form is smaller than the more profitable farms in his locality and his income is low even though he has good crop yields and good returns from livestock, a weakness is frequently found in the small size of farm. This situation may be remedied by buying or renting additional land or changing the type of farming to a more highly intensive or specialized type which will bring a larger volume of production. It must be recognized, however, that some men have more ability than others in handling a large sized business. Some men may find their farm is considerably larger than the best paying farms, but the income is low because of too large an area handled from one point. Some farmers may find that they can secure a larger net profit by renting out some land and doing more efficient work on a smaller acreage. It is a wellknown principle of farm management that a farm must be large enough to utilize capital in the form of buildings, machinery and other equipment, and labor in an economical wav. Just how large the farm should be, however, is a question which depends upon the ability of the operator himself as a manager.

Balanced Farming Pays

Each of the factors previously discussed plays a part in determining farm profits. Full success in farming requires that all parts of the farmer's business be given attention. One may have good crop yields and make good use of livestock, but receive a small net income because of inefficient use of labor. Or one may work a large acreage per man and per horse, but fail because of low crop yields or poor returns from livestock. A well balanced farm with a fair degree of efficiency along all lines brings the operator returns which will enable him to maintain a good standard of living for his family.

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ANNUAL FARM BUSINESS REPORT

CLINTON COUNTY - 1924.

Prepared by H.C.M. Case, M.L. Mosher, K.H. Myers*

The 53 farmers in your county who kept farm records in 1924 in the book prepared by the Extension Service earned a rate of 4.73% on an average investment of \$17,212 after figuring their own time at about \$500 per year. These farms averaged 164 acres in size. The Labor and Management wage which represents what a man has left as pay for his own work and managing ability after paying all expenses and allowing 5 per cent interest on the total investment, amounted to \$448 as an average for all farmers. The value of the food products furnished the home and the use of the dwelling house represent an income in addition to that shown. On 11 farms in Champaign and Piatt counties a careful record was kept of these two items, the value of which amounted to \$726. per farm at farm prices.

A comparison with other farmers in your community will help you to find at what point you can strengthen your farm. The tables on pages 2 and 3 show the average results of the 50 farms in comparison with those of more profitable and less profitable farms. The 19 most profitable farms earned 9.16% on the investment, while the least profitable group lacked 0.19% of breaking even. Expressed as the Labor and Management wage, the better group made an average labor income of \$1243. While the least profitable group lacked \$302 of having anything left to pay the manager for his own labor and management, a difference of \$1545. In comparing the more profitable farms with the least profitable it will be noted that both groups of farms were the same size and both had about the same percent of tillable land.

As shown on page 2, the more profitable group received larger crop yields than did the least profitable group. Both groups of farms had considerable land in legume crops. The upper group roceived a 20% larger return for each \$100 invested in productive livestock, and in each class of livestock, but their livestock represented only 68.2% of the total gross income compared to 03.6% on the lower group. However, the better farms had much larger incomes from the farm as a whole and from livestock. The more profitable farms then had larger crop yields, better livestock, and a larger total income from livestock. Generally the more strictly grain farms with livestock well handled paid botter in 1924 than the more strictly livestock farms. This is an abnormal condition, however, and no interpretation should be given without reading the explanation of prices given on page 5. There was no difference in the efficiency with which man and horse labor was used. The upper group had a higher man labor cost per acre. This should be considered in relation to the amount of livestock and the returns secured from livestock. The upper group received twice as much income from livestock. The larger amount of livestock demands more labor, increasing the cost per acre.

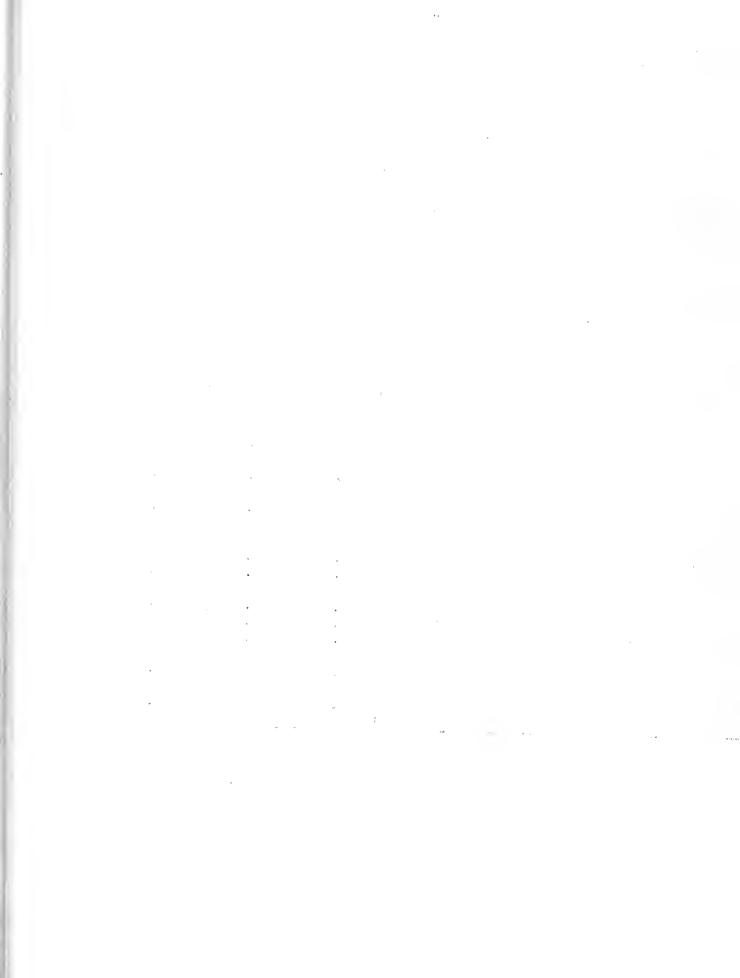
For every \$100 taken in, the 19 most profitable farms had an expense of \$55.30, while the 19 least profitable farms had an expense of \$101.70. This may be due to any one of the large number of factors. It may be due to low income as well as to high expenses. Whatever it be due to, low expenses per \$100 income is essential to profitable farming. The more profitable farms received \$11.48 larger gross returns per acre and their expenses were only \$1.55 per acre more than on the 19 least profitable farms, giving as a result the net receipts of \$9.75 per acre as compared with a loss of \$.18 per acre on the 19 least profitable farms.

^{*}C. H. Rehling, farm adviser in Clinton County, cooperated in supervising and collecting the records used in this report.

A detailed statement of the fam. earnings is liven on page 3, while on page 4 you will find a chart on which you may plot the results from your own farm which will show at what points your farm showed strongth or weakness.

Clinton Jounty

Factors helping to analyzo the farm business	Your farm	Average of 50 farms	19 most profitable farms	19 least profitable farms
Rato Earned Labor & Management Wage	\$	4.73 443.	9.16 1243.	- 0.19 -302.
Size of Farm - Acres Crop Yields - Corn - Bushels Oats - Bushels Wheat - Bushels Percent of land area Tillable Percent of tillable land in legumes	7.0 7.0 7.0	164.0 26.7 30.1 8.1 01.5 14.3	164.8 30.2 33.5 11.4 02.4 13.4	164.3 21.3 23.2 5.9 30.7 16.2
Returns per \$100. invosted in all productive livestock	Ş	154.45	172.95	141.35
For \$100. in - Cattle - Swine - Poultry	() a) a()	146.10 121.20 202.10	163.30 157.90 223.75	131.90 105.00 193.10
Percent of gross Income from Livestock	70	73.0	68.2	33.6
Man Labor Cost per Acre Crop Acres per Man Crop Acres per Horse	Ş	6.10 64.9 21.2	6.65 65.4 21.2	5.84 65.1 21.9
Expense per \$100. gross Income Machinery Cost per Acre Building & Fencing cost per Acre	\$000	68.74 1.44 1.22	55.30 1.64 1.39	101.70 1.33 1.23
Gross Receipts per Acro Total Expenses per Acro Net Receipts per Acro	क क क	15.07 10.91 4.96	21.31 12.06 9.75	10.33 10.51 13



Clinton County

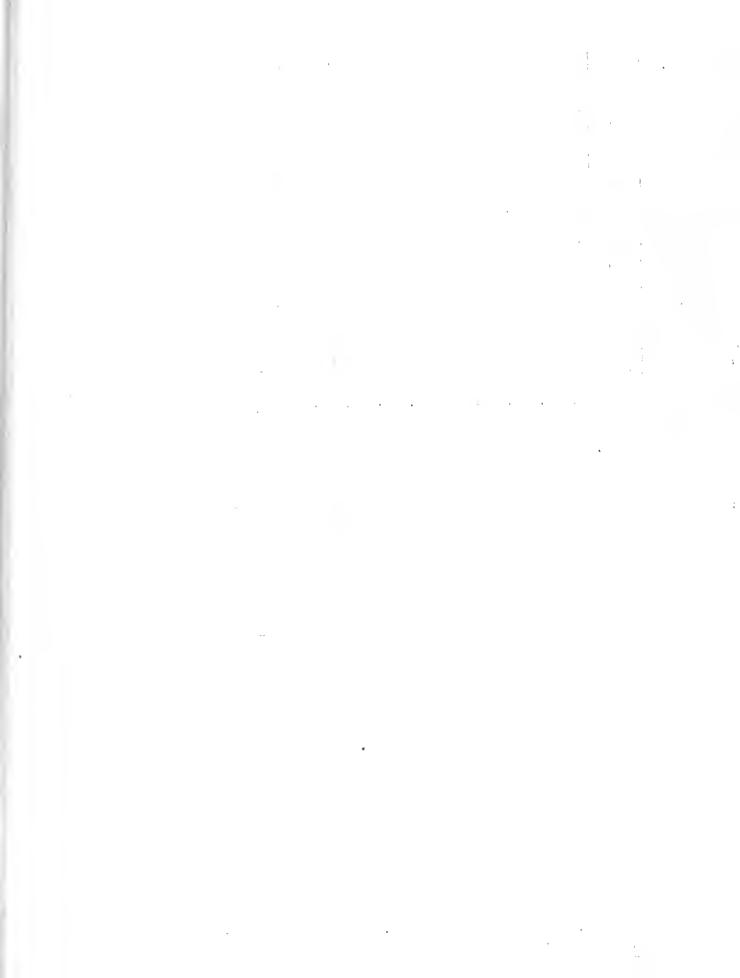
	Your	.vorage	19 most	19 least
		of 58	profitable	profitable
	farm	farns	farns	farms
1. Capital Investment - Total 2. Land 3. Farm Improvements 4. Machinery and Equipment 5. Feed and Supplies 6. Livestock	\$ \$ \$ \$ \$ \$ \$ \$ \$	17312 10563 2022 1090 1069 1655	17506 10:109 3124 1026 1105 1842	15200 9518 2393 991 894 1404
7. Horses 8. Cattle 9. Sheop 10. Swine 11. Poultry	\$ \$P\$\$ \$P\$\$	449 316 10 120 260	491 962 15 97 277	377 643 10 155 219
12. Recoipts - Net Increases - Total 13. Feed and Grain 14. Labor off Farm 15. Miscellaneous 16. Livestock - Total	21 0 0 3 3 7	2304 509 100 14 1901	3595 960 170 12 2453	1698 213 62 3 1420
17. Horses 13. Cattle 19. Sheep 20. Swine 21. Poultry 22. Egg Sales 23. Dairy Sales	○ ○ 公 ⊕ 公 少 少	169 9 159 112 103	3 109 16 201 99 503 1437	125 8 140 122 314 703
24. Expenses - Net Decreases - Total 25. Farm Improvements 26. Livestock	1 \$ 1 \$ 3	94 <u>1</u> 200 7	<u>1144</u> 229 	053 202 22
27. Horses 28. Cattle 29. Sheep 30. Swine 31. Poultry	000000000000000000000000000000000000000	7		22
32. Machinery and Equipment 33. Feed and Supplies 34. Livestock Expense other than 35. Crop Expenses 36. Labor hired 37. Taxes, Insurance, etc. 38. Miscellaneous	\$	237 25 145 156 144 27	270 37 176 253 153 26	219 20 141 86 133 30
39. Receipts less Expenses 40. Operator's and Unpaid Family I 41: Net Income from Investment	å abor \$	1663 349 814	2451 344 1607	845 874 - 29
42. Farms with Tractor - Percent 43. Value of land per Acre 44. Total Investment per Acre	% \$ \$	20.7 64 105	21.0 63 106	26.3 50 92

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Find Your Farm Leaks - (Clinton County - 1924)

The numbers just above the line across the middle of the page are approximately the average for your county 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 community.

Earned Corn Oats Whost 11.75 45 51 15 10.75 45 46 14 10.75 42 45 13 0.75 39 42 12 7.75 36 39 11 6.75 33 36 10 5.75 30 33 9 4.75 27 20 3 3.75 24 6 2.75 15 15 6 1.75 15 24 6 1.75 15 15 4 25 12 15 4 25 12 2 4 -1.25 9 12 3			177 000 000		-	4		Г			
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1.75 10 21 .75 15 10 25 12 15	.9	126	37	162	65	7.00	55	17	68	12	144
.75 15 10 25 12 15 1 25 9 1.2	5	116	61	142	61	7.50	00	75	66	70	134
1,25 12 15 1,25 9 12	-1	106	41	122	57	3.00	45	13	109	က	124
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- 2. Crop Yields. Good crop yields are one essential requirement for good incomes. Cost of production studies on 18 farms in one community showed that the cost of producing a bushel of corn varied from 39¢ on one farm to 79¢ per bushel on another farm for the same year. Similar differences occurred on other crops. A large part of the difference in cost is due to the difference in yield per acre. It is not uncommon to find a difference of 25¢ a bushel in the cost of producing corn which can be attributed directly to the difference in the yield per acre since most items of cost do not increase as the yield increases. When crop yields are low one can well afford to study the practices of men who secure higher yields. In order to determine what is responsible for these differences attention should be given to the rotation of crops, quality and variety of seed, use of legumes and manure, use of limestone and phosphate where needed, preparation of seed bed, cultivation, protection from disease and insects, and drainage.
- 3. Returns from Livestock. One of the best measures of the efficiency of livestock, in these records, is the returns per \$100.00 invested. The returns per \$100.00 worth of feed fed any class of livestock, however, gives you more reliable information as to whether the efficiency of that class of livestock may be improved. You are urged, therefore, to keep the feed record on pages 38 and 39 of the farm account book, at least for the livestock from which you receive considerable income. As evidence of the wide variation in livestock efficiency on farms, cost accounts accured on 18 farms in the same community showed a range in the cost of feed in producing pork of \$4.18 to \$8.31 per 100 pounds gain in weight for the same year.

The per cent. of total receipts from livestock enables one to know how large a factor livestock is in determining the farm income. On some farms where livestock represented a considerable part of the income in 1924 the earnings were reduced due to the abnormal price situation. As compared with the five-year average of farm prices from 1909 to 1914 the prices of meat animals in 1924 were only 9% higher than for the five-year period, while the prices of grains were 29% and the prices of dairy products and eggs were 37% higher. This means that farms which were heavy producers of meat animals in 1924 did not fare so well as they might

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expect to do on an average of a number of years when compared with either grain or dairy farms. In spite of this fact the larger propertion of livestock returns on the better farms indicate that good livestock properly handled paid even under the adverse price situation.

Success with livesteck, as with crop production, depends upon a number of factors among which the following should be noted: Raising a large per cent. of young animals, sanitation, prevention of disease, ability in buying and selling livestock, keeping animals of good quality, good feeding practices - especially the growing of sufficient legume forage to supply most of the protein requirements, careful purchasing of additional protein and mineral supplements when needed, and the economical use of roughage which is available on all farms.

Some men are more successful than others in handling livestock. It is not tecommended that anyone quickly change his practice and suddenly go into extensive feeding or breeding operations. It is better to work gradually into the livestock business, building up either breeding or feeding operations as he finds that livestock is filling a place in his system of farming.

4. Use of Man and Horse Labor. One of the best measures of the use of labor is the number of crop acres worked per man or per horse when the farms are of the same general type. When the cost of man labor and horse labor are noted it emphasizes at once the importance of vatering these items of expense and arranging the organization of the farm to make officient use of labor.

Cost accounting data secured on 18 forms in the same community for the same year show that the net cost of keeping a work herse ranged from \$63.76 to \$124.15; or an average of \$93.08 per horse. When it is considered that a horse usually works about 20 acres of crops when a tructor is not employed, it means that horse labor costs will range from \$3.50 to ever \$6.00 per acre on different farms. This wide range in the cost of horse labor is dependent not only on the number of acres handled with one horse, but also upon the economy with which the horse is fed and whether or not other items of expense are kept at a low figure. The careful planning of a rotation of crops is probably one of the bost ways to reduce both man and horse labor costs. A rotation should be chosen so that as uniform an amount of man and horse labor is required from early spring until late fall as possible. Frequently the size of certain enterprises within the farm business may be adjusted to utilize the available family labor to advantage. Feeding down crops and keeping enough livestock to utilize labor during the seasons when farm work is light are other definite means of increasing the efficiency with which labor is used. Repeated study of farm records over the state indicate that occasionally a man may reduce the amount of both man labor and horse labor to a point where lower profits are secured from both crop and livestock enterprises because of a lack of well directed labor. It is usually found, however, that the more profitable farms not only secure larger yields per acre, but they handle a larger acreage per worker or per horse.

5. Expense per \$100. Gress Income. This is a measure of thrift in all parts of the farm business. It does not misrepresent a farm which has a large expense if the income is correspondingly high. However, it is a well-known principle in all business organization that expenses must be kept low in proportion to income if the business is to prove profitable. Cost accounts kept on 18 farms in the same community showed that the arnual building expense per acre varied from \$1.42 to \$6.63 per acre; the annual expense for fences varied from \$1.32 to \$2.36 per acre, and machinery and equipment expenses varied from \$1.63 per acre to \$2.46. These data show how much more efficient some farmers are than others in keeping expenses low.

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Farmers who are most successful in keeping expenses low in proportion to the income plan their work so as to make the labor of themselves and members of the family as productive as possible. Enterprises are included in the farm business that utilize available labor at all seasons of the year. while they secure good varieties of seed, in so far as possible, they raise and prepare their own seed. Rainy days and off seasons are used to repair buildings, fences, machinery, and harness. This prolongs the life of equipment, saves in the purchase of new equipment and also saves paying out money for highly paid skilled labor. By having equipment in shape they also save the expense incident to dolay in the busy season caused by broken machinery or fences, which might have been prevented by timely repair.

6. Size of Farm. In most types of farming there is a limit to the amount of product which can be profitably secured per acre. When one finds his farm is smaller than the more profitable farms in his locality and his income is low even though he has good crop yields and good returns from livesteck, a weakness is frequently found in the small size of farm. This situation may be remedied by buying or renting additional land or changing the type of farming to a more highly intensive or specialized type which will bring a larger volume of production. be recognized, however, that some men have more ability than others in handling a large sized business. Some men may find their farm is considerably larger than the best paying farms, but the income is low because of too large an area handled from one point. Some farmers may find that they can secure a larger net prefit by renting out some land and doing more efficient work on a smaller acreage. It is a wellknown principle of farm management that a farm must be large enough to utilize capital in the form of buildings, machinery and other equipment, and labor in an economical way. Just how large the farm should be, however, is a question which depends upon the ability of the operator himself as a manager.

Lalanced Farming Pays.

Each of the factors previously discussed plays a part in determining form profits. Full success in farming requires that all parts of the farmer's business be given attention. One may have good crop yields and make good use of livestock, but receive a small net income because of inefficient use of labor. Or one may work a large acreage per man and per horse, but fail because of low crop yields or poor returns from livestock. A well balanced farm with a fair degree of efficiency along all lines brings the operator returns which will enable him to maintain a good standard of living for his family.



ANNUAL FARM BUSINESS REPORT Douglas, Moultrie, Coles, and Clark* Counties - 1924

Prepared by H. C. M. Case, M. L. Mosher, K. H. Myers**

The 32 farmers in the four counties who kept farm records in 1924 in the book prepared by the Extension Service earned a rate of 8.22% on an average investment of \$40,366.00 after figuring their own time at about \$600.00 per year. These farms averaged 200 acres in size. The Labor and Management wage which represents what a man has left as pay for his own work and managing ability after paying all expenses and allowing 5 per cent interest on the total investment, amounted to \$1816.00 as an average for all farmers. The value of the food products furnished the home and the use of the dwelling house represent an income in addition to that shown. On 11 farms in Champaign and Piatt counties a careful record was kept of these two items, the value of which amounted to \$726.00 per farm at farm prices.

A comparison with other farmers in your community will help you to find at what point you can strengthen your farm. The table on page 2 shows the average results of the 32 farms in comparison with those of more profitable and less profitable farms. The 10 most profitable farms earned 11.56% on the investment, while the least profitable group made only 3.9½%. Expressed as the Labor and Management wage, the better group made an average labor income of \$3530.00, while the least profitable group had only \$120 left to pay the manager for his own labor and management, a difference of \$3710. In comparing the more profitable farms with the least profitable, it will be noted that the 10 more profitable farms averaged over 30 acres larger in size, making it possible to use equipment, machinery and labor to greater advantage.

The records show that the more profitable group had larger erop yields than the least profitable group. In the first group 95.8% of the land area was tillable, while in the second group 87.2% was tillable land. Both groups had considerable legume crops. There was little difference in the returns per \$100 invested in livestock. The lower group had better returns in the more important classes of livestock than did the upper group. The more profitable group, then, had better crop yields, and slightly better returns per \$100 invested in livestock, but less grain was marketed through livestock than in the lower group. This is an unusual condition resulting from the price situation. Further explanation of the unusual condition of prices is given on page 5. This is probably temporary and should not be considered a basis for changing the system of production to one which includes less livestock. Farms with the best paying classes of livestock made more money than farms with a small amount of income from livestock last year.

For every \$100.00 taken in, the 10 most profitable farms had an expense of \$29.30, while the 10 least profitable farms had an expense of \$61.05. This may be due to any one of a large number of items of cost, but as shown, the more profitable farms kept the machinery expenses and building and fencing expenses as well as other operating expenses at a lower figure per acre. While this may be due in part to the size of the farms, usually, low expenses per \$100.00 mean that no unnecessary expenditures are made. The more profitable farms received \$16.53 larger gross returns per acre and their expenses were \$1.27 less per acre than on the 10 least profitable farms, giving as a result the net receipts of \$25.30 per acre as compared with only \$7.50 per acre on the 10 least profitable farms.

* Records from the Northwest part of Clark County only were used.

^{**} F.W. Garrett, C.C. Turner, Melvin Thomas, and W.W. Merritt, farm advisers in Douglas, Moultrie, Coles, and Clark Counties, respectively, cooperated in supervising and collecting the records used in this report.

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A detailed statement of the farm earnings is given on page 3, while on page 4 you will find a chart on which you may plot the results from your own farm which will show at what points your farm showed strength or weakness.

Douglas, Coles, Moultrie, and Clark Counties

Factors helping to analyze the farm business	Your farm		Average of 32 farms	10 most profitable farms	lO least profitable farms
Rate Earned Labor & Management Wage	\$	60	8.22% \$ 1816.	11.56% \$ 3830.	3.94% \$ 120.
Size of Farm - Acres Crop Yields - Corn - Bushels Oats - Bushels Wheat - Bushels Percent of land area Tillable Percent of tillable land in legumes		80,80	200.0 45.0 44.0 22.1 91.3 15.8	225.7 45.9 44.7 25.6 95.8 12.9	192.5 43.4 41.5 22.1 87.2 19.8
Returns per \$100. invested in all productive livestock	\$		142.10	150.30	145.45
For \$100. in - Cattle - Swine - Poultry	\$ \$ \$		100.90 199.30 146.05	71.45 198.35 160.85	95.00 210.00 151.35
Percent of gross income from livestock		%	35.4	22.2	54.0
Man Labor Cost per Acre Crop Acres per Man Crop Acres per Horse(With tractor) (Without tractor) Expense per \$100. gross Income Machinery Cost per Acre Building & Fencing cost per Acre	0 000000000000000000000000000000000000		5.16 91.5 27.7 18.2 40.01 1.46	5.03 90.8 27.8 17.7 29.30 1.46	5.30 88.5 22.9 19.5 61.05 1.51 1.11
Gross Receipts per Acre Total Expenses per Acre Net Receipts per Acre	\$ \$ \$		27,64 11,05 16,58	35.78 10.48 25.30	19.25 11.75 7.50

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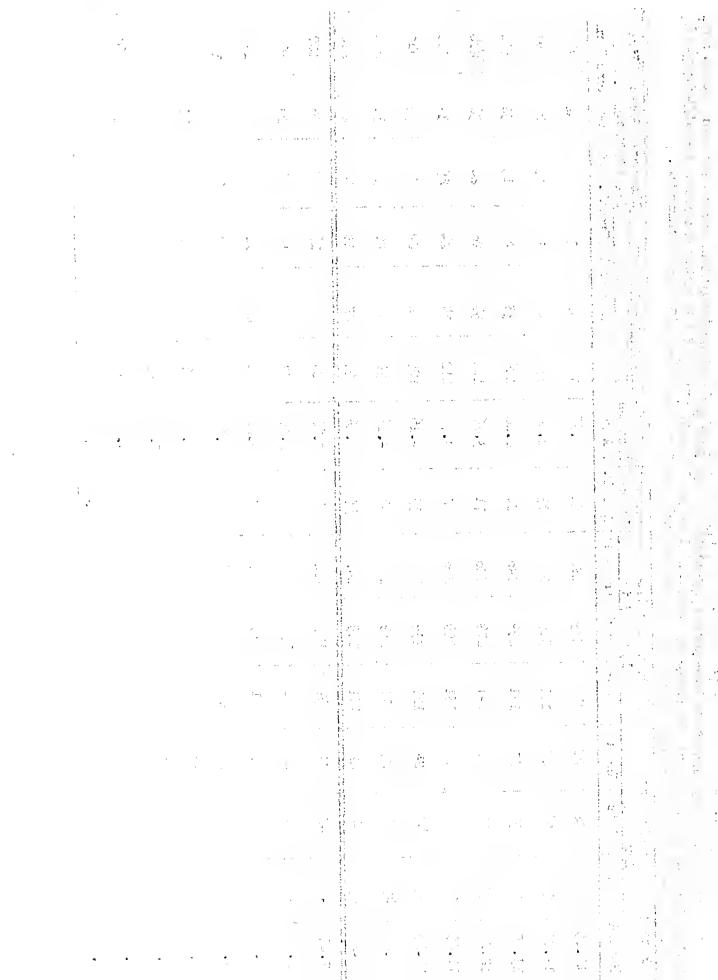
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		Your farm	Average of 32 farms	10 most profitable forms	10 least profitable farms
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1. 2. 3. 4. 5.	Capital Investment - Total Land Farm Improvements Machinery and Equipment Feed and Supplies Livestock	\$ \to \to \to \to \to	\$10756 32809 3015 1048 1525 1909	\$45109 59595 5507 1184 2354 1859	\$36553 29133 3271 998 1261 1890
7. 9. 10. 11.	Honges Usuble Thoop Shop Poultry	\$ \$ \$ \$ \$ \$ \$ \$	605 625 54 403 105	751 749 142 352 115	629 724 30 430 77
12. 13. 14. 15. 16.	Receipts - Net Increases - Total Feed and Grain Labor off Tarm Miscellaneous Livestock - Total	\$\frac{1}{10} \cdot \cdo	5528 3503 16 50 1959	8075 6191 26 65 1793	3705 1652 3 48 2002
17. 15. 19. 20. 21. 22. 23.	Horses Cattle Sheap Swane Foultry Egg Sales Dairy Sales	0.00 00 00 00 00 00 00 00 00 00 00 00 00	292 35 1122 105 67 338	65 48 13 ⁴ 1 116 77 143	244 25 1160 116 38 419
24. 25. 25.	Expenses - Not Decreases - Total Taim Improvements Idreamost.	03 00 es	1518 173 35	1569 177 40	<u>1588</u> 214 39
27. 28. 29. 30.	Horses Catile Sleep Swine Pultor	55-55-55-55-55-55-55-55-55-55-55-55-55-	35	,40	39
32. 35. 34. 35.	Machinery and Equipment Food and Supplies Livestock Expense other than feed Orop Expense Labor hired Taxes, Insurance, etc. Miscellaneous		298 37 211 337 401 26	330 28 212 338 425 19	291 49 200 347 399 41
40.	Receipts less Expenses Operators & Unpaid Family Labor Net Income from Investment	\$ \$	4010 694 3316	6506 7.27 5709	2117 674 1 ^{1,1} 3
42.	Farms with Tractor - Percent Value of land per Acre Total Investment per Acre	\$\$	46.9% 164 202	60% 175 213	30% 151 130

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Find Your Farm Leaks - (Douglas, Moultrie, Coles, and Clark Counties 1924)

the factors named at the top of the page. By drawing a line across each column at the number measuring the efficiency of The numbers just above the line across the middle of the page are approximately the average for your county for your farm in that factor, you can compare your efficiency with that of other farmers in your community.

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Size		340	320	300	280	260	240	220	200	180	160	140	120	100	80	09	017
Gross	per Acre	742	047	38	36	34	32	30	28	56	₹7	22	20	18	16	14	12
Expense	Income	5	10	15	50	25	30	35	04	45	50	55	09	65	02	75	80
er	No Trac	32	30	58	56	45	22	20	18	16	17	12	10	to	9	#	2
s Acres per	Tractor	742	아	38	36	34	32	30	28	92	54	22	20	18	16	17	12
Orops Man	}	140	133	126	119	112	105	86	91	48	77	70	63	56	641	742	35
Man Lab.	. Acre	1.66	2.16	2.56	3.16	3.66	4.16	99°4	5.16	99.6	91.9	99•9	7.16	99°2	8.16	99°8	9.16
	from L.S	8	68	80	71	62	23	†	35	26	17	™	0	0	0	0	0
\$100	oultry	286	592	546	226	506	186	991	146	126	106	98	99	多	56	9	0
per	1 1	339	319	299	279	259	239	219	199	179	159	139	119	66	62	59	39
Returns Inv	Cattle	171	191	151	141	131	121	111	101	16	81	7.1	61	51	141	31	21
	Wheat	28	28	27	56	25	54	23	22	21	50	19	18	17	16	15	17
Bushels per Acre of	100	58	56	574	55,	50	78	9	†††	24	η,	38	36	34	32	30	28
Bushe. Acre	Corn	59	57	55	53	51	64	L†1	45	43	1,1	39	37	35	33	31	29
Rate	Earned	15.25	14,25	13.25	12.25	11.25	10,25	9.25	8.25	7.25	6.25	5.25	4.25	3.25	2.25	1.25	.25



HOW TO STUDY YOUR FARM RECORD

We shall endeavor in the following discussion to point out the importance of certain factors in their influence on the farm profits. Cost of production data will frequently be referred to. The cost of producing farm products has been studied during the past twelve years in different parts of Illinois. Thile your record does not permit determining the cost of producing separate products on your farm, the information from your farm does enable you to learn whether the different parts of your business correspond favorably with other farms in your community. A study of a group of farm records from any community always impresses one with the fact that ach farmer can profit at some point from studying the results obtained by his more efficient farmer neighbors.

Different factors which we wish to call to your attention include the following:

- 1. Total Farm Earnings. These are shown first in terms of the rate carned on the total farm investment, and second, in terms of the Labor and Management wage. However, in studying the farm carnings you will be interested in noting the last three items on page 2 which show the wide differences between the one-third most profitable and the one-third least profitable farms in the gross receipts and the total expenses per acre, and in the resulting difference in the net receipts per acre. These wide differences in farm earnings call for an analysis of a number of different factors which affect the farm earnings. These factors are included in the following discussion in which we endeavor to point out why these different factors are of special importance.
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- 3. Returns from Livestock. One of the best measures of the efficiency of livestock, in these records, is the returns per \$100.00 invested. The returns per \$100.00 worth of feed fed any class of livestock, however, gives you more reliable information as to whether the efficiency of that class of livestock may be improved. You are urged, therefore, to keep the feed record on pages 38 and 39 of the farm account book, at least for the livestock from which you receive considerable income. As evidence of the wide variation in livestock efficiency on farms, cost accounts secured on 18 farms in the same community showed a range in the cost of feed in producing pork of \$4,18 to \$8.81 per 100 pounds gain in weight for the same year.

The per cent. of total receipts from livestock enables one to know how large a factor livestock is in determining the farm income. On some farms where livestock represented a considerable part of the income in 1924 the earnings were reduced due to the abnormal price situation. As compared with the five-year average of farm prices from 1909 to 1914 the prices of meat animals in 1924 were only 9% higher than for the five-year period, while the prices of grains were 29% and the prices of dairy products and eggs were 37% higher. This means that farms which were heavy producers

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of meat animals in 1924 did not fare so well as they might expect to do on an average of a number of years when compared with either grain or dairy farms. In spite of this fact the larger proportion of livestock returns on the better farms indicate that good livestock properly handled paid even under the adverse price situation.

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Some men are more successful than others in handling livestock. It is not recommended that anyone quickly change his practice and suddenly go into extensive feeding or breeding operations. It is better to work gradually into the livestock business, building up either breeding or feeding operations as he finds that livestock is filling a place in his system of farming.

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Cost accounting data secured on 18 farms in the same community for the same year show that the net cost of keeping a work horse ranged from \$63.76 to \$124.15; or an average of \$93.08 per horse. When it is considered that a horse usually works about 20 acres of crops when a tractor is not employed, it means that horse labor costs will range from \$3.50 to over \$6.00 per acre on different farms. This wide range in the cost of horse labor is dependent not only on the number of acres handled with one horse, but also upon the economy with which the horse is fed and whether or not other items of expense are kept at a low figure. The careful planning of a rotation of crops is probably one of the best ways to reduce both man and horse labor costs. A rotation should be chosen so that as uniform an amount of man and horse labor is required from early spring until late fall as possible. Frequently the size of certain enterprises within the farm business may be adjusted ' to utilize the available family labor to advantage. Feeding down crops and keeping enough livestock to utilize labor during the seasons when form work is light are other definite means of increasing the officiency with which labor is used. Repeated study of farm records over the state indicate that occasionally a man may reduce the amount of both man labor and horse labor to a point where lower profits are secured from both crop and livestock enterprises because of a lack of well directed labor. It is usually found, however, that the more profitable farms not only secure larger yields per acre, but they handle a larger acreage per worker or per horse.

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Balanced Farming Pays

Each of the factors previously discussed plays a part in determining farm profits. Full success in farming requires that all parts of the farmer's business be given attention. One may have good crop yields and make good use of livestock, but receive a small net income because of inefficient use of labor. Or one may work a large acreage per man and per horse, but fail because of law crop yields or poor returns from livestock. A well balanced farm with a fair degree of efficiency along all lines brings the operator returns which will enable him to maintain a good standard of living for his family.

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ANNUAL FARM BUSINESS REPORT

HENRY, MARSHALL-PUTNAM AND VALITESIDE COUNTIES - 1924

Prepared by H.C.M. Case, M.L. Mosher, K.H. Myers*

The 41 farmers in the four counties who kept farm records in 1924 in the book prepared by the Extension Service earned a rate of 7.42% on an average investment of \$46,855 after figuring their own time at about \$600 per year. These farms averaged 208.5 acros in size. The Labor and Management wage which represents what a man has left as pay for his own work and managing ability after paying all expenses and allowing 5 per cent interest on the total investment, amounted to \$1725 as an average for all farmers. The value of the food products furnished the home and the use of the dwelling house represent an income in addition to that shown. On 11 farms in Champaign and Piatt counties a careful record was kept of these two items, the value of which amounted to \$726 per farm at farm prices.

A comparison with other farmers in your community will help you to find at what point you can strengthen your farm. The tables on pages 2 and 3 show the average results of the 41 farms in comparison with those of more profitable and less profitable farms. The 14 most profitable farms earned 10.94% on the investment, while the least profitable group made 3.70%. Expressed as the Labor and Management wage, the better group made an average labor income of \$3778, while the least profitable group had only \$54 left to pay the manager for his own labor and management, a difference of \$3724. In comparing the more profitable farms with the least profitable it will be noted that the 14 more profitable farms averaged over 45 acres larger in size, and had a larger percontage of tillable land. This should be considered in comparing the efficiency with which equipment, machinery, and labor is used.

The records show that the more profitable group had botter crop yields, especially corn and wheat, than the lower group. Doth groups had considerable land in legume crops. The records indicate that there was very little difference in the amount of livestock kept, or in the efficiency with which livestock was handled on the two groups of farms. The fact that only 82.5% of the land area in the lower group was tillable compared with 94.5 in the upper group, and the fact that livestock made up 91.0% of the gross income in the lower group compared with 41.3% in the upper group, indicates that livestock was a more important source of income on the lower group. The more profitable farms received as much income from livestock, but due to larger size and a larger percent of tillable land they were able to produce a larger surplus of feed which was marketed direct. Studies over a long period of years indicate that farms on which a considerable part of the grain is marketed through livestock, return a better income than those on which a large part of the grain is marketed direct. 1924 was an exception to this due to the abnormal price situation, which is further explained on page 5 of this report.

For every \$100. taken in, the 14 most profitable farms had an expense of \$33.12, while the 14 least profitable farms had an expense of \$59.85. This may be due to any one of a large number of items of cost. It may be due to low income as well as to high expense. Whatever it be due to low expenses per \$100 income are essential to profitable farming. The more profitable farms received \$17.01 larger gross returns per acre and their expenses were only \$0.06 more per acre than on the 14 least profitable farms, giving as a result the not receipts of \$25.32

^{*}J. W. Whisenand, F.E. Fuller, and L.O.Wise, farm advisers in Henry, Marshall-Putnam and Whiteside counties, respectively, cooperated in supervising and collecting the records used in this report.

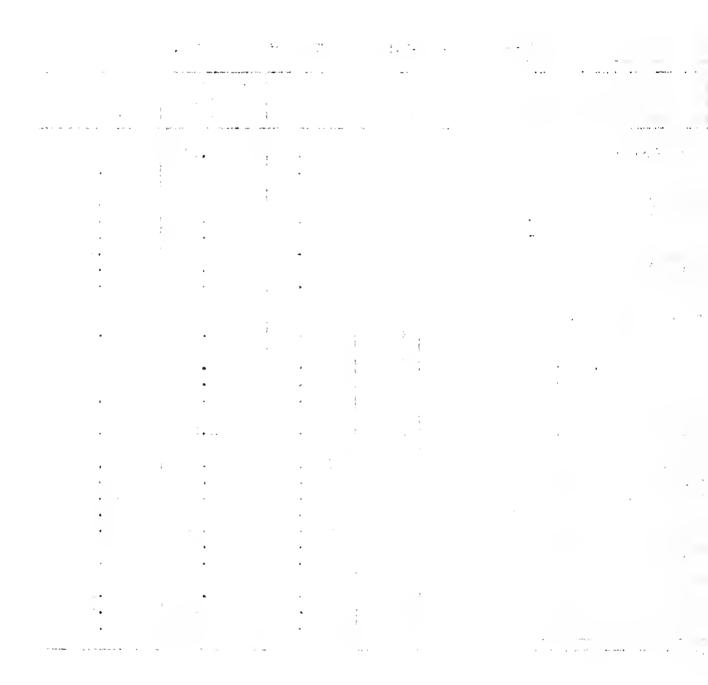
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per acre as compared with 8.37 per acre on the 14 least prefitable farms. A detailed statement of the farm carnings is given on page 3, while on page 4 you will find a chart on which you may plot the results from your own farm which will show at what points your farm showed strength or weakness.

Honry, Marshall-Putnam and Whiteside Counties.

Factors helping to analyze the farm business	Your farm	Average of 41 farms	14 most profitable farms	l3 least profitable farms
Rate Earned Labor and Management Wage	\$ %	7.42% \$1725.	10.94 3778.	3.70 54.
Size of Farm - Acres Crop Yields - Corn - Bushels - Oats - Bushels Wheat - Bushels Percent of land area Tillable Percent of tillable land in legumes	\$/°	208.5 41.8 54.9 28.1 85.5% 16.2%	231.2 43.8 54.0 28.1 94.7 16.4	186.0 34.4 53.4 14.9 82.5 17.5
Returns per \$100. invested in all productive livestock	\$	\$126.9 5	135.35	137.70
For \$100. in - Cattle - Swine - Poultry	6 0 00 00	\$ 88.90 \$167.35 \$157.20	86.15 170.50 167.50	108.00 160.85 185.20
Percent of gross Income from Livesto	ck %	59.4%	41.3	91.0
Man Labor Cost per Acro Crop Acres per Man Crop Acres per Horse (With tractor) (Without tractor) Expense per \$100. gross Income Machinery Cost per Acro Building & Fencing cost per Acro	\$.	\$ 6.21 80.6 24.6 16.9 \$ 42.80 \$ 2.20 \$ 1.16	6.71 88.2 20.9 15.4 33.12 2.19	6.07 79.6 32.4 19.2 59.85 2.00 1.11
Gross Receipts per Acre Total Expenses per Acre Net Receipts per Acre	\$	\$ 29.15 \$ 12.43 \$ 16.67	37.86 12.54 25.32	20.85 12.48 8.37



Henry, Marshall-Putnam, Whitesite Counties.

	Your Farm	Average of 41 farms	14 most profitablo farms	13 least profitable farms
1. Capital Investment - Total 2. Land 3. Farm Improvements 4. Machinery and Equipment 5. Feed and Supplies 6. Livestock	49 49 49 49 49 49	\$46855 35358 4869 1457 1973 3198	\$53533 42044 5058 1330 2082 3019	\$42146 30930 4506 1510 2115 3085
7. Horses 8. Cattle 9. Sheap 10. Swine 11. Poultry	ক্ষ ব্যা ক্ষা ক্ষা ক্ষ	598 1489 29 953 129	603 1200 17 1050 149	645 1319 17 936 118
12. Receipts - Net Increases - Total 13. Feed and Grain 14. Labor off Farm 15. Miscellaneous 16. Livestock - Total	49 49 49 49 49	\$ 6079 2368 61 39 3611	\$ 8754 4975 121 46 3612	\$ 3878 263 40 45 3530
17. Horses 18. Cattle * 19. Sheep 20. Swine 21. Poultry 22. Egg Sales 23. Dairy Sales	© 40 40 40 40 40 40	944 61 2053 119 101 333	671 69 2313 127 145 287	1042 63 1905 122 103 295
24. Expenses - Net Decreases - Total 25. Farm Improvements 26. Livestock	\$ 40	\$ 1756 243 28	\$ 2001 209 42	\$ 1467 206 35
27. Horses 28. Cattle 29. Sheep 30. Swine	C) 40 - (C) - (C) - (A) - (A)	28	42	35
31. Poultry 32. Machinery and Equipment 33. Feed and Supplies 34. Livestock Expense other than f 35. Crop Expenses 36. Labor hired 37. Taxes, Insurance, etc. 38. Miscellaneous	\$	458 51 171 449 322 34	507 41 181 653 335 335	373 57 162 232 312 40
39. Receipts less Expenses 40. Operator's and Unpaid Family Lab 41. Net Income from Investment	\$ or\$ \$	\$ 4323 846 3477	§ 6753 090 5855	\$ 2411 354 1557
42. Farms with Tractor - Percent 43. Value of land per Acre 44. Total Investment per Acre	% \$	61.0 170. 225.	64.3 182. 232.	69.2 166. 226.

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Find Your Farm Leaks - (Henry, Marshall-CPutnam, Whiteside to s. - 1007)

The numbers just above the line across the middle of the page are approximately the average for your county 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 community.

Size	of	r curin	303	293	203	260	253	233	223	203	193	173	163	1 13	133	113	103	33
Gross	()	per acre	43	41	3.9	37	30	33	37	29	27	25	23	27	19	17	15	13
Expense	per \$100	T	П	7	13	19	25	31	37	43	o d	55	19	67	73	79	85	91
	E	No Trac.	31	53	27	25	23	21	19	17	15	13	1.1	6	7	ſΩ	ന	7
Acr	0	Tractor	39	37	35	33	31	29	27	25	23	21	19	17	13 1	13	7,7	O
l i	, Man		116	111	106	101	96	91	36	31	92	7.1	99	61	56	51	46	41
	Cost per	Acre	2.75	3.25	3.75	4.25	4.75	5.25	5.75	6.25	6.75	7.25	7.75	8,25	8.75	9.25	9.75	10.25
ددا	Income	rout try rom h.S.	94	60	4,	62	74	69	64	59	5.4	49	44	39	34	53	24	19
\$100	Dougland	routery	297	277	257	237	217	197	177	157	137	117	26	77	22	37	17	0
per	Invested in	rogs.	272	Z5T	242	227	212	197	102	167	152	137	122	107	92	77	62	47
Returns	Inv	Cattle	159	149	139	129	119	109	66	60	62	69	59	49	39	29	19	o
	Ē	Wheat	42	40	33	36	34	32	30	23	26	24	22	20	13	16	14	12
Bushels per	Acre of	Vats	76	73	70	29	·다	61	20	55	52	49	46	43	40	37	ა გ	31
Busk	Ac	Corr	70	99	62	53	54	20	95	42	33	3.4 4.	30	26	22	13	14	10
Bo+c		Earnod	14,50	13.50	12.50	11.50	10.50	3.50	03.50	7.50	6.50	5.50	4.50	3.50	2.50	1.50	0.50	-0.50

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We shall endeavor in the following discussion to point out the importance of certain factors in their influence on the farm profits. Cost of production data will frequently be referred to. The cost of producing farm products has been studied during the past twelve years in different parts of Illinois. While your record does not permit determining the cost of producing separate products on your farm, the information from your farm does enable you to learn whether the different parts of your business correspond favorably with other farms in your community. A study of a group of farm records from any community always impresses one with the fact that each farmer can profit at some point from studying the results obtained by his more efficient farmer neighbors.

Different factors which we wish to call to your attention include the following:

- 1. Total Farm Earnings. These are shown first in terms of the rate earned on the total farm investment, and second, in terms of the Labor and Management wage. However, in studying the farm earnings you will be interested in noting the last three items on page 2 which show the wide differences between the one-third most profitable and the one-third least profitable farms in the gross receipts and the total expenses per acre, and in the resulting difference in the net receipts per acre. These wide differences in farm earnings call for an analysis of a number of different factors which affect the farm earnings. These factors are included in the following discussion in which we endeavor to point out why these different factors are of special importance.
- 2. Crop Yields. Good crop yields are one essential requirement for good incomes. Cost of production studies on 18 farms in one community showed that the cost of producing a bushel of corn varied from 39¢ on one farm to 79¢ per bushel on another farm for the same year. Similar differences occurred on other crops. A large part of the difference in cost is due to the difference in yield per acre. It is not uncommon to find a difference of 25¢ a bushel in the cost of producing corn which can be attributed directly to the difference in the yield per acre since most items of cost do not increase as the yield increases. When crop yields are low one can well afford to study the practices of men who secure higher yields. In order to determine what is responsible for these differences attention should be given to the rotation of crops, quality and variety of seed, use of legumes and manure, use of limostone and phosphate where needed, preparation of seed bed, cultivation, protection from disease and insects, and drainage.
- 3. Returns from Livestock. One of the best measures of the efficiency of livestock, in these records, is the returns per \$100.00 invested. The returns per \$100.00 worth of feed fod any class of livestock, however, gives you more reliable information as to whether the efficiency of that class of livestock may be improved. You are urged, therefore, to keep the feed record on pages 38 and 39 of the farm account book, at least for the livestock from which you receive considerable income. As evidence of the wide variation in livestock efficiency on farms, cost accounts accured on 18 farms in the same community showed a range in the cost of feed in producing pork of \$4.18 to \$8.81 per 100 pounds gain in weight for the same year.

The per cent. of total receipts from livestock enables one to know how large a factor livestock is in determining the farm income. On some farms where livestock represented a considerable part of the income in 1924 the earnings were reduced due to the abnormal price situation. As compared with the five-year average of farm prices from 1909 to 1914 the prices of meat animals in 1924 were only 9% higher than for the five-year period, while the prices of grains were 29% and the prices of dairy products and eggs were 37% higher. This means that farms which were heavy producers of meat animals in 1924 did not fare so well as they might



expect to do on an average of a number of years when compared with either grain or dairy farms. In spite of this fact the larger proportion of livestock returns on the better farms indicate that good livestock properly handled paid even under the adverse price situation.

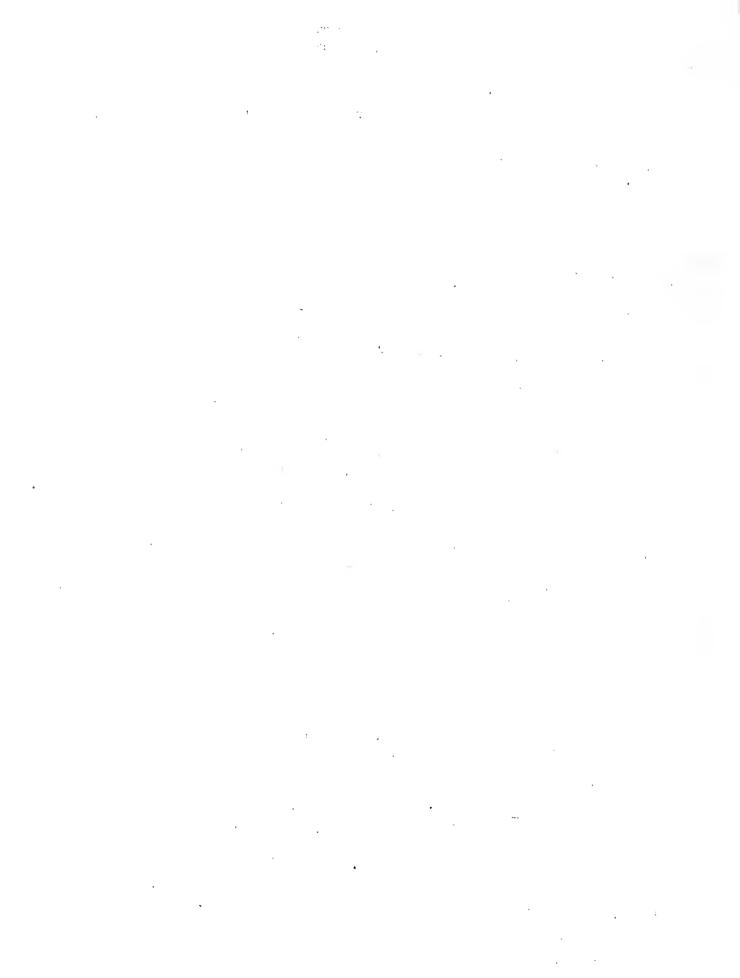
Success with livestock, as with crop production, depends upon a number of factors among which the following should be noted: Raising a large per cent. of young animals, sanitation, prevention of disease, ability in buying and selling livestock, keeping animals of good quality, good feeding practices - especially the growing of sufficient legume forage to supply most of the protein requirements, careful purchasing of additional protein and mineral supplements when needed, and the economical use of roughage which is available on all farms.

Some men are more successful than others in handling livestock. It is not tecommended that anyone quickly change his practice and suddenly go into extensive feeding or breeding operations. It is better to work gradually into the livestock business, building up either breeding or feeding operations as he finds that livestock is filling a place in his system of farming.

4. Use of Man and Horse Labor. One of the best measures of the use of labor is the number of crop acres worked per man or per horse when the farms are of the same general type. When the cost of man labor and horse labor are noted it emphasizes at once the importance of watching these items of expense and arranging the organization of the farm to make efficient use of labor.

Cost accounting data secured on 18 farms in the same community for the same year show that the net cost of keeping a work horse ranged from \$63.76 to \$124.15; or an average of \$93.08 per horse. When it is considered that a horse usually works about 20 acres of crops when a tractor is not employed, it means that horse labor costs will range from \$3.50 to over \$6.00 per acre on different farms. This wide range in the cost of horse labor is dependent not only on the number of acres handled with one horse, but also upon the economy with which the horse is fed and whether or not other items of expense are kept at a low figure. The careful planning of a rotation of crops is probably one of the best ways to reduce both man and horse labor costs. A rotation should be chosen so that as uniform an amount of man and horse labor is required from early spring until late fall as possible. Frequently the size of certain enterprises within the farm business may be adjusted to utilize the available family labor to advantage. Feeding down crops and keeping enough livestock to utilize labor during the seasons when farm work is light are other definite means of increasing the efficiency with which labor is used. Repeated study of farm records over the state indicate that occasionally a man may reduce the amount of both man labor and horse labor to a point where lower profits are secured from both crop and livestock enterprises because of a lack of well directed labor. It is usually found, however, that the more profitable farms not only secure larger yields per acre, but they handle a larger acreage per worker or per horse.

5. Expense per \$100. Gress Income. This is a measure of thrift in all parts of the farm business. It does not misrepresent a farm which has a large expense if the income is correspondingly high. However, it is a well-known principle in all business organization that expenses must be kept low in proportion to income if the business is to prove profitable. Cost accounts kept on 18 farms in the same community showed that the annual building expense per acre varied from \$1.42 to \$6.63 per acre; the annual expense for fences varied from \$1.32 to \$2.36 per acre, and machinery and equipment expenses varied from \$1.83 per acre to \$2.46. These data show how much more efficient some farmers are than others in keeping expenses low.



Farmers who are most successful in keeping expenses lew in proportion to the income plan their work so as to make the labor of themselves and members of the lamily as productive as possible. Enterprises are included in the farm business that utilize available labor at all seasons of the year. While they secure good varieties of seed, in so far as possible, they raise and propare their own seed. Rainy days and off seasons are used to repair buildings, fences, machinery, and harness. This prolongs the life of equipment, saves in the purchase of new equipment and also saves paying out money for highly paid skilled labor. By having equipment in shape they also save the expense incident to delay in the busy season caused by broken machinery or fences, which might have been prevented by timely repair.

6. Size of Farm. In most types of farming there is a limit to the amount of product which can be profitably secured per acre. When one finds his farm is smaller than the more profitable farms in his locality and his income is low even though he has good crop yields and good returns from livestock, a weakness is frequently found in the small size of farm. This situation may be remedied by buying or renting additional land or changing the type of farming to a more highly intensive or specialized type which will bring a larger volume of production. be recognized, however, that some men have more ability than others in handling a large sized business. Some men may find their farm is considerably larger than the best paying farms, but the income is low locause of too large an area handled from one point. Some farmors may find that they can secure a larger net profit by renting out some land and doing more efficient work on a smaller acreage. It is a wellknown principle of farm management that a farm must be large enough to utilize capital in the form of buildings, machinery and other equipment, and labor in an economical way. Just how large the farm should be, however, is a question which depends upon the ability of the operator himself as a manager.

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Each of the factors previously discussed plays a part in determining farm profits. Full success in farming requires that all parts of the farmer's business be given attention. One may have good crop yields and make good use of livestock, but receive a small net income because of inefficient use of labor. Or one may work a large acreage per man and per horse, but fail because of low crop yields or poor returns from livestock. A well balanced farm with a fair degree of efficiency along all lines brings the operator returns which will enable him to maintain a good standard of living for his family.

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JO DAVIESS, STEPHENSON, OGLE COUNTIES - 1924

Prepared by H.C.M.Case, M.L.Mosher, K.H.Myers*

The 51 farmers in the three counties who kept farm records in 1924 in the book prepared by the Extension Service earned a rate of 3.75% on an average investment of \$31,448.00 after figuring their own time at about \$600.00 per year. These farms averaged 180.1 acres in size. The Labor and Management wage which represents what a man has left as pay for his own work and managing ability after paying all expenses and allowing 5 per cent interest on the total investment, amounted to \$183. as an average for all farmers. The value of the food products furnished the home and the use of the dwelling house represent an income in addition to that shown. On 11 farms in Champaign and Piatt counties a careful record was kept of these two items, the value of which amounted to \$726.00 per farm at farm prices.

A comparison with other farmers in your community will help you to find at what point you can strengthen your farm. The tables on pages 2 and 3 show the average results of the 51 farms in comparison with those of more profitable and less profitable farms. The 17 most profitable farms earned 7.23% on the investment, while the least profitable group made only 0.66%. Expressed as the Labor and Management wage, the better group made an average labor income of \$1267.00, while the least profitable group lacked \$569.00 of having anything left to pay the manager for his own labor and management, a difference of \$2136.00. In comparing the more profitable farms with the least profitable it will be noted that the 17 more profitable farms averaged over 40 acros smaller in size, but had a larger percent of crop land. This should be considered in comparing the efficiency with which equipment, machinery, and labor is used.

The records show that the more profitable group had larger crop yields and a larger percentage of the tillable land in legume crops. The more profitable farms received over 30% larger returns for every \$100.00 invested in productive livestock and the same was true for each class of livestock, with the exception of poultry. They received 83.4% of their income from livestock compared with 89.3% on the least profitable farms. The more profitable farms then had larger crop yields and better livestock, but a slightly smaller percentage of their returns from livestock although their total returns from livestock were greater. The 17 least profitable farms handled more crop acres per man and per horse and had a lower man labor cost per acre than did the 17 most profitable. This should be considered in relation to the amount of livestock and the returns secured from livestock. It will be noted that the more profitable farms received larger returns from the sale of hogs and dairy products, which would mean a demand for labor that would lessen the amount of crops one man and one horse would handle.

For every \$100.00 taken in. the 17 most profitable farms had an expense of \$48.00, while the 17 least profitable farms had an expense of \$90.90. This may be due to any one of a large number of items of cost, but low expenses per \$100.00 income are essential to profitable farming. The more profitable farms received \$13.80 larger gross returns per acre and their expenses were only \$1.94 more per acre than on the 17 least profitable farms, giving as a result the net receipts of \$12.85 per acre as compared with only \$0.99 per acre on the 17 least profitable farms.

V. J. Banter, W. A. Herrington, and D. E. Warren, farm advisers in Jo Daviess, Stephenson, and Ogle Counties, respectively, cooperated in supervising and collecting the records used in this report.

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A detailed statement of the farm earnings is given on page 3, while on page 4 you will find a chart on which you may plot the results from your own farm which will show at what points your farm showed strength or weakness.

JO DAVIESS, STEPHENSON, OGLE COUNTIES

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Factors helping to analyze the	Your		Average of 51	17 most profitable	17 least profitable
farm business	farm		farms	farms	farms
Rate Earned		0/0	3.75%		0.66
Labor & Management Wage	\$		\$ 183.	\$ 1267.0	\$- 869.
Size of Farm - Acres			180.1	172.8	215.0
Crop Yields - Corn - Bushels			34.0	39•3	30.0
Oats - Bushels		,	40.0	48.8	34.7
Percent of land area Tillable		% %	82,8%		73.3
Percent of tillable land in legumes		%	16.5%	21.7	19.8
Returns per \$100. invested in					
all productive livestock	\$		118.75	129.40	95.25
	1				
For \$100. in - Cattle	\$ \$		80.45	95.00	52.80
- Swine - Poultry	4		187.15 163.90	192.80 156.00	176.60 157.30
_ 10u1try	Ψ		103.30	190.00	19/100
Percent of gross Income from livestoc		0/0	92.1%	83.4	89.3
Man Labor Cost Per Acre	\$		6.03	6.32	5,05
Crop Acres per Man			67.4	70.1	71.1
Crop Acres per Horse (With Tractor)			26.1	25.2	29.4
(Without Tractor)	_		18.5	20.7	20.0
Expense per \$100. gross income	\$ \$		63.70	48.00	90.90
Machinery Cost per Acre	\$		1.85	1.95	1.56
Building & Fencing cost per Acre	φ		•95	•97	•04
Gross Receipts per Acre	\$		18.05	24.73	10.93
Total Expenses per Acre	\$ \$		11.49	11.88	9.94
Net Receipts per Acre	\$		6.56	12.85	•99
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		Your farm	Average of 51 farms	17 most profitable farms	17 least profitable farms
1. 2. 3. 4. 5. 6.	Capital Investment - Total Land Farm Improvements Machinery and Equipment Feed and Supplies Livestock	\$ \$ \$ \$ \$ \$ \$ \$	31448 21508 4388 1261 1510 2781	30688 20875 4115 1200 1476 3022	32578 22810 4483 1266 1482 2537
7. 8. 9. 10.	Horses Cattle Sheep Swine Poultry	$\Theta \oplus \Theta \oplus \Theta$	451 1451 65 659 155	466 1620 14 778 144	404 1297 99 582 155
12. 13. 14. 15. 16.	Receipts - Net Increases - Total Feed and Grain Labor off Farm Miscellaneous Livestock - Total	\$\$ \$ \$ \$ \$ \$ \$	3251 189 22 45 2995	4273 624 31 52 3566	2351 169 23 58 2101
17. 18. 19. 20. 21. 22. 23.	Horses Cattle Sheep Swine Poultry Egg Sales Dairy Sales	ው ቀን ቀን ቀን ቀን ቀን <i>ቀ</i> ን	422 74 1444 93 164 798	643 19 1679 83 136 1006	370 116 1027 101 143 344
24. 25. 26.	Expenses - Net Decreases - Total Farm Improvements Livestock	\$ 69 69	1230 172 13	1290 170 20	1167 181 16
27. 28. 29. 30. 31. 32. 33.	Horses Cattle Sheep Swine Poultry Machinery and Equipment Feed and Supplies Livestock Expense other than to		332 57	339 62	335 42
35. 36. 37. 38.	Crop Expense Labor hired Taxes, Insurance, etc. Miscellancous	A 17 17	123 245 266 22	118 331 230 20	103 116 346 28
39. 40. 41.	Receipts less Expenses Operators & Unpaid Family Labor Net Income from Investment	\$ \$ \$	2021 840 1181	2983 762 2221	1184 970 214
42. 43. 44.	Farms with Tractor - Percent Value of land per Acre Total Investment per Acre	\$ \$	33.3% 120. 175.	41.2% 121. 177.	35.3% 106. 151.

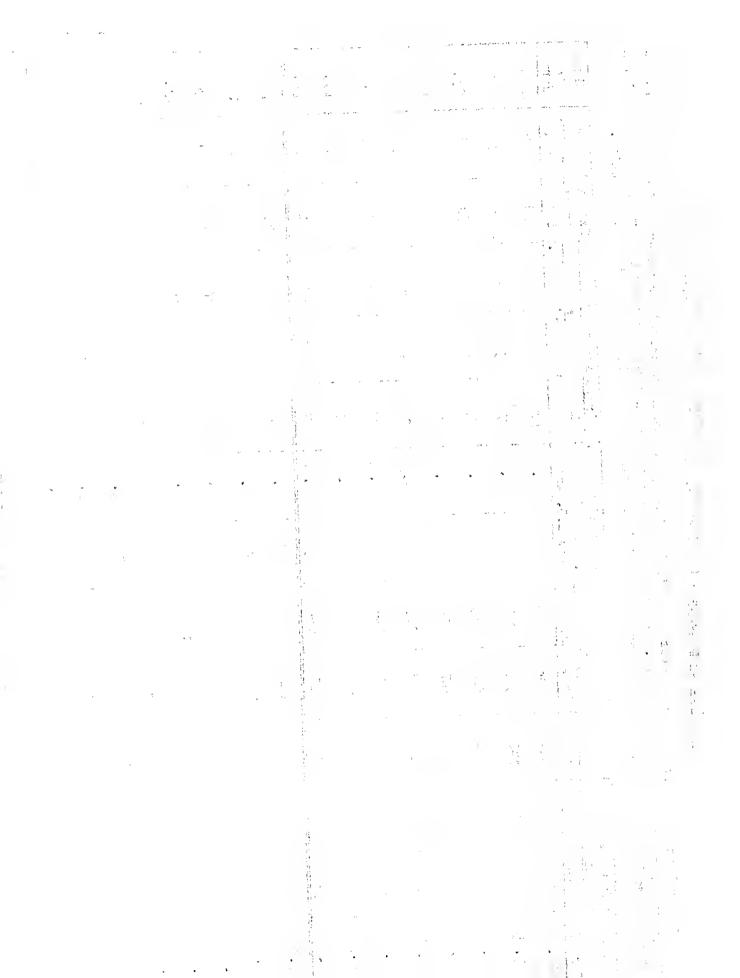
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Find Your Farm Leaks - (Jo Daviess, Stephenson, Ogle Counties - 1924)

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Size	Farm	285	270	255	540	225	210	195	180	165	150	135	120	105	96	22	09
Gross	per Acre	39	36	33	30	27	†₁2	21	18	15	12	6	9	3	0	0	0
Expensel	Income	29	34	39	*	64	찬	59	1 19	69	47	62	7,8	68	76	66	104
	Trac.	26	25	1 72	23	22	21	20	19	18	17	16	15	17	13	12	11
Acres p		04	. 38	36	34	32	30	28	56	5₽	22	20	18	16	1,4	12	10
Crops	***************************************	102	16	95	23	82	1.2	72	29	62	24	52	L†1	24	37	32	27
Man Lab.	. Acre	2,50	3.00	3.50	00°†	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8,00	8.50	00•6	9.50	10.00
Percent	-07				100	98	96	†6	92	96	100 100	98	†(8	82	80	78	92 .
	Poultry	569	254	239	22h	509	194	179	164	149	134	119	104	89	7/	59	4
rns per \$100 Invested in		362	337	312	287	262	237	212	187	162	137	112	87 .	62	37	12	- 13
Returns per Investe	Cattle	150	140	130	120	110	100	90	80	02	09	50	70	30	20	10	0
s per of	Oats	61	58	55	52	64	94	43	04	37	34	31	28	25	22	19	16
Bushels per Acre of		55	52	64	91	143	040	37	34	31	28	25	25	19	16	13	10
Rate	Earned	10.75	9.75	8.75	7.75	6.75	5.75	4.75	3.75	2.75	1.75	•75	25	1.25	.2.25	.3.25	-4.25



TOW TO STUDY YOUR FARM RECORD

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- 3. Returns from Livestock. One of the best measures of the efficiency of livestock, in these records, is the returns per \$100.00 invested. The returns per \$100.00 worth of feed fed any class of livestock, however, gives you more reliable information as to thether the efficiency of that class of livestock may be improved. You are urged, therefore, to beep the feed record on pages 38 and 39 of the farm account book, at least for the livestock from which you receive considerable income. As evidence of the wide variation in livestock efficiency on farms, cost accounts secured on 18 farms in the same community showed a range in the cost of feed in producing pork of \$4.18 to \$8.81 per 100 pounds gain in weight for the same year.

The per cent. of total receipts from livestock enables one to know how large a factor livestock is in determining the farm income. On some farms where livestock represented a considerable part of the income in 1925 the earnings were reduced due to the abnormal price situation. As compared with the five-year average of farm prices from 1909 to 1914 the prices of meat animals in 1924 were only 9% higher than for the five-year period, while the prices of grains were 29% and the prices of dairy products and eggs were 37% higher. This means that farms which were heavy producers



of meat animals in 1924 did not fare so well as they might expect to do on an average of a number of years when compared with either grain or dairy ferms. In spite of this fact the larger proportion of livestock returns on the better farms indicate that good livestock properly handled paid even under the adverse price situation.

Success with livestock, as with crop production, depends upon a number of factors among which the following should be noted: Raising a large per cent. of young animals, sanitation, prevention of disease, ability in buying and selling livestock, keeping animals of good quality, good feeding practices - especially the growing of sufficient legume forage to supply most of the protein requirements, careful purchasing of additional protein and mineral supplements when needed, and the economical use of roughage which is available on all farms.

Some men are more successful than others in handling livestock. It is not recommended that anyone quickly change his practice and suddenly go into extensive feeding or breeding operations. It is better to work gradually into the livestock business, building up either breeding or feeding operations as he finds that livestock is filling a place in his system of farming.

4. Use of Man and Horse Labor. One of the best measures of the use of labor is the number of crop acres worked per man or per horse when the farms are of the same general type. When the cost of man labor and horse labor are noted it emphasizes at once the importance of watching these items of expense and arranging the organization of the farm to make efficient use of labor.

Cost accounting data secured on 18 farms in the same community for the same year show that the net cost of keeping a work horse ranged from \$63.76 to \$124.15; or an average of \$93.08 per horse. When it is considered that a horse usually works about 20 acres of crops when a tractor is not employed, it means that herse labor costs will range from \$3.50 to over \$6.00 per acre on different farms. This wide range in the cost of horse labor is dependent not only on the number of acres handled with one horse, but also upon the economy with which the horse is fed and whether or not other items of expense are kept at a low figure. The careful planning of a rotation of crops is probably one of the best ways to reduce both man and horse labor costs. A rotation should be chosen so that as uniform an amount of man and horse labor is required from early spring until late fall as possible. Frequently the size of certain enterprises within the farm business may be adjusted ' to utilize the available family labor to advantage. Feeding down crops and keeping enough livestock to utilize labor during the seasons when farm work is light are other definite means of increasing the efficiency with which labor is used. Repeated study of farm records over the state indicate that occasionally a man may reduce the amount of both man labor and horse labor to a point where lower profits are secured from both crop and livestock enterprises because of a lack of well directed labor. It is usually found, however, that the more profitable farms not only secure larger yields per acre, but they handle a larger acreage per worker or per horse,

5. Expense per \$100. Gross Income. This is a measure of thrift in all parts of the farm business. It does not misrepresent a farm which has a large expense if the income is correspondingly high. However, it is a well-known principle in all business organization that expenses must be kept low in proportion to income if the business is to prove profitable. Cost accounts kept on 18 farms in the same community showed that the annual building expense per acre varied from \$1.42 to \$6.63 per acre; the annual expense for fences varied from \$.32 to \$2.36 per acre; and machinery and equipment expenses varied from \$.83 per acre to \$2.46. These data show how much more efficient some farmers are than others in keeping expenses low.

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Farmers who are most successful in keeping expenses low in proportion to the income plan their work so as to make the labor of themselves and members of the family as productive as possible. Enterprises are included in the farm business that utilize available labor at all seasons of the year. While they secure good varieties of seed, in so far as possible, they raise and prepare their own seed. Rainy days and off seasons are used to repair buildings, fences, machinery, and harness. This prolongs the life of equipment, saves in the purchase of new equipment and also saves paying out money for highly paid skilled labor. By having equipment in shape they also save the expense incident to delay in the busy season caused by broken machinery or fences, which might have been prevented by timely repair.

6. Size of Farm. In most types of farming there is a limit to the amount of product which can be profitably secured per acre. When one finds his farm is smaller than the more profitable farms in his locality and his income is low even though he has good crop yields and good returns from livestock, a weakness is frequently found in the small size of farm. This situation may be remedied by buying or renting additional land or changing the type of farming to a more highly intensive or specialized type which will bring a larger volume of production. It must be recognized, however, that some men have more ability than others in handling a large sized business. Some men may find their farm is considerably larger than the best paying farms, but the income is low because of too large an area handled from one point. Some farmers may find that they can secure a larger net profit by renting out some land and doing more efficient work on a smaller acreage. It is a wellknown principle of farm management that a farm must be large enough to utilize capital in the form of buildings, machinery and other equipment, and labor in an economical way. Just how large the farm should be, however, is a question which depends upon the ability of the operator himself as a manager.

Balanced Farming Pays

Each of the factors previously discussed plays a part in determining farm profits. Full success in farming requires that all parts of the farmer's business be given attention. One may have good crop yields and make good use of livestock, but receive a small net income because of inefficient use of labor. Or one may work a large acreage per man and per horse, but fail because of low crop yields or poor returns from livestock. A well balanced farm with a fair degree of efficiency along all lines brings the operator returns which will enable him to maintain a good standard of living for his family.

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ANNUAL FARM BUSINESS REPORT LASALLE COUNTY - 1924

Prepared by H.C.M.Case, M.L.Mosher, K.H.Myers*

The 34 farmers in your county who kept farm records in 1924 in the book prepared by the Extension Service earned a rate of 7.22% on an average investment of \$67,670 after figuring their own time at \$600 per year. These farms averaged 247.3 acres in size. The Labor and Management wage which represents what a man has left as pay for his own work and managing ability after paying all expenses and allowing 5 per cent. Interest on the total investment, amounted to \$2106 as an average for all farmers. The value of the food products furnished the home and the use of the iwelling house represents an income in addition to that shown. On 11 farms in Champaign and Piatt counties a careful record was kept of these two items, the value of which amounted to \$726 per farm at farm prices.

A comparison with other farmers in your community will help you to find at what point you can strengthen your farm. The tables on pages 2 and 3 show the average results of the 34 farms in comparison with those of more profitable and less profitable farms. The 11 most profitable farms earned 9.64% on the investment, while the least profitable group made 5.31%. Expressed as the Labor and Management wage, the better group made an average labor income of \$3348, while the least profitable group had \$763.1eft to pay the manager for his own labor and management, a difference of \$2785. In comparing the more profitable farms with the least profitable, it will be noted that there was little difference in the size of farm in the two groups, a fact which should be considered in comparing the efficiency with which equipment, machinery, and labor was used.

The records show that crop yields were fairly uniform on all the farms. Both groups had a considerable acreage in legume crops. The more profitable group had a little larger percentage of tillable land than the lower group. The more profitable farms received a 50% higher return for each \$100. invested in productive livestock, and also in each separate class of livestock. Both groups received about one-third of their income from livestock but the income was much larger on the more profitable farms. While there was little difference in the efficiency with which horse labor was used, the lower group worked more crop acres per man and had a lower man labor cost per acre. This should be considered in relation to the amount of livestock kept and the returns secured from livestock. It should be noted that the more profitable farms received a much larger income from livestock, especially dairy products, which demands more labor and decreases the number of acres one man can handle.

For every \$100 taken in, the 11 more profitable farms had an expense of \$34.29, while the least profitable farms had an expense of \$46.50. This may be due to any of a large number of items of cost. It may be due to low income as well as high expenses. Whatever it be due to, low expenses in relation to the gross income is essential to profitable farming. The more profitable farms received \$10.89 larger gross returns per acre and their expenses were only \$0.22 more than on the 11 least profitable farms, giving as a result the net receipts of \$26.05 as compared with \$15.38 on the lower group of farms.

^{*} W. W. McLaughlin and R. W. Cross, farm advisers in LaSalle County, cooperated in supervising and collecting the records used in this report.

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A detailed statement of the farm earnings is given on page 3, while on page 4 you will find a chart on which you may plot the results from your own farm which will show at what points your farm showed strength or weakness.

LA SALLE COUNTY

Factors helping to analyze	Your		Average of 34	profitable	_
the farm business	farm		farms	farms	farms
Rate Earned Labor & Management Wage	\$	%	7.22% \$ 2106.	9.64 3548.	5.31 763.
Size of Farm - Acres Crop Yields - Corn - Bushels Oats - Bushels Wheat - Bushels Percent of land area Tillable Percent of tillable land in legumes		6.0.60	247.3 41.8 54.7 27.2 91.0% 14.8%	235.2 41.9 55.0 27.7 95.8 13.5	226.8 42.8 51.3 24.6 89.7 17.4
Returns per \$100. invested in all productive livestock	\$		123.05	158.05	107.50
For \$100. in - Cattle - Swine - Poultry	\$ \$ \$		94.20 165.30 138.50	144.00 192.50 188.30	72.20 149.50 129.00
Per cent of gross income from livesto	ck	60	32.8	34.7	34.1
Man Labor Cost per Acre Crop Acres per Man Crop Acres per Horse(With Tractor) (Without Tractor) Expense per \$100 gross income Machinery Cost per Acre Building & Fencing cost per Acre	\$ \$ \$		5.92 76.3 28.0 20.3 39.52 2.36 1.39	6.73 82.1 28.8 20.8 34.29 2.69	5.62 91.9 29.8 17.1 46.50 2.61 1.77
Gross Receipts per Acre Total Expenses per Acre Net Receipts per Acre	999		32.67 12.91 19.76	39.64 13.59 26.05	28.75 13.37 15.38

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		Your fama	Average of 34 farus	ll most profitable faims	ll least profitable farms
1. 2. 3. 4. 5. 6.	Capital Investment - Total Land Farm Improvements Machinery and Equipment Feed and Supplies. Livestock	\$ \$ \$ \$ \$ \$ \$ \$	67670 57730 5786 2101 3205 28'48	63559 52577 3436 2156 3021 2569	65700 50118 8108 1987 2772 2715
7. 8. 9. 10.	Horses Cattle Sheep Swine Poultry	\$ 69 69 69 69 69	898 1101 178 551 120	799 1150 145 369 106	727 1001 149 693 145
12. 13. 14. 15. 16.	Receipts - Net Income - Total Feed and Grain Labor off farm Miscellaneous Livestock - Total	# # # # # #	8079 5347 50 32 2650	9323 6036 44 3 3240	6521 4241 35 20 2225
17. 18. 19. 20. 21. 22. 23.	Horses Cattle Sheep Swine Poultry Egg Sales Dairy Sales	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	464 259 1103 98 82 644	585 125 1091 186 63 1190	232 313 994 62 129 495
24. 25. 26.	Expenses - Net Decreases - Total Farm Improvements Livestock	\$ \$	2328 3 ¹ 4 ¹ 4 17	2213 233 23	2237 401 35
27. 28. 29. 30. 31. 32.	Horses Cattle Sheep Swine Poultry Machinery and Equipment Feed and Supplies Livestock Expense other than	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	585 62	633 43	593 84
35. 36. 37. 38.	Crop Expense Labor hired Taxes, Insurance, etc. Miscellaneous	\$\$ \$\$ \$\$ \$\$	247 599 438 36	257 600 383 41	214 479 395 36
39: 40: 41.	Receipts less Expenses Operators & Unpaid family labor Net Income from Investment	\$ 13 45	5751 865 4886	7110 934 6126	4284 795 3489
42. 43. 44.	Farms with Tractor - Percent Value of land per Acre Total Investment per Acre	% \$	64.7 217. 274.	72•7 223• 270•	5 ⁴ ·5 221. 290.

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Find Your Farm Leaks - (LaSalle County - 1924)

for the factors namedat the top of the page. By drawing a line across each column at the number measuring the efficiency The numbers just above the line across the middle of the page are approximately the average for your county of your farm in that factor, you can compare your efficiency with that of other farmers in your community.

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Size	124	387	267	347	327	307	287	267	247	227	207	187	167	147	127	107	87
Gross Recep.	per Ac	4/ 47	145	43	141	39	37	35	33	31	29	27	25	23	21	19	17
Expense per \$100	Income	(1/9	28	15	\BX	P	9	, A	1	37	17	海	(%) (%)	150 150	S	6T	16
er	No Trac.	23	92	25	54	23	- 22	21	50	19	18	17	16	15	1^{1}	13	12
Acres per Horse	Trac tor	715	140	38	36	34	32	30	28	26	ή2	22	20	18	16	1,4	12
Grops		132	124	116	108	100	92 88.4	₩8	92	د و8	09	52	‡	36	28	50	12
Man Lab. Cost per	. Acre	2.50	3.00	3.50	00°†	4.50	5.00	5.50	00.9	6.506.38	00°2	7.50	8,00	8.50	9.00	9.50	10.00
Percent Man Lab. Income Cost per	V2	82	75	88	61	54	<u>L</u>	0†	33	26	19	12	5	0	0	0	0
\$100 in	11try	279	259	239	219	199	179	159	139	119	66	79	5953	39	19	г . 1	-21
per	1 1	305	285	265	545	225	205	185	165	145	125	105	85	65	45	25	7
Returns Inve	Cattle	199	184	169	1.75	139	124	109	η6	79	64	64	34	19	. 	-11	-26
	Wheat	141	39	37 14	35	33	31	29	27	25	23	21	19	17	15	13	11
hels per Acre of	Oats	83	79	75	77 77	29	63	59	55	51	24	43	39	35	31	27	23
Bushels Acre	Corn 57	55	54	52	22	847	3	† +	7,12	011	38	36	34	32	30	23	56
Rate	Earned	14,25	13.25	12.25	11.25	10,25	9.25	8.25	7.25	6.25	5.25	4.25	3.25	2.25	1.25	0.25	-0.75

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HOW TO STUDY YOUR FARM RECORD

We shall endeavor in the following discussion to point out the importance of certain factors in their influence on the farm profits. Cost of production data will frequently be referred to. The cost of producing farm products has been studied during the past twelve years in different parts of Illinois. While your record does not permit determining the cost of producing separate products on your farm, the information from your farm does enable you to learn whether the different parts of your business correspond favorably with other farms in your community. A study of a group of farm records from any community always impresses one with the fact that each farmer can profit at some point from studying the results obtained by his more efficient farmer neighbors.

Different factors which we wish to call to your attention include the following:

- 1. Total Farm Earnings. These are shown first in terms of the rate earned on the total farm investment, and second, in terms of the Labor and Management wage. However, in studying the farm earnings you will be interested in noting the last three items on page 2 which show the wide differences between the one-third most profitable and the one-third least profitable farms in the gross receipts and the total expenses per acre, and in the resulting difference in the net receipts per acre. These wide differences in farm earnings call for an analysis of a number of different factors which affect the farm earnings. These factors are included in the following discussion in which we endeavor to point out why these different factors are of special importance.
- 2. Crop Yields. Good crop yields are one essential requirement for good incomes. Cost of production studies on 18 farms in one community showed that the cost of producing a bushel of corn varied from 39ϕ on one farm to 79ϕ per bushel on another farm for the same year. Similar differences occurred on other crops. A large part of the difference in cost is due to the difference in yield per acre. It is not uncommon to find a difference of 25ϕ a bushel in the cost of producing corn which can be attributed directly to the difference in the yield per acre since most items of cost do not increase as the yield increases. When crop yields are low one can well afford to study the practices of men who secure higher yields. In order to determine what is responsible for these differences attention should be given to the rotation of crops, quality and variety of seed, use of legumes and manure, use of limestone and phosphate where needed, preparation of seed bed, cultivation, protection from disease and insects, and drainage.
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Each of the factors previously discussed plays a part in determining farm profits. Full success in farming requires that all parts of the farmer's business be given attention. One may have good crop yields and make good use of livestock, but receive a small net income because of inefficient use of labor. Or one may work a large acreage per man and per horse, but fail because of low crop yields or poor returns from livestock. A well balanced farm with a fair degree of efficiency along all lines brings the operator returns which will enable him to maintain a good standard of living for his family.

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ANNUAL FARM BUSINESS REPORT

MACOUPIN, JERSEY, GREENE COUNTIES - 1924

Prepared by H.C.M. Case, M.L. Mosher, K.H. Myers*

The 41 farmers in these counties who kept farm records in 1924 in the book prepared by the Extension Service earned a rate of 4.63% on an average investment of \$25,401 after figuring their own time at about \$600 per year. These farms averaged 174.3 acres in size. The Labor and Management wage which represents what a man has left as pay for his own work and managing ability after paying all expenses and allowing 5 per cent interest on the total investment, amounted to \$432 as an average for all farmers. The value of the food products furnished the home and the use of the dwelling house represent an income in addition to that shown. On 11 farms in Champaign and Piatt counties a careful record was kept of these two items, the value of which amounted to \$726 per farm at farm prices.

A comparison with other farmers in your community will help you to find at what point you can strengthen your farm. The tables on pages 2 and 3 show the average results of the 41 farms in comparison with those of more profitable and less profitable farms. The 13 most profitable farms earned 10.32% on the investment, while the 13 least profitable farms lacked 2.18% of breaking even. Expressed as the Labor and Management wage, the better group made an average labor income \$2037 while the least profitable group lacked \$667, of having anything left to pay the manager for his own labor and management, a difference of \$2704. In comparing the more profitable farms with the least profitable it will be noted that the 13 more profitable farms averaged 25 acres larger in size, a fact which should be considered in comparing the efficiency with which buildings and fencing, equipment, machinery, and labor is used.

The table show that the more profitable farms had larger crop yields than the less profitable farms. The farms in the upper group had a higher percentage of the total land area tillable. Both groups had quite a large acreage of legume crops. The more profitable farms received a higher return for each \$100 invested in productive livestock. The same was true for each class of livestock with the exception of hogs. While they received only 61.3% of their gross income from livestock compared with 87.9% from that source in the lower group, their total income from livestock, and the income from the farm as a whole, was three times that of the lower group. The more profitable group of farms then, got larger crop yields, and better returns on the investment of livestock, and a larger total income from livestock than the less profitable farms. There was little difference in the number of crop acres handled per man or per horse. It will be noted that the dairy sales in the lighter group amounted to nearly four times as much as in the lower group. A large amount of livestock, especially dairy cattle, demand more labor, decreasing the number of acres one man can handle. The larger amounts of dairy products and the favorable prices received for these products as explained on page 5, probably helps in a large way to account for the better income from the better group of farms.

For every \$100 taken in, the 13 most profitable farms had an expense of \$5.43.56 while the 13 least profitable farms had an expense of \$124.60. This may be due to any one of a large number of items of cost. It may be due to low income as well as high expenses. Whatever it be due to, low expenses in relation to the gross income is essential to profitable farming. The more profitable farms received \$18.63 larger gross returns per acre and their expenses were \$0.50 less per acre than on the 13 least profitable farms, giving as a result the net receipts of \$16.51 per acre as compared with a loss of \$2.62 per acre on the 13 least profitable farms.

^{*}E.W. Rusk, R.L.Eyman, and E.M. Phillips, farm advisers in Macoupin, Jersey, and Greene counties respectively, cooperated in supervising and collecting the records used in this report.

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Macoupin, Jersey, Greene Counties

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Factors holping to	Your	Average	13 most	13 loast
analyze	i .	of 41	profitable	profitable
the farm business	farm	farms	farms	farms
Rate Earned Labor & Management Wage	\$ %	4.63/s \$402.	10.32 2037	- 2.13 -667
Size of Farm - Acres Crop Yields - Corn - Bushels Oats - Bushels Wheat - Bushels Percent of land area Tillable Percent of tillable land in legumes	5/3 1/6	174.3 31.1 34.5 7.2 83.4/3 13.0/3	170.6 37.8 37.7 9.3 88.9 15.5	145.9 19.3 30.6 5.4 79.1 16.3
Returns per \$100. invested in all productive livestock	\$	\$136.20	140.35	138.00
For \$100. in - Cattle - Swine - Peultry	\$ 9.49	\$100.30 \$218.30 \$205.00	134.60 183.85 205.00	90.20 202.10 195.90
Percent of gross Income from Livestock	5/0	71.2%	61.3	37.9
Man Labor Cost per Acre Crop Acres per Man Crop Acres per Horse	Ç	\$ 6.65 61.6 .17.7	7.04 60.7 16.5	6.33 57.2 16.3
Expense per \$100. gross Income Machinery Cost per Acre Building & Fencing cost per Acre	\$ \$ \$	\$ 63.75 \$ 1.59 \$.77	43.56 2.00 .75	124.60 1.56 .85
Gross Receipts per Acre Total Expenses per Acre Net Receipts per Acre	\$	\$ 18.61 \$ 11.37 \$ 6.74	29.26 12.75 16.51	10.63 13.25 - 2.62

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-3Macoupin, Jersey, and Greene Counties.

	Your Farm	Average of 41 farms	13 most profitable farms	13 least profitable farms
Capital Investment - Total 2. Land 3. Farm Improvements 4. Machinery and Equipment 5. Feed and Supplies 5. Livestock	\$	25,401 13,084 2,728 1,054 1,498 2,037	27,314 19,216 3,290 1,184 1,402 2,222	17,462 11,360 2,036 1,019 1,639 1,403
7. Horses 8. Cattle 9. Sheep 10. Swins 11. Poultry	\$\$ \$\$ \$\$ \$\$	462 993 42 410 130	593 1037 18 431 143	357 543 20 356 132
12. Receipts - Net Increases 13. Feed and Grain 14. Labor off Farm 15. Miscellaneous 16. Livestock - Total	Total	3245 783 75 76 2311	4993 1783 118 29 3063	1552 91 97 1364
17. Horses 18. Cattle 19. Sheep 20. Swine 21. Poultry 22. Egg Sales 23. Dairy Sales	ক্ত কে কে কে কে কে	3 232 87 913 125 149 802	57 249 151 970 128 167 1341	114 32 581 119 145 373
24. Expenses - Net Decreases - 25. Farm Improvements 26. Livestock	- Total	1263 137	1388 128	1132 125 44
27. Horses 28. Cattle 29. Sheop 30. Swine	\$\tau_{\text{c}} \tau_{\text{c}} \tau_{c			44
31. Poultry 32. Machinery and Equipment 33. Feed and Supplies 34. Livestock Expense other 35. Crop Expenses 36. Labor hired 37. Taxes, Insurance, etc. 38. Miscellaneous	\$ \$	278 49 194 353 218 34	341 60 122 414 262 61	228 42 44 270 194 165 20
39. Receipts less Expenses 40. Operator's and Unpaid Fami 41. Net Income from Investment		1982 806 1176	3605 787 2818	420 802 -382
42. Farms with Tractor - Perece 43. Value of land per Acre 44. Total Investment per Acre	ent \$	31.7 104. 146.	30.8 113. 160.	23.1 78. 120.

. e i **** . . Find Your Farm Leaks - (macoupting total)

for the factors named at the top of the page. By drawing a line across each column at the number measuring the effi-The numbors just above the line across the middle of the page are approximately the average for your county ciency of your farm in that factor, you can compare your efficiency with that of other farmers in your community.

Dug	704		Returns	per	0010	Percent		Crops Ac	54	nse	Gross	5126
0 4	Dushers per Acre of		In	ested	in	Income	ပိ	Man	Horse		несер.	ŗ
	Oats	Wheat	Cattle	Hogs	Poultry	from L.S.	Acro			Income	per Acre	Farm
	49	2014	306	323	345	1 1	3.25	26	32	ω	40	280
	47	13	161	308	325	100	3.75	36	30	16	37	265
	45	12	175	293	305	98	4.25	87	28	24	34	250
	43	11	191	278	285	16	4.75	82	200	32	31	235
	4	10	146	263	\$3 50 51	98	5,25	22	24	70	23	220
	60	6	131	27	2.45	81	5.75	72	22	2	25	202
	37	ω	116	233	225	92	6.25	6.7	20	56	22	190
	35	7	101	218	205	7.1	6.75	62	18	Ç,	19	175
1	33	9	86	203	165	99	7.25	57	16	7.2	16	160
	31		71	158	165	61	7.75	52	4	80	13	145
	29	च +	56	173	145	56	8.25	47	75	88	10	130
	27	г	41	158	125	51	8.75	₹ €8	10	96	7	115
	25	cs	26	143	201	76	9,25	37	80	104	4	100
	23		11	128	ထ ည		9.75	32	·o	112	ч	80
	21	0	e)i	113	65	36	10.25	27	4,	120	0	70
	1.9	0	-19	98	45	31	10.75	22	23	128	0	55

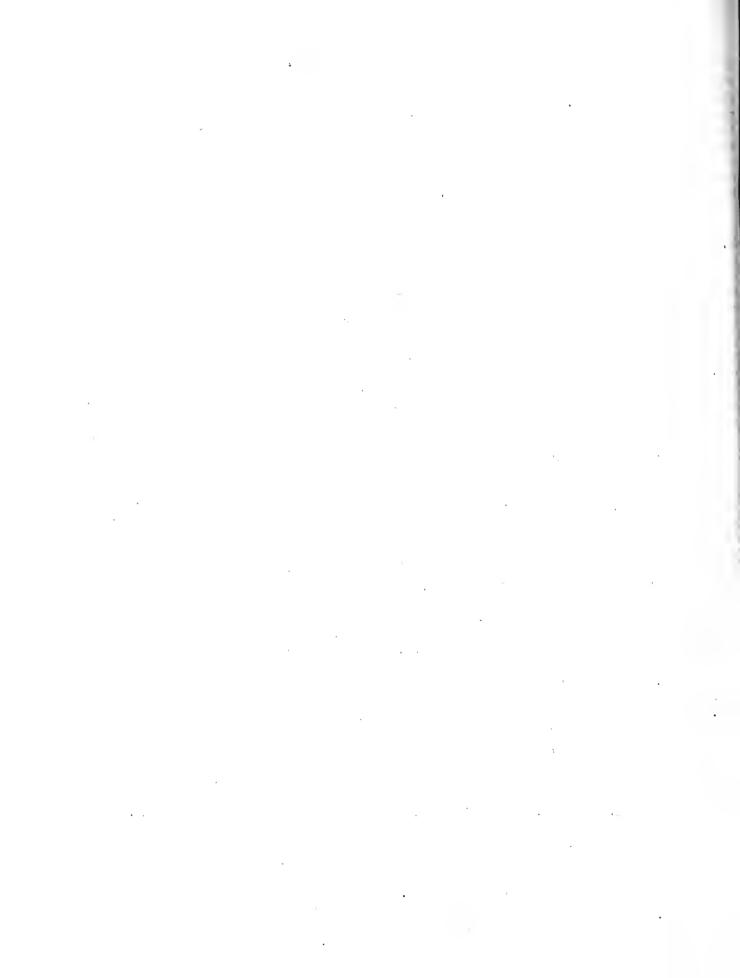


We shall endeavor in the following discussion to point out the importance of certain factors in their influence on the farm profits. Cost of production data vill frequently be referred to. The cost of producing farm products has been studied during the past twelve years in different parts of Illinois. While your record does not permit determining the cost of producing separate products on your farm, the information from your farm does enable you to learn whether the different parts of your business correspond favorably with other farms in your community. A study of a group of farm records from any community always impresses one with the fact that each farmer can profit at some point from studying the results obtained by his more efficient farmer neighbors.

Different factors which we wish to call to your attention include the following:

- l. Total Farm Earnings. These are shown first in terms of the rate earned on the total farm investment, and second, in terms of the Labor and Management wage. However, in studying the farm earnings you will be interested in noting the last three items on page 2 which show the wide differences between the one-third most profitable and the one-third least profitable farms in the gross receipts and the total expenses per acre, and in the resulting difference in the net receipts per acre. These wide differences in farm earnings call for an analysis of a number of different factors which affect the farm earnings. These factors are included in the following discussion in which we endeavor to point out why these different factors are of special importance.
- 2. Crop Yields. Good crop yields are one essential requirement for good incomes. Cost of production studies on 18 farms in one community showed that the cost of producing a bushel of corn varied from 39¢ on one farm to 79¢ per bushel on another farm for the same year. Similar differences occurred on other crops. A large part of the difference in cost is due to the difference in yield per acre. It is not uncommon to find a difference of 25¢ a bushel in the cost of producing corn which can be attributed directly to the difference in the yield per acre since most items of cost do not increase as the yield increases. When crop yields are low one can well afford to study the practices of men who secure higher yields. In order to determine what is responsible for these differences attention should be given to the rotation of crops, quality and variety of seed, use of legumes and manure, use of limestone and phosphate where needed, preparation of seed bed, cultivation, protection from disease and insects, and drainage.
- 3. Returns from Livestock. One of the best measures of the efficiency of livestock, in these records, is the returns per \$100.00 invested. The returns per \$100.00 worth of feed fed any class of livestock, however, gives you more reliable information as to whether the efficiency of that class of livestock may be improved. You are urged, therefore, to keep the feed record on pages 38 and 39 of the farm account book, at least for the livestock from which you receive considerable income. As evidence of the wide variation in livestock efficiency on farms, cost accounts accured on 18 farms in the same community showed a range in the cost of feed in producing pork of \$4.18 to \$8.81 per 100 pounds gain in weight for the same year.

The per cent. of total receipts from livestock enables one to know how large a factor livestock is in determining the farm income. On some farms where livestock represented a considerable part of the income in 1924 the earnings were reduced due to the abnormal price situation. As compared with the five-year average of farm prices from 1909 to 1914 the prices of meat animals in 1924 were only 9% higher than for the five-year period, while the prices of grains were 29% and the prices of dairy products and eggs were 37% higher. This means that farms which were heavy producers of meat animals in 1924 did not fare so well as they might



expect to do on an average of a number of yours when compared with either grain or dairy farms. In spite of this fact the larger proportion of livestock returns on the better farms indicate that good livestock proporly handled paid even under the adverse price situation.

Success with livestock, as with crop production, depends upon a number of factors among which the following should be noted: Raising a large per cent. of young animals, sanitation, prevention of disease, ability in buying and selling livestock, keeping animals of good quality, good feeding practices - especially the growing of sufficient legume forage to supply most of the protein requirements, careful purchasing of additional protein and mineral supplements when needed, and the economical use of roughage which is available on all farms.

Some men are more successful than others in handling livestock. It is not tecommended that anyone quickly change his practice and suddenly go into extensive feeding or breeding operations. It is better to work gradually into the livestock business, building up either breeding or feeding operations as he finds that livestock is filling a place in his system of farming.

4. Use of Man and Horse Labor. One of the best measures of the use of labor is the number of crop acres worked per man or per horse when the farms are of the same general type. When the cost of man labor and horse labor are noted it emphasizes at once the importance of watching these items of expense and arranging the organization of the farm to make efficient use of labor.

Cost accounting data secured on 18 farms in the same community for the same year show that the net cost of keeping a work horse ranged from \$63.76 to \$124.15; or an average of \$93.08 per horse. When it is considered that a horse usually works about 20 acres of crops when a tractor is not employed, it means that horse labor costs will range from \$3.50 to over \$6.00 per acre on different farms. This wide range in the cost of horse labor is dependent not only on the number of acres handled with one horse, but also upon the economy with which the horse is fed and whether or not other items of expense are kopt at a low figure. The careful planning of a rotation of crops is probably one of the best ways to reduce both man and horse labor costs. A rotation should be chosen so that as uniform an amount of man and horse labor is required from early spring until late fall as possible. Frequently the size of certain enterprises within the farm business may be adjusted to utilize the available family labor to advantage. Feeding down crops and keeping enough livestock to utilize labor during the seasons when farm work is light are other definite means of increasing the efficiency with which labor is used. Repeated study of farm records over the state indicate that occasionally a man may reduce the amount of both man labor and horse labor to a point where lower profits are secured from both crop and livestock enterprises because of a lack of well directed labor. It is usually found, however, that the more profitable farms not only secure larger yields per acre, but they handle a larger acreage per worker or per horse.

5. Expense per \$100. Gross Income. This is a measure of thrift in all parts of the farm business. It does not misrepresent a farm which has a large expense if the income is correspondingly high. However, it is a well-known principle in all business organization that expenses must be kept low in proportion to income if the business is to prove profitable. Cost accounts kept on 18 farms in the same community showed that the annual building expense per acre varied from \$1.42 to \$6.63 per acre; the annual expense for fences varied from \$3.32 to \$2.36 per acre, and machinery and equipment expenses varied from \$3.83 per acre to \$2.46. These data show how much more efficient some farmers are than others in keeping expenses low.

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Farmers who are most successful in keeping expenses low in proportion to the income plan their work so as to make the labor of themselves and members of the amily as productive as possible. Enterprises are included in the farm business that utilize available labor at all seasons of the year. While they secure good varieties of seed, in so far as possible, they raise and prepare their own seed. Rainy days and off seasons are used to repair buildings, fences, machinery, and harness. This prelongs the life of equipment, saves in the purchase of new equipment and also saves paying out money for highly paid skilled labor. By having equipment in shape they also save the expense incident to delay in the busy season caused by broken machinery or fences, which might have been prevented by timely repair.

6. Size of Farm. In most types of farming there is a limit to the amount of product which can be profitably secured per acre. When one finds his farm is smaller than the more profitable farms in his locality and his income is low even though he has good crop yields and good returns from livestock, a weakness is frequently found in the small size of farm. This situation may be remedied by buying or renting additional land or changing the type of farming to a more highly intensive or specialized type which will bring a larger volume of production. be rocognized, however, that some men have more ability than others in handling a large sized business. Some men may find their farm is considerably larger than the best paying farms, but the income is low because of too large an area handled from one point. Some farmers may find that they can secure a larger not profit by renting out some land and doing more efficient work on a smaller acreage. It is a wellknown principle of farm management that a farm must be large enough to utilize capital in the form of buildings, machinery and other equipment, and labor in an economical way. Just how large the farm should be, however, is a question which depends upon the ability of the operator himself as a manager.

Balanced Farming Pays.

Each of the factors previously discussed plays a part in determining farm profits. Full success in farming requires that all parts of the farmer's business be given attention. One may have good crop yields and make good use of livestock, but receive a small net income because of inefficient use of labor. Or one may work a large acreage per man and per horse, but fail because of low crop yields or poor returns from livestock. A well balanced farm with a fair degree of efficiency along all lines brings the operator returns which will enable him to maintain a good standard of living for his family.



ANNUAL FARM BUSINESS REPORT

MONROE, RANDOLPH COUNTIES - 1924

Prepared by H.C.M. Case, M.L. Mosher, K.H. Myers*

The 23 farmers in these two counties who kept farm records in 1924 in the book prepared by the Extension Service earned a rate of 4.99% on an average investment of \$16,207 after figuring their own time at about \$550 per year. These farms averaged 175 acres in size. The Labor and Management wage which represents what a man has left as pay for his own work and managing ability after paying all expenses and allowing 5 per cent interest on the total investment, amounted to \$540 as an average for all farmers. The value of the food products furnished the nome and the use of the dwelling house represent an income in addition to that shown. On 11 farms in Champaign and Piatt counties a careful record was kept of these two items, the value of which amounted to \$725 per farm at farm prices.

By comparing your own record with the average results of the 23 farms in Monroe and Randolph counties on which records were kept last year you may find at what point you can strengthen the organization of your own farm. The tables on pages 2 and 3 show the average results of the 23 farms and the results of your farm. These tables will help you to analyze your own record.

The results of several years of study of a large number of records similar to your own, show that a few factors determine, to a large extont, the net farm income, (1) Good crop yields are necessary to secure a good income. On these farms, while the average wheat yield was 12.6 bushels per acre, the individual farms showed a range of from 5 to 35 bushels. Corn and oats also showed wide differences. (2) Returns per \$100 invested in productive livestock is a comparative measure of the efficiency of livestock. This measure showed a range on these farms of from \$43 to \$270 income for each \$100 invested. The percent of total income from livestock shows the importance of livestock in the system of farming followed. Records over a period of years show that as an average, farms on which a considerable part of the grain crops is marketed through livestock return a better income than those on which little livestock is kept. Last year was an exception to this in some instances since the grain farmer in many areas earned more than the livestock man, with the possible exception of dairymen. The explanation of this as given on page 5, shows this to be an abnormal situation. The one year's results should not be made the basis for changes in the system of farming followed unless supported by other reliable data, secured over a long period of time. (3) The efficiency of man and horse labor is measured in terms of crop acres per man or per horse. these farms this varied from 55 to 110 acres worked per man and from 9 to 44 acres worked per horse. Tho type of farming followed must be considered in comparing these factors but it is evident that there are wide differences in the efficiency with which different men operate their farms. (4) The expense per \$100 gross income is a measure of the relation of expense to income. This varied from $\citie{1}39$ to \$170 in this area. To make a more detailed comparison of this item such things as man labor cost per acre, machinery cost per acre, and buildings and fencing cost per acre may be compared. Whatever it be due to, low expense in relation to the gross income is essential to profitable farming. A detailed statement of the farm

^{*}P. G. Ewald and E. C. Secor, farm advisers in Monroe and Randolph counties respectively, cooperated in supervising and collecting the records used in this report.

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parnings is given on page 3, while on page 4 you will find a chart on which you may plot the results from your own farm which will show at what points your farm showed strength or weakness.

Monroe, Randolph Counties.

Factors helping to analyzo the farm business		ur rn	Averago of 23 farms
Rate Earned Labor & Management Wage	ఫీ	%	4.99% \$ 540.
Size of Farm - Acres Crop Yields - Corn - Bushels Oats - Bushels Wheat - Bushels Percent of land area Tillable Percont of tillable land in legumes		e1 10 11	175.0 30.4 23.0 12.3 77.9% 21.2%
Returns per \$100. invested in all productive livestock	Ş		\$ 142.00
For \$100. in - Cattle - Swine - Poultry	\$ \$\$ \$		\$ 113.50 \$ 166.75 \$ 203.75
Percent of gross Income from Livestock		70	38.3%
Man Labor Cost per Acro Crop Acres per Man Crop Acres per Horse	\$		5.95 64.6 21.0
Expense per \$100 gross income Machinery Cost per Acre Building & Fencing cost per Acre	\$ \$ \$ \$ \$ \$ \$		\$ 69.50 \$ 1.87 \$.63
Gross Receipts per Acre Total Expense per Acre Net receipts per Acre	୍ଦ୍ରକ୍ତ ବ୍ର		\$ 15.11 \$ 10.50 \$ 4.61

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Monroe, Randolph counties

	Your	Average
	farn	of 23 farms
 Capital Investment - Total Land Farm Improvements Machinery and Equipment Feed and Supplies Livostock 	\$\$ \$\$ \$\$ \$\$ \$\$	\$ 16207 10713 2037 1210 1131 1063
7. Horses 8. Cattle 9. Sheep 10. Swine 11. Poultry	وړۍ درن نورته درن نوره	366 364 17 132 144
12. Receipts - Net Increases - Total 13. Feed and Grain 14. Labor off Farm 15. Miscellaneous 16. Livestock - Total	40 - CD - CD - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 4	\$ <u>2644</u> 1501 37 94 1012
17. Horses 18. Cattle 19. Sheep 20. Swine 21. Poultry 22. Egg Sales 23. Dairy Sales	وي دري دري دري وي وي	106 2 262 103 196 343
24. Expenses - Net Decreases - Total25. Farm Improvements26. Livestock	<u>့်</u> ့	\$ 931 119 13
27. Horses 28. Cattle 29. Sheep 30. Swine	٥٠	13
31. Poultry 32. Machinery and Equipment 33. Feed and Surplies 34. Livestock Expense other than feed 35. Crop Expense 36. Labor hired 37. Taxes, Insurance, etc. 38. Miscellaneous	\$\tag{\tag{\tag{\tag{\tag{\tag{\tag{	323 11 165 135 149
39. Receipts less Expenses 40. Operators and Unpaid Family Labor 41. Net Income from Investment	\$	\$ <u>1713</u> 907 806
42. Farms with Tractor - Percent 43. Value of land per Acre 44. Total Investment per Acre	\$ \$	43.5 62. 93.

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Find Your Farm Leaks - (Monroe, Randolph Counties - 1924)

The numbers just above the line across the middle of the page are approximately the average for your county for the factors named at the top of the page. By drawing a line across each column at the number measuring the efficioncy of your farm in that factor, you can compare your officiency with that of other farmers in your community.

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Rate	Earned	12.00	11,00	10.00	3,00	3.00	2.00	ō. 00	5.00	4 00	3,00	2,00	00 7	00,	-1.00	-2.00	-3.00
Bus Ac	Corn	51	43	45	42	39	36	33	30	27	८ ४ स	21	13	15	12	თ	9
Bushels per Acre of	Oats	49	46	43	40	37	34	31	28	25	22	7.9	16	13	10	7	4
Į	Wheat	20	19	13	17	16	15	14	13	12	11	10	6	ස -	7	9	Ω.
Return Inv	Cattle	184	174	164	154	144	134	124	114	104	94	84	74	29	57	47	37
	Hogs	237	227	217	207	197	1.87	177	167	157	147	137	127	11.7	107	26	87
	Poultry	309	294	279	264	249	234	219	204	189	174.	159	144	129	114	66	84
Percent Income	from L.S.	73	68	63	58	53	54	43	38	33	23	23	18	13	ထ	က	0
Man Lab. Cost per	Acre	2.50	3.00	3.50	4.00	4.50	5.00	5.50	00•9	6.50	7,00	7.50	8.00	8.50	00.6	9,50	10.00
Crop		110	95	06	35	80	75	70	65	09	55	20	45	40	35	30	25
Acres per Horse		35	33	31	29	27	25	82	21	19	17	12	ا ع	11	o,	7	5
0	Income	14	22	30	38	46	54	62	70	78	36	94	102	110	118	126	134
Gre	per Acre	29	27	25	23	23	19	1.7	15	13	77	თ	7	ഹ	ന	Н	0
Size	Farm	230	265	250	235	220	205	190	175	160	145	130	115	100	35	70	55

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TOW TO STUDY YOUR FARM RECOAD

We shall endeavor in the following discussion to point out the importance of certain factors in their influence on the farm profits. Cost of production data will frequently be referred to. The cost of producing farm products has been studied during the past twelve years is different parts of 111 noise. Unite your record does not permit determining the cost of producing separate products on your farm, the information from your farm does enable you to learn whether the different parts of your business correspond favorably with other forms in your community. A study of a group of farm records from envise counity always improves one with the fact that each farmer can profit at some point from equiving the results obtained by his more efficient farmer neighborn.

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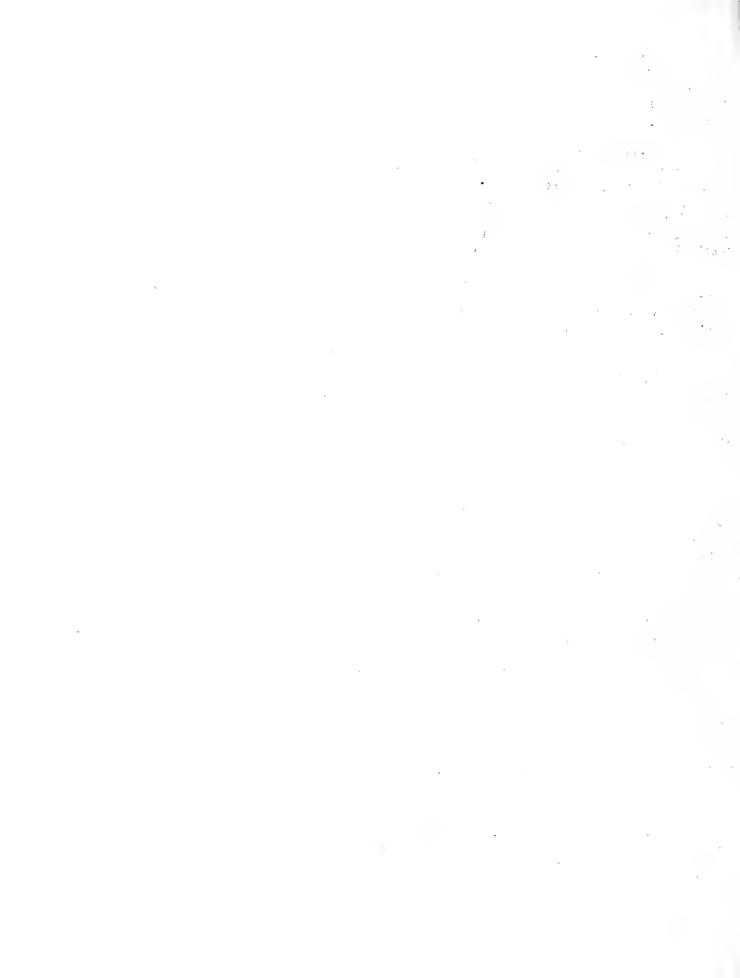
Success with livestock, as with crop production, depends upon a number of factors among which the following should be noted: Raising a large per cent. of young animals, sanitation, prevention of disease, ability in buying and selling livestock, keeping animals of good quality, good feeding practices - especially the graving of sufficient legume forage to supply most of the protein requirements, careful purchasing of additional protein and mineral supplements when needed, and the economical use of roughage which is available on all forms.

Some men are more successful than others in handling livestock. It is not recommended that anyone quickly charge his practice and suddenly go into extensive feeding or breeding operations. It is better to work gradually into the livestock business, building up either breeding or feeding operations as he finds that livestock is filling a place in his system of forming.

4. Use of Man and Horse Lobor. One of the bost measures of the use of labor is the number of crop ecres worked per man or por horse when the farms are of the same general type. When the cost of man labor and horse labor are noted it emphasizes at once the importance of matching these items of expense and arranging the organization of the form to make efficient use of labor.

Cost accounting data secured on 18 farms in the same community for the same year show that the net cost of keeping a work horse ranged from \$63.76 to \$124.15; or an average of \$93.08 per horse. When it is considered that a horse usually works about 20 acres of crops when a tractor is not employed, it means that horse labor costs will range from \$5.50 to over \$6.00 per acre on different farms. This wide range in the cost of horse lator is dependent not only on the number of acres handled with one horse, but also upon the economy with which the horse is fed and whether or not other items of expense are kept at a low figure. The careful planning of a rotation of crops is probably one of the best mays to reduce both man and horse labor costs. A rotation should be chosen so that as uniform an emount of man and horse labor is required from early spring until late fall as possible. Frequently the size of certain enterprises within the farm business may be adjusted to utilize the available family labor to advantage. Feeding down crops and heeping enough livestock to utilize labor during the seasons when farm work is light are other definite means of increasing the efficiency with which labor is used. Repeated study of farm records over the state indicate that occasionally a man may reduce the amount of both man labor and horse labor to a point where lower profits are secured from both crop and livestock enterprises because of a lack of well directed labor. It is usually found, however, that the more profitable forms not only secure larger yields per some, but they handle a larger someoge per worker or per horse.

5. Expense per \$100. Gross Income. This is a measure of thrift in all parts of the farm business. It does not misrepresent a farm which has a large expense if the income is correspondingly high. However, it is a well-known principle in all business organization that expenses must be kept low in proportion to income if the business is to prove profitable. Jost accounts kept of 18 farms in the same community showed that the annual building expense per acre varied from \$1.42 to \$6.63 per acre; the annual expense for fences varied from \$.32 to \$2.36 per acre; and machinery and equipment expenses varied from \$.83 per acre to \$2.46. These data show how much more efficient some farmers are than others is keeping expenses low.



Farmers who are most successful in keeping expenses low in proportion to the income plan their work so as to make the labor of themselves and members of the family as productive as possible. Enterprises are included in the farm business that utilize available labor at all seasons of the year. While they secure good varieties of seed, in so far as possible, they raise and prepare their own seed. Rainy days and off seasons are used to repair buildings, fences, machinery, and harness. This prolongs the life of equipment, saves in the purchase of new equipment and also saves paying out money for highly paid skilled labor. By having equipment in shape they also save the expense incident to delay in the busy season caused by broken machinery or fences, which might have been prevented by timely repair.

6. Size of Farm. In most types of farming there is a limit to the amount of product which can be profitably secured per acre. When one finds his farm is smaller than the more profitable farms in his locality and his income is low even though he has good crop yields and good returns from livestock, a weakness is frequently found in the small size of farm. This situation may be remedied by buying or renting additional land or changing the type of farming to a more highly intensive or specialized type which will bring a larger volume of production. It must be recognized, however, that some men have more ability than others in handling a large sized business. Some men may find their form is consider bly larger than the best paying farms, but the income is 10% because of too large an area handled from one point. Some farmers may find that they can secure a larger net profit by renting out some land and doing more efficient work on a smaller acreage. It is a wellknown principle of farm management that a farm must be large enough to utilize capital in the form of buildings, machinery and other equipment, and labor in an economical way. Just how large the farm should be, however, is a question which depends upon the ability of the operator himself as a manager.

Balarced Farming Pays.

Each of the factors previously discussed plays a part in determining farm profits. Full success in farming requires that all parts of the farmer's business be given attention. One may have good crop yields and make good use of livestock, but receive a small net income because of inelficient use of labor. Or one may work a large acreage per man and per horse, but fail because of low crop yields or poor returns from livestock. A well balanced form with a fair degree of efficiency along all lines brings the operator returns which will enable him to maintain a good standard of living for his family.

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ANNUAL FARM BUSINESS REPORT

SALINE, GALLATIN COUNTIES - 1924

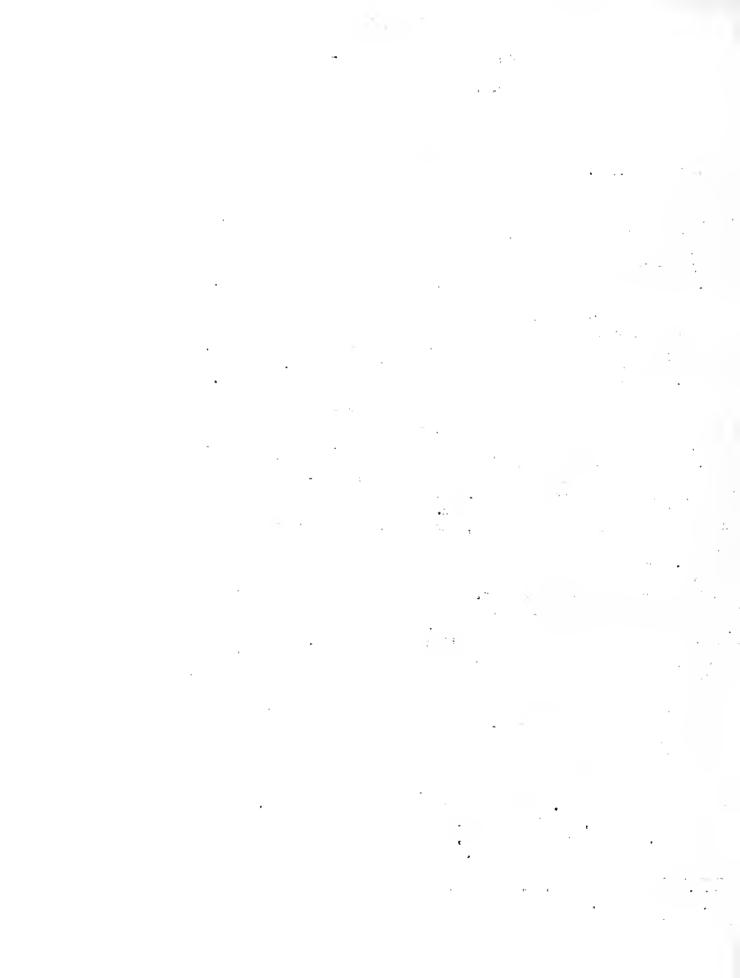
Prepared by H.C.M. Caso, M.L. Mosher, K.H. Myers*

The 17 farmers in these two counties who kept farm records in 1924 in the book prepared by the Extension Service earned a rate of 5.43% on an average investment of \$22.764. afterfiguring their own time at about \$475. per year. Those farms averaged 177 acres in size. The Labor and Management wage which represents what a man has left as pay for his own work and managing ability after paying all expenses and allowing 5 per cent interest on the total investment, amounted to \$569 as an average for all farmers. The value of the food products furnished the home and the use of the dwelling house represent an income in addition to that shown. On ll farms in Champaign and Piatt counties a careful record was kept of these two items, the value of which amounted to \$726 per farm at farm prices.

By comparing your own record with the average results of the 17 farms in Saline and Gallatin counties on which records were kept last year, you may find at what points you can strengthen the organization of your own farm. The tables on pages 2 and 3 show the average results of the 17 farms, and the results from your own farm. These tables should help you to analyze your own record.

The results of several years of study of records similar to your own, show that a few important factors determine, to a large extent the size of the net farm income. (1) Good crop yields are necessary to secure a good income. On these 17 farms, while the average corn yield was 35.0 bushels per acre, the individual farms show a range of from 11 bushels to 60 bushels per acre. ther crops showed similar differences. (2) Returns per (100. invested in productivelivestock is a comparative measure of the efficiency of livestock. On those farms a variation of from \$69 to \$347 return for each \$100 invested, was found. The percent of total income which livestock represents shows the importance of livestock in the system of farming followed. Records over a period of years show that farms on which a considerable part of the grain is marketed through livestock return a botter income than those on which little livestock is kept. Last year was an exception to this on some farms since in many grain farmers earned a better income than the livestock man, with the possible exception of dairymen. The explanation of this as given on page 5 shows this to be an abnormal condition due to prices. No changes should be made in the system of farming followed, on the basis of the one year's records, unless supported by other reliable data secured over a longer period of time. (3) The efficiency of man and horse labor is measured in terms of crop areas per man and per horse. This varied from 36 to 110 acres worked per man, and from 8 to 25 acres worked per horse on these farms. The type of farming followed must be considered in comparing these factors but it is evident that there are wide differences in the efficiency with which different men operate their farms. (4) The expense per \$100 gross income is a measure of the relation of expense to income. This variod on these farms from \$32 to \$98 last year. This difference may be due to any of a large number of factors. To make a more detailed comparison, such things as man labor cost per acre, machinery cost, and buildings and fencing cost per acre may be compared. Whatover it be due to, low expenses in relation to the gross income is essential to profitable farming.

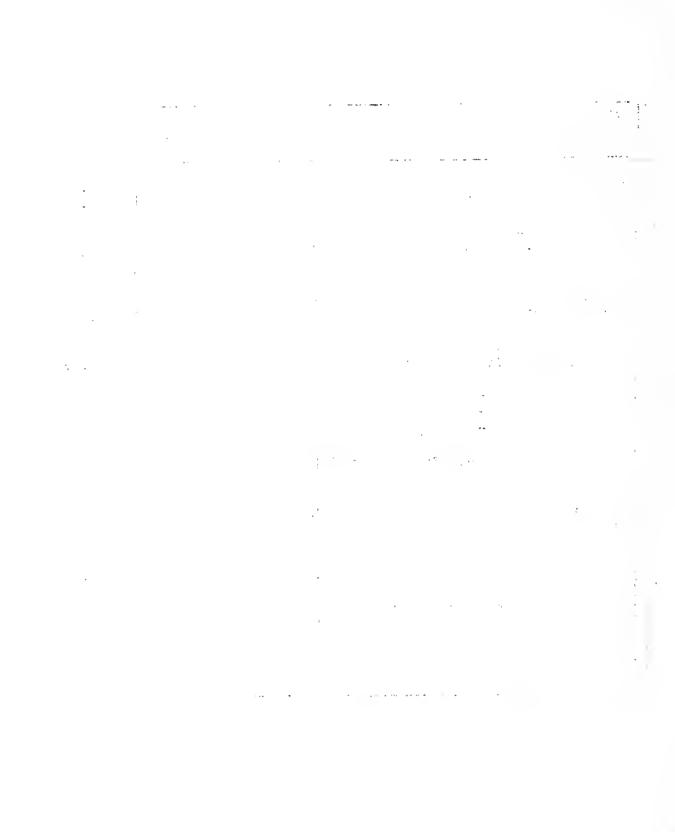
^{*} J.E. Whitchurch and C. W. Simpson, farm advisers in Saline and Gallatin counties, respectively, cooperated in supervising and collecting the records used in this report.



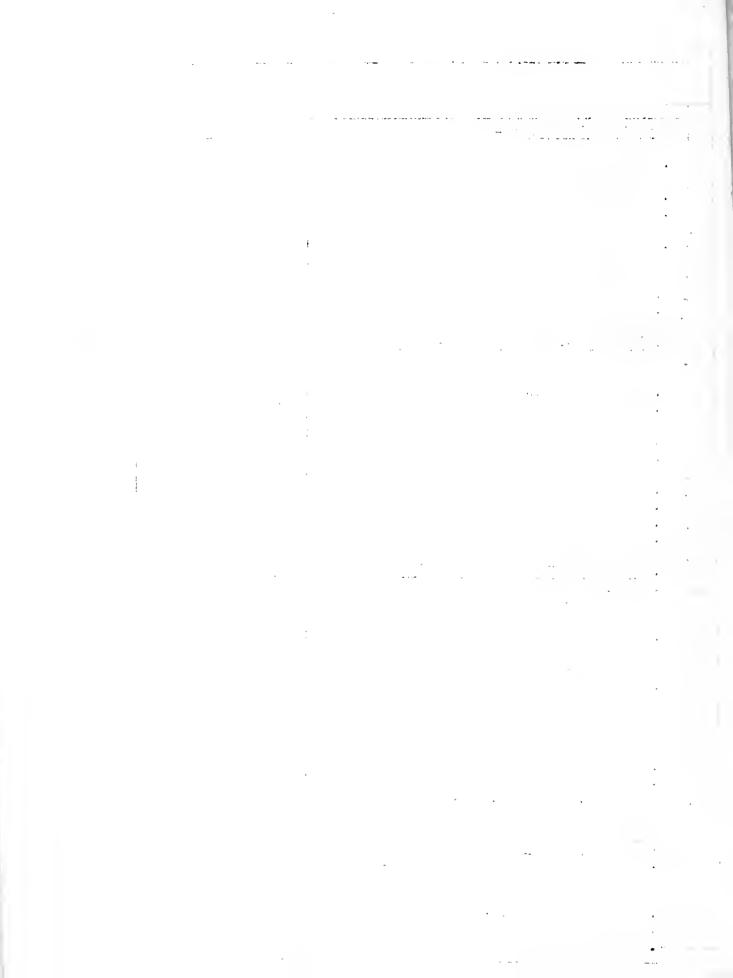
A detailed statement of the farm earnings is given on page 3, while on page 4 you will find a chart on which you may plot the results from your own farm which will show at what points your farm showed strength or weakness.

Saline, Gallatin Counties

Toolana halikuu k			1 1
Factors helping to analyze	10	our	Average of
the farm business	f :	arm	farms
Rate Earned		·/o	5.43 %
Labor & Managemont Wage	\$,	\$ 569.
Size of Farm - Acres	ļ ļ		177.0
Crop Yields - Corn - bushels			35.0
Oats - Bushels			38.1
Wheat-Bushels		,	15.3
Percent of land area Tillable		1/0 8/0	87.7%
Percent of tillable land in legumes		%	19.1%
Returns per \$100. invested in			
all productive livestock	\$		\$ 150.25
For \$100. in - Cattle	\$ \$ \$		ជុំ 94.80
- Swine	Ş		\$ 200,90
- Poultry	Ş		\$ 190,70
Percent of gross Income from Livestock		7.	41.0 %
Man Labor Cost per Acre	\$		\$ 4,71
Crop Acres per Man			61.4
Crop Acres per Horse			16.3
	a		\$ 57.45
Expense per \$100. gross income	¢ \$		
Machinery Cost per Acre	ប៊		ម៉ 1.3%
Building & Fencing cost per Acre	\$		\$,83
Gross Receipts per Acre	ន		\$ 16.41
Total Expenses per Acre	့		\$ 9,42
Net Roccipts per Acre	ڹٞ		\$ 6.99



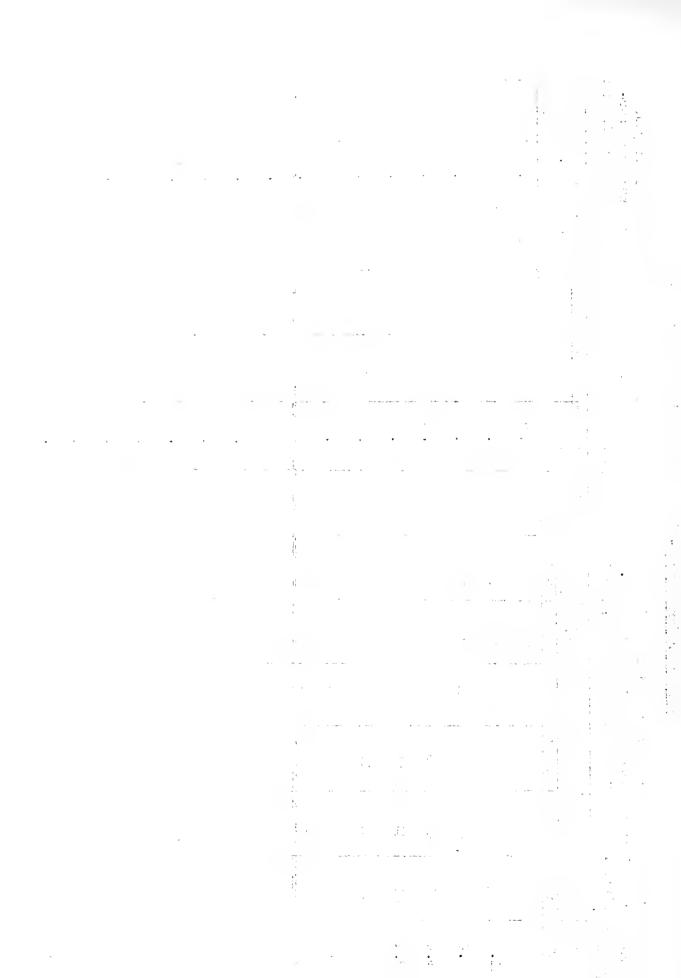
	Your	Average
	1041	of 17
	Farm	farms
1. Capital Investment - Total	\$	\$ 22764
2. Land	\$\$ \$\$ \$\$ \$\$	17245
3. Farm Improvement	\$	2159
4. Machinery and Equipment	Ş	759
5. Feed and Supplies 6. Livestock	\$ 6	1220 1381
o. Livesteck	₽	1301
7. Horses	\$	542
8. Cattle	Ş	401
9. Sheep		10
10. Swine	\$\$ \$\$ \$\$ \$\$	252
11. Poultry	*	176
12. Receipts - Net Increases - Total	\$	\$ 2904
13. Feed and Grain	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1624
14. Labor off Farm	Ş	59
15. Miscellaneous	\$	33
16. Livestock - Total	\$	1188
17. Horses	\$	7
18. Cattle	\$	1 48
19. Sheep	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	15
20. Swine	Ş	440
21. Poultry	\$ \$	136 207
22. Egg Sales	Ÿ	235
23. Dairy Sales		455
24. Expenses - Net Decreases - Total	3	\$ 963
25. Farm Improvements	3. 65	156
26. Livesteck	\$	
27. Horses	Ş	
28. Cattle	\$	
29. Sheep	\$	1
30. Swine	Ş	
31. Poultry	\$	233
32. Machinery and Equipment	\$ &	μ 33
33. Feed and Supplies 34. Livestock Expense other than feed	& &	26
35. Crop Expense	Š	154
36. Labor hired	\$\tau \tau \tau \tau \tau \tau \tau \tau	129
37. Taxes, Insurance, etc.	\$	251
38. Miscellaneous	\$	14
39. Receipts less Expenses	\$	\$ 1941_
40. Operators and Unpaid Family Labor	\$ \$	705
41. Net Income from Investment	\$	1236
42. Farms with Tractor - Percent	%	30.0%
43. Value of land per Acre		97
44. Total Investment per Acre	\$	129



Find Your Farm Leaks - (Saline, Gallatin Counties 1924)

ing the efficiency of your furm in that factor, you can compare your efficiency with that of other farmers in your county for the factors named at the top of the page. By drawing a line across each column at the number measur-The numbers just above the line across the middle of the page are approximately the average for your

									1								
Sizo	of Farm	282	267	252	237	22.22	207	192	177	162	147	132	117	102	87	-72	57
Gross	Kecep. per Acre		28.50	26.50	24.50	22,50	20.50	18.50	16.50	14.50	12.50	10.50	8.50	6.50	4.50	2.50	0.50
Expense	per vilo Income	23	28	33	38	43	84	53	58	63	89	73	78	80	88	88	98
Acros Por	Horse	30	28	26	4.	23	20	13	16	런	12	10	α	ø	ಶ⁺	¢3	0
Crop Act	Man	96	16	98	81	92	71	99	61	56	27	46	47	36	31	26	21
	Cost per Acre	8.25	7.75	7.25	6.75	6.25	5.75	5.25	4.75		3.75	3.25	2.75	2.25	1.75	1.25	.75
+-	Income rom L.S.	96	88	080	72	64	56	48	40	32	24	16	ω	0			
क्रां००	Poultry	330	310	290	270	250	230	210	190	170	150	130	110	06	70	20	30
Returns per	- 1 1	340	320	300	280	260	240	220	200	180	160	1.40	120	100	80	09	40
Retur	In Cattle	235	215	195	175	155	135	115	95	75	55	35	15	ى 1	125	445	-65
	Wheat	29	27	25	23	21	19	17	15	13	11	6	7	υ.	က	Н	0
Bushels per	re of Oats	52	20	48	46	44	42	40	38	36	34	32	30	28	26	24	22
	Corn O	56	53	50	47	7 7	41	38	35	32	29	26	23	20	17	٠,٠	77
Rate	Earnod	12.40	11.40	10.40	0 , . 0	8.40	7.40	6.40	5, 40	4.40	3.40	2.40	1.40	6.40	09.0-	-1.60	-2.60



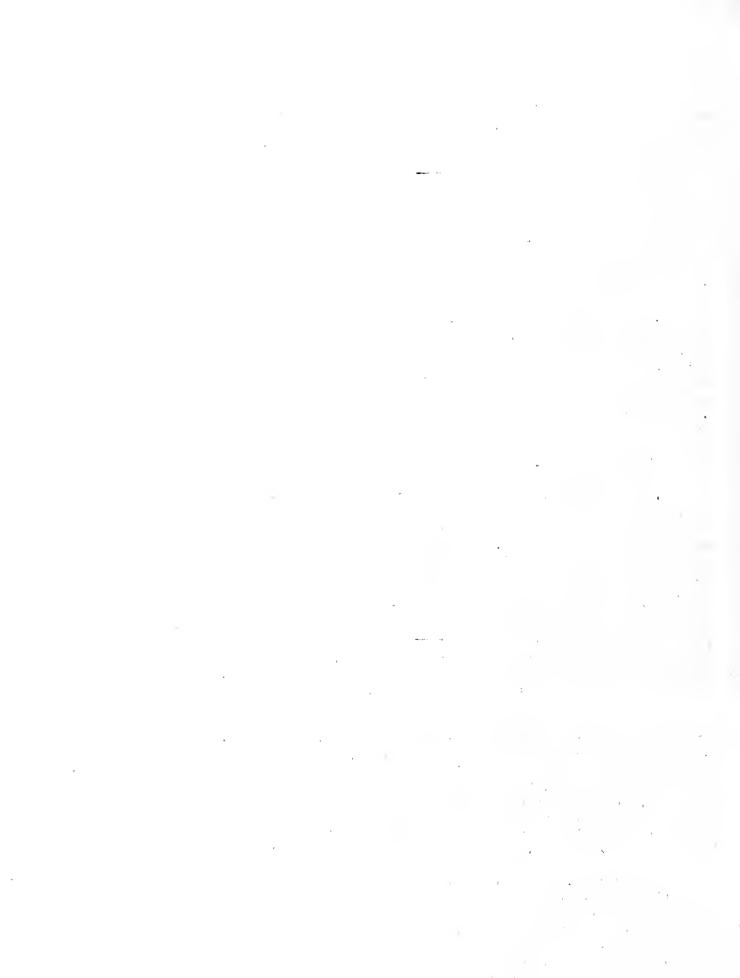
HOW TO SHUDY YOUR FARM RECORD

We shall endeavor in the following discussion to point out the importance of certain factors in their influence on the farm profits. Cost of production data will frequently be referred to. The cost of producing farm products has been studied during the past twelve years in different parts of illinois. While your record does not permit determining the cost of producing separate products on your farm, the information from your farm does enable you to learn whether the different parts of your business correspond favorably with other farms in your community. A study of a group of farm records from any community always impresses one with the fact that each farmer can profit at some point from studying the results obtained by his more efficient farmer neighbors.

Different factors which we wish to call to your attention include the following:

- l. <u>Total Farm Enrings</u>. These are shown first in terms of the rate earned on the total farm investment, and second, in terms of the Labor and Panagement wage. However, in studying the Farm earnings you will be interested in noting the last three items on page 2 which show the wide differences between the one-third most profitable and the one-third least profitable farms in the gross receipts and the total expenses per sere, and in the resulting difference in the net receipts per acre. These wide differences in farm earnings call for an analysis of a number of different factors which affect the farm earnings. These factors are included in the following discussion in which we endeavor to point out why these different factors are of special importance.
- 2. Crop Yields. Good crop yields are one essential requirement for good incomes. Cost of production studies on 18 farms in one community showed that the cost of producing a bushel of corn varied from 39¢ on one farm to 79¢ per bushel on another farm for the same year. Similar differences occurred on other crops. A large part of the difference in cost is due to the difference in yield per acre. It is not uncommon to find a difference of 25¢ a bushel in the cost of producing corn which can be attributed directly to the difference in the yield per acre since most items of cost do not increase as the yield increases. When crop yields are low one can well afford to study the practices of men who secure higher yields. In order to determine what is responsible for those differences attention should be given to the rotation of crops, quality and variety of seed, use of legumes and manure, use of limestone and phosphate where needed, preparation of seed bed, cultivation, protection from disease and insects, and drainage.
- 3. Returns from Livestock. One of the best measures of the efficiency of livestock, in these records, is the returns per \$100.00 invested. The returns per \$100.00 worth of feed fed any class of livestock, however, gives you more reliable information as to whether the efficiency of that class of livestock may be improved. You are urged, therefore, to keep the feed record on pages 38 and 39 of the farm account took, at least for the livestock from which you receive considerable income. As evidence of the wide variation in livestock efficiency on farms, cost accounts secured on 18 farms in the same community showed a range in the cost of feed in producing pork of \$4.18 to \$8.81 per 100 pounds gain in weight for the same veer.

The per cent. of total receipts from livestock enables one to know how large a factor livestock is in determining the farm income. On some farms where livestock represented a considerable part of the income in 1924 the earnings were reduced due to the abnormal price situation. As compared with the five-year average of farm prices from 1909 to 1914 the prices of meat animals in 1924 were only 9% higher than for the five-year period, while the prices of grains were 29% and the prices of dairy products and eggs were 37% higher. This means that farms which were heavy producers



of meat animals in 1924 did not fare so well as they might expect to do on an average of a number of years when compared with either grain or dairy farms. In spite of this fact the larger proportion of livestock returns on the better farms indicate that good livestock properly handled paid even under the adverse price situation.

Success with livestock, as with erop production, depends upon a number of factors among which the following should be noted: Raising a large per cent. of young animals, sanitation, prevention of disease, ability in buying and selling livestock, keeping animals of good quality, good feeding practices - especially the growing of sufficient legume forage to supply most of the protein requirements, careful purchasing of additional protein and mineral supplements when needed, and the economical use of roughage which is available on all forms.

Some men are more successful than others in handling livestock. It is not recommended that anyone quickly change his practice and suddenly go into extensive feeding or breeding operations. It is better to work gradually into the livestock business, building up either breeding or feeding operations as he finds that livestock is filling a place in his system of farming.

4. Use of Man and Horse Labor. One of the best measures of the use of labor is the number of crop acres worked per man or per horse when the farms are of the same general type. When the cost of man labor and horse labor are noted it emphasizes at once the importance of watching these items of expense and arranging the organization of the farm to make efficient use of labor.

Cost accounting data secured on 18 farms in the same community for the same year show that the net cost of keeping a work horse ranged from \$63.76 to \$124.15; or an average of \$93.06 per horse. When it is considered that a horse usually works about 20 acres of crops when a tractor is not employed, it means that horse labor costs will range from \$3.50 to over \$6.00 per acre on different farms. This wide range in the cost of horse labor is dependent not only on the number of acres handled with one horse, but also upon the economy with which the horse is fed and whether or not other items of expense are kept at a low figure. The careful planning of a rotation of crops is probably one of the best ways to reduce both man and horse labor costs. A rotation should be chosen so that as uniform an amount of man and horse labor is required from early soring until late fall as possible. Frequently the size of certain enterprises within the farm business may be adjusted to utilize the available family labor to advantage. Feeding down crops and keeping enough livestock to utilize labor during the seasons when farm work is light are other definite means of increasing the efficiency with which labor is used. Repeated study of farm records over the state indicate that occasionally a man may reduce the amount of both man labor and horse labor to a point where lower profits are secured from both crop and livestock enterprises because of a lack of well directed labor. It is usually found, however, that the more profitable farms not only secure larger yields per acre, but they handle a larger acreage per worker or per horse.

5. Expense per \$100. Gross Income. This is a measure of thrift in all parts of the farm business. It does not misrepresent a farm which has a large expense if the income is correspondingly high. However, it is a well-known principle in all business organization that expenses must be kept low in proportion to income if the business is to prove profitable. Jost accounts kept on 18 farms in the same community showed that the annual building expense per acre varied from \$1.42 to \$6.63 per acre; the annual expense for fences varied from \$.32 to \$2.36 per acre; and machinery and equipment expenses varied from \$.83 per acre to \$2.46. These data show how much more efficient some farmers are than others in keeping expenses low.

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Farmers who are most successful in kcoming expenses low in proportion to the income plan their work so as to make the labor of themselves and members of the family as productive as possible. Enterprises are included in the farm business that utilize available labor at all seasons of the year. While they secure good varieties of seed, in so far as possible, they raise and prepare their own seed. Rainy days and off seasons are used to repair buildings, fences, machinery, and harness. This prolongs the life of equipment, saves in the purchase of new equipment and also saves paying out money for highly paid skilled labor. By having equipment in shape they also save the expense incident to delay in the busy season caused by broken machinery or fences, which might have been prevented by timely repair.

6. Size of Farm. In most types of farming there is a limit to the amount of product which can be profitably secured per sore. When one finds his form is smaller than the more profitable farms in his locality and his income is low even though he has good crop yields and good returns from livestock, a weakness is frequently found in the small size of farm. This situation may be remedied by buying or renting additional land or changing the type of farming to a more highly intensive or specialized type which will bring a larger volume of production. It must be recognized, however, that some men have more ability than others in handling a large sized business. Some men may find their form is considerably larger than the best paying farms, but the income is low because of too large an area handled from one point. Some farmers may find that they can secure a larger net profit by renting out some land and doing more efficient work on a smaller acreage. It is a wellknown principle of farm management that a farm must be large enough to utilize capital in the form of buildings, machinery and other equipment, and labor in an economical way. Just how large the farm should be, however, is a question which depends upon the ability of the operator himself as a manager.

Balanced Farming Pays.

Each of the factors previously discussed plays a part in determining farm profits. Full success in farming requires that all parts of the farmer's business be given attention. One may have good crop yields and make good use of livestock, but receive a small net income because of inefficient use of labor. Or one may work a large acreage per man and per horse, but fail because of low crop yields or poor returns from livestock. A well balanced farm with a fair degree of efficiency along all lines brings the operator returns which will enable him to maintain a good standard of living for his family.



ANNUAL FARM BUSINESS REPORT

TAZETELL, LOGAN, MACON, and McLEAN* COUNTIES - 1924

Prepared by H.C.M. Case, M.L. Mosher, K.H.Myers**

The 30 farmors in the four counties who kept farm records in 1924 in the book prepared by the Extension Service earned a rate of 7.26% on an average investment of \$59,691 after figuring their own time at about \$600 per year. These farms averaged 232.5 acres in size. The Labor and Lanagement wage which represents what a man has left as pay for his own work and managing ability after paying all expenses and allowing 5 per cent. interest on the total investment, amounted to \$1904 as an average for all farmors. The value of the food products furnished the home and the use of the dwelling house represent an income in addition to that shown. On 11 farms in Champaign and Piatt counties a careful record was kept of these two items, the value of which amounted to \$726 per farm at farm prices.

A comparison with other farmers in your community will help you to find at what point you can strengthen your farm. The tables on pages 2 and 3 show the average results of the 30 farms in comparison with those of more profitable and less profitable farms. The 10 most profitable farms earned 10.12% on the investment, while the least profitable group made only 3.83%. Expressed as the Labor and Management wage, the better group made an average labor income of \$3462, while the least profitable group lacked \$974 of having anything left to pay the manager for his own labor and management, a difference of \$4436. In comparing the more profitable farms with the least profitable it will be noted that the 10 more profitable farms averaged over 35 acres larger in size, making it possible to use equipment, machinery and labor to greater advantage.

As shown on page 2, the more profitable group received larger crop yields than did the least profitable group. Both groups of farms had considerable land in legume crops. The more profitable farms received a larger return for each \$100 invested in productive livestock, and while their livestock represented only 29.8% of the total gross income compared to 36.9% on the lower group, they received a larger total income from livestock as well as from the farm as a whole. The more profitable farms then had larger crop yields and better livestock and a larger income from livestock but a smaller percentage of the total income from livestock. This indicates that the farms race ving the pajor part of their income from the sale of grains and with livestock well handled paid better in 1924 than the farms receiving most of their income from livestock. This is an abnormal condition, however, and no interpretation should be attempted without reading the explanation given on page 5. They also handled about 24 acres more crops with each man and about 3 acres more crops with each horse than did the least profitable group, a factor which was responsible for a lower labor cost per acre.

For every \$100 taken in, the 10 most profitable farms had an expense of \$32.15, while the 10 least profitable farms had an expense of \$60.17. This may be due to any one of a larger number of items of cost, but as shown, the more profitable farms kept the machinery expenses and building and fencing expenses as well as other operating expenses at a lower figure per acre. This is probably due in part to the difference in the size of farms. Whatever it is due to is well known that low expenses in relation to the total income is essential to profitable farming. The more profitable farms received \$9.75 larger gross returns per acre and their expenses were \$3.95 less per acre than on the 10 least profitable farms, giving as a result the net receipts of \$23.77 per acre as compared with only \$10.07 per acre on the 10 least profitable farms.

*Records in the east part of McLean Co. were used in the Champaign, Ford Co. Report. **R.E. Arnet, J.H. Checkley, E.E. Walworth and H. Fahrnkopf, farm advisers in Tazewell, Logah, Macon, and McLean Co., respectively, cooperated in supervising and collecting the records used in this report.

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A detailed statement of the farm earnings is given on page 3, while on page 4 you will find a chart on which you may plot the results from your own farm which will show at what points your farm showed strength or weakness.

Tazewell, Logan, Macon and McLean Counties.

Factors helping to analyze the farm business	Your farm	Average of 30 farms	10 most profitable farms	10 least profitable farms
Rate Earned Labor & Management Wage	\$	7.26% 1904.	10.12 3462.	3.83 -974.
Size of Farm - Acres Crop Yields - Corn - Bushels Oats - Bushels Wheat -Bushels Percent of land area Tillable Percent of tillable land in legumes	<i>1. 1. 1.</i>	232.5 46.8 54.3 20.5 93.8% 12.5%	240.4 49.2 56.1 24.1 91.1 12.6	204.5 45.1 53.1 19.2 95.1 14.7
Returns per \$100. invested in all productive livestock	\$	\$140.60	148.25	129.50
For \$100 in Cattle Swine Poultry	် ် င့်	\$ 91.50 \$198.30 \$118.60	121.00 205.65 91.50	70.00 155.50 111.45
Percent of gross Income from Livestock	1/2	34.0%	29.8	36.9
Man Labor Cost per Acre Crop Acres per Man Crop Acres per Horse (With tractor) (Without tractor) Expense per \$100. gross Income Machinery Cost per Acre Building & Fencing cost per Acre	\$ \$ \$	\$ 5.37 88.7 27.5 18.6 \$ 40.65 \$ 2.55 \$.96	5.01 101.5 28.2 18.9 32.15 1.88 .92	5.76 77.4 26.0 14.8 60.17 3.86 1.17
Gross Receipts per Acre Total Expenses per Acre Net Receipts per Acre	\$P \$\$ \$\$	\$ 31.39 \$ 12.73 \$ 18.66	35.03 11.26 23.77	25.28 15.21 10.07

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Tazewell, Logan, Macon, McLean Counties.

				والمستعدد المتعارفة المستعدد المتعارف	
		Your	average	10 host	10 least
1		farn	of 30	profitable	profitable
			farms	farms	farms
1, 6	Ionital Tarrantment Matol	8	59691	E6 40E	E 27 47
2.	Land Land	9	48385	56 435 457 45	537.41 42300
3.	Farm Improvements	1 %	4143	3688	4525
4.	Machinery and Equipment	Š	1673	1409	2028
5.	Food and Supplies	8	3065	3303	2741
6.	Livestock	Š	2420	2285	2147
0.	HIVES COCK	Ÿ	2420	2200	2141
7.	Horses	Ś	791	720	7 46
8.	Cattle	1 5	747	857	574
9.	Sheep	1 5	61	23	1
10.	Swine	\$ \cap \cap \cap \cap \cap \cap \cap \cap	683	547	669
11.	Poultry	1 8	133	138	157
•	1 C 51 2 C 3	1		100	
12.	Recoipts - Net Increases - Tot	al	7298	8421	5170
13.	Feed and Grain		4695	5796	3112
14.	Labor off Farm	\$	71	16	128
15.	Miscellaneous	C) C) C) C)	49	101	21
16.	Livestock - Total	\$	2433	2508	1909
17.	Horses	\$			11
18.	Cattle	\$	323	332	129
19.	Sheep	\$	155	13	220
20.	Swine	\$	1423	1245	1139
21.	Poultry	G-49-49-49-49-10	75	30	84
22.	Egg Sales	\$	88	38	93
23.	Dairy Sales	ទូ	419	745	233
	37				
24.	Expenses - Net Decreases - Tot	als	2201	2042	2197
25.	Farm Improvements	\$ 0	223	221	2 40
26.	Livestock	Ş	23	40	en er
27.	Horses	A	23	40	
28.	Cattle	8	23	1	
29.	Shoep	8			
30.	Swine	l s			
31.	Poultry	E.			
32.	Machinery and Equipment	D 03 0 0 0 0	593	452	790
33.	Feed and Supplies	\$			900 em em
34.		- "	62	36	94
35.	Crop Expense	413	283	320	256
36.		Ş	490	541	265
37.			433	408	479
38.	Miscellaneous.	\$ \$	44	24	73
50.		*			
39.	Receipts less Expenses	\$	5097	6379	2 <u>973</u>
	Operator's and Unpaid Family I		759	665	914
	Net Income from Investment	\$	4333	5714	2059
		n n			
42.	Farms with Tractor - Percent		% 56.3%	30.0	70.0
	Value of land per Acre	\$	203	190	207.
	Total Investment per Acre	\$	257	235	265.

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Find Your Farm Leaks - (Tazewell, Logan, Macon, McLean Counties - 1924)

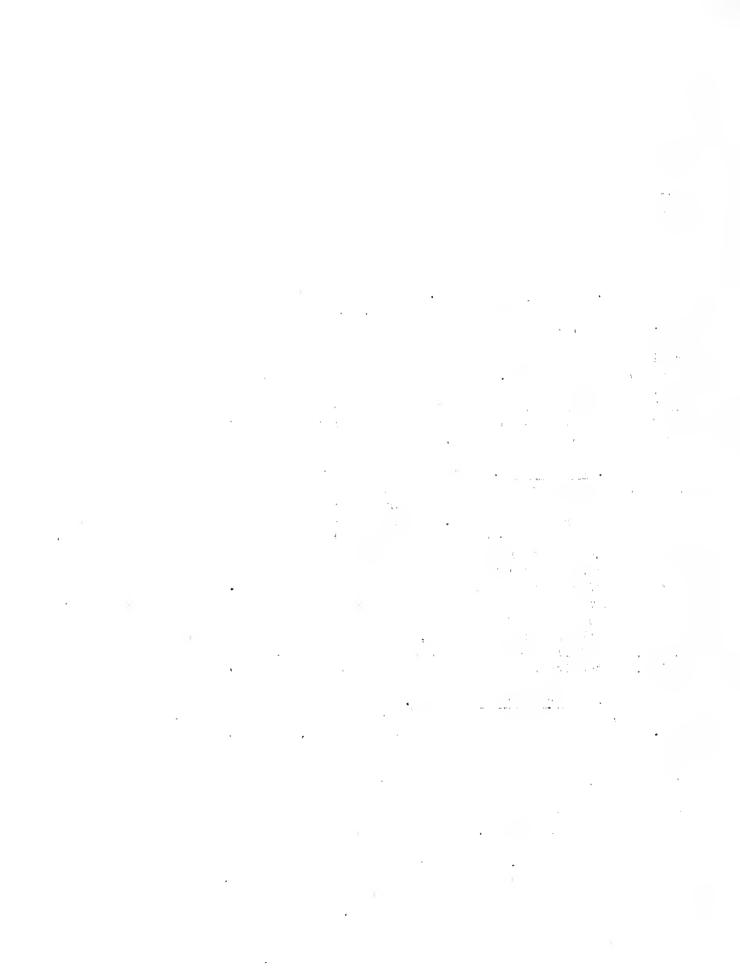
county efficien-	Size of farm		372	352	332	312	292	272	252	232	212	192	172	152	132	112	92	72
for your c suring the mmunity.	Gross Recep.	per Acre	45	43	41	33	37	35	33	31	53	27	25	23	27	19	17	15
	Expense per \$100	Income	9	זו	16	21	26	31	36	41	46	51	26	61	99	7.1	92	81
+	per	No Trac	26	25	24	23	22	21	20	19	13	17	16	15	4-	13	12	11
approximately 1 column at the	ps Acres Horse	Tractor	42	40	38	36	34	(3)	30	28	26	24	03 03	20	70	16	4.	12
	Ma		131	125	119	113	107	101	95	89	යි	47	7.1	ö S	29	53	47	41
of the page line across ency with the	Man Lab. Cost per	Acre	2.00	2,50	3.00	3.50	4.00	4.50	2.00	5,50	9.00	6.50	7.00	7.50	00°3	3.50	9°00	9.50
	Percent Income	tryfrom L. S.	06	82	74	65	28	20	42	34	26	18	10	ત્ર	0			
the middle by drawing a	\$100 F	Poultry	259	239	219	199	179	159	139	113	66	4.9	59	39	19	7	-27	-41
α q	per ted ir	[03	338	318	298	278	258	233	218	198	178	158	138	118	86	78	53	33
the	Retur	Cattle	197	182	167	152	137	122	107	92	77	62	47	32	13	cs.	-13	-28
The numbers just above the for the factors named at the top of cy of your farm in that factor, you		Wheat	35	33	31	53	21	25	23	21	19	17	15	13	7.	6	7	5
	por		75	72	69	99	63	09	57	54	51	£1	45	42	35	36	က္သ	30
	Eush Fush	Corn	68	65	62	59	26	53	50	47	7 7	41	33	35	32	29	56	23
for the	Rate	Earned	14,25	13,25	12,25.	11,25	10,25	9.25		7.25	6.25	5.25	÷.25	3,25	2.25	1.25	.25	75

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Different factors which we wish to call to your attention include the following:

- l. Total Farm Earnings. These are shown first in terms of the rate earned on the total farm investment, and second, in terms of the Labor and Management wage. However, in studying the farm earnings you will be interested in noting the last three items on page 2 which show the wide differences between the one-third most profitable and the one-third least profitable farms in the gross receipts and the total expenses per acre, and in the resulting difference in the net receipts per acre. These wide differences in farm earnings call for an analysis of a number of different factors which affect the farm earnings. These factors are included in the fellowing discussion in which we endeavor to point out why these different factors are of special importance.
- 2. Crop Yields. Good crop yields are one essential requirement for good incomes. Cost of production studies on 18 farms in one community showed that the cost of producing a bushel of corn varied from 39¢ on one farm to 79¢ per bushel on another farm for the same year. Similar differences occurred on other crops. A large part of the difference in cost is due to the difference in yield per acre. It is not uncommon to find a difference of 25¢ a bushel in the cost of producing corn which can be attributed directly to the difference in the yield per acre since most items of cost do not increase as the yield increases. When crop yields are low one can well afford to study the practices of men who secure higher yields. In order to determine what is responsible for these differences attention should be given to the rotation of crops, quality and variety of seed, use of legumes and manure, use of limestone and phosphate where needed, preparation of seed bed, cultivation, protection from disease and insects, and drainage.
- 3. Returns from Livestock. One of the best measures of the efficiency of livestock, in these records, is the returns per \$100.00 invested. The returns per \$100.00 worth of feed fed any class of livestock, however, gives you more reliable information as to whether the efficiency of that class of livestock may be improved. You are urged, therefore, to keep the feed record on pages 38 and 39 of the farm account book, at least for the livestock from which you receive considerable income. As evidence of the wide variation in livestock efficiency on farms, cost accounts accured on 18 farms in the same community showed a range in the cost of feed in producing pork of \$4.18 to \$8.31 per 100 pounds gain in weight for the same year.

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expect to do on an average of a number of yoars when compared with either grain or dairy farms. In spite of this fact the larger proportion of livestock returns on the better farms indicate that good livestock properly handled paid evon under the adverse price situation.

Success with livestock, as with crop production, depends upon a number of factors among which the following should be noted: Raising a large per cent. of young animals, sanitation, prevention of disease, ability in buying and selling livestock, keeping animals of good quality, good feeding practices - especially the growing of sufficient legume forage to supply most of the protein requirements, careful purchasing of additional protein and mineral supplements when needed, and the economical use of roughage which is available on all farms.

Some men are more successful than others in handling livestock. It is not tecommended that anyone quickly change his practice and suddenly go into extensive feeding or breeding operations. It is better to work gradually into the livestock business, building up either breeding or feeding operations as he finds that livestock is filling a place in his system of farming.

4. Use of Man and Horse Labor. One of the best measures of the use of labor is the number of crop acres worked per man or per horse when the farms are of the same general type. When the cost of man labor and horse labor are noted it emphasizes at once the importance of watching these items of expense and arranging the organization of the farm to make efficient use of labor.

Cost accounting data secured on 18 farms in the same community for the same year show that the net cost of koeping a work horse ranged from \$63.76 to \$124.15; or an average of \$93.08 per horse. When it is considered that a horse usually works about 20 acres of crops when a tractor is not employed, it means that horse labor costs will range from \$3.50 to over \$6.00 per acre on different farms. This wide range in the cost of horse labor is dependent not only on the number of acres handled with one horse, but also upon the economy with which the horse is fed and whether or not other items of expense are kept at a low figure. The careful planning of a rotation of crops is probably one of the best ways to reduce both man and horse labor costs. A rotation should be chosen so that as uniform an amount of man and horse labor is required from early spring until late fall as possible. Frequently the size of certain enterprises within the farm business may be adjusted to utilize the available family labor to advantage. Feeding down crops and keeping enough livestock to utilize labor during the seasons when farm work is light are other definite means of increasing the efficiency with which labor is used. peated study of farm records over the state indicate that occasionally a man may reduce the amount of both man labor and horse labor to a point where lower profits are secured from both crop and livestock enterprises because of a lack of well directed labor. It is usually found, however, that the more profitable farms not only secure larger yields per acre, but they handle a larger acreage per worker or per horse.

5. Expense per \$100. Cross Income. This is a measure of thrift in all parts of the farm business. It does not misrepresent a farm which has a large expense if the income is correspondingly high. However, it is a well-known principle in all business organization that expenses must be kept low in proportion to income if the business is to prove profitable. Cost accounts kept on 18 farms in the same community showed that the annual building expense per acre varied from \$1.42 to \$6.63 per acre; the annual expense for fonces varied from \$3.32 to \$2.36 per acre, and machinery and equipment expenses varied from \$3.83 per acre to \$2.46. These data show how much more efficient some farmers are than others in keeping expenses low.

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Farmors who are most successful in keeping expenses low in proportion to the income plan their work so as to make the labor of themselves and members of the family as productive as possible. Enterprises are included in the farm business that utilize available labor at all seasons of the year. While they secure good varieties of seed, in so far as possible, they maise and propare their own seed. Rainy days and off seasons are used to repair buildings, fences, machinery, and harness. This prolongs the life of equipment, saves in the purchase of new equipment and also saves paying out money for highly paid skilled labor. By having equipment in shape they also save the expense incident to delay in the busy season caused by broken machinery or fences, which might have been prevented by timely repair.

6. Size of Farm. In most types of farming there is a limit to the amount of product which can be prefitably secured per acre. When one finds his farm is smaller than the more profitable farms in his locality and his incomo is low even though he has good crop yields and good returns from livestock, a weakness is frequently found in the small size of farm. This situation may be romedied by buying or renting additional land or changing the type of farming to a more highly intensive or specialized type which will bring a larger volume of production. be recognized, however, that some men have more ability than others in handling a large sized business. Some men may find their farm is considerably larger than the best paying farms, but the income is low because of tee large an area handled from one point. Some farmers may find that they can secure a larger net profit by renting out some land and doing more efficient work on a smaller acreage. It is a wellknown principle of farm management that a farm must be large enough to utilize capital in the form of buildings, machinery and other equipment, and labor in an economical way. Just how large the farm should be, however, is a question which depends upon the ability of the operator himself as a manager.

Balanced Farming Pays.

Each of the factors previously discussed plays a part in detormining farm profits. Full success in farming requires that all parts of the farmor's business be given attention. One may have good crop yields and make good use of livestock, but receive a small net income because of inefficient use of labor. Or one may work a large acreage per man and per horse, but fail because of low crep yields or poor returns from livestock. A well balanced farm with a fair degree of efficiency along all lines brings the operator returns which will enable him to maintain a good standard of living for his family.



ANNUAL FARM BUSINESS REPORT

WABASH, EDWARDS, RICHLAND, AND LAWRENCE COUNTIES 4 1924.

Prepared by H.C.M. Case, M. L. Mosher, K. H. Myers*

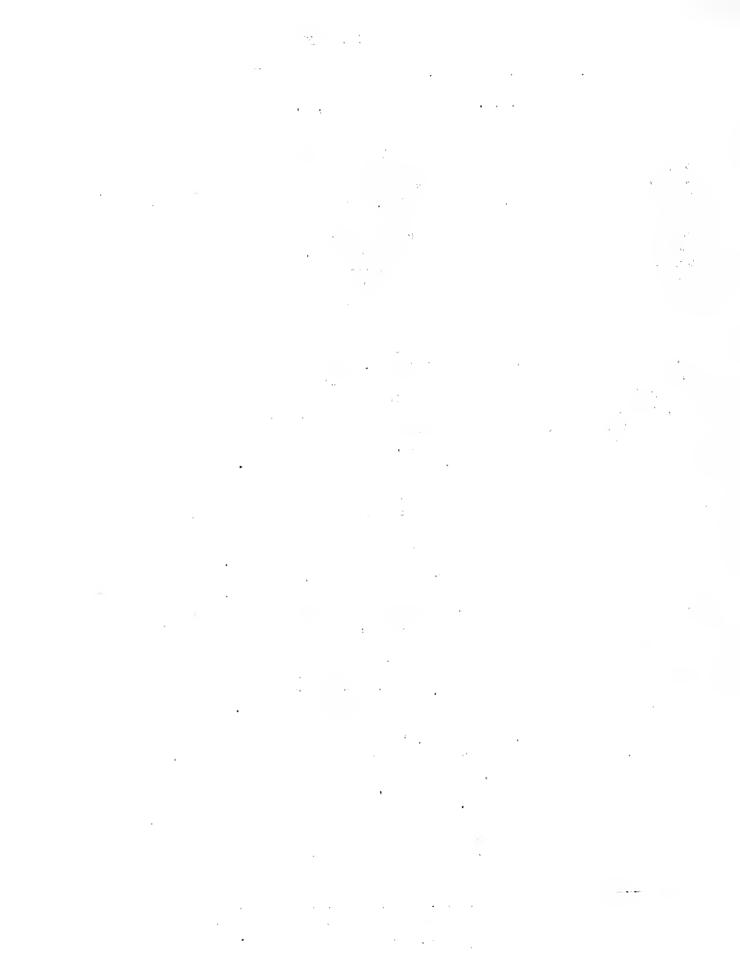
The 41 farmers in these counties who kept farm records in 1924 in the book prepared by the Extension Service carned a rate of 7.23% on an average investment of \$20,085 after figuring their ewn time at about \$450.00 per year. These farms averaged 174.3 acres in size. The Laber and Management wage which represents what a man has left as pay for his ewn work and managing ability after paying all expenses and allowing 5 percent interest on the total investment, amounted to \$902.00 as an average for all farmers. The value of the food products furnished the home and the use of the dwelling house represent an income in addition to that shown. On 11 farms in Champaign and Piatt counties a careful record was kept of these two items, the value of which amounted to \$726.00 per farm at farm prices.

A comparison with other farmers in your community will help you to find at what point you can strengthen your farm. The tables on pages 2 and 3 show the average results of the 41 farms in comparison with those of more profitable and less profitable farms. The 13 most profitable farms earned 13.96% on the investment, while the least profitable group made only 1.65%. Expressed as the Labor and Management wage, the botter group made an average labor income of \$1940, while the least profitable group lacked \$249\$, of having anything left to pay the manager for his own labor and management, a difference of \$2189.00. In comparing the more profitable farms with the least profitable it will be noted that the 13 more profitable farms averaged 35 acres smaller in size, a fact which should be noted in comparing the efficiency with which equipment, machinery and labor is used.

The records show that the more profitable group had larger crop yields and a larger percentage of the tillable land in legume crops. The more profitable farms received a much larger return for every \$100.00 invested in productive livestock and for each class of livestock. They received 62.8% of their income from livestock compared with 70.4% on the least profitable farms, but due to the larger returns on the more profitable farms, they received a larger income from livestock. The more profitable farms then had larger crop yields, better livestock and a larger income from livestock. The least profitable group handled about 13 acres more crops with each man but about 2.5 acres less with each horse than did the most profitable group, a factor which was responsible for a slightly higher man labor cost per acre on the most profitable group.

For every \$100.00 taken in, the 13 most profitable farms had an expense of \$43.90 while the 18 least profitable farms had an expense of \$81.80. This may be due to any one of a large number of items of cost. It may be due to low income as well as to high operating expense, but low expense per \$100.00 income is essential to profitable farming. The more profitable farms received \$15.86 larger gross returns per acre and their expenses were only \$3.39 more per acre than on the 13 least profitable farms, giving as a result the net receipts of \$14.18 per acre as compared with only \$1.71 per acre on the 13 least profitable farms.

^{*}F. A. Fisher, H. C. Gilkerson, W.B. Bunn, and H.C. Wheeler, farm advisers in Wabash, Edwards, Richland and Lawrence counties, respectively, cooperated in supervising and cellecting the records used in this report.



A detailed statement of the farm carnings is given on page 3, while on page 4 you will find a chart on which you may plot the results from your own farm which will show at what points your farm showed strength or weakness.

Wabash, Edwards, Richland and Lawrence Countios.

Factors helping to	Your	Averago	13 most	13 least
analyzo	! 	of 41	profitable	profitable
the farm business	farm	farms	farms	farms
Rate Earned	%	7.23%	13.96%	1.65%
Labor & Management Wage	\$	\$902.	1940.	-249.
Size of Farm - Acres		174.3	159.4	194.3
Crop Yields - Corn - Bushels	{	41.7	44.5	31.8
Oats - Bushels		35.5	34.3	3 3. 9
Wheat- Bushels	,	12.3	12.6	9.9
Percent of land area Tillable	%	80.5	72.7	78.6
Percent of tillable land in legumes	%	21.8	26.4	21.4
Returns per \$100. invested in				
all productive livestock	\$	\$157.10	241.40	95.60
For \$100. in - Cattle	\$	\$107.70	228.55	53.05
- Swine	\$ 0.40	\$247 . 15	268.00	208.60
- Poultry	\$	\$197.55	256.05	151.70
Percent of gross Income from Livestock	%	55.0%	62.8 %	70.4
Man Labor Cost per Acre	\$	\$ 5.14	5.85	4.04
Crop Acres per Man		72.5	64.9	77.7
Crop Acres per Horse		21.4	29.8	18.4
Expense per \$100. gross Income	\$	\$ 54.25	43.90	81.80
Machinery Cost per Acre	\$	\$ 1.24	1.60	.88
Building & Fencing cost per Acre	\$	\$.72	.61	.67
Gross Receipts per Acre	\$	\$ 18.23	25.29	9.43
Total Expenses per Acra	\$	\$ 9.89	11.11	7.72
Net Receipts per Acre	\$	\$ 8.34	14.18	1.71
Building & Fencing cost per Acre Gross Receipts per Acre Total Expenses per Acre	\$ \$ \$ \$	\$.72 \$ 18.23 \$ 9.89	.61 25.29 11.11	

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Wabash, Edwards, Richland, and Lawrence counties

	Your	Average of 41	13 most profitable	13 least profitable
1. Capital Investment - Total 2. Land 3. Farm Imprevements 4. Machinery and Equipment 5. Feed and Supplies	farm	farms \$20085 14724 1845 764 1218	\$16202 11507 1602 702 1034	\$20206 14612 1944 675 1070
6. Livestock 7. Horses 8. Cattle 9. Sheep 10. Swine	****	1534 443 626 23 293	1357 413 494 21 268	1905 473 950 10 309
11. Poultry 12. Receipts - Net Increases - Total 13. Feed and Grain 14. Labor off Farm 15. Miscollaneous 16. Livestock - Total	O 0000000	144 3177 1327 71 31 1748	161 <u>4032</u> 1345 129 24 2534	163 <u>1832</u> 450 55 28 1299
17. Horses 18. Cattle 19. Sheep 20. Swine 21. Poultry 22. Egg Sales 23. Dairy Sales	\$ \$ \$ \$ \$ \$ \$ \$ \$	206 34 742 92 198 476	183 34 813 150 290 1064	283 5 579 49 177 206
24. Expenses - Net Decreases - Total 25. Farm Improvements 26. Livestock	\$\tau_{\tau}\tau}\tau_{\tau}\tau_{\tau}\tau_{\tau}\tau_{\tau}\tau_{\tau}\tau_{\tau}\tau_{\tau}\tau_{\tau}\tau_{\tau}\tau_{\tau}\tau_{\tau}\tau_{\tau}\tau}\tau_{\tau}\tau_{\tau}\tau_{\tau}\tau_{\tau}\tau_{\tau}	<u>1036</u> 126 29	1062 97 31	884 131 27
27. Horses 28. Cattle 29. Sheep 30. Swine	ক কে ক ক	29	31	27
31. Poultry 32. Machinery and Equipment 33. Feed and Supplies 34. Livestock Expenses other than feed 35. Crop Expense 36. Labor hired 37. Taxes, Insurance, etc. 38. Miscellaneous	ゆのののののののめ	217 20 167 209 238 30	255 23 162 224 224 234 46	172 18 124 171 218 23
39. Receipts less Expenses 40. Operator's and Unpaid Family Labor 41. Net Income from Investment	C) C) ()	2141 687 1454	2970 709 2261	948 615 333
42. Farms with Tractor - Percent 43. Value of land per Acre 44. Total Investment per Acre	5/2 \$\$	31.7 85. 115	30.8 72 102	23.1 75 104

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Find Your Farm Leaks - (Wabash, Edwards, Richland, Lawrence counties - 1924)

The numbers just above the line across the middle of the page are approximately the average for your county for the factors named at the top of the page. By drawing a line across each column at the number measuring the officiency of your farm in that factor, you can compare your efficiency with that of other farmers in your community.

Size	Farm	240	235	225	215	205	195	135	175	165	155	145	135	125	115	105	95
Gross Recep.	per A.	32	30	28	26	성	22	20	13	16	14	12	10	ന	9	4	2
$1 \sim 2$	Income	13	18	3. 4.	30	36	42	48	54	09	66	72	78	3 4	86	93	104
es per Horse	1	35	33	31	. 29	27	25	23	21	19	17	15	13	11	6	7	Ŋ
Crop Acr Man		129	121	113	105	26	68	81	73	ć S	27	49	41	33	25	17	6
Mån Lab. Cost per		1.75	2.25	2.75	3.25	3.75	4.25	4.75	5,25	5.75	6.25	6.75	7.25	7.75	6.25	3.75	9.25
Percent Income	C)	26	16	82	46	73	0,7	6.1	55	49	43	37	31	25	19	13	7
ن 001 in	Poultry	303	288	273	258	243	226	213	193	183	168	153	138	123	108	93	78
per	Hogs	387	367	347	327	307	237	267	2.47	227	207	137	167	147	127	107	37
Returns	Cattle	178	168	158	143	138	128	118	103	26	ස 8	73	89	28	43	38	28
	Wheat	19	18	17	16	15	14	13	12	1.1	10	o,	ω	7	9	Ŋ	ძ•
shels per acre of	1 63 1	57	57	51	48	45	42	39	36	33	30	27	24	21	13	15	12
Bushols acre	Corn	63	09	57	54	51	3	45	42	39	36	33	30	27	24	21	13
Rate	Earned	14,25	13.25	12.25	11.25	10.25	9.25	8.25	7.25	6.25	5.25	4.25	3.25	2,25	1.25	0.25	-0.75



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expect to do on an average of a number of years when compared with either grain or dairy farms. In spite of this fact the larger proportion of livestock returns on the better farms indicate that good livestock properly handled paid even under the adverse price situation.

Success with livestock, as with crop production, depends upon a number of factors among which the following should be noted: Raising a large per cent. of young animals, sanitation, prevention of disease, ability in buying and selling livestock, keeping animals of good quality, good feeding practices - especially the growing of sufficient legume forage to supply most of the protein requirements, careful purchasing of additional protein and mineral supplements when needed, and the economical use of roughage which is available on all farms.

Some men are more successful than others in handling livestock. It is not tecommended that anyone quickly change his practice and suddonly go into extensive feeding or breeding operations. It is better to work gradually into the livestock business, building up either breeding or feeding operations as he finds that livestock is filling a place in his system of farming.

4. Use of Man and Horse Labor. One of the best measures of the use of labor is the number of crop acres worked per man or per horse when the farms are of the same general type. When the cost of man labor and horse labor are noted it emphasizes at once the importance of watching these items of expense and arranging the organization of the farm to make efficient use of labor.

Cost accounting data secured on 18 farms in the same community for the same year show that the net cest of keeping a work herse ranged from \$63.76 to \$124.15; or an average of \$93.08 per horse. When it is considered that a horse usually works about 20 acres of crops when a tractor is not employed, it means that horse labor costs will range from \$3.50 to over \$6.00 per acre on different farms. This wide range in the cost of horse labor is dependent not only on the number of acres handled with one horse, but also upon the economy with which the horse is fed and whether or not other items of expense are kept at a lew figure. The careful planning of a rotation of crops is probably one of the best ways to reduce both man and horse labor costs. A rotation should be chosen so that as uniform an amount of man and horse labor is required from early spring until late fall as possible. Frequently the size of certain enterprises within the farm business may be adjusted to utilize the available family labor to advantage. Feeding down crops and keeping enough livestock to utilize labor during the seasons when farm work is light are other definite means of increasing the efficiency with which labor is used. Repeated study of farm records over the state indicate that occasionally a man may reduce the amount of both man labor and horse labor to a point where lower profits are secured from both crop and livestock entorprises because of a lack of well directed labor. It is usually found, however, that the more profitable farms not only secure larger yields per acre, but they handle a larger acreage per worker or per horse.

5. Expense per \$100. Gross Income. This is a measure of thrift in all parts of the farm business. It does not misrepresent a farm which has a large expense if the income is correspondingly high. However, it is a well-known principle in all business organization that expenses must be kept low in proportion to income if the business is to prove profitable. Cost accounts kept on 18 farms in the same community showed that the annual building expense per acre varied from \$1.42 to \$6.63 per acre; the annual expense for fences varied from \$0.32 to \$2.36 per acre, and machinery and equipment expenses varied from \$0.83 per acre to \$2.46. These data show how much more efficient some farmers are than others in keeping expenses low.

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Farmers who are most successful in keeping expenses low in propertion to the income plan their work so as to make the labor of themselves and members of the family as productive as possible. Enterprises are included in the farm business that utilize available labor at all seasons of the year. while they secure good varieties of seed, in so far as possible, they maise and propare their own seed. Rainy days and off seasons are used to repair buildings, fences, machinery, and harness. This prolongs the life of equipment, saves in the purchase of new equipment and also saves paying out money for highly paid skilled labor. By having equipment in shape they also save the expense incident to delay in the busy season caused by broken machinery or fences, which might have been prevented by timely repair.

6. Size of Farm. In most types of farming there is a limit to the amount of product which can be prefitably secured per acre. When one finds his farm is smaller than the more profitable farms in his locality and his income is low even though he has good crop yields and good returns from livestock, a weakness is frequently found in the small size of farm. This situation may be remedied by buying or renting additional land or changing the type of farming to a more highly intensive or specialized type which will bring a larger volume of production. be recognized, however, that seme men have more ability than others in handling a large sized business. Some men may find their farm is considerably larger than the best paying farms, but the income is low because of too large an area handled from one point. Some farmers may find that they can secure a larger net profit by renting out some land and doing more efficient work on a smaller acroago. It is a wellknown principle of farm management that a farm must be large enough to utilize capital in the form of buildings, machinery and other equipment, and labor in an economical way. Just how large the farm should be, however, is a question which depends upon the ability of the operator himself as a manager.

Balanced Farming Pays.

Each of the factors previously discussed plays a part in determining farm profits. Full success in farming requires that all parts of the farmer's business be given attention. One may have good crop yields and make good use of livestock, but receive a small net income because of inefficient use of labor. Or one may work a large acreage per man and per horse, but fail because of low crop yields or poor returns from livestock. A well balanced farm with a fair degree of efficiency along all lines brings the operator returns which will enable him to maintain a good standard of living for his family.



SUMMARY OF FARM BUSINESS RECORDS WILL COUNTY - 1924

Prepared by H.C.N.Case, M.L.Mosher, M.H.Mvers*

The 34 farmers in your county who kept farm records in 1924 in the book prepared by the Extension Service earned a rate of 6.25% on an average investment of \$42,807.00 after figuring their own time at \$600.00 per year. These farms averaged 188.2 acres in size. The Labor and Management wage which represents what a man has left as pay for his own work and managing ability after paying all expenses and allowing 5 per cent. interest on the total investment, amounted to \$1126.00 as an average for all farmers. The value of the food products furnished the home and the use of the dwelling house represent an income in addition to that shown. On 11 farms in Champaign and Piatt counties a careful record was kept of these two items, the value of which amounted to \$726.00 per farm at farm prices.

A comparison with other farmers in your community will help you to find at what point you can strengthen your farm. The table on page 2 shows the average results of the 34 farms in comparison with those of more profitable and less profitable farms. The 11 most profitable farms earned 9.64% on the investment, while the least profitable group made only 2.61%. Expressed as the Labor and Management wage, the better group made an average labor income of \$2739. while the least profitable group lacked \$452. of having anything left to pay the manager for his own labor and management, a difference of \$3191.00. In comparing the more profitable farms with the least profitable it will be noted that the 11 more profitable farms averaged over 50 acres larger in size, making it possible to use equipment, machinery and labor to greater advantage.

The records show that the more profitable group had larger crop yields and a larger percentage of the tillable land in legume crops. The more profitable farms received over 35% larger returns for every \$100.00 invested in productive livestock and the same was true for each class of livestock. Also they received 57.6% of their income from livestock compared with only 49.2% on the least profitable farms. The more profitable farms then had larger crop yields, better livestock and a larger percentage of their return from livestock. They also handled about 9 acres more crops with each man and 3 acres more crops with each horse than did the least profitable group, a factor which was responsible for a slightly lower labor cost per acre.

For every \$100.00 taken in, the 11 most profitable farms had an expense of \$41.30 while the 11 least profitable farms had an expense of \$71.70. This may be due to any one of a large number of items of cost, but as shown, the more profitable farms kept the machinery expenses and building and fencing expenses as well as other operating expenses at a lower figure per acre. While this may be due in part to the size of the farms, usually, low expenses per \$100 income mean that no unnecessary expenditures are made. The more profitable farms received \$10.46 larger gross returns per acre and their expenses were \$1.68 less per acre than on the 11 least profitable farms, giving as a result the net receipts of \$19.78 per acre as compared with only \$6.44 per acre on the 11 least profitable farms.

^{*} J. F. Hedgeock and R. F. Clark, farm advisers in Will County, cooperated in supervising and collecting the records used in this report.

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A detailed statement of the farm earnings is given on page 3, while on page 4 you will find a chart on which you may plot the results from your own farm which will show at what points your farm showed strength or weakness.

Factors helping to analyze	Your		Average of 34	ll most profitable	ll least profitable
the farm business	Farm		farms.	farms.	farms.
Rate Earned Labor & Management Wage	\$	%	6,26% \$1126.	9.64% \$2739.	2.61% \$-452.
Size of Farm - Acres Crop Yields - Corn - Bushels Oats - Bushels Wheat - Bushels Percent of land area Tillable Percent of tillable land in legumes		50160	185,2 31.2 53.7 29.7 95.6 15.1	223.2 35.7 55.2 31.0 91.8 18.9	165.1 24.8 51.8 27.1 97.5 15.2
Returns per \$100. invested in all productive livestock	\$		120.85	139.60	103.15
For \$100. in - Cattle - Swine - Poultry	(1) (3) (3)		101.95 147.50 169.00	128,90 154,20 194,20	93.60 122.70 132.60
Percent of gross Income from Livestoch	<u> </u>	%	52.8	57.4	49.2
Man Labor Cost per Acre Crop Acres per Man Crop Acres per Horse(With tractor) (Without tractor) Expense per \$100.00 gross income Machinery Cost per Acre Building & Fencing cost per Acre	₩ ₩ ₩ ₩		6.47 80.3 26.2 23.1 50.43 2.89 1.42	6.18 87.1 31.7 19.7 40.85 2.85 1.29	6.43 77.9 27.3 20.2 70.83 3.10 1.59
Gross Receipts per Acre Total Expenses per Acre Net receipts per Acre	6) () ()		25.74 14.50 14.24	33.52 13.74 19.78	22.06 15.62 6.44

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	Your farm	Average of 34 farms.	ll most profitable farms.	ll least profitable farms.
1. Capital Investment - Total 2. Land 3. Farm Improvements 4. Machinery and Equipment 5. Feed and Supplies 6. Livestock	₩₩₩₩₩₩	\$ <u>42807</u> 31459 4691 1949 1970 2738	\$ <u>45788</u> 33869 4374 2211 2224 3110	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
7. Horses 8. Cattle 9. Sheep 10. Swine 11. Foultry	0 0 0 0 0 0 0	600 1 ¹ 425 16 539 158	602 1637 14 725 132	623 1227 13 348 184
12. Receipts - Net Increases - Total 13. Feed and Grain 14. Labor off Farm 15. Miscellaneous 16. Livestock - Total	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	5 <u>1:09</u> 2379 88 86 2836	7481 3059 56 66 4300	3709 1764 84 37 1824
17. Horses 18. Cattle 19. Sheep 20. Swine 21. Poultry 22. Egg Sales 23. Dairy Sales	00000000000000000000000000000000000000	522 59 977 95 172 1031	1237 15 1489 113 147 1295	174 13 428 95 148 966
24. Expenses - Net Decreases - Total 25. Farm Improvements 26. Livestock	\$	1906 268 13	222 <u>5</u> 288	1861 267 30
Horses 28. Cattle 29. Sheep 30. Swine 31. Poultry	ው ው ው ው ው ው ው ው	13		30
32. Machinery and Equipment 33. Feed and Supplies 34. Livestock Expense other than feed 35. Crop Expense 36. Labor hired 37. Taxes, Insurance, etc. 38. Miscellaneous	* :	545 - 97 207 396 519 61	637 108 247 559 370 36	522 102 206 316 303 115
39. Receipts less Expenses 40. Operators and Unpaid Family Labor 41. Net Income from Investment	\$ 63 65	3503 822 2681	5256 841 4415	1848 766 1082
42. Farms with Tractor - Percent 43. Value of land per Acre 44. Total Investment per Acre	% \$	67.6% 167 227	72.7% 152 205	63.6% 182 247

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Find Your Farm Leaks - (Will County - 1924)

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 community. The numbers just above the line across the middle of the page are approximately the average for your county for

															_	4 -	
Size	oi Farm	293	275	263	S48	233	218	203	188	173	158	143	128	113	98	83	99
Gross	recep. per Acre	43	41	39	37	35	33	31	29	27	25	23	21	19	17	15	13
Expense	per \$100 Income	15	50	25	30	35	01/	7+5	50	55	09	65	02	75	80	85	96
E .	o Trac	30	53	28	27	26	25	57	23	22	21	50	19	18	17	16	15
Acres	Tractor M	94	38	36	3/4	32	30	28	56	7,2	22	20	18	16	77	12	10
Crops	wan	122	116	110	104	86	92	98	80	47	89	62	12	50	† † †	38	32
Man Lab.	S. Acre	3.00	3.50	1,000	4.50	2.00	5.50	00.9	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00	10.50
	from L.	95	68	83	77	7.1	65	59	53	14	τ ή	35	59	23	17	11	5
	1 6 3	337	313	589	265	241	217	193	169	145	121	16	73	64	25	7	-23
Returnæ per	Hogs	560	†\†2	228	212	196	180	164	148	122	106	96	7,2	58	745	56	10
Retur	Cattle	2,42	222	202	182	162	142	122	102	82	62	24	22	N	-20	04-	-60
	Theat	51	 84 48	45	745	39	36	33	30	27	- †2	21	18	15	12	6	9
Bushels per		68	ή8	19	7/	69	49	59	2,4	64	 ‡	39	ηξ.	59	72	19	† ₁
Bus	Corn (59	55	51	24	43	39	35	31	27	23	19	15	11		2	0
Rate	Earned	13.25	12.25	11.25	10.25	9.25	8.25	7:25	6-25	5.25	4.25	3.25	2.25	1.25	0.25	-1.25	-2.25

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HOW TO STUDY YOUR FARM RECORD

We shall endeavor in the following discussion to point out the importance of certain factors in their influence on the farm profits. Cost of production data will frequently be referred to. The cost of producing farm products has been studied during the past twelve years in different parts of Illinois. While your record does not permit determining the cost of producing separate products on your farm, the information from your farm does enable you to learn whether the different parts of your business correspond favorably with other farms in your community. A study of a group of farm records from any community always impresses one with the fact that each farmer can profit at some point from studying the results obtained by his more efficient farmer neighbors.

Different factors which we wish to call to your attention include the following:

- l. Total Farm Earnings. These are shown first in terms of the rate carned on the total farm investment, and second, in terms of the Labor and Management wage. However, in studying the farm earnings you will be interested in noting the last three items on page 2 which show the wide differences between the one-third most profitable and the one-third least profitable farms in the gross receipts and the total expenses per acre, and in the resulting difference in the net receipts per acre. These wide differences in farm earnings call for an analysis of a number of different factors which affect the farm earnings. These factors are included in the following discussion in which we endeavor to point out why these different factors are of special importance.
- 2. Crop Yields. Good crop yields are one essential requirement for good incomes. Cost of production studies on 18 farms in one community showed that the cost of producing a bushel of corn varied from 39¢ on one farm to 79¢ per bushel on another farm for the same year. Similar differences occurred on other crops. A large part of the difference in cost is due to the difference in yield per acre. It is not uncommon to find a difference of 25¢ a bushel in the cost of producing corn which can be attributed directly to the difference in the yield per acre since most items of cost do not increase as the yield increases. When crop yields are low one can well afford to study the practices of men who secure higher yields. In order to determine what is responsible for these differences attention should be given to the rotation of crops, quality and variety of seed, use of legumes and manure, use of limestone and phosphate where needed, preparation of seed bed, cultivation, protection from disease and insects, and drainage.
- 3. Returns from Livestock. One of the best measures of the efficiency of livestock, in these records, is the returns per \$100.00 invested. The returns per \$100.00 worth of feed fed any class of livestock, however, gives you more reliable information as to whether the efficiency of that class of livestock may be improved. You are urged, therefore, to keep the feed record on pages 38 and 39 of the farm account book, at least for the livestock from which you receive considerable income. As evidence of the wide variation in livestock efficiency on farms, cost accounts secured on 18 farms in the same community showed a range in the cost of feed in producing pork of \$4.18 to \$8.81 per 100 pounds gain in weight for the same year.

The per cent. of total receipts from livestock enables one to know how large a factor livestock is in determining the farm income. On some farms where livestock represented a considerable part of the income in 1924 the earnings were reduced due to the abnormal price situation. As compared with the five-year average of farm prices from 1909 to 1914 the prices of meat animals in 1924 were only 9% higher than for the five-year period, while the prices of grains were 29% and the prices of dairy products and eggs were 37% higher. This means that farms which were heavy producers

of meat animals in 1924 did not fare so well as they might expect to do on an average of a number of years when compared with either grain or dairy farms. In spite of this fact the larger proportion of livestock returns on the better farms indicate that good livestock properly handled paid even under the adverse price situation.

Success with livestock, as with crop production, depends upon a number of factors among which the following should be noted: Raising a large per cent. of young animals, sanitation, prevention of disease, ability in buying and selling livestock, keeping animals of good quality, good feeding practices — especially the growing of sufficient legume forage to supply most of the protein requirements, careful purchasing of additional protein and mineral supplements when needed, and the economical use of roughage which is available on all farms.

Some men are more successful than others in handling livestock. It is not recommended that anyone quickly change his practice and suddenly go into extensive feeding or breeding operations. It is better to work gradually into the livestock business, building up either breeding or feeding operations as he finds that livestock is filling a place in his system of farming.

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Cost accounting data secured on 18 farms in the same community for the same year show that the net cost of keeping a work horse ranged from \$63.76 to \$124.15; or an average of \$93.08 per horse. When it is considered that a horse usually works about 20 acres of crops when a tractor is not employed, it means that horse labor costs will range from \$3.50 to over \$6.00 per acre on different farms. This wide range in the cost of horse labor is dependent not only on the number of acres handled with one horse, but also upon the economy with which the horse is fed and whether or not other items of expense are kept at a low figure. The careful planning of a rotation of crops is probably one of the best ways to reduce both man and horse labor costs. A rotation should be chosen so that as uniform an amount of man and horse labor is required from early spring until late fall as possible. Frequently the size of certain enterprises within the farm business may be adjusted ' to utilize the available family labor to advantage. Feeding down crops and keeping enough livestock to utilize labor during the seasons when farm work is light are other definite means of increasing the efficiency with which labor is used. Repeated study of farm records over the state indicate that occasionally a man may reduce the amount of both man labor and horse labor to a point where lower profits are secured from both crop and livestock enterprises because of a lack of well directed labor. It is usually found, however, that the more profitable farms not only secure larger yields per acre, but they handle a larger acreage per worker or per horse.

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6. Size of Farm. In most types of farming there is a limit to the amount of product which can be profitably secured per acre. When one finds his farm is smaller than the more profitable farms in his locality and his income is low even though he has good crop yields and good returns from livestock, a weakness is frequently found in the small size of farm. This situation may be remedied by buying or renting additional land or changing the type of farming to a more highly intensive or specialized type which will bring a larger volume of production. It must be recognized, however, that some men have more ability than others in handling a large sized business. Some men may find their farm is considerably larger than the best paying farms, but the income is low because of too large an area handled from one point. Some farmers may find that they can secure a larger net profit by renting out some land and doing more efficient work on a smaller acreage. It is a wellknown principle of farm management that a farm must be large enough to utilize capital in the form of buildings, machinery and other equipment, and labor in an economical way. Just how large the farm should be, however, is a question which depends upon the ability of the operator himself as a manager.

Balanced Farming Pays

Each of the factors previously discussed plays a part in determining farm profits. Full success in farming requires that all parts of the farmer's business be given attention. One may have good crop yields and make good use of livestock, but receive a small net income because of inefficient use of labor. Or one may work a large acreage per man and per horse, but fail because of low crop yields or poor returns from livestock. A well balanced farm with a fair degree of efficiency along all lines brings the operator returns which will enable him to maintain a good standard of living for his family.



ANNUAL FARM BUSINESS REPORT WOODFORD COUNTY - 1924

Prepared by H.C.M.Case, M.L.Mosher, K.H.Myers*

The 101 farmers in your county who kept farm records in 1924 in the book prepared by the Extension Service earned a rate of 7.24% on an average investment of \$58,565.00 after figuring their own time at about \$600.00 per year. These farms averaged 208.1 acres in size. The Labor and Management wage which represents what a man has left as pay for his own work and managing ability after paying all expenses and allowing 5 per cent. interest on the total investment, amounted to \$1890.00 as an average for all farmers. The value of the food products furnished the home and the use of the dwelling house represent an income in addition to that shown. On 11 farms in Champaign and Piatt counties a careful record was kept of these two items, the value of which amounted to \$726.00 per farm at farm prices.

A comparison with other farmers in your community will help you to find at what point you can strengthen your farm. The table on page 2 shows the average results of the 101 farms in comparison with those of more profitable and less profitable farms. The 34 most profitable farms earned 9.83% on the investment, while the least profitable group made only 4.36%. Expressed as the Labor and Management wage, the better group made an average labor income of \$3564. while the least profitable group had an average of \$204.00, a difference of \$3360.00. In comparing the more profitable farms with the least profitable it will be noted that the 34 more profitable farms averaged over 23 acres larger in size, making it possible to use equipment, machinery and labor to greater advantage.

As shown on page 2, the more profitable group received larger crop yields than did the least profitable group. They also had a larger percent of tillable land on their farms and both groups of farms had considerable land in legume crops. They received a 25% larger return for each \$100. invested in productive livestock, but their livestock represented only 30.2% of the total gross income compared to 40.7% on the lower group. The more profitable farms then had larger crop yields and better livestock but a smaller percentage of their return from livestock. This indicates that the more strictly grain farms with livestock well handled paid better in 1924 than the farms with more livestock. This is an abnormal condition, however, and no interpretation should be given without reading the explanation of prices given on page 5. They also handled about 12.5 acres more crops with each man and 3 acres more crops with each horse than did the least profitable group, a factor which was responsible for a slightly lower labor cost per acre.

For every \$100. taken in, the 34 most profitable farms had an expense of \$30.13, while the 34 least profitable farms had an expense of \$50.55. This may be due to any one of a large number of items of cost, but as shown, the more profitable farms kept the machinery expenses and building and fencing expenses as well as other operating expenses at a lower figure per acre. While this may be due in part to the size of the farms, usually, low expenses per \$100. income mean that no unnecessary expenditures are made. The more profitable farms received larger gross returns per acre and their expenses were less per acre than on the 34 least profitable farms, giving as a result the net receipts of \$27.61 per acre as compared with only \$11.90 per acre on the 34 least profitable farms.

^{*} P. E. Johnston and L. J. Berry, farm advisers in Woodford County, cooperated in supervising and collecting the records used in this report.

A detailed statement of the farm earnings is given on page 3, while on page 4 you will find a chart on which you may plot the results from your own farm which will show at what points your farm showed strength or weakness.

Factors helping to analyze the farm business	Your		Average of 101	-	34 least profitable farms
the lam business	farm		farms	farms	larms
Rate Earned Labor & Management Wage	\$	90	7.24% \$1890.	9.83% \$3564.	4.36% \$204.
Size of Farm - Acres Crop Yields - Corn - Bushels Dats - Bushels Wheat - Bushels Percent of land area Tillable Percent of tillable land in legumes		50,50	208.1 48.0 50.8 24.4 89.5 11.4	218.6 49.8 51.1 28.3 95.4 9.4	195.5 44.5 49.1 23.7 82.5 13.1
Returns per \$100. invested in all productive livestock	\$		119.30	129.80	104.80
For \$100. in - Cattle - Swine - Poultry	\$\$\$		72.30 169.25 166.66	76.10 183.00 169.25	57.50 152.70 163.30
Percent of gross Income from Livestoc	 - -	%	33.9	30.2	40.7
Man Labor Cost per Acre Crop Acres per Man Crop Acres per Horse(With tractor) (Without tractor) Expense per \$100. gross Income Machinery Cost per Acre Building & Fencing cost per Acre	\$ \$ \$		5.82 90.7 24.7 19.9 37.47 2.04	5.68 95.5 25.1 22.0 30.13 1.81	5.80 83.0 22.2 17.3 50.55 2.24 1.00
Gross Receipts per Acre Total Expenses per Acre Net Receipts per Acre	\$\$		32.58 12.21 20.37	39.52 11.91 27.61	24.07 12.17 11.90

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		Your	Average of 101 farms	34 most profitable farms	34 least profitable farms
1. 2. 3. 4. 5. 6.	Capital Investment - Total Land Farm Improvements Machinery and Equipment Feed and Supplies Livestock	***	\$585 <u>65</u> 47531 3824 1568 2987 2655	\$ <u>61370</u> 50094 3509 1500 3472 2795	\$53340 43286 3569 1631 2347 2507
7. 8. 9. 10.	Horses Cattle Sheep Swine Poultry	## ## ## ## ## ## ## ## ## ## ## ## ##	842 910 65 697 141	896 987 48 734 130	777 851 40 693 146
12. 13. 14. 15. 16.	Receipts - Net Increases - Total Feed and Grain Labor off Farm Miscellaneous Livestock - Total	\$ \$ \$ \$ \$ \$ \$ \$	6779 4399 26 54 2300	8640 5959 37 34 2610	4706 2703 17 68 1918
17. 18. 19. 20. 21. 22. 23.	Horses Cattle Sheep Swine Poultry Egg Sales Dairy Sales	\$\$ \$\$ \$\$ \$\$ \$\$	2 404 75 1328 89 144 258	2 466 83 1567 95 122 275	77 166 213
24. 25. 26.	Expenses - Net Decreases -Total Farm Improvements Livestock	\$ \	1762 203 	1820 193 	<u>1660</u> 194 6
27. 28. 29. 30.	Horses Cattle Sheep Swine	\$ \$ \$ \$ \$ \$ \$			6
31. 32. 33. 34. 35. 36. 37. 38.	Poultry Machinery and Equipment Feed and Supplies Livestock Expense other than f Crop Expense Labor hired Taxes, Insurance, etc. Miscellaneous	1 '	426 46 191 433 432 31	395 42 218 460 482 30	438 44 166 414 371 27
39. 40. 41.		\$ \$ \$	5017 779 4328 4238	6820 783 6037	304 <u>6</u> 719 2327
42. 43. 44.	Farms with Tractor - Percent Value of land per Acre Total Investment per Acre	% \$ \$	53.4% 228 281	52.9% 239 281	50.0% 221 273



Find Your Farm Leaks - (Woodford County - 1924)

The numbers just above the line across the middle of the page are approximately the average for your county 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 community.

Size	124	348	328	308	288	268	248	228	208	153	168	148	128	108	88	68	24
Gross Recep.	oer Ac	54	51	24	45	24	39	36`	33	30	27	42	21	18	15	12	6
Expense per \$100	Income	3	€0	13	18	23	28	33	35	43	84	53	58	63	63	73	22
per	No Trac.	27	56	25	45	23	22	21	20	19	13	17	16	15	17	13	12
Acres	1 1	911	143	017	37	34	31	28	25	22	19	16	13	10	_	<i>‡</i>	7
Crops		132	126	120	114	108	102	96	90	ħ3	28	72	99	09	54	24	742
Man Lab.	. Acre	2.50	3.00	3.50	٥٥٠٠	4.50	5.00	5.50	00.9	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00
Percent Income	from L.S	96	82	47	99	58	50	745	34	56	18	10	<.	0			
100	Poultry	336	312	288	792	540	214	190	991	142	118	116	70	£	22	-2	-26
per ted i		310	290	270	250	230	210	190	170	150	130	110	96	02	50	30	10
Returns	Cattle	212	192	172	152	132	112	95	72	52	32	12	to	-28	- 748	29-	183
	Wheat	94	143	017	37	34	31	28	25	22	19	16	13	10	2	#	Ч
Bushels per Acre of		98	81	92	7.1	99	61	26	51	94	41	36	31	56	. 12	16	11
Busk	Corn	92	72	89	t ₇ 9	09	22	52	94	#	040	36	32	28	72	20	16
Rate	Earned	14.25	13.25	12.25	11.25	10.25	9.25	8.25	7.25	6.25	5.25	4.25	3.25	2.25	1.25	0.25	-0.75

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We shall endeavor in the following discussion to point out the importance of certain factors in their influence on the farm profits. Cost of production data will frequently be referred to. The cost of producing farm products has been studied during the past twelve years in different parts of Illinois. While your record does not permit determining the cost of producing separate products on your farm, the information from your farm does enable you to learn whether the different parts of your business correspond favorably with other farms in your community. A study of a group of farm records from any community always impresses one with the fact that each farmer can profit at some point from studying the results obtained by his more efficient farmer neighbors.

Different factors which we wish to call to your attention include the following:

- 1. Total Farm Earnings. These are shown first in terms of the rate earned on the total farm investment, and second, in terms of the Labor and Management wage. However, in studying the farm earnings you will be interested in noting the last three items on page 2 which show the wide differences between the one-third most profitable and the one-third least profitable farms in the gross receipts and the total expenses per acre, and in the resulting difference in the net receipts per acre. These wide differences in farm earnings call for an analysis of a number of different factors which affect the farm earnings. These factors are included in the following discussion in which we endeavor to point out why these different factors are of special importance.
- 2. Crop Yields. Good crop yields are one essential requirement for good incomes. Cost of production studies on 18 farms in one community showed that the cost of producing a bushel of corn varied from 39¢ on one farm to 79¢ per bushel on another farm for the same year. Similar differences occurred on other crops. A large part of the difference in cost is due to the difference in yield per acre. It is not uncommon to find a difference of 25¢ a bushel in the cost of producing corn which can be attributed directly to the difference in the yield per acre since most items of cost do not increase as the yield increases. When crop yields are low one can well afford to study the practices of men who secure higher yields. In order to determine what is responsible for these differences attention should be given to the rotation of crops, quality and variety of seed, use of legumes and manure, use of limestone and phosphate where needed, preparation of seed bed, cultivation, protection from disease and insects, and drainage.
- 3. Returns from Livestock. One of the best measures of the efficiency of livestock, in these records, is the returns per \$100.00 invested. The returns per \$100.00 worth of feed fed any class of livestock, however, gives you more reliable information as to whether the efficiency of that class of livestock may be improved. You are urged, therefore, to keep the feed record on pages 38 and 39 of the farm account book, at least for the livestock from which you receive considerable income. As evidence of the wide variation in livestock efficiency on farms, cost accounts accured on 18 farms in the same community showed a range in the cost of feed in producing pork of \$4.18 to \$8.81 per 100 pounds gain in weight for the same year.

The per cent. of total receipts from livestock enables one to know how large a factor livestock is in determining the farm income. On some farms where livestock represented a considerable part of the income in 1924 the earnings were reduced due to the abnormal price situation. As compared with the five-year average of farm prices from 1909 to 1914 the prices of meat animals in 1924 were only 9% higher than for the five-year period, while the prices of grains were 29% and the prices of dairy products and eggs were 37% higher. This means that farms which were heavy producers of meat animals in 1924 did not fare so well as they might

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expect to do on an average of a number of years when compared with either grain or dairy farms. In spite of this fact the larger proportion of livestock returns on the better farms indicate that good livestock properly handled paid even under the adverse price situation.

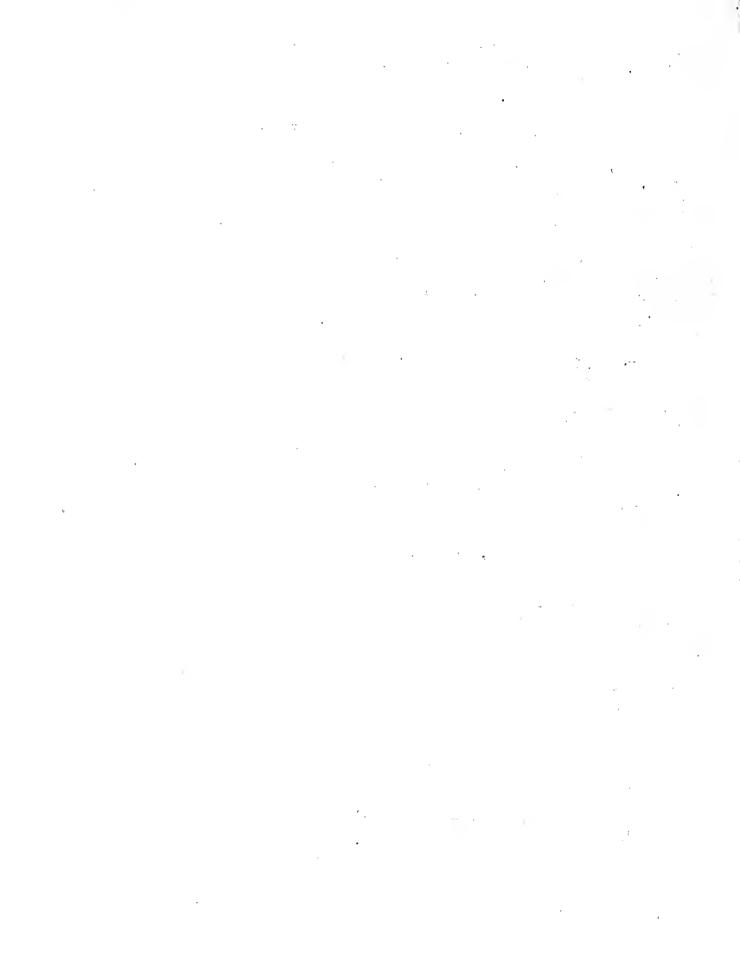
Success with livestock, as with crop production, depends upon a number of factors among which the following should be noted: Raising a large per cent. of young animals, sanitation, prevention of disease, ability in buying and selling livestock, keeping animals of good quality, good feeding practices - especially the growing of sufficient legume forage to supply most of the protein requirements, careful purchasing of additional protein and mineral supplements when needed, and the economical use of roughage which is available on all farms.

Some men are more successful than others in handling livestock. It is not tecommended that anyone quickly change his practice and suddenly go into extensive feeding or breeding operations. It is better to work gradually into the livestock business, building up either breeding or feeding operations as he finds that livestock is filling a place in his system of farming.

4. Use of Man and Horse Laber. One of the best measures of the use of labor is the number of crop acres worked per man or per horse when the farms are of the same general type. When the cost of man labor and horse labor are noted it emphasizes at once the importance of vateling these items of expense and arranging the organization of the farm to make efficient use of labor.

Cost accounting data secured on 18 farms in the same community for the same year show that the net cost of keeping a work herse ranged from \$63.76 to \$124.15; or an average of \$93.08 per horse. When it is considered that a horse usually works about 20 acres of crops when a tractor is not employed, it means that horse labor costs will range from \$0.50 to over \$5.00 per acre on different farms. This wide range in the cost of horse labor is dependent not only on the number of acres handled with one horse, but also upon the economy with which the horse is fed and whether or not other items of expense are kept at a low figure. The careful planning of a rotation of crops is probably one of the best ways to reduce both man and horse labor costs. A rotation should be chosen so that as uniform an amount of man and horse labor is required from early spring until late fall as possible. Frequently the size of certain entermises within the furm business may be adjusted to utilize the available family labor to advantage. Feeding down crops and keeping enough livestock to utilize luber during the seasons when farm work is light are other definite means of increasing the officiency with which labor is used. Repeated study of farm records over the state indicate that occasionally a man may reduce the amount of both man labor and horse labor to a point where lower profits are secured from both crop and livestock enterprises because of a lack d well directed labor. It is usually found, however, that the more profitable farms not only secure larger yields per acre, but they handle a larger acreage per worker or per horse.

5. Expense per \$100. Cross Income. This is a measure of thrift in all parts of the farm business. It does not misrepresent a farm which has a large expense if the income is correspondingly high. However, it is a well-known principle in all business organization that expenses must be kept low in proportion to income if the business is to prove profitable. Cost accounts kept on 18 farms in the same community showed that the annual building expense per acre varied from \$1.42\$ to \$6.63 per acre; the annual expense for fences varied from \$0.32\$ to \$2.36 per acre, and machinery and equipment expenses varied from \$0.83\$ per acre to \$2.46. These data show how much more efficient some farmers are than others in keeping expenses low.



Farmers who are most successful in keeping expenses low in proportion to the income plan their work so as to make the labor of themselves and members of the family as productive as possible. Enterprises are included in the farm business that utilize available labor at all seasons of the year. While they secure good varieties of seed, in so far as possible, they raise and propare their own seed. Rainy days and off seasons are used to repair buildings, fences, machinery, and harness. This prolongs the life of equipment, saves in the purchase of new equipment and also saves paying out money for highly paid skilled labor. By having equipment in shape they also save the expense incident to delay in the busy season caused by broken machinery or fences, which might have been prevented by timely repair.

6. Size of Farm. In most types of farming there is a limit to the amount of product which can be profitably secured per acre. When one finds his farm is smaller than the more profitable farms in his locality and his income is low even though he has good crop yields and good returns from livestock, a weakness is frequently found in the small size of farm. This situation may be remedied by buying or renting additional land or changing the type of farming to a more highly intensive or specialized type which will bring a larger volume of production. be recognized, however, that some men have more ability than others in handling a large sized business. Some men may find their farm is considerably larger than the best paying farms, but the income is low because of too large an area handled from one point. Some farmers may find that they can secure a larger net profit by renting out some land and doing more efficient work on a smaller acreage. It is a wellknown principle of farm management that a farm must be large enough to utilize capital in the form of buildings, machinery and other equipment, and labor in an economical way. Just how large the farm showld be, however, is a question which depends upon the ability of the operator himsolf as a manager.

Balanced Farming Pays.

Each of the factors previously discussed plays a part in determining farm profits. Full success in farming requires that all parts of the farmer's business be given attention. One may have good crop yields and make good use of livestock, but receive a small net income because of inefficient use of labor. Or one may work a large acreage per man and per horse, but fail because of low crop yields or poor returns from livestock. A well balanced farm with a fair degree of efficiency along all lines brings the operator returns which will enable him to maintain a good standard of living for his family.

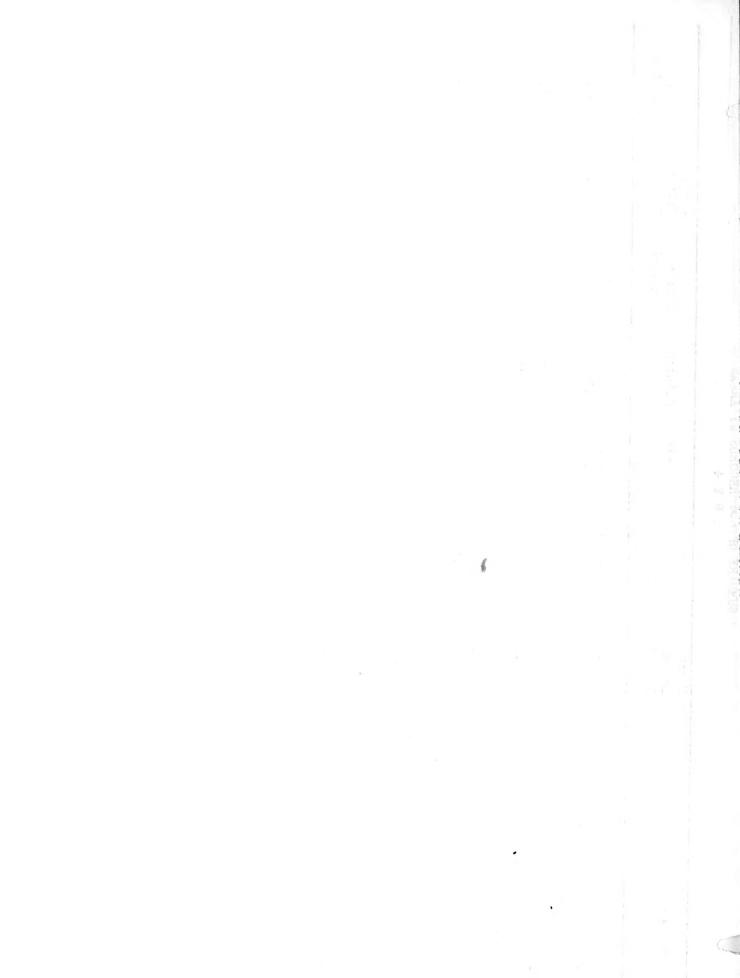


County or Area	Jo Daviess Stophenson Ogle	Will	La Salle	Whiteside Henry Warshall- Put nam	Adams Hancock McDonou _i sh	Woodford	Champaign Ford McLean*
1. Rate Earned 2. Labor & Management wage	3.75% \$ 183.	6.26% 1126.	7.22% 2106.	7.42%	5.34% 723.	7.24% 1890.	7.43% 1868.
3. Size of Farm 4. Percent of Land Tillable 5. Percent of Tillable Land	180.1 82.8% 16.5%	188.2 95.6% 15.1%	247.3 91.0% 14.8%	208.5 85.5% 16.2%	202.2 90.1% 9.7%	208.1 89.5% 11.4%	223.3 95.0% 16.0%
of Crop Yields - Corn - (Bu.) Octs - (Bu.) Wheat- (Bu.)	34.0	31.2 53.7 29.7	41.8 54.7 27.2	41.8 54.9 28.1	41.2 42.4 24.9	48.0 50.8 24.4	40.7 49.0 18.7
7. Percont of gross income from Livestock 8. Returns per \$100. invested	92.1%	52.8%	32.8%	59.4%	69.4%	33.9%	28.5%
	\$ 118.75	120,85	123.05	126.95	140.85	119.30	113.45
9. For \$100 Cattle	80.45	101.95	94,20	88.90	92.90	72.30	86.7 5 154.85
	\$ 103.90	169.00	138.50	157.20	170.00	166.66	148.60
12. Man labor cost per acre	\$ 6.03	6.47	5,92	6.21	5.90	5.82	4,99
per	67.4	80.3	76.3	9.08	74.6	90.7	107.1
14.Crop acres per Horse 15.Percent of Farn with Tractor	21.4 33.3 %	27.2 67.6%	25.3 64.7%	22.1 61.0%	21.1 53.9%	22.6 53.4%	25.05 67.3%
lē.Gross Receipts per acre		28.74	32.67	29.15	23.66	32,58	29,45
17. Total expense per acre	\$ 11.49	14.50	12,91	12.48	12.14	12.21	11.42
18.Net income por acre		14.24	19.76	16.67	11.52	20.37	18.02
19. Value of land per acre	\$ 120.00	167.00	217.00	170.00	165.00	228.00	198,00
20. Total investment per acre	\$ 175.00	227.00	274,00	225.00	216.00	281.00	242.00
21. Number of records in report	\$ 51.00	34.00	34,00	41.00	51.00	101.00	52.00
*Records in the east	part	of McLean County were used	used in this	s report.			

In the east part of McLean County were used in this report.

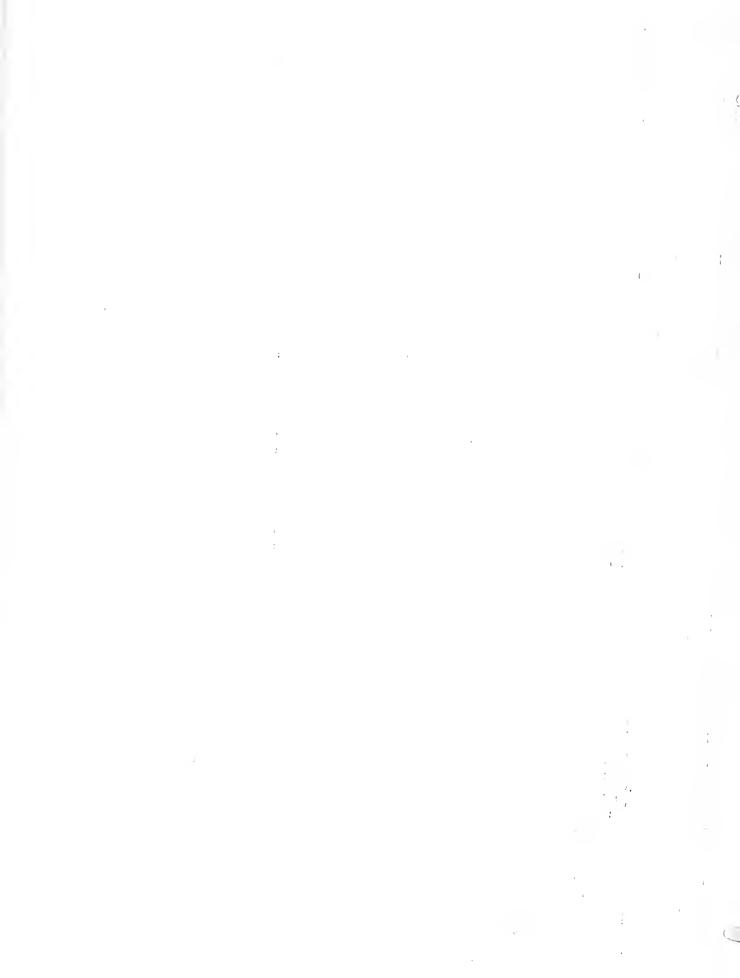
SUMMARY OF 606 RECORDS BY AREAS 1 9 2 4

County or Area	Macon Logan Tazewell McLean*	Douglas Coles Moultrie Clark**	Macoupin Jersey Greene	Clinton	Monroe Randolph	Edwards Wabash Richland Lawrence	Saline Gallatin
1. Rato Earned	7.26%	8. 22%	4.63%	4.73%	4.99%	7.23%	5.43%
2. Labor & Management wage	\$1904	1816	482.	448.	540.	902.	569.
 Size of Farm Percent of Land Tillable Percent of Tillable Land in Legumes 	232.5	200.0	174.3	164.0	175.0	174.3	177.0
	93.8%	91.3%	83.4%	81.5%	77.9%	80.5%	87.7%
	12.5%	15.8%	18.0%	14.3%	21.2%	21.6%	19.1%
6. Crop Yields - Corn - (Bu.) Oats - (Bu.) Wheat- (Bu.)	46.8	45.0	31.1	26.7	30.4	41.7	35.0
	54.3	44.0	34.5	30.1	28.0	35.5	38.1
	20.5	22.1	7.2	8.1	12.8	12.3	15.3
7. Percent of gross income from Livestock 8. Returns per \$100. invested in productive livestock	34.0% 140.60	35.4% 142.10	71.2%	73.0%	38.3% 142.00	55.0%	41.0% 150.25
9. For \$100 Cattle 10. Swine 11. Poultry	91.50	100.90	100.80	146.10	113.50	107.70	94.80
	198.30	199.30	213.30	121.20	166.75	247.15	200.90
	118.60	146.05	205.00	202.10	203.75	197.55	190.70
12. Man labor cost per Acre	5.37	5.16	6.65	6.10	5.95	5.14	4.71
13. Crop acres per Man	88.7	91.5	61.6	64.9	64.6	72.5	61.4
14. Grop acres per Morse	23.4	22.6	17.7	21.2	21.0	21.4	16.3
15. Fercent of Farm with Tractor	56.3%	46.9%	31.7%	20.7%	43.5%	31.7%	30.C%
16. Gross Receipts per acre	31.39	27.64	18.61	15.87	15.11	18.23	16.41
17. Total expense per acre	12.73	11.06	11.87	10.91	10.50	9.89	9.42
18. Net income per acre	18.66	16.58	6.74	4.96	4.61	8.34	6.99
20. Value of land per acre 208.00 20. Total investment per acre 257.00 21. Number of records in report 30.00 *Records in the West part of Melican County work	208.00 257.00 30.00	164.00 202.00 32.00	104.00 146.00 41.00	64.00 105.00 58.00	62.00 93.00 23.00 +he worthwe	0000	97.00 129.00 17.00
Red James III and James James III and James I	an county wer	used in	this report.		in the northwest part this report.	io	Liark County were



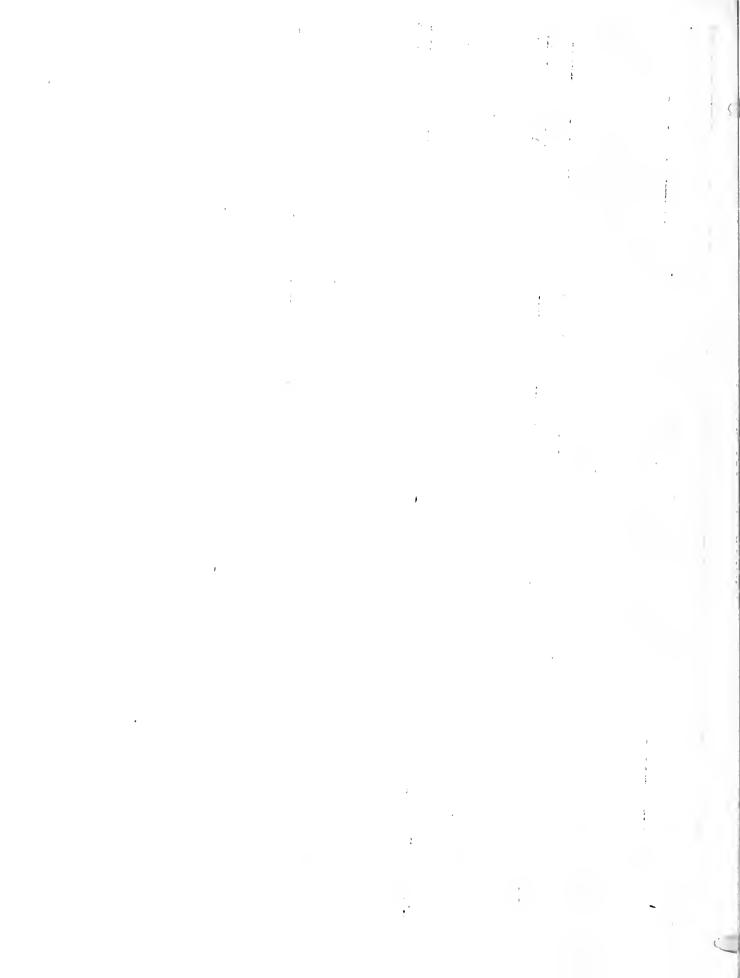
County or area	Jo Daviess Stephenson Ogle	Will	La Salle	Henry Marshall Putnam Whiteside	ndams McDonough Hancock	Woodford	Champaign Ford McLean*
Capital Investment - Total	31.448	42807	67670	46855	43653	<u>58565</u>	54118
Land	21508	31 459	53730	35358	33 442	47531	44303
Farm Improvements	4388	4091	5786	4869	3850	3824	3571
Machinery and Equipment	1261	1949	2101	1457	1417	1568	1397
Feed and Supplies	1510	1970	3205	1973	2179	2987	2637
Livostock	2731	2738	2848	3198	2765	2655	2210
Rocaints - Total	3251	5.409	8079	6079	4784	6779	<u>6576</u>
Feed and Grain	189	2379	5347	2338	1342	3399	4620
Livestock	2033	1653	1924	3177	3017	1898	1.490
Labor off Farm	22	88	50	61	65	26	00
Liscellanocus	45	86	32	39	58	54	17
Dairy Sales	708	1031	644	333	170	258	268
Egg Sales	164	172	824	101	132	144	115
Expenses - Total	1230	1906	2328	1756	1668	1762	18 <u>89</u>
Livestock	13	13	17	28	24		26
Farm Improvements	172	268	344	243	227		256
Machinery and equipment Feed and Supplies Livostock Expense	332	5.45	585	458	413 65	97 1-1	393 38
Crop Expense Labor Hired Taxes, Insurance, etc.	123 245 266 22	207 396 319 61	247 599 438 36	171 449 322 34	159 408 332 40	191 433 432 31	230 451 46 5 30
Receipts less Excenses Operators Labor Unpaid Family Labor	2021	3503	5751	4323	3116	5017	4687
	574	585	604	591	577	580	551
	266	237	261	255	209	199	113
Net Income from Investment	1181	2681	4286	3477	2330	4238	4023

*Records from the east part of McLean County were used in this report.



Saline Gallatin	22764 17245 2159	759 1220 1381	2904 1624 746	59 33 235 207	963	233	. 154 251 251 14	1941 471 234 1236
Wabash Edwards Richland Lawrence	20085 14724 1345	764 1218 1534	3177 1327 1074	71 31 476 193	1036 29 126	217	167 209 238 30	2141 452 235 1454
Monroe Randolph	16207 10716 2087	1210 1131 1063	2644 1501 473	37 94 343 196	931 13 119	328	165 135 149 11	1713 544 363 806
Clinton	17212 10568 2822	1093 1069 1655	260 <u>4</u> 589 449	100 14 1044 408	$\frac{941}{7}$	237	145 156 144 27	1663 494 355 814
Macoupin Jersey Greene	$\frac{25401}{18084}$ 2728	1054 1498 2037	3245 783 1360	75 76 802 149	1263	278 49	194 353 218 34	1982 576 230 1176
Douglas Coles Moultrie Clark**	40366 32869 3015	1048 1525 1909	5528 3503 1554	16 50 338 67	1518 35 173	298	211 337 401 26	4010 518 176 3316
Macon Logan Tazewell McLean*	59691 48385 4148	1673 3065 2420	7298 4695 1976	71 49 419 88	220 <u>1</u> 23 223	593	283 490 483 44	5097 551 208 4338
County or Area	Capital Investment - Total Land Farm Improvements	Machinery and Equipment Feed and Supplies Livestock	Roceints, Total Front Food and Grain	Labor off Farm Miscellancous Dairy Sales Egg Sales	Exponses - <u>Total</u> Livestock Farm Improvements	Lachinery and Equipment Feed and Supplies Livestock Expense	Crop Expense Labor Hired Taxes, Insurance, etc. Liscollaneous	Receipts Less Expenses Operators Labor Unpaid Family Labor Not Income from Investment

*Records in the west part of McLean County were used in this report **Records in the northwest part of Clark County were used in this report.



SUMMARY OF FARM BUSINESS RECORDS (1) CLINTON COUNTY - 1923

Twenty-one Clinton County farmers who kept farm business records in 1923 earned an average rate of 4.54% on an average capital investment of \$20,302. Seven of the twenty-one farmers received an average of 9.52% on their investment, while seven others lacked .31% of their investment, of paying their operating expenses, a difference of 9.83%. In terms of money, this means that the seven more efficient of these twenty-one farmers received an average net income of approximately \$2,000 more than was received by the seven whose farms showed the lowest net incomes.

The following table will help enable each Clinton County farmer who kept these records to find some of the leaks in his farm business, if there have been such leaks in his business.

Rate Earned, Labor and Management : Wage and Factors in which Leaks are most likely to occur	Your Farm	Average of 21 Farms	Seven Mos t : Profitable Farms	Seven Least Profitable Farms
Rate Earned on Investment Labor and Management Wage Libra Yields - Corn - Bushels Oats - Bushels Wheat - Bushels	ý, \$	4.54% \$401. 25.6 38.4 20.1	9.52% \$1238. 25.1 41.5 20.9	31% \$ -571. 18.0 33.4 17.0
Returns per \$100 Invested (2) in all Productive Live Stock For \$100 in Horses For \$100 in Cattle For \$100 in Sheep For \$100 in Poultry	(C)	\$157.04 \$-7.00 \$151.44 \$ \$115.87 \$190.30	\$ 164.02 \$-12.53 \$ 154.19 \$ \$1153.43 \$ 196.11	\$ 136.94 \$ 10.43 \$ 128.17 \$ 87.15 \$ 181.71
Percent of Income from Livestock Crop Acres per Man Crop Acres per Horse Expense per \$100 Gross Income Size of Farm - Acres	% \$	67.4% 52.3 20.6 \$ 68.17 162.7	64.8% 47.7 20.7 \$ 52.11 135.1	76.5% 53.3 19.6 \$ 102.94 170.3

⁽¹⁾ Records secured and summarized by the Clinton County Farm Bureau, Breese, Illinois, and the Department of Farm Organization and Management, University of Illinois, Urbana, Illinois Cooperating.

(2) The average investment at the beginning and end of the year was used in finding these factors.

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Data from Clinton County Records - 1923 (Cont'd)

	Your Farn	Average of 21 Farms	Seven Most Profitable Farms	Seven Least Profitable Farms
1 Value of Land per Acre 2 Capital Investment - Total 3 Land 4 Buildings (1) 5 Machinery and Equipment 6 Feed and Supplies 7 Live stock - Total	\$\tau\$ \$\tau\$ \$\tau\$ \$\tau\$ \$\tau\$\$	\$ 98 \$ 20,302 \$ 16,187 \$ 1,328 \$ 1,059 \$ 2,679	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\$ 97 \$ 20,168 \$ 13,526 \$ 1,073 \$ 926 \$ 1,643
8 Horses 9 Cattle 10 Sheep 11 Swine 12 Poultry	くみ やみ やか ぐか	\$ 474 \$ 856 \$ 3 129 \$ 255	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	435 841 3 9 99 \$ 238
13 Receipts-Net Increases-Total 14 Feed and Supplies 15 Miscellaneous 16 Live Stock - Total	() · () · () · ()	\$\frac{2,867}{769}\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\$ 217	3 2,035 \$ 412 3 16 \$ 1,637
17 Horses 18 Cattle 19 Dairy Products 20 Sheep	Q: 4Q> 4Q>.	\$ 150	\$ - 44 \$ 149 \$ 1,302 \$	\$ - 46 \$ 140 \$ 952 \$
Swine 22 Poultry 23 Eggs 24 Miscellaneous	C 40 00 00	9 146 \$ 142 9 363 9 13	9 201 9 103 9 401 9 27	95 95 185 302 7
25 ExpensesNet DecreasesTotal 26 Farm Improvements 27 Machinery and Equipment 28 Feed and Supplies 29 Cash Expenses	478 CD-CD-CD-CD	\$ 2 93	\$ 932 \$ 183 \$ 233 \$ \$ 518	\$ 1,008 203 233 2 343 2 \$ 452
30 Receipts less Expenses 31 Operator and Famil; Lacor 32 Net Income from Investment	(D) (D)			1,057 1,120 2 - 63
33 Investment per Acre 34 Gross Receipts per Acre 35 Total Expenses per Acre 36 Net Receipts per Acre	49 · 40 · 40 · 40 ·	\$ 17.80 \$ 12.14	123.27 24.53 12.78 11.75	§ 12.57 § 12.93
37 Man Labor per Total Acres 38 Farms with Tractors - Percent	\$	\$ 6.75 14.3%	₹ 3.92 0.0%	3 7.0± 24.3/°
39 Acres of Land in all Crops 40 Corn - Acres 41 Oats - Acres 42 Wheat - Acres 43 Legumes- Acres		119.5 29.6 18.0 47.9 13.7	109.1 21.3 15.0 43.9 10.6	228.1 54.0 17.0 55.0 11.7

⁽¹⁾ The investment in buildings, machinery and equipment, etc. at the beginning of the year was used here.

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Find Your Farm Leaks - (Clinton County - 1923)

The numbers just above the line across the middle of this page are approximately the averages for your county for the factors as named at the tops of the columns. By drawing a line across each column at the point where the number represents your efficiency for that factor, as given on page 1 of this report, you can see where your efficiency is above the average and where it is below the average.

Rate		Bushels Acre o			rns per s			p Acres	Expense per\$100 Gross
arned	Corn	Oats	: Wheat	Cattle	Hogs	Poultry	Man	Horse	Income
9.75	47	59	41	255	325	400	94	42	26
9.50	4 o	58	40	250	315	390	92	41	28
9.25	45	57	39	24 5	305	380	90	40	30
9.00	44	5 6	38	240	295	370	88	39	32
8.75	443	55	37	235	285	360	86	38	34
8.50	42	54	36	230	275	350	84	37	36
8.25	41	53	35	225	265	340	82	36	38
8.00	40	52	34	220	255	3 30	80	35	40
7.75	39	51	33	215	24 5	320	78	34	42
7.50	38	50	32	210	235	310	7 6	33	44
7.25	37	49	31	205	225	300	74	32	46
7.00	36	48	30	200	215	290	72	h	48
6.75	35	47	29	1				31	1
5.50	3 1	46	1	195	205	280	70	30	50
6.25	33	45	28	190	195	270	68	29	52
6.00	32	44	27	185	185	250	66	28	54
5.75		,	26	180	175	250	64	27	56
i	31	43	25	175	165	240	62	26	58
5.50	30	42	24	170	155	230	60	25	60
5.25	29	41	23	165	145	220	5 8	24	62
5.00	28	40	23	160	135	210	5 6	23	64
4.75	27	39	21	155	125	200	5⁴-	22	66
4.50	26	3 8	20	150	115	190	52	21	68
4.25	25	37	19	145	105	180	50	20	70
4.00	24	3 6	18	140	95	170	48	19	72
3.75	23	35	17	135	85	130	46	18	74
3.50	22	34	16	130	75	150	44	17	7 6
3.25	21	33	15	125	65	140	42	16	78
3.00	20	32	14	120	55	1130	40	15	80
2.75	19	31	13	115	45	120	38	14	82
2.50	18	30	12	110	35	110	3 6	13	84
2.25	17	29	11	105	25	100	34	12	86
2.00	16	28	10	100	15	90	32	11.	88
1.75	15	27	9	95	5	80	30	10	. 90
1.50	14	26	8	90	0	70	28	9	92
1.25	13	25	7	85	5	60	26	8	94
1.00	12	24	6	80	-15	50	24	7	96
-75	11	23	5	75	- 25	40	22	6	98
. 50	10	22	4	70 70	-35	30	20	5	100
. 25	9	21.	3	65	-45	20	18	4	10.2
€00	8	20	2	60	-55	10			102
25	7	19	1	55	-55 -65	0	16 14	3	
50	6	18	-	50	-7 5	-10		2	106
75	5	17	_	45	-85	-20	12 10	1	108 110

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Factors Which Merit Special Ettention

Rate Earned on Investmen. The rate earned on the investment is an excellent indication of the managing ability of the farm operator. This is particularly true in regions where the average investment per farm is large. In regions where the average investment per farm is large. In regions where the average investment is small, the Labor and Management Vage is also an excellent measure of managing ability. Anyone whose rate carned on the total farm investment of whose Labor and Vanagement Wage is below the average for his locality can well study the various factors which will indicate the source of a man's success or failure. In this way he may locate the source of his difficulty. The following paragraphs discuss the more important factors influencing farm earnings.

Crop Yields - Good crop yields are among the most definite of requirements for good incomes. One whose crop yields are low in comparison with others working land of equal natural value can well study the practices of men who secure higher yields. Men who secure the best yields pay special attention to rotation of crops, seed, drainage, use of legumes, use of manure, use of limestone and phosphate where needed, preparation of seed beds, cultivation, and protection from diseases, and insects.

Returns from \$100 Invested in Live Stock - Where any considerable part of the income of a farm is from live stock, this stem merits special attention. Where the returns are below the average a careful study of the practices on more successful farms may assist the operator to locate places where he can improve his methods. The difficulty may be in a low percentage of calves, pigs, lambs, etc. raised. It may be in lack of attention to sanitary arrangements and protection from disease. In case of pure bred stock, it may be the inability to market the young stock at prices in accord with the value of the breeding stock. 'In case of stock feeding operations where feeders are purchased it may be in poor buying both as to time and price. It may be in not producing the quality of stock which the market demands. The growing of sufficient legume forage to supply most of the protein requirements, careful purchase and use of additional protein and mineral supplements, and the utilization of roughage are among other important factors which make possible the more economical production of live stock.

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Per cent of Income from Live Stock - In a region where the best paying farms receive a large proportion of their income from live stock, the less successful farmers will do well to consider increasing their income from live stock. This may be done by improving the quality of live stock, by better feeding, sanitary and breeding methods or by increasing the amount of live stock kept. In order to improve the quality of live stock it has not usually proven profitable for a man to invest in a considerable number of high priced pure bred stock at one time. It is a more safe practice to grow the better stock by using good sires and occasionally picking up good females. Neither is it usually wise for a man who has never handled much stock to buy up a large breeding herd or go suddenly into extensive feeding operations. In any case it is better to work gradually into the live stock business, building up equipment, breeding herds and feeding operations slowly, as one learns to follow successful methods.

The Use of Man Labor and Horse Labor - About sixty to eighty per cent of the cost of operating a farm, not including interest or rent charges, is for man labor and horse labor. If a tractor is used the labor is usually reduced, but the machinery expense is increased about in proportion. It costs approximately \$100 per year to keep one work horse when one includes present feed costs, depreciation, interest on investment, barn room, harness costs, etc. If a man finds that he is working fewer crop acres per man or per horse than the average farmer working under similar conditions, he can well study his situation with the idea of cutting down this expense. The changing to a more carefully planned rotation of crops is probably the way in which most men can best reduce the man and horse labor costs. A rotation should be chosen, so as to avoid having a very large labor requirement at any one time, so as to require a uniform amount of man and horse labor from early spring until late fall, and so as to utilize the family labor to best advantage. The feeding down of crops and use of enough live stock to utilize labor at seasons when field work is light are two other very definite means of increasing the efficiency in the use of labor. While the working of a large number of crop acres per man and per horse is desirable, a study of hundreds of records from over the state indicates that some

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men have reduced the amount of both man and horse labor to a point where crop yields and returns from live stock are reduced because of lack of sufficient well directed labor.

Expense per \$100 Gross Income - This is a measure of thrift in all parts of the farm business. Farm records show that men who keep expenses low in proportion to their incomes are men who practice more or less of the following things. They plan their work so as to do as much as possible themselves or with family labor. After getting a few good breeding females, they raise their own breeding stock except for the purchase of pure bred sires. Insofar as feasible they raise and prepare their own seeds. They utilize rainy days and off seasons to repair buildings, fences, machinery and harness. This saves the purchase of much new equipment, the paying out of high wages for skilled labor for such repairs as they can readily do themselves and also saves the expense incident to delay caused by broken machinery or fences during the busy season.

Size of Farm - When one finds that his farm is smaller than the most profitable farms in his locality and his income is low even though he has good crop yields and good returns from liv stock, he may remedy the situation, by buying or renting additional land, or by gradually adopting a more intensive or more specialized type of farming. On the other hand, if he finds that his farm is larger than the best farms and his income is low, he may profit by renting out land, or by planning so as to do more efficient work on his present acreage.

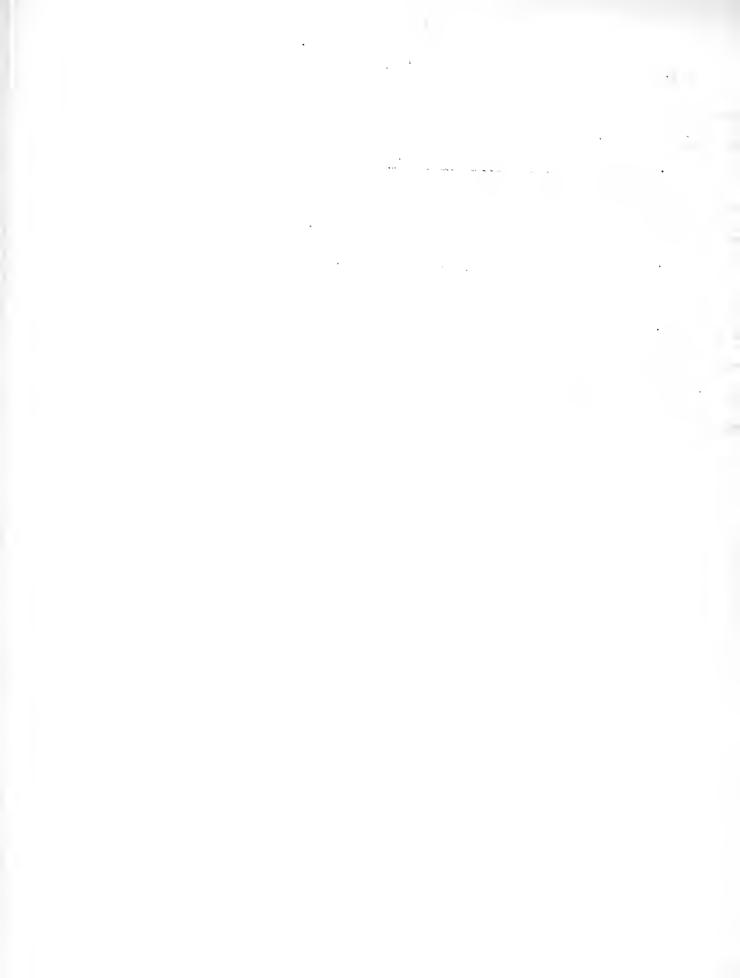
Closing Suggestions

- 1. Leaks in the farm business are most likely to occur along the line of these factors which have been discussed, namely:
 - a. Crop yields
 - b. Returns from investment in live stock
 - c. The proportion of returns from live stock
 - d. Use of man labor
 - e. Use of horse labor
 - f. Expenses in proportion to income
 - g. Size of farm

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- 2. A careful comparison of a man's farm business record beside those of several other men farming under similar conditions will enable him to find the leaks in his farm business.
- 3. There can be no improvement without some change in practices used.

 Carefully planned and slowly developed changes are more likely to result in increased incomes than are impulsive and sudden changes of methods.
- 4. It is the well balanced farm that pays. One may have good crop yields and make good use of live stock, but receive a small net income because of inefficient use of labor. Or one may work a large acreage per man and per horse, but fail because of low crop yields or poor returns from live stock. A well balanced farm with a fair degree of efficiency along all lines brings the operator good returns which enable him to maintain a high standard of living for his family.



SUMMARY OF FARM BUSINESS RECORDS (1) FORD COUNTY - 1923

Nine Ford County farmers who kept farm business records in 1923 earned an average rate of 4.06% on an average capital investment of \$60,152. Three of the nine farmers received an average of 6.48% on their investment, while three others received only 2.33% of their investment, a difference of 4.15%. In terms of money, this means that the three more efficient of these nine farmers received an average net income of approximately \$2500 more than was received by the three whose farms showed the lowest net incomes.

The following table will help enable each Ford County farmer who kept these records to find some of the leaks in his farm business, if there have been such leaks in his business.

Rate Earned, Labor and Management Wage and Factors in which Leaks are likely to occur	Your Farm	Average of 9 Farms	,	Three Least Profitable Farms
Rate Earned on Investment Labor and Management Wage Crop Yields - Corn - Bushels Oats - Bushels Wheat - Bushels	\$	4.06% \$-110. 47.9 41.5 23.0	6.48% \$1475. 50.4 44.4 15.8	2.33% \$-1576. 48.6 41.3 29.6
Returns per \$100 Invested (2) in all Productive Live-stock For \$100 in Horses For \$100 in Cattle For \$100 in Sheep For \$100 in Swine For \$100 in Poultry	C. 49 40 40 69 69	\$ 130,66		\$ 74.15 \$ 9.05 \$ 40.08 \$ 26.61 \$ 126.40 \$ 178.57
Percent of Income from Livestock Crop Acres per Man Crop Acres per Horse Expense per \$100 Gross Income Size of Farm - Acres		50.2 99.5 23.2 \$ 50.10 231.4	42.6 124.0 27.0 3 40.18 253.3	84.0 91.6 20.3 \$ 62.60 267.7

⁽¹⁾ Records secured and summarised by the Ford County Farm Bureau, Gibson City, Illinois, and the Department of Farm Organization and Management, University of Illinois, Urbana, Illinois cooperating.

(2) The average investment at the beginning and end of the year was used in finding these factors.

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Data from Ford County Records - 1923 (Cont'd)

\$ 9 8	Your Farm		Three Most Frofitable Farns	
1 Value of Land per Acre 2 Capital Investment - Total 3 Land 4 Buildings (1) 5 Machinery and Equipment 6 Feed and Supplies 7 Live Stock - Total	C > C > C > C > C > C > C > C > C > C >	\$ 207 \$ 60,152 \$ 47,983 \$ 4,872 \$ 1,273 \$ 2,653 \$ 3,371	\$ 200 \$ 63,233 \$ 50,365 \$ 4,893 \$ 1,605 \$ 3,012	\$ 75,430 \$ 75,430 \$ 58,617 \$ 6,797 \$ 1,372 \$ 2,890 \$ 5,755
8 Horses 9 Cattle 10 Sheep 11 Swine 12 Poultry	C3 - 450 + 69 + 69 + 69 + 60	960 \$ 1,266 \$ 92 \$ 886 \$ 166	793 909 187 931 216	\$ 1,573 \$ 2,466 \$ 90 \$ 1,470 155
13 Receipts-Net Increases-Total 14 Feed and Supplies 15 Miscellaneous 16 Live Stock - Total	\$ \$ \$ \$ \$	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\$ 6,858 \$ 3,929 \$ 10 \$\$ 2,919	4,693 663 58 3,959
17 Horses 18 Cattle 19 Dairy Products 20 Sheep	(A)	\$ 7 \$ 736 \$ 157 .\$ 34	\$- 9 \$ 1,023 \$ 143 \$ 78	\$ 139 \$ 1,060 \$ 199 \$ 25
21 Swine 22 Poultry 23 Eggs 24 Miscellaneous	で 大学 代学 代学 代学 (1) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$ 1,299 \$ 137 \$ 141 \$ 34	\$ 1,178 \$ 234 \$ 202 \$ 70	2,229 19 132 143 18 32
25 Expenses-Net Decreases-Total 26 Farm Improvements 27 Machinery and Equipment 28 Feed and Supplies 29 Cash Expenses		\$ 1,339 \$ 328 \$ 328 \$ 1,303	\$ 2,139 \$ 257 \$ 491 \$ \$ 1,411	\$ 2,454 \$ 436 \$ 343 \$ 1,675
30 Receipts less Expenses 31 Operator and Family Labor 32 Net Income from Investment		\$\ \(\frac{2,953}{5} \) \$\ \(\frac{5}{5} \) \$\ \(2,442 \)	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\$\ \frac{2,245}{488} \ \displies \ \frac{1,762}{1,762}
33 Investment per Acre 34 Gross Receipts per Acre 35 Total Expenses per Acre 36 Net Receipts per Acre		\$ 260.00 \$ 21.15 \$ 8.40 \$ 12.75	5 \$ 27.09 \$ 8,64	\$ 17.59 \$ 9.21
37 Man Labor per Total Acres 38 Farms with Tractors - Percent		\$ 4.25 55.57		b
39 Acres of Land in all Crops 40 Corn - Acres 41 Oats - Acres 42 Wheat - Acres 43 Legumes- Acres		175.0 92.3 46.0 25.9 3.3	110.3 68.3 24.0	39.3 37.7 38.0

⁽¹⁾ The investment in buildings, machinery and equipment, etc. at the beginning of the year was used here.



Find your Farm Leaks - (Ford County - 1923)

The numbers just above the line across the middle of this page are approximately the averages for your county for the factors as named at the tops of the columns. By drawing a line across each column at the point where the number represents your efficiency for that factor as given on page 1 of this report, you can see where your efficiency is above the average and where it is below the average.

: Rate		ashels po	er	2	ns per (Acres	Expense: per\$100 Gross
Earned	Corn	Oats	Wheat	Cattle :	Hogs	Poultry	Man	Horse	Income
9.00	88	82	43	155	330	360	160	43	10
8.75	86	80	42	150	320	350	157	42	12
3.50	84	7 8	41	145	310	340	154	41	14
8,25	82	76	40	140	300	330	151	40	16
8.00	80	74	39	135	290	320	148	39	18
7.75	7 8	72	38	130	280	310	145	38	20
7.50	76	70	37	125	270	300	142	37	22
7.25	74	68	36	120	260	290	139	36	24
7.00	7 2	66	35	115	250	280	136	35	26
6.75	70	64	34	110	240	270	133	34	28
6.50	68	62	33	105	230	260	130	33	30
6.25	66	60	32	100	220	250	127	32	32
6.00	64	58	31	95	210	240	124	31	34
5.75	62	56	30	90	200	230	121	30	36
5.50	60	54	29	85	190	220	118	29	38
5.25	58	5 2	28	80	180	210	115	28	40
5.00	56	50	27	75	170	200	112	27	42
4.75	54	48	26	70	160	190	109	26	44
4.50	52	46	25	65	150	180	106	25	46
4.25	50	44	24	60	140	170	103	24	48
4.00	48	42	23	55	1.30	160	100	23	50
3.75	46	40	22	50	120	150	97	22	52
3,50	44	38	21	45	110	140	94	21	54
3.25	42	36	20	40	100	130	91	20	56
3.00	40	34	19	35	90	120	88	19	58
2.75	38	32	18	30	80	110	85	18	60
2.50	36	30	17	25	70	100	82	17	62
2.25	34	28	16	20	60	90	79	16	64
2.00	32	26	15	15	50	80	7 6	15	66
1.75	30	24	14	10	40	70	73	14	68
1.50	28	22	13	5	30	60	70	13	70
1.25	26	20	12	0	20	50	6 7	12	72
1.00	24	18	11	- 5	10	40	64	11	74
.75	22	16	10	-10	0	30	61	10	7 6
.50	20	14	9	-15	-10	20	58	9	7 8
.25	18	12	8	-20	-20	10	55	8	80
.00.	16	10	7	-25	-30	0	52	7	82
25	14	. 8	6	30	-40	-10	49	6	84
· 50	12	6	5.	- 35	-50	-20	46	5	86
75	10	4	4	-40	-60	-30	43	4	88
-1.00	8	2	3	-45	-70	2 2	40	3	90
-1.25	6	-	2	-50	-80	- 50	37	2	92
-1.50	4	7	1	-55	- 90	. - 60 :	34	1	94



Factors Thich Merit Special Attention

Rate Earned on Investment - The rate earned on the investment is an excellent indication of the managing ability of the farm operator. This is particularly true in regions where the average investment per farm is large. In regions where the average investment is small, the Labor and Management Wage is also an excellent measure of managing ability. Anyone whose rate earned on the total farm investment or whose Labor and Management Wage is below the average for his locality can well study the various factors which will indicate the source of a man's success or failure. In this way he may locate the source of his difficulty. The following paragraphs discuss the force important factors influencing farm earnings.

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Returns from \$100 Invested in Live Stock - where any considerable part of the income of a farm is from live stock, this item merits special attention. Where the returns are below the average a careful study of the practices on rore successful farms may assist the operator to locate places where he can improve his methods. The difficulty may be in a low percentage of calves, rigs, lambs, etc. raised. It may be in lack of attention to sanitary arrangements and protection from disease. In case of pure bred stock, it may be the inability to market the young stock at prices in accord with the value of the breeding stock. *kept.* In case of stock feeding operations where feeders are purchased it may be in poor buying both as to time and price. It may be in not producing the quality of stock which the market demands. The growing of sufficient legume forage to supply most of the protein requirements, careful purchase and use of additional protein and mineral supplements, and the utilization of roughage are among other important factors which take possible the more economical production of live stock.

Per cent of Income from Live Stock - In a region where the best paying farms receive a large proportion of their income from live stock, the less successful farmers will do well to consider increasing their income from live stock. This way be done by improving the quality of live stock, by better feeding, sanitary and breeding methods or by increasing the amount of live stock kept. In order to improve the quality of live stock it has not usually proven profitable for a man to invest in a considerable number of high priced pure bred stock at one time. It is a more safe practice to grow the better stock by using good sires and obcasionally picking up good females. Neither in it usually wise for a min who has never handled much stock to buy up a large breeding herd or go suddenly into extensive feeding operations. In any case it is better to work gradually inso the live stock business, building up equipment, breeding herds and feeding operations slowly, as one learns to follow successful methods.

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men have reduced the amount of both man and horse labor to a point where crop yields and returns from live stock are reduced because of lack of sufficient well directed labor.

Expense per \$100 Gross Income - This is a measure of thrift in all parts of the farm business. Farm records show that men who keep expenses low in proportion to their incomes are men who practice more or less of the following things. They plan their work so as to do as much as possible themselves or with family labor. After getting a few good breeding females, they raise their own breeding stock except for the purchase of pure bred sires. Insofar as feasible they raise and prepare their own seeds. They utilize rainy days and off seasons to repair buildings, fences, machinery and harness. This saves the purchase of much new equipment, the paying out of high wages for skilled labor for such repairs as they can readily do themselves and also saves the expense incident to delay caused by broken machinery or fences during the busy season.

Size of Farm - When one finds that his farm is smaller than the most profitable farms in his locality and his income is low even though he has good crop yields and good returns from live stock, he may remedy the situation, by buying or renting additional land, or by gradually adopting a more intensive or more specialized type of farming. On the other hand, if he finds that his farm is larger than the best farms and his income is low, he may profit by renting out land, or by planning so as to do more efficient work on his present acreage.

Closing Suggestions

- l. Leaks in the farm business are most likely to occur along the line of these factors which have been discussed, namely:
 - a. Crop yields
 - b. Returns from investment in live stock
 - c. The proportion of returns from live stock
 - d. Use of man labor
 - e. Use of horse labor
 - f. Expenses in proportion to income
 - g. Size of farm

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- 2. A careful comparison of a man's farm buttness record busine those of several other men farming under similar conditions will encode him to find the leaks in his farm business.
- 3. There can be no increvement without some change in practices used. Carefully planned and slowly developed changes are nore likely to result in increased incomes than are impulsive and sudden changes of methods.
- 4. It is the well balanced farm that pure. One may have good crop yields and make good use of live stock, but receive a male net inscar because of inefficient use of labor. Or one may work a large acreage per can and per sorse, but fail because of low crop yields or poor returns from live stock. A veril balanced farm with a fair degree of efficiency along all lines orings the operator good returns which enable him to maintain a high standard of living for his fally.

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SULMARY OF FARM BUSINESS RECORDS (1) GALLATIM COUNTY - 1923

earned an average rate of 1.65% on an average capital investment of \$25,256.

Four of the eleven farmers received an average of 3.66% on their investment, while four others lacked .80% of their investment of paying their operating expenses, a difference of 4.46%. In terms of money, this means that the four more efficient of these eleven farmers received an average net income of approximately \$1125 more than was received by the four whose farms showed the lowest net incomes.

The following table will help enable each Gallatin County farmer who kept these records to find some of the leaks in his farm business, if there have been such leaks in his business.

Rate Earned, Labor and Management Wage and Factors in which Leaks are most likely to occur	Your Farm	, –	Four Most Profitable Farms	Four Least Profitable Farms
Rate Earned on Investment Labor and Management Wage Crop Yields - Corn - bushels Oats - bushels Wheat- bushels		1.65% \$-375. 37.9 14.5	3.66% \$ 626. 51.5 12.4	80% \$-828. 37.6 15.2
Returns per \$100 invested in all Productive Live-stock (2) For \$100 in Horses For \$100 in Cattle For \$100 in Sheep For \$100 in Swine For \$100 in Poultry		\$ 132.14 \$- 5.05 \$ 82.47 \$ 151.21 \$ 179.02	\$ 131.32 \$- 5.07 \$ 49.32 \$ 199.61 \$ 214.64	\$ 103.17 \$ - 1.93 \$ 124.90 \$ 65.55 \$ 128.76
Per cent of Income from Live Stock Crop Acres per Man Crop Acres per Horse Expende for \$100 Gross Income Size of Farm - Acres		51.4% 63.7 20.1 \$ 79.14 196.3	44.15 65.9 18.5 \$ 60.56 176.0	59.9% 52.8 16.2 \$ 112.94 207.5

⁽¹⁾ Records secured and summarized by the Gallatin County Farm Bureau, Ridgway, Illinois, and the Department of Farm Organization and Management, University of Illinois, Urbana, Illinois cooperating.

⁽²⁾ The average investment at the beginning and end of the year was used in finding these factors.

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Data from Gallatin County Records - 1923 (Cont'd) Your Average Four Lost Four Least Profitable Profitable Farm of 11 Farms Farms Farms 82. TIC 1. Value of Land per Acre 101 21,853 Capital Investment - Total 25,256 24,392 40° -30° 3 \$ 19,200 16,944 3 Land 19,734 Buildings (1) 4 1,889 2,165 2,110 Machinery and Equipment \$ 5 736 108 \$ 603 Feed and Supplies 6 1,102 9 1,363 \$ 743 Live Stock - Total 7 1,518 \$ 1,674 1,519 8 Horses 632 792 646 \$ 9 Cattle 322 296 368 10 Sheep 31 80 7 11 254 Swine 334 376 12 Poultry 212 S 175 183 Receipts-Net Increases-Total 2,001 1,360 13 2,322 14 Feed and Supplies 916 1,225 Ş 512 Miscellaneous \$ 57 15 72 33 Live Stock - Total 1,028 16 1,0~4 815 17 Horses 31 Ş 31 -14 18 Cattle 78 135 52 \$ 19 Dairy Products 154 3 29 326 20 Sheep 3 2 11 205 21 Swine 439 444 22 Poultry 92 141 74 Ÿ 23 148 Eggs 276 262 24 \$ Miscellaneous 13 55 25 Expenses-Net Decreases-Total 25 957 847 806 26 Farm Improvements 103 Ş 123 81 27 Machinery and Equipment 200 153 147 28 Feed and Supplies ___ Ş ------29 Cash Expenses 577 568 653 30 Receipts less Expenses 1,044 474 544 Operator and Family Labor 559 730 31 627 32 Net Income from Investment 915 176 417 33 Investment per Acre 142.00 3 105.28 128.58 13.19 \$ 34 Gross Receipts per Acre 10.20 6.55 35 Total Expenses per Acre 7.99 3 7.40 8.07 Net Receipts per Acre 5.20 3 - .85 2.13 Man Labor per Total Acres 3.65 4.39 4.04 38 Farm with Tractors 4 1. <u>1</u> 39 125.0 105.5 Acres of Land in all Crops 131.7 40 Corn - Acres 43.3 34.2 47.4 41 Oats - Acres 42 Wheat- Acres 6±.0 61,1-61.1 45.0 43 Legumes - Acres 20.9 17.0 16.8

⁽¹⁾ The investment in buildings, machinery and equipment, etc. at the beginning of the year was used here.



3
Find Your Farm Leaks

The numbers just above the line across the middle of this page are approximately the averages for your county for the factors as named at the tops of the columns. By drawing a line across each column at the point where the number represents your efficiency for that factor, as given on page 1 of this report, you can see where your efficiency is above the average and where it is below the average.

	-								Expense
	Bushels per		Returns per \$100			Crop Acres		per \$100	
Rate	Acre of		Invested in			per		gross	
Earned	Corn	Oats	Wheat	Cattle		Poultry		Horse	income '
8.00	90		40	210	400	430	144	45	30
7.75	88		39	205	390	420	141	44	32
7.50	86		38	200	380	210	138	43	34
7.25	84		37	195	3 7 0	400	135	42	36
7.00	82		36	190	360	390	102	41	38
6.75	80		35	185	350	380	129	40	40
6.50	7 8		34	180	340	370	126	39	42
6.25	7 6		33	175	330	360	123	38	44
6.00	7 4		32	170	320	350	120	37	46
5.75	7 2		31	165	310	340	117	36	48
5,50	70		30	160	300	330	114	35	50
5.25	68		29	155	290	320	111	34	52
5.00	66		28	150	280	310	108	33	54
4.75	: 64		27	145	270	300	105	32	5 6
4.50	62		26	140	260		102	31	58
4.25	60		25 04	135	250	280	99	30	60
4.00 3.75	58 56		24	130	240	270	96	29	62
3.50	54		23 22	125	230 220	260	93	28	64 66
3.25	5 2		21	120 115	210	250 240	90 87	27 26	68
3.00	50		20	110	200	240	87 84	25	70
2.75	48		19	105	190	220 220	81	23 24	72
2.50	4 6		18	100	180	210	78	23	74
2.25	44		17	95	170	200	75	22	76
2.00	42		13	90	160	190	7 2	31	78
1.75	40		15	85	150	180	69	20	80
1.50	38		14	80	140	170	66	19	82
1.25	36		13	75	130	160	63	18	84
1.00	34		12	70	120	150	60	17	86
.75	32		11	65	110	140	57	16	88
.50	30	ļ	10	60	100	130	54	15	90
-25	28		9	55	90	120	51	14	92
.00	2 6		8	50	80	110	48	13	94
25	24		7	45	7 0	100	45	12	95
50	22		6	40	60	90	42	11	98
75	20		5	35_	~ 50	80	39	10	100
-1.00	18		4	30	40	70	36	9	102
-1.25	16		3	25	30	60	33	. 8	104
-1.50	14		2	20	20	50	30	7	103
-1.75	12	į	1	15	10	40	27	6	103
-2.00 -2.25	10		-	10	0	30	24	5	110
-2.25 -2.50	8 6	1	-	5 0	-10	20	21	7	112
-2.75	4		! -	- 5	-20 -30	10 0	18 15	3	114
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Factors Which Merit Special Attention

Rate Earned on Investment - The rate earned on the involvement is an excellent indication of the managing ability of the farm operator. This is particularly true in regions where the average investment per farm is large. In regions where the average investment is small, the Labor and Management Wage is also an excellent measure of managing ability. Anyone whose rate earned on the total form investment or whose Labor and Management Wage is below the average for his locality can well study the various factors which will indicate the source of a man's success or failure. In this way he may locate the source of his difficulty. The following paragraphs discuss the more important factors influencing farm earnings.

Crop Yields - Good crop yields are among the most definite of requirements for good incomes. One whose crop yields are low in comparison with others working land of equal natural value can well chudy the practices of men who secure higher yields. Men who secure the best yields pay special attention to rotation of crops, seed, drainage, use of legumes, use of manure, use of limestone and phosphate where needed, preparation of seed beds, cultivation, and protection from diseases, and insects.

Returns from \$100 Invested in Live Stock - Where any considerable part of the income of a farm is from live stock, this item merits special attention. Where the returns are below the average a careful study of the practices on more successful farms may assist the operator to locate places where he can improve his methods. The difficulty may be in a low percentage of calves, pigs, lambs, etc. raised. It may be in lack of attention to sanitary arrangements and protection from disease. In case of pure bred stock, it may be the inability to market the young stock at prices in accord with the value of the breeding stock. Rept. In case of stock feeding operations where feeders are purchased it may be in poor buying both as to time and price. It may be in not producing the quality of stock which the market demands. The growing of sufficient legume forage to supply most of the protein requirements, careful purchase and use of additional protein and mineral supplements, and the utilization of roughage are among other important factors which make possible the more economical production of live stock.

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Per cent of Ancame from Live Stock - In a region where the best paying farms receive a large proportion of their income from live stock, the less successful farmers will do well to consider increasing their income from live stock. This way be done by improving the quality of live stock, by better feeding, canitary and breeding methods or by increasing the assumt of live stock kept. In order to improve the quality of live stock if has not usually proven profitable for a man to invest in a considerable number of high priced pure bred shock at one time. It is a more safe practice to grow the better stock by using good sires and accasionally picking up good females. Neither is it usually wise for a man who has mover handled much stock to buy up a large breeding her? or go suddenly into extensive feeding operations. In any case it is better to work gradually into the live stock business, building up equipment, breeding herds and feeding operations plottly, as one learns to fellow successful methods.

The Use of Man Lukor and Horse Libor - About sixty to eighty per cent of the cost of operating a farm, not including interest or rout charges, is for man labor and horse labor. If a tractor is used the labor is usually reduced, but the machinery expense is increased about in proportion. It costs approximately \$100 per year to keep one work horse then one includes present feed costs, depreciation, interest on investment, barn room, harmass costs, etc. If a man finds that he is working fewer crop acres per man or per horse than the average farmer working under similar conditions, he can well study his cituation with the idea of cutting down this expense. The changing to a more carefully planned rotation of crops is probably the way in which nost men can best reduce the man and horse labor coats. A rotation should be chosen, so as to avoid having a very large labor requirement at any one time, so as to require a uniform amount of man and horse labor from early spring until late fall, and so as to utilize the family habor to best advantage. The factor ing down of crops and use of enough live stock to utilize labor at seasons that field work is light are two other very definite means of increasing the officiency in the use of labor. While the working of a large number of crop acres per mun and per hore is desirable, a study of hundreds of records from over the state indicates that bond

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men have reduced the amount of both wan and horse labor to a point where crop yields and returns from live stock are relaced because of lack of sufficient well directed labor.

Expense per \$100 Cross Income - This is a manager of the fit to and parts of the farm business. Farm records show that men who keep expenses low in proportion to their incomes are men who practice more or less of the following things. They plus their work so as to do as much as possible themselves or with family labor. After getting a few good breeding females, they raise their own breeding stock except for the purchase of pure bred sires. Insofar as fewsible they raise and prepare their own seeds. They utilize rainy days and off seasons to repair buildings, fences, machinery and harness. This saves the purchase of much new equipment, the paying out of high wages for skilled labor for such repairs as they can readily do themselves and also saves the expense incident to delay caused by broken machinery or fences during the busy season.

Size of Farm - When one finds that his farm is smaller than the most profitable farms in his locality and his income is low even though he has good crop yields and good returns from live stock, he may remedy the situation, by buying or renting additional land, or by gradually adopting a more intensive or more specialized type of farming. On the other hand, if he finds that his farm is larger than the best farms and his income is low, he may profit by renting out land, or by planning so as to do more efficient work on his present acreage.

Closing Suggestions

- 1. Leaks in the farm business are most likely to occur alone the line of these factors which have been discussed, namely:
 - a. Crop yields
 - b. Returns from investment in live stock
 - c. The proportion of returns from live stock
 - d. Use of man labor
 - e. Use of horse labor
 - f. Expenses in proportion to income
 - g. Size of farm

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- 2. A careful comparison of a man's farm business record beside those of several other men farming under similar conditions will enable him to find the leaks in his farm business.
- 3. There can be no improvement without some change in practices used.

 Carefully planned and slowly developed changes are more likely to result in increased incomes than are impulsive and sudden changes of methods.
- 4. It is the well balanced farm that pays. One may have good crop yields and make good use of live stock, but receive a small net income because of inefficient use of labor. Or one may work a large acreage per man and per horse, but fail because of low crop yields or poor returns from live stock. A well balanced farm with a fair degree of efficiency along all lines brings the operator good returns which enable him to maintain a high standard of living for his family.



SUMMARY OF FARM BUSINESS RECORDS (1) JERSEY COUNTY - 1923

Eleven Jersey County farmers who kept farm business records in 1923 earned an average rate of 3.72% on an average capital investment of \$21,294. Four of the eleven farmers received an average of 6.86% on their investment, while four others lacked 1.08% of their investment of paying their operating expenses, a difference of 7.94%. In terms of money, this means that the four rore efficient of these eleven farmers received an average net income of approximately \$1690 more than was received by the four whose farms showed the lowest net incomes.

The following table will help enable each Jersey County farmer who kept these records to find some of the leaks in his farm business, if there have been such leaks in his business.

Rate Earned, Labor and Management Wage and Factors in which Leaks are most likely to occur	Your Farm	Average of 11 Farms		Four Least . Profitable : Farms
Rate Earned on Investment Labor and Management Wage Crop Yields - Corn - Bushels Oats - Bushels Wheat - Bushels	÷ 5	\$ 238.00 48.9(3)		\$-355.25 32.3(5) 30.0(5)
Returns per @100 invested (2) in all Productive Live-stock For \$100 in Horses For @100 in Cattle For @100 in Sheep For @100 in Swine For @100 in Poultry		\$ 123.21 \$ 70.00 \$ 185.28	0- 2.81 0- 35.11 φ 63.24	\$ 141.74 \$-14.79 \$ 106.39 \$ 59.37 \$ 212.54 \$ 135.42
Per cent of Income from Livestock Grop Acres per Man Grop Acres per Horse Expense per \$100 Gross Income Size of Farm - Acres	\$	67.8% 61.9(9) 17.3(9) \$ 70.59 1.65.9	58.6 16.7	68.3% 35.3(7) 12.7(7) \$ 108.56 167.5

⁽¹⁾ Records secured and summarized by the Jersey County Farm Bureau, Jerseyville. Illinois, and the Department of Farm Organization and Management, University of Illinois cooperating.

⁽²⁾ The average investment at the beginning and end of the year was used in finding these factors.

⁽³⁾ Seven farms. (4) Three farms. (5) One farm. (6) Five farms. (7) Two fais (8) Six farms. (9) Nine farms.

Data fro... Jersey County Records - 1923 (Cont'd)

	Your Farm	Average of 11 Farms	Four Most Profitable Farms	Four Least Profitable Farms
l Value of Land per Acre 2 Capital Investment - Total 3 Land 4 Buildings (1) 5 Machinery and Equipment 6 Feed and Supplies 7 Live Stock - Total	← → ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←	\$ 98 \$ 21,294 \$ 16,212 \$ 1,506 \$ 731 \$ 1,036 \$ 1,810	121 24,875 20,367 1,325 759 576 1,847	\$ 6.5 \$ 14,233 \$ 10,240 \$ 1,313 \$ 517 \$ 1,040 \$ 1,184
8 Horses 9 Cattle 10 Sheep 11 Swine 12 Poultry	\$4 00 00 00 O	\$ 503 \$ 552 \$ 176 \$ 477 \$ 102	\$ 341 \$ 404 \$ 387 \$ 627 \$ 57	337 445 65 251 35
13 Receipts-Net Increases-Total 14 Feed and Supplies 15 Miscellaneous 16 LivesStock - Total	D 60 50 CO	\$ 2,683 \$ 835 \$ 19 \$ 1,829	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
17 Horses 18 Cattle 19 Dairy Products 20 Sheep	670-65-60	\$- 45 \$ 145 \$ 421 \$ 135	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\$- 47 \$ 170 \$ 325 \$ 38
21 Swine 22 Poultry 23 Eggs 24 Miscellaneous	0 0000	후 952 후 91 후 70 후 60	\$ 1,383 \$ 44 \$ 32 \$ 6	589 46 46 84 27
25 Expenses-Net Decreases-Total 26 Farm Improvements 27 Machinery and Equipment 28 Feed and Supplies 29 Cash Expenses	क्ट का का क	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\$ 1,110 \$ 151 \$ 178 \$ \$ 781	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
30 Receipts less Expenses 31 Operator and Family Labor 32 Net Income from Investment	47×43×49×	\$ <u>1,496</u> \$ 704 \$ 792	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\$ 553 \$ 707 \$ 154
33 Investments per Acre 34 Gross Receipts per Acre 35 Total Expenses per Acre 36 Net Receipts per Acre	40 AP 40 AP	\$ 128.35 \$ 16.24 \$ 11.47 \$ 4.77	20.93	10.76
37 Man Labor per Total Acres 38 Farms with Tractors - Per cent	\$ %	\$ 5.91 18.2%		. 1
39 Acres of Land in all Crops 40 Corn - Acres 41 Oats - Acres 42 Wheat - Acres 43 Legumes-Acres 44 (1) The investment in buildings,	machinery a	96.2(2 45.5(4 10.473 38.3(8 10.8(2 and equipment,	59.0(8) 15.0(6) 29.0(3) 15.5	10.0() 6.0(7) 15.0(7) 1.0(3)

(1) The investment in buildings, machinery and equipment, etc. at the beginning

(7) One farm. (8) Six Farms.

of the year was used here.
(2) Nine farms. (3) Two farms, (4) Eight Farms. (5) Three farms. (6) Five farms

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Find Your Farm Leaks - (Jersey County 1923)

The numbers just above the line across the middle of this page are approximately the averages for your county for the factors as named at the tops of the columns. By drawing a line across each column at the point where the number represents your efficiency for that factor, as given on page 1 of this report, you can see where your efficiency is above the average and where it is below the average

	,		1						Expense:
	B.	ushels pa	er	Returns per \$100			Crop A	cres	per\$100
Rate		Acre of		Invested in per			Gross		
Earned	Corn	Oats	Wheat	Cattle	Hogs	Poultry	lian	Horse	Income
9.00	91	80	41	230	395	370	125	38	28
8.75	89	78	40	225	385	360	122	37	30
8.50	87	76	39	220	375	350	119	36	32
8.25	85	74	38	215	365	340	116	35	34
8.00	83	72	37	210	355	330	113	34	36
7.75	81	7 0	36	205	345	320	110	33	38
7.50	79	68	35	200	335	310	107	32	40
7.25	77	66	34	195	325	300	104	31	42
7.00	75	64	33	190	315	290	101	30	44
6.75	73	62	32	185	305	280	98	29	46
6.50	71	60	31	180	295	270	:95	28	48
6.25	69	58	30	175	285	260	92	27	50
5.00	67	56	29	170	275	250	89	26	52
5.75	65	54	28	165	265	240	86	25	54
5.50	63	52	27	160	255	230	83	24	56
5.25	61	50	26	155	245	220	80	23	58
5.00	59	48	25	150	235	210	77	22	60
4.75	57	46	24	145	225	200	74	21	62
4.50	55	44	23	140	215	190	71	20	64
4.25	53	42	22	135	205	180	68	19	; 6t
4.00	51	40	21	130	195	170	65	18	68
3.75	49	38 .	20	125	185	160	62	17	70
3.50	47	36	19	120	175	150	59	16	72
3.25	45	34 、	18	115	165	140	56	15	74
3.00	43	32	17	110	155	130	53	14	76
2.75	41 "	30	16	105	145	120	50	13	78
2.50	39	28	15	100	135	110	47	12	80
2.25	37	26	14	95	125	100	44	11	82
2.00	35	24	13	90	115	90	41	10	84
1.75	33	22	12	85	105	80	38	9	86
1.50	31	20	11	80	95	70	35	8	88
1.25	29	18	10	75	85	60	32 ·	7	90
1.00	27	16	9	70	75	5 0	29	6	92
.75	25	14	8	65	65	40	26	5.	94
.50	23	12	7	60	55	30	23	4	96
.25	21	10	6 5 4 3 2	55	45	20	20	3	98
2.00	19	8	5	50	35	10	17	2	100
25	17	6	4	45	25	0	14	1	102
50	15	4	3	40	15	-10	11	_	104
75	13	2		35	5	-20	8	-	106
-1.00	11	-	1	30	0	-30	5	_	108
-1.25	9		Lair	25	- 5	-40	3		110

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Factors Thich Terit Special Attention

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Per cent of Income from Live Stock - In a region where the bost paying farms receive a large proportion of their income from live stock, the less successful farmers will do well to consider increasing their income from live stock. This may be done by improving the quality of live stock, by better feeding, a mittary and breeding methods or by increasing the amount of live stock kept. In order to increasing the quality of live stock if has not usually proven profitable for a man to invest in a considerable number of high priced pure bred stock at one time. It is a more safe practice to grow the better stock by using good sires and speadionally picking up good females. Meither is it usually wise for a man who has never handled much stock to buy up a large breeding herd or go suddenly into extensive feeding operations. In any case it is better to work gradually into the live stock business, building up equipment, breeding herds and feeding operations slowly, as one learns to fellow successful methods.

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Expense per \$100 Gross Income - This is a measure of thrift in all parts of the farm business. Farm records show that men who keep expenses low in proportion to their incomes are men who practice more or less of the following things. They plus their work so as to do as much as possible themselves or with family labor. After getting a few good breeding females, they raise their own breeding stock except for the purchase of pure bred sires. Insofar as feasible they raise and prepare their own seeds. They utilize rainy days and off seasons to repair buildings, fences, machinery and harness. This saves the purchase of much new equipment, the paying out of high wages for skilled labor for such repairs as they can readily do themselves and also saves the expense incident to delay caused by broken machinery or fences during the busy season.

Size of Farm - When one finds that his farm is smaller than the most profitable farms in his locality and his income is low even though he has good crop yields and good returns from live stock, he may remedy the situation, by buying or renting additional land, or by gradually adopting a more intensive or more specialized type of farming. On the other hand, if he finds that his farm is larger than the best farms and his income is low, he may profit by renting out land, or by planning so as to do more efficient work on his present acreage.

Closing Suggestions

- 1. Leaks in the farm business are most likely to occur along the line of these factors which have been discussed, namely:
 - a. Crop yields
 - b. Returns from investment in live stock
 - c. The proportion of returns from live stock
 - d. Use of man labor
 - e. Use of horse labor
 - f. Expenses in proportion to income
 - g. Size of farm

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- 2. A careful comparison of a man's farm business record lesign those of several other men farming under similar conditions will enable him to find the leaks in his farm business.
- 3. There can be no improvement without some change in practices used. Carefully planned and slowly developed changes are nore likely to result in increased incomes than are impulsive and sudden changes of methods.
- 4. It is the well balanced farm that pays. One may have good crop yields and make good use of live stock, but receive a small net income because of inefficient use of labor. Or one may work a large acreage per run and per norse, but fail because of low crop yields or poor returns from live stock. In well balanced form with a fair degree of efficiency along all lines orings the operator good returns which enable him to maintain a high standard of liven for his family.

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SUMMARY OF FARM BUSINESS RECORDS (1) JO DAVIESS COUNTY - 1023

earned an average rate of 3.4% on an average capital investment of \$25,291. The of the eleven farmers received an average of 8.3% on their investment, while four others received only .6%, a difference of 7.7%. In terms of money, this means that the four more efficient of these eleven farmers received an average net income of approximately \$1950 more than was received by the four whose farms showed the lowest net incomes.

The following table will help enable each Jo Daviess County farmer who kept these records to find some of the leaks in his farm business, if there have been such leaks in his business.

Rate Earned, Labor and Management and Factors in which leaks are most likely to occur.	Your Farm	Average of 11 Farms	Four Nost Profitable Farms	Four Least Profitable Farms
Rate Earned on Investment Labor and Management Wage Crop Yields - Corn - Bushels Oats - Bushels Wheat - Bushels	\$	3.4% \$ 73. 48.0 37.5	8.3% \$1070. 51.3 31.6	.6% . \$-1009. 47.1 42.1
Returns per \$100 invested (2) in All Froductive Live-Stock For \$100 in Horses For \$100 in Cattle For \$100 in Sheep For \$100 in Swine For \$100 in Poultry	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$ 106.45 \$ 2.87 \$ 73.81 \$ 6.94 \$ 174.24 \$ 166.38	\$ 142.32 \$94 \$ 124.54 \$ - 39.81 \$ 181.90 \$ 198.11	\$ 76.06 \$- 7.57 \$ 46.93 \$ 148.00 \$ 146.25 \$ 168.37
Per cent of Income from Livestock Grop Acres per Man Grop Acres per Horse Glipense per \$100 Gross Income Size of Farm - Acres	\$	93.1 49.3 16.3 \$ 65.23 172.1	86.9 60.2 17.7 \$ 50.46 121.1	99.7 69.8 19.2 \$ 89.72 20.3

⁽¹⁾ Records secured and summarized by the Jo Daviess County Farm Bureau, Elizabeth, Illinois and the Department of Farm Organization and Management, University of Illinois, Urbana, Illinois cooperating.

(2) The average investment at the beginning and end of the year was used in finding these factors.

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Data	TIOM 10 DEVIESS	COMITE: HE	0241	3 - 2.000	(0011	<u> </u>		
	t		1	Average			Fou	r Least
		Your		of ll				fithhle
		Farm		Farms		Farms		arms
l Value of Land per A 2 Capital Investment 3 Land 4 Buildings (1) 5 Machinery and Ed 6 Feed and Supplie 7 Live Stock - Total	- <u>Total</u> quipment	40,40,40,40,40,40,40,40,40,40,40,40,40,4	40 40 40 40 40 40 40 40 40 40 40 40 40 4	100 25,291 17,184 3,212 897 1,339 2,660	50 50 50 50 50 50 50 50 50 50 50 50 50 5	91 17,943 11,077 2,538 714 1,252 2,362	\$ 10 10 10 10 10 10 10 10 10 10 10 10 10	107 33,795 24,375 3,612 1,112 1,587 3,109
8 Horses 9 Cattle 10 Sheep 11 Swine 12 Poultry		선구 6구 · 6구 · 6구 · 6구 · 6구	40 40 40 40 40	424 1,414 49 623 149		444 962 109 687 160	4) 46° 45° 45° 45°.	395 1,839 26 708 141
13 Receipts-Net Increa 14 Feed and Supplie 15 Miscellaneous 16 Live Stock - Total	es	() () () () () () () () () () () () () ()	47 CV 48 40:	2,327 29 2,298	\$ 00 db 400	2,782 118 53 2,611	47. 40. 40.4°.	1,959 4 1,955
17 Horses 18 Cattle 19 Dairy Production 20 Sheep	cts	できずかくかくか	103 103 103 103 103 103 103 103 103 103	- 12 363 799 3	\$ 00 00 CP	4 378 907 31	ತ್ರೆ: ಕ್ರೌಕಿ ಕ್ರೊಸಿ ಗ್ರೊಸ	- 27 395 478 38
21 Swine 22 Poultry 23 Eggs 24 Miscellaneou	us	ে কে কে ক	C CHORD	864 124 146 12	C Charles	1,020 73 242 25	\$ 60-80-85	765 189 107 9
25 Expenses-Net Decree 26 Farm Improvemen 27 Machinery and E 28 Feed and Suppli 29 Cash Expenses	ts quipment	\$ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10 to the the 10 to	796 142 184 65 404	\$\tau\$\tau\$\tau\$\tau\$\tau\$\tau\$\tau\$\tau	645 107 175 362	40 40 40 40 G	1,135 204 176 264 492
30 Receipts less Expersion 31 Operator and Familian 32 Net Income from In	y Labor	\$ \$ \$	402 403	1,531 674 857	40×40×00×	2,137 650 1,487	45 AC 450	<u>823</u> 622 201
33 Investment per Acr 34 Gross Receipts per 35 Total Expenses per 36 Net Receipts per A	Acre Acre	C) () () () () () () () () () () () () ()	40 40 40 40	146.95 14.32 9.34 4.93	\$ \$	147.80 24.73 12.47 12.26	\$	148.68 8.61 7.73 .88
37 Man Labor per Tota 38 Farms with Tractor	l Acres s - Per cent	Ç	\$	4.35 27.2		5.41 25.0	£.	3. 39 25.0
39 Acres of Land in a 40 Corn - Acres 41 Oats - Acres 41 Wheat - Acres 43 Legumes - Acres	ll Crops			71.0 21.3 16.1 3.0 7.0		75.2 20.5 22.5 1.5 1.2		96.0 32.0 13.5 5.5 17.0

⁽¹⁾ The investment in buildings, machinery and equipment, etc. at the beginning of the year was used here.

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The numbers just above the line across the middle of this page are approximately the averages for your county for the factors as named at the tops of the columns. By drawing a line across each column at the point where the runber represents your efficienty for that factor, as given on page 1 of this report, just can see where your efficiency is above the average and where it is below the average.

									Expense
7-4-	Bushels per		Returns per \$100		Crop Acres		per \$100		
Rate.		Acre of			vested		ne:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Gross
Earned	Corn	Oats	Wheat	Cattle		Poultry	Man	Horse	Income
9.00	92	82		190	390	390	11-	38	1 22 ;
8.75	90	08		185	380	380	111	37	24
8.50	88	78		180	370	370 2	103	36	25 :
8.25	85	75		175	360	350	105	35	. 28
8.00	84	74		170	350	350	102	34	30
7.75	82	72		165	340	340	99	33	33
7.50	80	70		160	330	330	96	32	34
7.25	78	68		155	320	320	93	31	36
7.00	7 6	65		150	33.0	310 :	90	30	33
6.75	74	64		145	300	300	87	29	40
S.50	7 2	62		140	290	290	84	28	43
6.25	70	60		135	280	280	81	27	44
6.00	68	58		130	270	270	78	26	46
5.75	66	56		125	260	260	75	25	43
5.50	64	54		120	250	250	72	24	50
5.25	62	50		115	240	240	69	23	52
5.00	60	5 0		110	230	230	53	22	54
4.75	58	48		105	220	220	63	21	56
4.50	5 6	46		100	210	310	50	20	58
4.25	54	44		95	200	200	57	19	60
4.00	52	42		90	190	190	54	18	62
3.75	50	40		85	180	130	51	17	64
3.50	<u>4</u> 8	38		8C	170	170	48	16	56
3,25	- 16	36		75	160	160	45	15	68
3.00	44	34	į.	70	150	150	42	14	70
2,75	42	32		65	140	140	39	13	72
2.50	40	30		60	130	130	36	12	74
2.25	38	38 38	1	55	120	120	33	11	76
2.00	36	35	*	50	110	110	30	10	78
1.75	34	24	1	45	100	100	30 37	i 9	50
1.50	32	22		40	90	90	24	8	82
1.25	30	2C	4	35	80	80	21	7	84
1.00	. 28	18		30	_		2 <u>-</u> 18	6	86
.75	. 26	16		25	70 60	70	15	5	88
.50	24	14	j	20	50	50	12	4	9C
.25	22	12		25	40	40	g g	3	92
.00	20	10		10	30	30	5	2	94
- ,25	18	3		5	20	20	3	î 1	96
 50	1.6	6		0	20 10	7 8	3	<u> </u>	98
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Factors Which Phrit Secial Attention

Eate Earned on Involve and - The rate earned on the involvement is an excellent indication of the managing ability of the farm operator. This is particularly true in regions where the average investment per furm is large. In regions where the average investment is small, the Labor and Canadement Dage is also an excellent measure of managing ability. Anyone whose rate earned on the total form investment or whose Labor and Canagement Dage is below the average for his locality can well study the various factors which will indicate the source of a man's success or failure. In this way he may locate the source of his difficulty. The following paragraphs discuss the more important factors influencing farm earnimes.

Crop Yields - Good crop yields are among the nost definite of requirements for good incomes. One whose crop yields are low in comparison with others working land of equal natural value can well study the practices of men who secure higher yields. Men who secure the best yields pay special attention to rotation of crops, seed, drainage, use of legumes, use of manure, use of limestone and phosphate where needed, preparation of seed bels, cultivation, and protection from diseases, and insects.

Leturns from \$100 Invested in Live Stock - Where any considerable part of the income of a farm is from live stock, this item marits special attention. Where the returns are telew the average a careful study of the practices on more successful farms may assist the operator to locate places where he can improve his methods. The difficulty may be in a low percentage of calves, pigs, lambs, etc. raised. It may be in lack of attention to sanitary arrangements and protection from discuss. In case of pure bred stock, it may be the inability to market the young stock at prices in accord with the value of the breeding stock. Rept. In case of stock feeding operations where feeders are purchased it may be in poor buying both as to time and price. It may be in not producing the quality of stock which the warket decades. The growing of sufficient legume forage to supply most of the protein requirements, careful purchase and use of additional protein and mineral supplements, and the utilization of roughage are among other important factors which make poscible the more economical production of live stock.

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Per cent of Income from Live Stock - In a region where the best paying farms receive a large proportion of their income from live stock, the less successful farmers will do well to consider increasing their income from live stock. This may be done by improving the quality of live stock, by better feeding, samitary and breeding methods or by increasing the amount of live stock kept. In order to improve the quality of live stock it has not usually proven profitable for a man to invest in a considerable number of high priced pure bred stock at one time. It is a sore safe practice to grow the better stock by using good sires and occusionally picking up good females. Neither is it usually wide for a man who has never handled much stock to buy up a large breeding herd or go suddenly into excensive feeding operations. In any case it is better to work gradually into the live stock business, building up equipment, breeding herds and feeding operations slowly, as one learns to follow successful methods.

The Use of Wan Lubor and Horse Labor - About sixty to eighty per cent of the cost of operating a farm, not including interest or rent charges, is for man labor and horse labor. If a tractor is used the labor is usually reduced, but the machinery expense is increased about in proportion. It costs approximately #100 per year to keep one work horse when one includes present feed costs, depreciation, interest on investment, barn room, harness costs, etc. If a man finds that he is working fewer crop acres per man or per horse than the average furmer working under similar conditions, he can well study his situation with the idea of cutting down this expense. The changing to a more carefully planned rotation of crops is probably the way in which most men can best reduce the man and horse labor couts. A rotation should be chosen, so as to avoid having a very large labor requirement at any one time, so as to require a uniform amount of man and horse labor from early spring until late fall, and so as to utilize the family labor to best advantage. The falling down of crops and use of enough live stock to utilize labor at seasons which fixed work is light are two other very definite means of increasing the efficiency in the use of labor. While the working of a large number of crop acres for man and per horse is desirable, a study of hundreds of records fro over the state indicates that some

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men have reduced the amount of both man and horse labor to a point where crop yields and returns from live stock are reduced because of lack of sufficient well directed labor.

Expense per \$100 Gross Income - This is a leadure of thrift in all parts of the farm business. Farm records show that men who heep expenses low in proportion to their incomes are men who practice more or less of the following things. They plus their work so as to do as much as possible themselves or with family labor. After getting a few good breeding females, they raise their own breeding stock except for the purchase of pure bred sires. Insofar as feasible they raise and prepare their own seeds. They utilize rainy days and off seasons to repair buildings, fences, machinery and harness. This saves the purchase of much new equipment, the paying out of high wages for skilled labor for such repairs as they can readily do themselves and also saves the expense incident to delay caused by broken machinery or fences during the busy season.

Size of Farm - When one finds that his farm is smaller than the most profitable farms in his locality and his income is low even though he has good crop yields and good returns from live stock, he may remedy the situation, by buying or renting additional land, or by gradually adopting a more intensive or more specialized type of farming. On the other hand, if he finds that his farm is larger than the best farms and his income is low, he may profit by renting out land, or by planning so as to do more efficient work on his present acreage.

Closing Sungestions

- 1. Leaks in the farm business are most likely to occur along the line of these factors which have been discussed, namely:
 - a. Grop yields
 - b. Returns from investment in live stock
 - c. The proportion of returns from live stock
 - d. Use of man laker
 - e. Use of horse labor
 - f. Expenses in proportion to income
 - g. Size of farm

- 2. A careful comparison of a man's farm business record beside those of several other men farming under similar conditions will enable him to find the leaks in his farm business.
- 3. There can be no improvement without some charge in practices used.

 Carefully planned and slowly developed changes are more likely to result in increased incomes than are impulsive and sudden changes of methods.
- 4. It is the well balanced farm that pays. One may have good crop yields and make good use of live stock, but receive a small not income because of inefficient use of labor. Or one may work a large acreage per man and per norse, but fail because of low crop yields or poor returns from live stock. A well balanced farm with a fair degree of efficiency along all lines orings the operator good returns which enable him to maintain a high standard of living for his family.

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SUMMARY OF FARM BUSINESS RECORDS (1) KAME COUNTY - 1923

Nine Kane County farmers who kept farm business records in 1923 earned an average rate of 4.6% on an average capital investment of \$40,220. Three of the nine farmers received an average of 6.9% on their investment, while three others received only 1.4% of their investment, a difference of 5.5%. In terms of money, this means that the three more efficient of these nine farmers received an average net income of approximately \$2200 more than was received by the three whose farms showed the lowest net incomes.

The following table will help enable each Kane County farmer who kept these records to find some of the leaks in his farm business, if there have been such leaks in his business.

Rate Earned, Labor and Management and Factors in which leaks are nort likely to occur	Your Farm		Three Rost Profitable Farms	Three Least Profitable Farms
Rate Earned on Investment Labor and Management Wage Crop Yields - Corn - Bushels Oats - Bushels Wheat - Dushels	< <u>₹</u>	4.6% \$ 577. 37.8 46.7 21.9	6.9% \$1558. (3) 39.4 43.4 32.4	1.45 \$-641. 43.6 54.3 30.0
Returns per w100 Invested (2) in all Productive Live*stock For \$100 in Horses For \$100 in Cattle For \$100 in Sheep For \$100 in Swine For \$100 in Poultry	(C) (C) (C) (C) (C)	\$ 146.66 \$ 7.11 \$ 147.41 \$ 115.98 \$ 152.78	\$ 145.44 \$-7.83 \$ 149.53 \$ 36.84 \$ 141.55	\$ 117.68 \$- 3.33 \$ 119.34 \$ 94.14 \$ 213.75
Per cent of Income from Livestock Crop Acres per Man Crop Acres per Morse Expense per \$100 Gross Income Size of Farm - Acres		94.3 55.5 20.8 \$ 63.77 141.2	89.4 58.6 24.1 551.71 132.7	95.5 81.1 27.9 \$ 86.84 126.5

⁽¹⁾ Records secured and summarized by the Kame County, Farm Bureau, Geneva, Illinois, and the Department of Farm Organization and Management, University of Illinois, Urbana, Illinois, cooperating.

⁽²⁾ The average investment at the beginning and end of the year was used in finding these factors.

⁽³⁾ Average corn yields on two farms only.

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	Your Farm	Average of 9 Farms	Three Most Profitable Farms	Three Least Profitable Farms
1 Value of Land per Acres 2 Capital Investment - Total 3 Land 4 Buildings (1) 5 Machinery and Equipment 6 Feed and Supplies 7 Live Stock - Total	ক্ৰ ক্ৰ ক্ৰ ক্ৰ ক্ৰ ক্ৰ ক্ৰ	\$ 196 \$ 40,220 \$ 27,628 \$ 5,781 \$ 1,379 \$ 1,681 \$ 3,751	\$ 188 \$ 43.879 \$ 30,567 \$ 5,392 \$ 1,489 \$ 2,105 \$ 4,326	\$ 23.6 \$ 40,200 \$ 27,350 \$ 5,856 \$ 1,612 \$ 1,565 \$ 3,818
8 Horses 9 Cattle 10 Sheep 11 Swine 12 Poultry	ረንቱ ረጉ «ርጉ «ርጉ «ርጉ «ርጉ	\$ 546 \$ 2,668 \$ \$ 358 \$ 179	\$ 453 \$ 3,393 \$ \$ 180 \$ 299	\$ 528 \$ 2,382 \$ 778 \$ 130
13 Receipts-Net Increases-Total 14 Feed and Supplies 15 Miscellaneous 16 Live Stock - Total	전후 40° 40° 40°	\$ 4,968 \$ \$ 171 \$ 4,797	\$ 5,950 \$ \$ 317 \$ 5,633	\$ 4,324 \$ \$ 195 \$ 4,129
17 Horses 18 Cattle 19 Dairy Products 20 Sheep	\$ \$ \$ \$ \$ \$	\$ - 38 \$ 219 \$ 3,856 \$ 46	\$ - 39 \$ 412 \$ 4,686 \$	\$ - 17 \$ 202 \$ 2,884 \$
21 Swine 22 Poultry 23 Eggs 24 Miscellaneous	40×40×40×	\$ 402 \$ 101 \$ 182 \$ 29	\$ 67 \$ 133 \$ 315 \$ 58	\$ 761 \$ 102 \$ 177 \$ 22
25 Expenses-Net Decreases-Total 26 Farm Improvements 27 Machinery and Equipment 28 Feed and Supplies 29 Cash Expenses	C) +	\$\frac{2,127}{\$\\$\\$\\$\\$\\$\\$248}{\$\\$\\$\\$\\$328}{\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\$ 2,682 \$ 199 \$ 517 \$ 684 \$ 1,282
30 Receipts less Expenses 31 Operator and Family Labor 32 Net Income from Investment	0 0 0	\$\frac{2,841}{999}\$\frac{1,841}{999}\$	\$\frac{4,143}{1,102}\$\$\$\text{3,042}\$\$	\$\frac{1,642}{1,073} \$\frac{569}{}
33 Investment per Acre 34 Gross Receipts per Acre 35 Total Expenses per Acre 36 <u>Net Receipts per Acre</u>	CO KAR 400 CO	\$ 284.84 \$ 36.00 \$ 22.96 \$ 13.04	\$ 269.69 \$ 38.71 \$ 20.01 \$ 18.70	\$ 317.78 \$ 34.18 \$ 29.68 \$ 4.50
37 Man Luber per Total Acres 38 Farms with Tractors - Per cent	÷	\$ 10.79 44.4	\$ 10.82 66.7	å <u>1</u> 1.68 33.3
39 Acres of Land in all Crops 40 Corn - Acres 41 Cats - Acres 42 Theat - Acres 43 Legumes - Acres		108.8 45.2 21.1 7.0 11.8	(2)136.5 (2) 70.0 (2) 28.0 8.0 12.6	148.5 29.0 18.3 1.3 10.2

⁽¹⁾ The investment in buildings, machinery and equipment, etc. at the beginning of the year was used here.

(2) Averages of two farms only.

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Find Your Farm Leaks - (Kane County - 1923)

The numbers just above the line across the middle of this page are approximately the averages for your county for the factors as named at the tops of the columns. By drawing a line across each column at the point where the number represents your efficiency for that factor, as given on page 1 of this report, you can see whose your efficiency is above the average and where it is below the average.

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Rate		Acre of	1		rested in		pe pe		One sa
Earned		1 Oats :	Wheat	Cattle		Pouliry	Man		Thoome
10.00	82	92	44	255	335	370	121	4.3	1750
9.75	80	90	43	250	325	360	113	42	22
9.50	78	88	42	245	325	350	115	41	24
9.25	76	86	41	240	305	340	112	40	26
9.00	74	84	40	235	295	330	109	39	28
3.75	72	82	39	230	285	320	106	38	30
8.50	70	80	38	225	275	310	1.03	37	32
8.25	68	78	37	220	265	300	100	36	34
8.00	66	7 6	36	215	255	290	97	35	35
7.75	64	74	35	210	245	280	94	34	38
7.50	62	7 2	34	205	235	270	91	33	40
7.25	60	7 0	33	200	225	260	88	32	42
7.00	58	68	32	195	215	250	85	31	44
6.75	56	66	31	190	205	240	82	30	4.6
6.50	54	54	30	185	195	230	7 9	29	48
6, 25	52	62	29	130	135	220	76	28	50
6.00	50	60	28	175	175	210	73	27	52
5.75	48	58	27	170	165	200	70	26	54
5.50	46	56.	26	165	155	190	67	25	56
5.25	44	54	25	350	145	180	64	24	58
5,00	42	52	24	155	135	170	61	23	60
4.75	1 40	50	23	150	135	160	58	22	62
4.50	38	48	22	145	115	130	55	22	64
4, 35	36	46	21	140	105	(4)	5.3	20	60
4.00	34	44	20	135	95	130	49	19	68
3.75	32	42	19	130	85	120	43	18	70
3.50	30	40	18	125	75	110	43	17	72
3.25	28	38	17	120	55	100	40	16	74
3.00	26	36	16	115	55	90	37	15	76
2.75	24	34	15	110	45	80	34	14	78
2.50	22	32	14	105	35	70	31	13	80 32
2.25	20	30	13	100	25	60	\28	12	4
2.00	18 16	28	12	95	15	50	25	11	84 86
1.75	14	26 24	11 . 10	90 85	5 0	40 30	22 19	9	83
1 25.	12	22	9	80	- 5	20	16	8	90
1.00	10	20	8	75	-15	10	13	7	92
.75	8	18	7	70	-25	0	10	6	94
.50	6	16	6	65	-35	-10	7	5	96
.25	4	14	5	50	-45	-20	4	4	98
.00	2	12	4	55	- 55	-30	1	3	100
- 25		10	3	50	- 65	-40	_	2	102

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Factors Which Merit Special Attention

Excellent indication of the managing ability of the farm operator. This is particularly true in regions where the average investment per farm is large. In regions where the average investment per farm is large. In regions where the average investment is small, the Labor and Management Wage is also an excellent measure of managing ability. Anyone whose rate earned on the total farm investment or whose Labor and Management Wage is below the average for his locality can well study the various factors which will indicate the source of a man's success or failure. In this way he may locate the source of his difficulty. The following paragraphs discuss the fore important factors influencing farm earnings.

Croo Yields - Good crop yields are among the most definite of requirements for good incomes. One whose crop yields are low in comparison with others working land of equal natural value can well study the practices of men who secure higher yields. Men who secure the best yields pay openial abtention to rotation of crops, seed, drainage, use of legumes, use of manure, use of limestone and phosphate where needed, preparation of seed beds, cultivation, and protection from diseases, and insects.

Returns from \$100 Invested in Live Stock - where any considerable part of the income of a farm is from live stock, this item merits special attention. Where the returns are below the average a careful study of the practices on more successful farms may assist the operator to locate places where he can improve his methods. The difficulty may be in a low percentage of calves, pigs, lambs, etc. raised. It may be in lack of attention to sanitary arrangements and protection from disease. In case of pure bred stock, it may be the inability to market the young stock at prices in accord with the value of the breeding stock. Rept. In case of stock feeding operations where feeders are purchased it may be in poor buying both as to time and price. It may be in not producing the quality of stock which the market demands. The growing of sufficient legume forage to supply most of the protein requirements, careful purchase and use of additional protein and mineral supplements, and the utilization of roughage are among other important factors which make possible the more economical production of live stock.

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For sext of Fronce from Live Speck - In a relien where the best paying farms receive a large proportion of their increasing their increasing their increasing their increasing their increasing their increasing the order feeding, semitary and breeding methods or by increasing the amount of live stock hept. In order to improve the quality of live stock if has not usually proven profitable for a man to invest in a considerable number of high priced pure bred shock at one time. It is a sore safe practice to grow the better stock by using good sires and specifically picking up good forales. Softher is it usually wise for a large was hundled much stock to buy up a large breeding herd or go suddenly into extensive feeding operations. In any case it is better to work gradually into the live stock business, familiar up equipment, breeding herds and feeding operations sloudy, as one learns to follow successful methods.

The Use of Fan Lator and Horse a bor - about sixty to eighty per cent of the cost of operating a farm, not including interest or rest charges, is for man labor and horse labor. If a tractor is used the labor is usually reduced, but the machinery expense is increased about in proportion. It costs approximately (100 per year to keep one work horse them one included tresent feed costs, depressisting, interest on investment, burn room, harmass cooks, etc. If a man finds that he is working fewer crop acres per man or per horse than the average furmer working under similar conditions, he can well study his cituation with the idea of cutting down this expense. The changing to a more carefully planned rotation of crops is probably the way in which nost men can best reduce the man and horse labor solts. A rotation should be chosen, so as to avoid having a very large labor requirement at any one time, so as to require a unilorm amount of man and horse labor from early spring until late fall, and so as to utilize the family labor to been advantage. The following ing down of crops and use of enough live stock to utilize labor it seasons with if work is light are two other very definite means of increasing the efficiency in the use of labor. While the working of a large number of error acres per man and pur horse is desirable, a study of hundreds of records from over the otate indicates that some

men have reduced the amount of both an and morse labor to a point where crop yields and returns from live stock are reduced because of lack of sufficient well directed labor.

Expense per \$100 Cross Incide - This is a measure of thrift in all parts of the farm business. Farm records show that men who heep expenses low in proportion to their incomes are men who practice more or less of the following things. They plus their work so as to do as much as possible themselves or with family labor. After getting a few good breeding females, they raise their own breeding stock except for the purchase of pure brea sires. Insofar as feasible they raise and prepare their own seeds. They utilize rainy days and off seasons to repair buildings, fences, machinery and harness. This saves the purchase of much new equipment, the paying out of high wages for skilled labor for such repairs as they can readily do themselves and also saves the expense incident to delay caused by broken machinery or fences during the busy season.

Size of Farm - When one finds that his farm is smaller than the most profitable farms in his locality and his income is low even though he has good crop yields and good returns from live stoch, he may remedy the situation, by buying or renting additional land, or by gradually adopting a more intensive or more specialized type of farming. On the other hand, if he finds that his farm is larger than the best farms and his income is low, he may profit by renting out land, or by planning so as to do more efficient work on his present acreage.

Closing Surgestions

- 1. Leaks in the farm business are most likely to occur along the line of these factors which have been discussed, namely:
 - a. Crop yields
 - b. Returns from investment in live stock
 - c. The proportion of returns from live stock
 - d. Use of man lalar
 - e. Use of horse labor
 - f. Expenses in proportion to income
 - g. Size of farm

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- 2. A careful comparison of a man's farm business record beside those of several other men farming under similar conditions will enable him to find the leaks in his farm business.
- 3. There can be no improvement without some change in practices used. Carefully planned and slowly developed changes are more likely to result in increased incomes than are impulsive and sudden changes of methods.
- 4. It is the well balanced farm that pays. One may have good crop yields and make good use of live stock, but receive a small net income because of inefficient use of labor. Or one may work a large acreage per man and per horse, but fail because of low crop yields or poor returns from live stock. A well balanced farm with a fair degree of efficiency along all lines brings the operator good returns which enable him to maintain a high standard of living for his family.

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SUMMARY OF FARM BUSINESS RECORDS (1) MCDONOUGH COUNTY - 1923

Eighteen McDonough County farmers who kept farm business records in 1923 earned an average rate of 2.7% on an average capital investment of \$45,770. Six of the eighteen farmers received an average of 6.08% on their investment, while six others received only .23% of their investment, a difference of 5.85%. In terms of money, this means that the six more efficient of these sighteen farmers received an average net income of approximately \$2575 more than was received by the six whose farms showed the lowest net incomes.

The following table will help enable, inclonough County farmer who kept these records to find some of the leaks in his farm business, if there have been such leaks in his business.

1.				
Rate Earned, Labor and Management		Average	Six Most	' Six Least
Wage and Factors in which Leaks	Your	of 18	Profitable	Profitable
are most likely to occur	Farn	Farms	Farms	Farms
The state of the s				
Doto Forma in the	%	2. 7. 9%	6.084	\$. 23/5
Rate Earned on Investment				(-1754.00
Labor and Management Wage	\$	ୃ−506.89	, -	
Crop Yields - Corn - Bushels		56.3	61.6	49.5
Oats - bushels	i k	43.9	45.8	42.9
Wheat - Bushels	1	25.5	26.9	24.4
	;	1		
Potumne non \$100 Townstal (9) to		3 337 05	j 133.47	\$ 102.25
Returns per \$100 Invested (2) in	<u>ن</u> ا	§ 117.95	6 TOO. 1	1 100.20
all Productive Live-stock		h L		
For \$100 in Horses	Ş	. 24	v- 4.64	\$- 11.41
For \$100 in Cattle	13	ູ 85.7ລ	61.02	\$ 72.62
For \$100 in Sheep	1 1	48.08	39.33	3 434
For \$100 in Swine	1 1	137.46	9 156.92	§ 129.44
•	15	• 2	k "	3 134.45
For \$100 in Poultry	18	į 5 207 .7 4	, 100.00	10
	:			
Per cent of Income from Livestock		69.8/-	50,9,	63.45
Grop Acres per Man	•	71.6	83.5	64.5
Crop Acres per Horse		16.5	19.4	22.3
Expense per \$100 Gross Income		\$ 69.10	\$ 43.95	; 95 . 85
Size of Farm - Acres	ų, i	4 "	176.8	232.3
DIAG OI FILM - ACTES	·}	201.8	1	40000

⁽¹⁾ Records secured and summarized by the McDonough County Farm Bureau, Macomb, Illinois, and the Department of Farm Organization and Management, University of Illinois, Urbana, Illinois cooperating.

⁽²⁾ The average investment at the beginning and end of the year was used in finding these factors.

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Data from McDonough County Records - 1923 (Cont'd)

		1	Your Farm		Average of 18 Farms		Six Most Profitable Farms) 	Six Least Profitable Farms
1 2 3 4 5 6 7	Value of Land per Acre Capital Investment - Total Land Buildings (1) Machinery and Equipment Feed and Supplies Live Stock - Total	もともできる さんもの もいもん		A I I A A A A A A A A A A A A A A A A A	36,720 3,256		192 42,302 34,033 2,882 1,345 1,861 2,680		173 48,530 40,131 3,714 969 1,668 2,048
8 9 10 11 12	Horses Cattle Sheep Swine Poultry	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$			670 936 44 1,237 150		652 403 18 1,471 136	40 40 40 40 40 40 40 40 40 40 40 40 40 4	655 744 66 459 124
13 14 15 16	Receipts-Net Increases-Total Feed and Supplies Miscellaneous Live Stock - Total	455 162 165 165	Aud color-disconni	r maner versionsmonthratesurcations of the fig. 1 fig. 15 fig. 15	3,369 357 213 2,799	ACTOR ACTOR ACTOR ACTOR	4,497 1,792 337 2,368		$\begin{array}{r} 2,619 \\ \hline 719 \\ 174 \\ 1,726 \end{array}$
17 18 19 20	Horses Cattle Dairy Products Shêêp	50-50 C		C C C C C	- 2 726 163 26	Co-Co-Co-Co-	- 31 158 125 14	10 × 10 × 10 × 10 × 10 × 10 × 10 × 10 ×	- 73 509 149 26
21 22 23 24	Swine Poultry #ggs Miscellaneous	100 de de de 103		C. C. C. S.	1,568 111 184 22	HOLD HOLD HOLD HOUSE	1,798 139 155 9	CI-CI-CI-CI-CI-	893 67 124 30
25 26 27 28 29	Expenses-Net Decreases-Total Farm Improvements Machinery and Equipment Feed and Supplies Cash Expenses	400 400 400 400 400		-C)-6. 6 - E - E/5	317	SOUTH SECTION OF THE	1,335 161 385 789	47.5.40 C. C. C.	1,649 192 253 1,204
30 31 32	Receipts less Expenses Operator and Family Labor Net Income from Investment	47 × 45 × 46		L. 409-409-	1,908 669 1,239	\$	5 59	: 3	857
34	Investment per Acre Gross Receipts per Acre Total Expenses per Acre Met Receipts per Acre	JA CANTON		ENES CO	226.80 19.86 13.72 6.14	\$ \$	26.26 11.54	A Control	11.71
37 38	Man Labor per Total Acres Farms with Tractors - Per cent		ei /•	Se S	4.84 33.3%	-75	4.40 33.3%	N .	5.61 33.3 _{/°}
39 40 41 42 43	Acres of Land in all Crops Corn - Acres Oats - Acres Wheat- Acres Legumes-Acres	t viet vijevinder emmiljer trijktopie-tiet viet tille vijet trijk v		医细胞性 医红色细胞 医红色性细胞 医甲状腺素 医甲状腺素 化苯甲苯酚	126.3 63.4 12.2 28.3 13.3	A to a spiral spiral and spiral and anticompanion of the spiral s	130.9 66.9 18.4 23.8 11.5		141.3 60.5 14.3 39.7 16.0

(1) The investment in buildings, machinery and equipment, etc. at the beginning of the year was used here.

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Find Your Farm Leaks - (McDonough County 1923)

The numbers just above the line across the middle of this page ... are approximately the averages for your county for the factors as named at the tops of the columns. By drawing a line across each column at the point where the number represents your efficiency for that factor, as given on page 1 of this report, you can see where your efficiency is above the average and where it is below the average.

									Expense
	P.	ushels pe	יין כ	Retur	ns per	\$100 Crop Acres			:per\$100
Rate		Acre of			Invested in				Gross
Earned	Corn	Oats	Wheat	Cattle		Poultry	l <u>per</u> Han	Horse	Income
8.25	100	88	47	195	360	430	138	39	26
8.00	98	86	46	190	350	420	135	38	28
7.75	96	84	45	185	340	410	132	37	30
7.50	94	82	44	180	330	400	129	36	32
7.25	92	80	43	175	320	390	126	35	34
7.00	90	78	42	170	310	380	123	34	36
6.75	88	76	41	165	300	370	120	33	38
6.50	86	74	40	160	290	360	117	32	40
6.25	84	72	39	155	280	350	114	31	42
6.00	82	~^	38	150	270	340	111	30	44
5.75	80	63	37	145	260	330	108	29	46
5.50	78	66	36	140	250	320	105	28	48
5.25	76	64	35	135	240	310	102	27	50
5.00	74	62	34	130	230	300	99	26	52
4.75	72	60	33	1.25	220	290	96	25	54
4.50	70	58	32	120	210	280	93	24	56
4.25	68	5â	31	115	200	270	90	23	58
4.00	66	54	30	110	190	260	87	22	: 60
3.75	64	52	29	105	180	250	84	21	62
3.50	62	50	28	100	170	240	Sl	20	64
3.25	63	48	27	95	150	230	7 8	19	: 66
3,00	58	45	26	90	150	220	75	18	68
2.75	56	44	25	. 85	140	210	7 2	17	70
2.50	54	42	24	30	130	200	69	16	72
2.25	52	40	23	75	120	190	66	15	74
2.00	50	38	22	70	110	180	63	14	? 6
1.75	48	36	21	55	100	170	60	13	78
1.50	46	34	20	60	90	160	57	12	30
1.25	44	32	19	55	80	150	54	11	82
1.00	42	30	! 18	50	70	140	51	10	84
.75	40	28	17	45	60	130	48	9	86
50	38	26	16	40	50	120	45	8	88
-25	36	24	15	35	40	110		7	90
.00	34	22	14	30	30	100	39	6	92
25	32	20	13	25	20	90	36	5	94
50	30	18	12	20	10	80	33	4	90
75	28	16	11	15	0	70	30	3	98
-1.00	26	14	10	10	-10	60	27	2	100
-1.25	24	12	9	5	-20	50	24	1	100
-1.50	22	10	8	0	-30.,	. 40	21	-	104
-1.75	20	8	7	- 5	- 40; -	30	13	-	106
-2.00	18	6	6	-10	-50	20	15		108



Factors Which Merit Special Attention

Rate Earned on Investment - The rate earned on the investment is an excellent indication of the managing ability of the farm operator. This is particularly true in regions where the average investment per farm is large. In regions where the average investment is small, the Labor and Management Wage is also an excellent measure of managing ability. Anyone whose rate earned on the total farm investment or whose Labor and Management Wage is below the average for his locality can well study the various factors which will indicate the source of a man's success or failure. In this way he may locate the source of his difficulty. The following paragraphs discuss the more important factors influencing farm earnings.

Crop Yields - Good crop yields are among the most definite of requirements for good incomes. One whose crop yields are low in comparison with others working land of equal natural value can well study the practices of men who secure higher yields. Men who secure the best yields pay special attention to rotation of crops, seed, drainage, use of legumes, use of manure, use of limestone and phosphate where needed, preparation of seed beds, cultivation, and protection from diseases, and insects.

Asturns from \$100 Invested in Live Stock - Where any considerable part of the income of a farm is from live stock, this item merits special attention. Where the returns are below the average a careful study of the practices on rore successful farms may assist the operator to locate places where he can improve his methods. The difficulty may be in a low percentage of calves, pigs, lambs, etc. raised. It may be in lack of attention to sanitary arrangements and protection from disease. In case of pure bred stock, it may be the inability to market the young stock at prices in accord with the value of the breeding stock. kept. In case of stock feeding operations where feeders are purchased it may be in poor buying both as to time and price. It may be in not producing the quality of stock which the market demands. The growing of sufficient legume forage to supply most of the protein requirements, careful purchase and use of additional protein and mineral supplements, and the utilization of roughage are among other important factors which make possible the more economical production of live stock.



Per cent of Encome from Live Stock - In a region where the best paying farms receive a large proportion of their income from live stock, the less successful farmers will do well to consider increasing their income from tive stock. This way be done by improving the quality of live stock, by better feeding, semitary and breeding methods or by increasing the amount of live stock kept. In order to impresse the quality of live stock it has not usually proven profitable for a man to invest in a considerable number of high priced pure bred stock at one time. It is a sore safe practice to grow the better stock by using good sires and specialized picking up good females. Meither is it usually wise for a man who has never handled much stock to buy up a large breeding herd or go suddenly into extensive feeding operations. In any case it is better to work gradually into the live stock business, fullding up equipment, breeding herds and feeding operations showly, as one learns to follow successful methods.

The Use of Man Labor and Horse Labor - about sixty to eighty per cent of the cost of operating a farm, not including interest or rest charges, is for man labor and horse labor. If a tractor is used the labor is usually reduced, but the machinery expense is increased about in proportion. It costs approximately \$100 per year to keep one work horse when one includes present feed costs, depress tion, interest on investment, burn room, harness costs, etc. If a man finds that he is working fewer crop acres per man or per horse than the average farmer working under similar conditions, he can well study his cituation with the idea of cutting down this expense. The changing to a more carefully planned rotation of crops is probably the way in which nest men can best reduce the man and horse labor costs. A rotation should be chosen, so as to avoid having a very large labor requirement at any one time, so as to require a uniform amount of man and horse labor from early spring until late fall, and so as to utilize the family labor to best advantage. The following ing down of crops and use of enough live stock to utilize labor at seasons that find work is light are two other very definite means of increasing the efficiency in the use of labor. While the working of a large number of crop acres per man and par large is desirable, a study of hundreds of records from over the state indicates that some



men have reduced the amount of both wan and horse labor to a point where crop yiels and returns from live stock are reduced because of lack of sufficient well directed labor.

Expense per \$100 Gross Income - This is a measure of the lit in fill, entroped of the farm business. Farm records show that men who heep expenses low in proportion to their incomes are men who practice more or less of the following things. They glue their work so as to do as much as possible themselves or with family labor. After getting a few good breeding females, they raise their own breeding stock except for the purchase of pure bred sires. Incofar as feasible they raise and prepare their own seeds. They utilize rainy days and off seasons to repair buildings, fences, machinery and harness. This saves the purchase of much new equipment, the paying out of high wages for skilled labor for such repairs as they can readily do themselves and also saves the expense incident to delay caused by broken machinery or fences during the busy season.

Size of Farm - When one finds that his farm is smaller than the most profitable farms in his locality and his income is low even though he has good crop yields and good returns from live stock, he may remedy the situation, by buying or renting additional land, or by gradually adopting a more intensive or more specialized type of farming. On the other hand, if he finds that his farm is larger than the best farms and his income is low, he may profit by renting out land, or by planning so as to do more efficient work on his present acreage.

Closing Suggestions

- 1. Leaks in the farm business are most likely to occur along the line of these factors which have been discussed, namely:
 - a. Grop yields
 - b. Returns from investment in live stock
 - c. The propertion of returns from live stock
 - d. Use of man labor
 - e. Use of Lorue labor
 - f. Expenses in proportion to income
 - g. Size of farm

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- 2. A careful comparison of a man's farm business record occide whose of several other men farming under similar conditions will enable him to find the leaks in his farm business.
- 3. There can be no improvement without some change to practices used.

 Carefully planned and slowly developed changes are more likely to result in incre and incomes than are impulsive and sudden changes of methods.
- 4. It is the well balanced farm that pays. One may have good crop yields and make good use of live stock, but receive a small net income because of inefficient use of labor. Or one may work a large acreage per can and per norse, but fail because of low crop yields or your returns from live stock. A well balanced form with a fair degree of efficiency along all lines brings the operator good returns which enable him to maintain a high standard of layer for his facility.

SUMMARY OF FARK BUSILESS RECORDS (1) MONEGE COUNTY - 1983

Nine Monroe County farmers who kept farm business records in 1923 earned an average rate of 3.35% on an average capital investment of \$25,462. Three of the nine farmers received an average of 5.06% on their investment, while three others received only 1.03% of their investment, a difference of 4.03%. In terms of money, this means that the three more efficient of these nine farmers received an average net income of approximately \$1025 more than was received by the three whose farms showed the lowest net incomes.

The following table will help enable each Monroe County farmer who kept these records to find some of the leaks in his farm business, if there have been such leaks in his business.

Rate Earned, Labor and Management Wage and Factors in which Leaks are likely to occur.	Your Farm	Average of 9 Farms	Three Most Profitable Farms	Three Least Profitable Farms	
Rate Earned on Investment Labor and Management Wage Crop Yields - Corn - Bushels Oats - Lushels Wheat - Bushels	\$	3.35% \$- 2.44 42.1 26.2 18.2	5.06% \$ 371.33 41.6 27.2 19.3	1.03% \$- 124.00 28.2 20.7 14.2	
Returns per \$100 Invested (2) in all Productive Live-stock For \$100 in Horses For \$100 in Cattle For \$100 in Sheep For \$100 in Swine For \$100 in Poultry	\$\$ \$\$ \$\$ \$\$ \$\$ \$\$	\$ 151.20 \$- 11.33 \$ 171.14 \$ \$ 99.53 \$ 201.78	\$ 153.31 \$- 11.68 \$ 139.81 \$ \$ 121.21 \$ 250.85	\$ 152.15 \$- 9.78 \$ 221.34 \$ \$ 63.13 \$ 134.02	
Per cent of Income from Livestock Grop Acres per Man Crop Acres per Horse Expense per \$100 Gross Income Size of Farm - Acres	7.	38.8% 69.6 26.6 73.66 192.5	29.4% 75.2 33.2 \$ 66.84 249.6	48.5% 38.9 19.5 \$ 89.04 150.3	

⁽¹⁾ Records secured and summarized by the Monroe County, Farm Bureau, Waterloo, Illinois, and the Department of Farm Organization and Management, University of Illinois, Urbana, Illinois cooperating.

(2) The average investment at the beginning and end of the year was used in finding these factors.

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Data from Monroe County Records - 1923 (Contd)

	Your Farm	Average of 9 Farms	Three Most Frofitable Farms	•
1 Value of Land per Acre 2 Capital Investment - Total 3 Land 4 Buildings (1) 5 Machinery and Equipment 6 Feed and Supplies 7 Live Stock - Total	수구 수구 수구 수구 수구 111	88 \$ 25,462 \$ 16,954 \$ 3,084 \$ 2,722 \$ 1,376 \$ 1,326	\$ 99 \$ 37,745 \$ 24,728 \$ 4,037 \$ 4,604 \$ 2,647 \$ 1,630	\$\\\ \begin{array}{cccccccccccccccccccccccccccccccccccc
8 Horses and Mules 9 Cattle 10 Sheep 11 Swine 12 Poultry	♦ ♦ ♦ ♦ ♦ ♦ ♦ ♦ ♦ ♦ ♦ ♦ ♦ ♦ ♦ ♦ ♦ ♦ ♦	\$ 501 \$ 270 \$ 7 \$ 342 \$ 205	\$ 565 \$ 407 \$ \$ 495 \$ 213	\$ 373 \$ 162 \$ \$ 144 \$ 1°=
13 Receipts-Net Increases-Total 14 Feed and Supplies 15 Miscellaneous 16 Live Stock - Total	() + () + () + () + () + () + () + () +	\$ 3,233 \$ 1,661 \$ 315 \$ 1,255	\$ 5,760 \$ 3,177 \$ 838 \$ 1,694	\$ 1,436 \$ 716 \$ 24 \$ 696
17 Horses 18 Cattle 19 Dairy Products 20 Sheep	\$\text{\$\exitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exitt{\$\text{\$\exitting{\$\text{\$\exitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exitt{\$\text{\$\text{\$\text{\$\exitt{\$\text{\$\text{\$\exittin}}\$\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\tex{	\$ - 56 64 415 5	9 - 63 85 505 	\$ - 34 \$ 63 \$ 304 \$
21 Swine 22 Poultry 23 Eggs 24 Miscellaneous	\$ \$ \$ \$ \$ \$	\$ 355 \$ 147 \$ 305 \$ 20	\$ 617 \$ 136 403 \$ 11	\$ 140 \$ 48 \$ 149 \$ 28
25 Expenses-Net Decreases-Total 26 Farm Improvements 27 Machinery and Equipment 28 Feed and Supplies 29 Cash Expenses	\$\$ 40 40 40 40 40 40 40 40 40 40 40 40 40	\$ 1,710 \$ 172 \$ 805 \$ \$ 733	\$ 3,040 \$ 126 \$ 1,641 \$ 1,273	\$ 735 \$ 180 \$ 194 \$ \$ 361
30 Receipts less Expenses 31 Operator and Family Labor 32 Net Income from Investment	\$\phi\$	\$ <u>1,523</u> \$ 672 \$ 852	\$ 2,719 \$ 810 \$ 1,909	\$ 701 544 157
33 Investment per Acre 34 Gross Receipts per Acre 35 Total Expenses per Acre 36 Net Receipts per Acre	\$ \$ \$ \$	\$ 132.26 \$ 16.79 \$ 12.37 \$ 4.42	\$ 151.22 \$ 23.07 \$ 15.42 \$ 7.65	\$ 101.27 \$ 9.55 \$ 8.51 \$ 1.04
37 Man Labor per Total Acres 38 Farms with Tractors - Per cent	\$ %	\$ 4.99 55.5%	\$ 5.37	\$ 4.33
39 Acres of Land in all Crops 40 Corn - Acres 41 Oats - Acres 42 Wheat- Acres 43 Legumes-Acres		128.3 28.6 7.7 72.8 14.6	188,2 46.6 9.0 116.0 7.7	87.7 11.0 9.0 52 3 9.1

(1) The investment in buildings, machinery and equipment, etc. at the beginning of the year was used here.

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Find Your Farm Louks (Monroe County - 1923)

The numbers just above the line across the middle of this page are approximately the averages for your county for the factors as named at the tops of the columns. By drawing a line across each column at the point where the number represents your efficiency for that factor, as given on page 1 of this report, you can see where your efficiency is above the average and where it is below the average.

1									Zxpense
	Bu	shels per	•	Returns per \$100			Crop .	Acres	por#100
Rate		Acre of			Invested in			<u> </u>	Gress
Earned	Corn	Oats	wheat	Cattle	Hogs	Poultry		Herze	Inchas
8.50	84	47	39	275	310	410	132	48	32
8.25	82	1 6	38	270	300	400	129	47	34
8.00	80	45	37	265	290	390	126	46	36
7.75	78	44	36	260	230	330	123	45	38
7.50	76	43	35	255	270	370	120	44	40 42
7.25	74 72	42 41	34 33	250 24 5	260	350	117 114	43 42	44
6.75	70	₹0 ±7	32	240	250 240	350 340	111	41	46
6.50	68	39	31	235	230	330	108	40	48
6.25	66	38	30	230	220	320	105	39	50
6.00	64	37	29	225	210	310	102	38	52
5.75	62	36	28	220	200	300	99	37	54
5.50	60	35	27	21.5	190	290	96	36	56
5.25	58	34	26	210	130	280	93	35	53
5.00	56	33	25	205	170	270	90	3-1	60
4.75	54	32	24	300	160	260	27	33	; 62
4.50	52	31	23	195	150	250	04	32	: 64
4.25	50	30	23	190	140	240	81	; 31	66
4.00 3.75	48 46	29 28	21 20	185 180	130 120	230 220	7 8 75	30	68
3.50	44	27	19	175	110	210	73	28	72
3.25	42	26	18	170	100	200	69	27	74
3.00	40	25	17	165	90	190	5ê	26	76
2.75	38	24	16	160	: 80	180	63	25	78
2.50	36	23	15	155	70	170	60	34	30
2.25	34	22	14	: 150	60	160	57	25	: 82
2.00	32	21	; 13	145	50	1.50	54	22	. 82
1.75	30	20	12	140	40	140	51	21	: 34
1.50	28	19	11	135	30	130	48	20	30 90
1.25	26 24	18	10	130 125	20 1.0	120	45 42	19 18	90
.75	22	16	8	120	1.0	100	39	17	94
.50	20	15	7	: 115	-10	90	36	16	96
.25	18	14	6	110	-20	80	33	15	98
.00	16	13	5	105	- 30	70	30	14	100
25	14	12	4	100	-10	60	27	13	102
50	12	11	3	95	- 50	50	24	12	10-
775	10	10	2	90	- 60	40	21	11	106
-1.00	8	9	1	85	- 70	30	18	10	108
-1.25	6	8	-	80	-30	20	15	9	110
_1.50	4	7	<u> </u>	75	- 90	10	12	3	112

Factors Wich Merit Special Attention

Rate Earned on Investment - The rate earned on the investment is an excellent indication of the managing ability of the farm operator. This is particularly true in regions where the average investment per farm is large. In regions where the average investment per farm is large. In regions where the average investment is small, the <u>Labor</u> and <u>Management Wage</u> is also an excellent measure of managing ability. Anyone whose rate earned on the total farm investment or whose Labor and Panagement Wage is below the average for his locality can well study the various factors which will indicate the source of a man's success or failure. In this way he may locate the source of his difficulty. The following paragraphs discuss the rore important factors influencing farm earnings.

Crop Yields - Good crop yields are among the most definite of requirements for good incomes. One whose crop yields are low in comparison with others working land of equal natural value can well study the practices of men who secure higher yields. Men who secure the best yields pay openial nitention to rotation of crops, seed, drainage, use of legumes, use of manure, use of limestone and phosphate where needed, preparation of seed beds, cultivation, and protection from diseases, and insects.

Returns from \$100 Invested in Live Stock - There any considerable part of the income of a farm is from live stock, this item merits special attention. Where the returns are below the average a careful study of the practices on more successful farms may assist the operator to locate places where he can improve his methods. The difficulty may be in a low percentage of calves, pigs, lambs, etc. raised. It may be in lack of attention to sanitary arrangements and protection from disease. In case of pure bred stock, it may be the imability to market the young stock at prices in accord with the value of the breeding stock. kept. In case of stock feeding operations where feeders are purchased it may be in poor buying both as to time and price. It may be in not producing the quality of stock which the market derands. The growing of sufficient legume forage to supply most of the protein requirements, careful purchase and use of additional protein and mineral supplements, and the utilization of roughage are among other important factors which make possible the more economical production of live stock.

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For cent of Encome from Stock - In a region where the hest paying farms receive a large proportion of their income from live stock, the least successful farmers will do well to consider increasing their lacers from the track. This may be done by improving the quality of live stock, by better feeding, a sittery of breeding methods or by increasing the amount of live stock kept. In order to increasing the quality of live stock is has not usually proven profitable for a and to invest in a considerable number of high priced pure bred stock at one time. It is a norm safe practice to grow the better stock by using good sires and specifically picking we good females. Meither is in usually wise for a am who has never handled much stock to buy up a large breeding herd or go suddenly into extensive feeding operations. In any case it is better to work gradually into the live stock business, building up equipment, breeding hards and feeding operations showly, as one learns to follow successful methods.

The Use of Man Labor and Morse Labor - about sixty to eighty per cent of the cost of operating a form, not including laterest or rest charges, is for most labor and horse labor. If a tructor is used the labor is usually reduced, but the machinery expense is increased about in proportion. It costs approximately \$100 per year to keep one work horse when one includes are sent feed costs, depreciation, interest on investment, barn room, harmoss costs, etc. If a man finds that he is working fewer crop acres per man or per horse than the average farmer working under similar conditions, he can well study his cituation with the idea of cutting down this expense. The changing to a nore carefully planned retation of crage is probably the way in which nost men can best reduce the man and horse labor econs. A rotation should be chosen, so as to avoid having a very large labor requirement at may one time, so as to require a uniform amount of man and horse labor from early spring until late fall, and so as to utilize the family labor to best advantage. The file ing down of craps and use of enough live stock to utilize labor it seasons which far. work it light are two other very definite means of increasing the efficiency in the use of labor. While the working of a large number of crop acres per man and par hor is desirable, a study of hundreds of records from one that andicutes that some

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men have reduced the amount of both an and horse labor to a point where crop yields and returns from live stock are reduced because of lack of sufficient well directed labor.

Expense per \$100 Cross Incomes - This is a measure of thrift in all parts of the farm business. Farm records show that men who keep expenses low in proportion to their incomes are men who practice more or less of the following things. They plan their work so as to do as much as possible themselves or with family labor. After getting a few good breeding females, they raise their own breeding stock except for the purchase of pure bred sires. Insofar as feasible they raise and prepare their own seeds. They utilize rainy days and off seasons to repair buildings, fences, machinery and harness. This saves the purchase of much new equipment, the paying out of high wages for skilled labor for such repairs as they can readily do themselves and also saves the expense incident to delay caused by broken machinery or fences during the busy season.

Size of Farm - When one finds that his farm is smaller than the most profitable farms in his locality and his income is low even though he has good crop yields and good returns from live stoch, he may remedy the situation, by buying or renting additional land, or by gradually adopting a more intensive or more specialized type of farming. On the other hand, if he finds that his farm is larger than the best farms and his income is low, he may profit by renting out land, or by planning so as to do more efficient work on his present acreage.

Closing Sungestions

- 1. Leaks in the farm business are most likely to occur alone the line of these factors which have been discussed, namely:
 - a. Crop yields
 - b. Returns from investment in live stock
 - c. The proportion of returns from live stock
 - d. Use of man laior
 - e. Use of horse labor
 - f. Expanses in proportion to income
 - g. Size of farm

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- 2. A careful comparison of a ran's farm business record leside those of several other men farming under similar conditions will enable him to find the leaks in his farm business.
- 3. There can be no increvement without some change in practices used.

 Carefully planned and slowly developed changes are nore likely to result in increased incomes than are impulsive and sudden changes of methods.
- 4. It is the well balanced farm that pays. One may have good crop yields and make good use of live stock, but receive a small net income because of inefficient use of labor. Or one may work a large acreage per man and per horse, but fail because of low crop yields or poor returns from live stock. A well balanced farm with a fair degree of efficiency along all lines brings the operator good returns which enable him to maintain a high standard of livear for his family.

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SUMMARY OF FARM BUSINESS RECORDS (1) WABASH COUNTY - 1923

Twenty-four Wabash County farmers who kept farm business records in 1923 earned an average rate of 3.5% on an average capital investment of \$22,595. Eight of the twenty-four farmers received an average of 6.9% on their investment, while eight others received only .2%, a difference of 6.7%. In terms of money, this means that the eight more efficient of these twenty-four farmers received an average net income of approximately \$1500 more than was received by the average of the eight whose farms showed the lowest net income.

The following table will help enable each Wabash County farmer who kept these records to find some of the leaks in his farm business, if there have been such leaks in his business.

Rate Earned, Labor and Management Wage and Factors in which Leaks are most likely to occur	Your Farm	Average of 24 Farms	Eight Mos t Profitable Farms	Eight Least Profitable Farms
Rate Earned on Investment Labor and Management Wage Crop Yields - Corn - bushels Oats - bushels Wheat - bushels	Ç	3.5% \$ 149. 47.4 10.1 17.7	5.9% \$ 965. 54.5 25.3 19.3	.2% \$-461. 41.7 19.4 16.4
Returns per \$100 invested in all Productive Live-stock (2) For \$100 in Horses For \$100 in Cattle For \$100 in Sheep For \$100 in Swine For \$100 in Poultry	ক্ষেত্ৰ ক্ষুত্ৰ ক্ষুত্ৰ ক্ষুত্ৰ ক্ষুত্ৰ ক্ষুত্ৰ		\$ 123.97 \$-11.45 \$ 74.97 \$ 120.31 \$ 147.96 \$ 257.03	\$ 134.56 \$-17.33 \$ 121.20 \$ 28.46 \$ 149.44 \$ 134.69
Fer cent of Income from Live Stock Crop Acres per Man Crop Acres per Horse Expense per \$100 Gross Income Size of Farm - Acres	\$\$\$	50.5 65.4 18.7 \$ 68.62 163.0	40.3 65.2 23.6 \$ 54.27 155.6	64.4 64.1 16.7 \$ 97.46 145.9

⁽¹⁾ Records secured and summarized by the Wabash County Farm Bureau, Mt. Carmel, Illinois, and the Department of Farm Organization and Management, University of Illinois, Urbana, Illinois cooperating.

⁽²⁾ The average investment at the beginning and end of the year was used in finding these factors.

Pata from Wabash County Records - 1923 (Cont'd)

		Your Farm	Average of 24 Farms	Eight Most Profitable Farms	Proi	nt Least fitable Farms
2 Capital I 3 Land 4 Buildi 5 Machin 6 Feed a	Land per Acre nvestment - Total ngs (1) ery and Equipment nd Supplies tock - Total	ক্র	\$ 103 \$ 22,595 \$ 16,769 \$ 2,086 \$ 784 \$ 1,045 \$ 1,911	\$\\\ \begin{align*} \div 06 \\ \partial 22,890 \\ \partial 16,516 \\ \partial \partial 2,448 \\ \partial 1,115 \\ \partial 1,173 \\ \partial 1,637 \end{align*}	10-10-10-10-10-10-10-10-10-10-10-10-10-1	101. 19,543 14,633 1,929 695 775 1,461
9 Ca 10 Sh 11 Sw	rses ttle eep ine ultry	선물 선물 선물 선물 선물	\$ 559 \$ 784 \$ 36 \$ 371 \$ 161	\$ 474 \$ 615 \$ 54 \$ 322 \$ 172	40 + 40 + 40 + 40 + 40 + 40 + 40 + 40 +	460 332 30 466 173
14 Feed a15 Miscel	Net Increases-Total nd Supplies laneous tock - Total	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$\frac{2,510}{1,122}\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\$0 40 40 QF	1,775 583 47 1,144
18 Ca 19 Da	rses ttle iry Products eep	\$\$ \$\$ \$\$ \$\$	\$ - 59 \$ 227 \$ 272 \$ 37	\$ - 51 \$ 317 \$ 144 \$ 78	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	73 4 <u>1</u> 365 9
22 Po 23 Eg	ine ultry gs scellaneous	\$\$ \$\$ \$\$ \$\$	\$ 487 \$ 86 \$ 196 \$ 22	\$ 458 \$ 136 \$ 272 \$ 17	. 47-47-47-47-	577 34 169 22
26 Farm I 27 Machin 28 Feed a	et Decreases-Total mprovements ery and Equipment nd Supplies xpenses	\$9 OF CORD \$0	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\$\frac{1,089}{5}\$ \$\frac{179}{5}\$ \$\frac{356}{5}\$ \${552}\$	40×43×47×40×40×40×	1,090 157 296 40 597
31 Operator	less Expenses and Family Labor e from Investment	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$\frac{1.440}{\$652}\$\$\frac{2}{\$788}\$\$	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	10 to 10 to 1	685 638 46
35 Total Exp	t per Acre sipts per Acre ensesper Acre pts per Acre	्र क्र	\$ 138.65 \$ 15.40 \$ 10.57 \$ 4.83	\$ 22.06 \$ 11.97	C) + 40+ 40+ 40+	133.97 12.16 11.84 <u>.33</u>
37 Man Labor 38 Farms wit	per Total Acres h Tractors - Per cent	Ş	\$ 5.12 61.6	\$ 6.08 62.5	\$	5.28 37.5
40 Corn 41 Qats 42 Wheat	Land in all Crops - Acres - Acres - Acres - Acres		107.9 34.5 15.3 38.6 9.8	120.7 32.1 6.8 33.7 7.1		97.4 32.3 8.9 32.6 1÷.1

⁽¹⁾ The investment in buildings, machinery and equipment, etc. at the beginning of the year was used here.



Find Your Farm Leaks - (Wabash County - 1923)

The numbers just above the line across the middle of this page are approximately the averages for your county for the factors as named at the tops of the columns. By drawing a line across each column at the point where the number represents your efficiency for that factor, as given on page 1 of this report, you can see where your efficiency is above the average and where it is below the average.

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	P.,	shels pe		Dod		00 1 00	Crop	4 2222	Expense per\$100
Rate	k.	anera pe. Acre of	L .		urns per nvested		pei		Gross
Eërned		Oats	Wheat	Cattle		Paultry		Horse	Income
9.00	92	54	40	175	370	410	132	41	24
8.75	90	52	39	170	360	400	129	40	26
3.50	88	50	38	165	350	390	126	39	28
8.25	86	48	37	160	340	380	123	38	30
8.00	84	46	36	155	330	370	120	37	32
7.75	82	44	35	150	320	360	117	36	34
7.50	80	42	34	145	310	350	114	35	36
7.25	78	40	33	140	300	340	111	34	38
7,00	76	38	32	135	290	330	108	33	40
6.75	74	36	31	130	280	320	105	32	42
6.50	72	34	30	125	270	310	102	31	44
6.25	70	32	29	120	250	300	99	30	46
5.00	68	30	28	115	250	290	96	29	48
5, 75	66	28	27	110	240	280	93	28	50
5.50	64	26	26	105	230	270	90	27	52
5, 25	62	24	25	100	220	260	87	26	54
5.00	60	22	24	95	210	250	64	25	56
4.75	- 58	20	23	90	200	240	81	24	58
4.50	5 6	18	22	85	190	230	78	23	60
4.25	54	16	21	80	180	220	75	22	62
4.00	52	14	20	75	170	210	72	21	64
3,75	5 0	12	19	70	160	200	69	20	66
3,50	48	10	18	65	1.50	190	66	19	68
3.25	46	8	17	60	140	180	63	18	70
31.00	44	6	16	55	130	170	60	17	72
2,75	42	4	15	50	120	160	57	16	74
2.50	40	2	14	45	110	150	54	15	7 6
2,25	38	-	13	40	100	140	51	14	78
2,00	36	-	12	35	90	130	48	13	80
1.75	34		11	30	80	120	45	12	82
1:50	32	-	10	25	70	110	42	11	84
1 25	30	-	9	20	60	100	39	10	86
1,00	28	-	8	15	50	90	36 . . .	9	88
.75	26		7	10	.40	, 80	33 50	8	90
≥•50	24	-	6	5	.30	7 0	50 57	7	92 04
	23	-	5	0	20	60	27 24	6	94 96
	20		4	- 5 .	10	50	24	5	98
∞, ≾⊃ ∞, 50	18	-	3	- 10	0	40	21	4	100
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: =1,00	12	-	1	- 20	-20	20	15	1	102
-1.25	10	_	•••	- 25	- 30 - 40	10 0	12 9	_	104
-1.50	8	~	-	30 35	1	9 5	6	-	108
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Factors Bill. Parit Special Attention

Rate Earned on Investment - The rate curred on the investment is an excellent indication of the managing ability of the farm operator. This is particularly true in regions where the average investment per farm is large. In regions where the average investment is small, the Labor and Management Wage is also an excellent measure of managing ability. Anyone whose rate carned on the total farm investment or whose Labor and Management Wage is below the average for his locality can well study the various factors which will indicate the source of a man's success or failure. In this way he may locate the source of his difficulty. The following paragraphs discuss the nore important factors influencing farm earnings.

Crop Yields - Good crop yields are among the most definite of requirements for good incomes. One whose crop yields are low in comparison with others working land of equal natural value can well study the practices of men who secure higher yields. Men who secure the test yields pay special attention to rotation of crops, seed, drainage, use of legumes, use of manure, use of limestone and phosphate where needed, preparation of seed beds, cultivation, and protection from diseases, and insects.

Esturns from \$100 Invested in Live Stock - Where any considerable part of the income of a farm is from live stock, this item marits special attention. Where the returns are below the average a careful study of the practices on rore successful farms may assist the operator to locate places where he can improve his methods. The difficulty may be in a low persentage of calves, pigs, lambs, etc. raised. It may to in lack of attention to sanitary arrangements and protection from disease. In case of pure bred stock, it may be the inability to market the young stock at prices in accord with the value of the breeding stock. *kept.* In case of stock feeding operations where feeders are purchased it may be in poor buying both as to time and price. It may be in not producing the quality of stock which the market demands. The growing of sufficient legume forage to supply most of the protein requirements, careful purchase and use of additional protein and mineral supplements, and the utilization of roughage are among other important factors which make possible the zero economical production of live stock.

Fer cent of Income from Sive Stock - In a region where the best paying farms receive a large proportion of their income from live stock, the less successful farmers will do well to consider increasing their income from live stock. This way be done by improving the quality of live stock, by better feeding, samitary and breeding methods or by increasing the amount of live stock kept. In order to improve the quality of live stock it has not usually proven profitable for a man to invest in a considerable number of high priced pure bred spock at one time. It is a more safe practice to grow the better stock by using good sires and occasionally picking up good females. Neither is it usually wise for a man who has never handled much stock to buy up a large breeding herd or go suddenly into excensive feeding operations. In any case it is better to work gradually into the live stock business, building up equipment, breeding hards and feeding operations slowly, as one learns to follow successful methods.

The Use of Man Lubor and Horse Labor - about sixty to eighty per cent of the cost of operating a farm, not including interest or rest charges, is for man labor and horse labor. If a tractor is used the labor is usually reduced, but the machinery expense is increased about in proportion. It costs approximately (100 per year to keep one work horse when one includes present feed costs, depreciation, interest on investment, barn room, harmbos costs, etc. If a man finds that he is working fewer crop acres per man or per horse than the average farmer working under similar conditions, he can well study his situation with the idea of cutting down this expense. The changing to a more carefully planned rotation of crops is probably the way in which nost men can best reduce the man and horse labor couts. A rotation should be chosen, so as to avoid having a very large labor requirement at any one time, so as to require a uniform amount of man and horse labor from early spring until late fall, and so as to utilize the family labor to best advantage. The following ing down of crops and use of enough live stock to utilize labor it seasons that final work is light are two other very definite means of increasing the efficiency in the use of labor. While the working of a large number of crop acres per mun and per hors is desirable, a study of hundreds of records fro, over the state indicates that some

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men have reduced the amount of both can and horse labor to a point where crop yields and returns from live stock are reluced because of lack of sufficient well directed labor.

Expense per \$100 Gross Income - This is a measure of Mulfit to all parts of the farm business. Farm records show that men who keep expenses low in proportion to their incomes are men who practice more or less of the following things. They plum their work so as to do as much as possible themselves or with family labor. After getting a few good breeding females, they raise their own breeding stock except for the purchase of pure bred sires. Insofar as feasible they raise and prepare their own seeds. They utilize rainy days and off seasons to repair buildings, fences, machinery and harness. This saves the purchase of much new equipment, the paying out of high wages for skilled labor for such repairs as they can readily do themselves and also saves the expense incident to delay caused by broken machinery or fences during the busy season.

Size of Farm - When one finds that his farm is smaller than the most profitable farms in his locality and his income is low even though he has good crop yields and good returns from live stock, he may remedy the situation, by buying or renting additional land, or by gradually adopting a more intensive or more specialized type of farming. On the other hand, if he finds that his farm is larger than the best farms and his income is low, he may profit by renting out land, or by planning so as to do more efficient work on his present acreage.

Closing Suggestions

- 1. Leaks in the farm business are nost likely to occur along the line of these factors which have been discussed, namely:
 - a. Crop yields
 - b. Returns from investment in live stock
 - c. The proportion of returns from live stock
 - d. Use of man labor
 - e. Use of horse labor
 - f. Expenses in proportion to income
 - g. Size of farm

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- 2. A careful comparison of a man's farm business record beside those of several other men farming under similar conditions will enable him to find the leaks in his farm business.
- 3. There can be no improvement without some change in practices used. Carefully planned and slowly developed changes are more likely to result in increased incomes than are impulsive and sudden changes of methods.
- 4. It is the well balanced farm that pays. One may have good crop yields and make good use of live stock, but receive a small net income because of inefficient use of labor. Or one may work a large acreage per man and per horse, but fail because of low crop yields or poor returns from live stock. A well belanced farm with a fair degree of efficiency along all times brings the operator good returns which enable him to maintain a high standard of living for his family.

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SUMMARY OF FARM BUSINESS RECORDS (1) WOODFORD COUNTY - 1923

Ninety-five Woodford County farmers who kept farm business records in 1923 earned an average rate of 3.15% on an average capital investment of \$55,411.

Thirty-two of the ninety-five farmers received an average of 5.28% on their investment, while thirty-two others received only 1.08% of their investment, a difference of 4.20%. In terms of money, this means that the thirty-two more efficient of these ninety-five farmers received an average net income of approximately \$2325 more than was received by the thirty-two whose farms showed the lowest net incomes.

The following table will help enable each Woodford County farmer who kept these records to find some of the leaks in his farm business, if there have been such leaks in his business.

Rate Earned, Labor and Management Wage and Factors in which Leaks are most likely to occur	Your Farm	Average of 95 Farms	32 Most Profitable Farms	32 Least Profitable Farms
Rate Earned on Investment Labor and Management Wage Crop Yields - Corn - Bushels Oats - Bushels Wheat - Bushels	\$	3.15% \$-447. 48.6 48.3 24.5	5.28% \$734. 50,1 49.7 26.7	1.08% \$-1511. 49.6 49.0 24.0
Returns per \$100 Invested (2) in all Productive Live-stock For \$100 In Horses For \$100 in Cattle For \$100 in Sheep For \$100 in Poultry	ক্ত কেক কৰ্	\$ 101.63 \$ 2.53 \$ 78.07 \$ 45.05 \$ 121.07 \$ 156.64	\$119.63 \$-4.66 \$109.77 \$-37.72 \$136.17 \$166.90	\$ 85,13 \$ 1,65 \$ 54,59 \$ 26,26 \$ 107,70 \$ 134,04
Percent of Income from Livestock Crop Acres per Man Crop Acres per Horse Expense per \$100 Gross Income Size of Farm - Acres	% \$	43.5% 86.7 21.6 \$ 60.24 204.2	48.0% 90.0 22.9 \$ 46.53 207.3	44.4% 83.3 19.8 \$ 82.41 195.8

⁽¹⁾ Records secured and summarized by the Woodford County Farm Bureau, Eureka, Illinois, and the Department of Farm Organization and Management, University of Illinois, Urbana, Illinois cooperating.

⁽²⁾ The average investment at the beginning and end of the year was used in finding these factors.

Data from Woodford County Records - 1923 (Cont'd)

	: Yo		:	Average of 95 Farms		2 Most rofitable Farms		32 Least Profitable Farms
1 Value of Land per Acre 2 Capital Investment - Total 3 Land 4 Buildings (1) 5 Machinery and Equipment 6 Foed and Supplies 7 Live Stock - Total	\$ 39 39 39 49 49 49 49		3	\$13 55,411 44,191 3,870 1,604 2,630 2,863	C - 404 404 404 404 404	55.807 44.557 3.634 1,405 2,903 3,119	C. 50:40:50:50:50:40:40:40:40:40:40:40:40:40:40:40:40:40	11.5 53.601 44,777 4,305 1.758 2,769 2,712
8 Horses 9 Cattle 10 Sheep 11 Swine 12 Poultry	ర్.పి కర్రి జర్హిక కర్రి కర్రి		カッカ さいちゃかんり	889 858 120 848 148	からもならな	849 924 265 923 146	\$ \$ \$ \$ \$ \$ \$	870 827 46 814 152
13 Receipts-Net Increases-Total 14 Feed and Supplies 15 Miscellaneous 16 Live Stock - Total	10 40 40 40 40 40 40 40 40 40 40 40 40 40		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	4,353 2,372 79 1,902	\$2 \$2 \$2 \$Q\$	5,487 2,755 83 2,649	10 10 10 10 10 10 10 10 10 10 10 10 10 1	3,250 1,725 63 1,432
17 Horses 18 Cattle 19 Dairy Products 20 Sheep	40° 40° 40° 40°		40) + 40 + 40 + 40 + 40 + 40 + 40 + 40 +	23 491 196 41	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	39 826 264 63	40x 40x 40x 40x	14 342 110 13
21 Swine 22 Poultry 23 Eggs 24 Miscellaneous	క్సు కహి కహి		10:00 to 10:	948 84 140 23	40×40×40×40×	1,280 101 101 15	もい もい もともい	783 67 124 37
25 Expenses-Net Decreases-Total 26 Farm Laprovements 27 Machinery and Equipment 28 Feed and Supplies 29 Cash Expenses	\$\$ \$\tau_{\\ \tau_{\tau_{\tau_{\\ \tau_{\tau_{\\ \tau_{\\ \tau_{\tau_{\\ \tau_{\\ \\ \tau_{\\ \tau_{\\ \tau_{\\ \tau_{\\ \tau_{\\ \tau_{\\ \tau_{\\ \\ \tau_{\\ \tau_{\\ \\ \tau_{\\ \tau_{\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\		40×60×60×6×	1,923 244 453 1,226	めん ギン ずひ めい むい	1,851 206 392 1,253	た たくり たり	2.005 271 530 1,205
30 Receipts less Expenses 31 Operator and Family Labor 32 Net Income from Investment	\$ 19 kg		ನ್ಯಾರ್ ನಿ	2,431 686 1,744	40±03±13±	3,636 687 2,949	ಕ್ರಿಸಿಕ್ಕ್ ಕ್ರಿ	1,245 662 583
33 Investment per Acre 34 Gross Receipts per Acre 35 Total Expenses per acre 36 Net Receipts per Acro	000 00 O		40×0×40×40×	271.36 21.46 12.94 8.54	8 y 4 \$	269.28 26.60 10.38 14.32	\$ \$	273.86 16.93 13.95 2.98
37 Man Labor per Total Acres 38 Farms with Tractors - Percent	Ş	90	\$	5.4; 56.4;		5,58 40.6%		5.44 7 1.0;
39 Acres of Land in all Crops 40 Corn - Acres 41 Oats - Acres 42 Wheat - Acres 43 Legumes-Acres				164.9 84.0 51.4 11.2 10,1		*171.0 83.6 50.5 13.6 11.6		152.4 77.2 47.0 0.0 7.2

⁽¹⁾ The investment in buildings, machinery and equipment, etc. at the beginning of the year was used here.

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Find Your Farm Leaks (Woodford County -11923)

The numbers just above the line across the middle of this page are approximately the averages for your county for the factors as named at the tops of the columns. By drawing a line across each column at the point where the number represents your efficiency for that factor as given on page 1 of this report, you can see where your efficiency is above the average and where it is below the average.

Rate		ushels p	er		turns pe		_	Crop Actes		
Earned		Acre of	757	-	nvested			er	Gross	
8.50	Corr 90	0 its	: V.heat 45	Catale	inc s	Foultr	Han 150	Horse 43	Firence	
8.25	8 8	88	44	135 180	330 320	5', 0 360	147	42	15 20	
8.00	86	86	43	175	310	350	144	41	22	
7.75	84	84	42	170	300	340	141	40	24	
7.30	82	82	41	165	290	330	138	39	26	
7.25	80	80	40	160	280	320	135	38	23	
7.00	78	78	39	155	270	310	132	37	30	
6.75	76	76	38	150	260	300	129	36	32	
6.50	74	74	37	145	250	290	126	35	34	
6.25	72	72	36	140	240	280	123	34	36	
6.00	70	70	35	135	230	270	120	33	38	
5.75	68	68	34	130	220	260	117	32	40	
5.50	66	66	33	125	210	250	1.1.4	31	42	
5.25	64	64	32	120	200	240	111.	30	44	
5.00	62	62	31	11.5	1.90	230	108	29	46	
4.75	60	60	30	110	1.80	220	105	28	48	
4.50	58	58	29	105	170	210	102	27	50	
4.25	56	56	28	100	1.60	200	99	26	52	
4.00	54	54	27	95	150	190	96	25	54	
3.75	52	52	26	90	140	180	93	24	56	
3.50	50	50	25 :	85	130	170	90	23	58	
3.25	49	4.8	24	80	1.20	760	37	22	60	
3.00	46	40	23	75	110	1301	0/4	21	63	
2.75	44	44	22	70	100	140	81.	20	64	
2.50	42	42	21	65	90	130	78	19	66	
2.25	40	40	20	60	80	120	75	18	68	
2.00	38	38	19	55	70	110	72	17	70	
1.75	36	36	18	50	60	100	69	16	72	
1.50	34	34	17 !	45	50	90	66	15	74	
1.25	32	33	5.5	40	40	63	63	14	76	
1.00 .75	30 28	30	15	35	30	70	60	13	7 8	
.50	26	28	14	30	20	60	57	12	80	
.25	26 24	26 24	13	25	10	50	54	11	82	
.00	22	22	12 11	20 15	0	40	51.	10	84	
25	20	20	10	10	-10 -20	30 20	48	9	86	
50	18	18	9	5	-30		45	8	88	
75	16	16	8	0	-30 -40	10	42 39	7	90 92	
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-1.25	12	12	6	-10.	- 60	-20	33	4	96	
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Factors Which Merit Special Attention

Rate Earned on Investmen - The rate earned on the investment is an excellent indication of the managing ability of the farm operator. This is particularly true in regions where the average investment per farm is large. In regions where the average investment is small, the Labor and Management Wage is also an excellent measure of managing ability. Anyone whose rate earned on the total farm investment or whose Labor and Management Wage is below the average for his locality can well study the various factors which will indicate the source of a man's success or failure. In this way he may locate the source of his difficulty. The following paragraphs discuss the more important factors influencing farm earnings.

Crop Yields - Good crop yields are among the most definite of requirements for good incomes. One whose crop yields are low in comparison with others working land of equal natural value can well study the practices of men who secure higher yields. Men who secure the best yields pay special attention to rotation of crops, seed, drainage, use of legumes, use of manure, use of limestone and phosphate where needed, preparation of seed beds, cultivation, and protection from diseases, and insects.

Returns from \$100 Invested in Live Stock - Where any considerable part of the income of a farm is from live stock, this item merits special attention. Where the returns are below the average a careful study of the practices on more successful farms may assist the operator to locate places where he can improve his methods. The difficulty may be in a low percentage of calves, pigs, lambs, etc. raised. It may be in lack of attention to sanitary arrangements and protection from disease. In case of pure bred stock, it may be the inability to market the young stock at prices in accord with the value of the breeding stock. 'In case of stock feeding operations where feeders are purchased it may be in poor buying both as to time and price. It may be in not producing the quality of stock which the market demands. The growing of sufficient legume forage to supply most of the protein requirements, careful purchase and use of additional protein and mineral supplements, and the utilization of roughage are among other important factors which make possible the core economical production of live stock.

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Per cent of Income from Live Stock - In a region where the dest paying farms receive a large proportion of their income from live stock, the less successful farmers will do well to consider increasing their income from live stock. This may be done by improving the quality of live stock, by better feeding, sanitary and breeding methods or by increasing the amount of live stock kept. In order to improve the quality of live stock it has not usually proven profitable for a man to invest in a considerable number of high priced pure bred stock at one time. It is a more safe practice to grow the better stock by using good sires and occasionally picking up good females. Neither is it usually wise for a man who has never handled much stock to buy up a large breading herd or go suddenly into extensive feeding operations. In any case it is better to work gradually into the live stock business, building up equipment, breeding herds and feeding operations slowly, as one learns to follow successful methods.

The Use of Man Labor and Horse Labor - About sixty to eighty per cent of the cost of operating a farm, not including interest or rent charges, is for man labor and horse labor. If a tractor is used the labor is usually reduced, but the machinery expense is increased about in proportion. It costs approximately \$100 per year to keep one work horse when one includes present feed costs, depreciation, interest on investment, barn room, harness costs, etc. If a man finds that he is working fewer crop. acres per man or per horse than the average farmer working under similar conditions, he can well study his situation with the idea of cutting down this expense. The changing to a more carefully planned rotation of crops is probably the way in which most men can best reduce the man and horse labor costs. A rotation should be chosen, so as to avoid having a very large labor requirement at any one time, so as to require a uniform amount of man and horse labor from early spring until late fall, and so as to utilize the family labor to best advantage. The feeding down of crops and use of enough live stock to utilize labor at seasons when field work is light are two other very definite means of increasing the efficiency in the use of labor. While the working of a large number of crop acres per man and per horse is desirable, a study of hundreds of records from over the state indicates that some



men have reduced the amount of both man and horse labor to a point where crop yields and returns from live stock are reduced because of lack of sufficient well directed labor.

Expense per 3100 Gross Income - This is a measure of thrift in all parts of the farm business. Farm records show that men who keep expenses low in proportion to their incomes are men who practice more or less of the following things. They plan their work so as to do as much as possible themselves or with family labor. After getting a few good breeding females, they raise their own breeding stock except for the purchase of pure bred sires. Insofar as feasible they raise and prepare their own seeds. They utilize rainy days and off seasons to repair buildings, fences, machinery and harness. This saves the purchase of much new equipment, the paying out of high wages for skilled labor for such repairs as they can readily do themselves and also saves the expense incident to delay caused by broken machinery or fences during the busy season.

Size of Farm - When one finds that his farm is smaller than the most profitable farms in his locality and his income is low even though he has good crop yields and good returns from live stock, he may remedy the situation, by buying or renting additional land, or by gradually adopting a more intensive or more specialized type of farming. On the other hand, if he finds that his farm is larger than the best farms and his income is low, he may profit by renting out land, or by planning so as to do more efficient work on his present acreage.

Closing Suggestions

- 1. Leaks in the farm business are most likely to occur along the line of these factors which have been discussed, namely:
 - a. Crop yields
 - b. Returns from investment in live stock
 - c. The proportion of returns from live stock
 - d. Use of man labor
 - e. Use of horse labor
 - f. Expenses in proportion to income
 - g. Size of farm

*

- 2. A careful comparison of a man's farm business record beside those of several other men farming under similar conditions will enable him to find the leaks in his farm business.
- 3. There can be no improvement without some change in practices used. Carefully planned and slowly developed changes are more likely to result in increased incomes than are impulsive and sudden changes of methods.
- 4. It is the well balanced farm that pays. One may have good crop yields and make good use of live stock, but receive a small net income because of inefficient use of labor. Or one may work a large acreage per man and per horse, but fail because of low crop yields or poor neturns from live stock. A well balanced farm with a fair degree of efficiency along all lines brings the operator good returns which enable him to maintain a high standard of living for his family.

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SUMMARY OF TWENTY-FIVE FARM BUSINESS RECORDS CLINTON COUNTY - 1922

Records secured and summarized by the Clinton County Farm Bureau, Breese, Illinois, and the Department of Farm Organization and Management, University of Illinois, Urbana, Illinois, co-operating.

Twenty-five Clinton County farmers earned an average interest rate of 1.7% on an average capital investment per farm of \$19,367 in 1922. Six of these farmers received an average of 5.6% interest on their investment while six others lacked an average of 2.0% of earning any interest.

The following table gives rather complete data for the twenty-five farms, for the six farms which earned the highest interest rates and for the six farms which earned the lowest rates. A blank column has been left in order that those who kept the books may write in the records of their own farms in order to compare their work with others who kept similar records.

CLINTON COUNTY SUMMARY 1 9 2 2

		Your Farm	Average of 25 Farms	6 High. est Farms	6 Lowest Farms
2.	Size of Farm Value of Land per Acre Capital Investment - Total		163.9 \$ 98 \$19367	151.2 \$ 80 \$15899	161.0 \$ 102 \$17075
4 & 6. 7.	5. Land and Buildings Machinery and Equipment Feed and Supplies		\$15402 \$ 1306 \$ 827	\$12054 \$ 910 \$ 857	\$13745 \$ 1048 \$ 731
8.	Livestock - Total		ତ୍ର 1832	\$ 2078	\$ 1551
9.	Horses		ବି 589	\$ 651	\$ 510
10.	Cattle		ଦି 892	\$ 1053	\$ 758
11.	Sheep		\$ 2	0	္ 0
12.	Swine		\$ 83	\$ 49	့ 91
13.	Poultry		\$ 266	\$ 335	့ 192
14.	Receipts - Net Increases-Tot.		\$ 2212	\$ 2865	\$ 1424
15.	Feed and Supplies		\$ 597	\$ 652	\$ 562
16.	Miscellaneous		\$ 116	\$ 49	\$ 73

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Swine

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Interest Earned (Line 32) - The rate of interest earned is an excellent indication of the managing ability of the farm operator. This is particularly true in regions where the average investment per farm is large. Anyone whose rate of interest earned on the total farm investment is below the average for his locality can well study the various factors which will indicate the source of a man's success or failure. In this way he may locate the source of his difficulty. The following paragraphs discuss the more important factors influencing farm earnings.

Crop Yields (Line 43 to 48) - Good crop yields are among the most definite of requirements for good incomes. One whose crop yields are low in comparison with others working land of equal natural value can well study the practices of men who secure higher yields. Men who secure the best yields pay special attention to rotation of crops, seed, drainage, use of clover, use of manure, use of limestone and phosphate where needed, preparation of seed beds, cultivation, and protection from diseases, and insects.

Returns from \$100 Invested in Livestock (Line 51 to 56) - Where any considerable part of the income of a farm is from livestock, this item merits special attention. Where the returns are below the average a careful study of the practices on more successful farms may assist the operator to locate places where he can improve his methods. The difficulty may be in a low percentage of calves, pigs, lambs, etc. raised. It may be in lack of attention to sanitary arrangements and protection from disease. In case of pure bred stock, it may be the inability to market the young stock at prices in accord with the value of the breeding stock kept. In case of pure bred stock, it may be the inability to market the young stock at prices in accord with the value of the breeding stock kept. In case of stock feeding operations where feeders are purchased it may be in poor buying both as to time and price. It may be in not producing the quality of stock which the market demands. The growing of sufficient legume forage to supply most of the protein requirements, careful purchase and use of additional protein and mineral supplements, and the utilization of roughage are among other important factors which make possible the more economical production of livestock.

Per cent of Income from Livestock (Line 50) - In a region where the best paying farms receive a large proportion of their income from livestock, the less successful farms will do well to consider increasing their income from livestock. This may be done by improving the quality of livestock, by better feeding, sanitary and breeding methods or by increasing the amount of livestock kept. In order to improve the quality of livestock it has not usually proven profitable for a man to invest in a considerable number of high priced pure bred stock at one time. It is a more safe practice to grow the better stock by using good sires and occasionally pickin up good females. Neither is it: usually wise..for a man who has never handled much stock to buy up a large breeding herd or go suddenly into extensive feeding operations. In any case it is better to work gradually into the livestock business, building up equipment, breeding herds and feeding operations slowly, as one learns to follow successful methods.

The Use of Man Labor and Horse Labor (Lines 39 and 40) - About sixty to eighty per cent of the cost of operating a farm, not including interest or rent charge; is for man labor and horse labor. If a tractor is used the labor is usually reduced, but the machinery expense is increased about in proportion. At present values of feed it costs approximately \$100 per year to keep one work horse. If a man finds that he is working fewer crop acres per man or per horse than the average farmer working under similar conditions, he can well study his situation care fully with the idea of cutting down this expense. The changing to a more carefully planned rotation of crops is probably the way in which most men can best



reduce the man and horse labor costs. Such a rotation should be chosen so as to evoid having a very large labor requirement at any one time, and so as to require a uniform amount of man and horse labor from early spring until late fall. The feeding down of crops and use of enough livestock to utilize labor at seasons when field term is light are two other very definite means of increasing the efficiency in the use of labor. While the working of a large number of crop acres per man and per horse is desirable, a study of hundreds of records from over the state indicates that some men have reduced the amount of both man and horse labor to a point where crop yields and returns from livestock are reduced because of lack of sufficient well directed labor.

Size of Farm (Line 1) - When one finds that his farm is smaller than the most profitable farms in his locality and his income is low he may remedy the situation, by buying or renting additional land, or by gradually adopting a more intensive or mere specialized type of farming. On the other hand, if he finds that his farm is larger than the best farms and his income is low, he may profit by renting out land, or by planning so as to do more efficient work on his present acreage.

- 1. Every farm operator can well afford to study his own farm business in the light of these factors which have been discussed.
 - A. Crop yields, including the rotation of crops
 - B. Returns on the investment in livestock
 - C. The protoction of returns from livestock
 - D. Use of Man Labor
 - E. Use of Horse Labor
 - F. Size of Farm.
- 2. There can be no improvement in farm management without some change in practices used. Carefully planned and slowly developed changes are more likely to result in increased incomes than are impulsive and sudden changes of methods.
- 3. It is the well balanced farm that pays. One may have good crop yields and make good use of livestock, but receive a small net income because of inefficient use of labor. Or one may work a large acreage per man and per horse, but fail because of low crop yields or poor returns from livestock. A well balanced farm with a fair degree of efficiency along all lines brings the operator good returns which enable him to maintain a high standard of living for his family.



SUMMARY OF SHVEN COLES COUNTY FARM FUSINESS RECORDS COLES COUNTY - 1922

Records secured and summarized by the Coles County Farm Bureau, Charleston, Illinois, and the Department of Farm Organization and Management, University of Illinois, Urbana, Illinois, co-operating.

Seven Coles County Farmers earned an average interest rate of 4.7% on an average capital investment per farm of \$42917 in 1922. The following table gives rather complete data for the seven farms. A blank column has been left in order that those who kept the books may write in the records of their own farms in order to compare their work with others who kept similar records.

COLES COUNTY SUMMARY

	Average of 7 Farms	You r Farm
1. Size of Farm	174.3	
Value of Land per AcreCapital Investment - Total	\$ 194 \$42917	
4. Land	\$33809	
5. Building	\$ 4216	
6. Machinery and Equipment	\$.1241	
7. Feed and Supplies	\$ 1240	
Livestock - Total	§ 3417	
10. Cattle	\$ 777	
11. Sheep	\$ 3417 \$ 966 \$ 65 \$ 486 \$ 117	
12. Swine	\$ 486	
13. Poultry	\$ 117	
14. Receipts - Net Increases Total	\$ 4299	
15. Feed and Supplies	\$ 1666	
16. Miscellaneous	\$ 60	
17. Livestock - Total	\$ 3 573	
18. Horses	\$ 1	
19. Cattle	\$ 999	
20. Sheep	\$ 46 \$ 1369	
21. Swine	\$ 1369	
22. Poultry 23. Miscellaneous	\$ 142 \$ 16	
MISCELL MIGOUS	ů IO	
24. Expenses - Net Decreases - Total	\$ 1682	
25. Farm Improvements	\$ 301	
26. Machinery and Equipment	\$ 417	
27. Feed and Supplies	\$ 301 \$ 417 \$ 29 \$ 935	
28. Cash Expenses	\$ 935	
29. Receipts less expenses	\$ 2617	

	Average of 7 Farms	Your Farm
50. Operator and Unpaid Family Labor 31. Not income from Investment 32. Rate of Interest earned 33. Labor and Management Wage 34. Investment per acre 35. Gross receipts per acre 36. Total expense per acre 37. Net receipts per acre	\$ 594 \$ 2023 \$ 279 \$ 279 \$ 246 \$ 24.66 \$ 13.05 \$ 11.61	
38. Man labor cost per total acre 39. Crop acres per man 40. Crop acres per horse 41. Percent of farms with tractors 42. Percent of land in crops	\$ 5.73 \$\frac{91.9}{18.4} 59.7 18.4 28.5%	
43. Corn - acres 44. Yield 45. Oats - Acres	56 •4 53 •3 20 •3	:
46. Yield 47. Wheat - Acres 48. Yield	26.4 20.8 24.7	:
49. Legumes - Acres 50. Receipts from livestock 3/ Return for \$100 invested in L.S.	29 •1 59 •8% \$ 141 •00	·
52. Return for \$100 in Horses 53. " " " Cattle 54. " " " Sheep 55. " " " " Swine 56. " " " Poultry	\$ \$ 90.50 \$ 65.50 \$ 258.00 \$ 120.00	
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Interest Earned (Line 32) - The rate of interest earned is an excellent indication of the managing ability of the farm operator. This is particularly true in regions where the average investment per farm is large. Anyone whose rate of interest earned on the total farm investment is below the average for his locality can well study the various factors which will indicate the source of a man's success or failure. In this way he may locate the source of his difficulty. The following paragraphs discuss the more important factors influencing farm earnings.

Crop Yields (Line 43 to 43) - Good crop yields are among the most definite of requirements for good incomes. One whose crop yields are low in comparison with others working land of equal natural value can well study the practices of men who secure higher yields. Men who secure the best yields pay special attention to rotation of crops, seed, drainage, use of clover, use of manure, use of limestone and phosphate where needed, preparation of seed beds, cultivation, and protection from liseases, and insects.

Returns from \$100 Invested in Livestock (Line 51 to 56) - Where any considerable part of the income of a farm is from livestock, this item merits special attention. Where the returns are below the average a careful study of the practices on more successful farms may assist the operator to locate places where he can improve his methods. The difficulty may be in a low percentage of calves, pigs, lambs, etc. raised. It may be in lack of attention to sanitary arrangements and protection from disease. In case of pure bred stock, it may be the inability to market the young stock at prices in accord with the value of the breeding stock kept. In case of pure bred stock, it may be the inability to market the young stock at prices in accord with the value of the breeding stock kept. In case of stock feeding operations where feeders are purchased it may be in poor buying both as to time and price. It may be in not producing the quality of stock which the market demands. The growing of sufficient legume forage to supply most of the protein requirements, careful purchase and use of additional protein and mineral supplements, and the utilization of roughage are among other important factors which make possible the more economical production of livestock.

Per cent of Income from Livestock (Line 50) - In a region where the best paying farms receive a large proportion of their income from livestock, the less successful farms will do well to consider increasing their income from livestock. This may be done by improving the quality of livestock, by better feeding, sanitary and breeding methods or by increasing the amount of livestock kept. In order to improve the quality of livestock it has not usually proven profitable for a man to invect in a considerable number of high priced pure bred stock at one time. It is a more safe practice to grow the better stock by using good sires and occasionally picking up good females. Neither is it: neually wise for at man who has never handled much stock to buy up a large breeding herd or go suddenly into extensive feeding operations. In any case it is better to work gradually into the livestock business, building up equipment, breeding herds and feeding operations slowly, as one lead to follow successful methods.

The Use of Man Lacor and Horse Labor (Lines 39 and 40) - About sixty to eighty per cent of the cost of operating a farm, not including interest or rent charges, is for man labor and horse labor. If a tractor is used the labor is usually reduced, but the machinery expense is increased about in proportion. At present values of feed it costs approximately \$100 per year to keep one work horse. If a man finds that he is working fewer crop acres per man or per horse than the average farmer working under similar conditions, he can well study his situation care fully with the idea of cutting down this expense. The changing to a more carefully planned rotation of crops is probably the way in which most men can best

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reduce the man and horse labor costs. Such a rotation should be chosen so as to avoid having a very large labor requirement at any one time, and so as to require a uniform amount of man and horse labor from early spring until late fall. The feeding down of crops and use of enough livestock to utilize labor at seasons when field work is light are two other very definite means of increasing the efficiency in the use of labor. While the working of a large number of crop acres per man and per horse is desirable, a study of hundreds of records from over the state indicates that some men have reduced the amount of both man and horse labor to a point where crop yields and returns from livestock are reduced because of lack of sufficient well directed labor.

Size of Farm (Line 1) - When one finds that his farm is smaller than the most profitable farms in his locality and his income is low he may remedy the situation, by buying or renting additional land, or by gradually adopting a more intensive or more specialized type of farming. On the other hand, if he finds that his farm is larger than the best farms and his income is low, he may profit by renting out land, or by planning so as to do more efficient work on his present acreage.

- 1. Every farm operator can well afford to study his own farm business in the light of these factors which have been discussed.
 - A. Crop yields, including the rotation of crops
 - B. Returns on the investment in livestock
 - C. The proportion of returns from livestock
 - D. Use of Man Labor
 - E. Use of Horse Labor
 - F. Size of Farm.
- 2. There can be no improvement in farm management without some change in practices used. Carefully planned and slowly developed changes are more likely to result in increased incomes than are impulsive and sudden changes of methods.
- 3. It is the well balanced farm that pays. One may have good crop yields and make good use of livestock, but receive a small net income because of inefficient use of labor. Or one may work a large acreage per man and per horse, but fail because of low crop yields or poor returns from livestock. A well balanced farm with a fair degree of efficiency along all lines brings the operator good returns which enable him to maintain a high standard of living for his family.

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SUMMARY OF EIGHT FARM BUSINESS RECORDS JO DAVIESS COUNTY - 1922

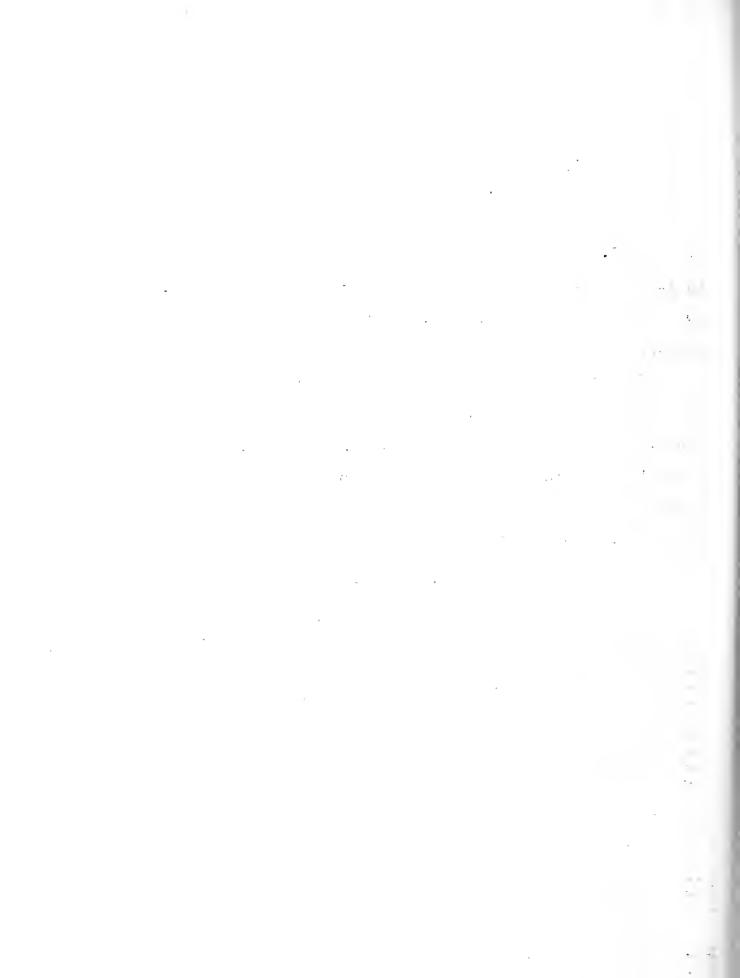
Records secured and summarized by the Jo Daviess County Farm Bureau, Elizabeth, Illinois, and the Department of Farm Organization and Management, University of Illinois, Urbana, Illinois, co-operating.

Eight Jo Daviess County farmers earned an average interest rate of 5.0% on an average capital investment per farm of \$30,103 in 1922. Two of these farmers received an average of 7.9% interest on their investment while two others earned an average of 2.4% interest.

The following table gives rather complete data for the eight farms, for the two farms which earned the highest interest rates and for the two farms which earned the lowest rates. A blank column has been left in order that those who kept the books may write in the records of their own farms in order to compare their work with others who kept similar records.

JO DAVIESS COUNTY SUMMARY
1922

		Your Farm	Average of 8 Farms	Two Best Farms	Two Poor- est Farms
2.	Size of Farm Value of Land per Acre Capital Investment - Total	<u>1</u>	\$ 170 \$ 141 \$30103	្ញុំ 1 50 ទី 96 ទំន 57 05	ବି 155 ବି 122 ବି 25468
5. 6.	Land Buildings Machinery and Equipment Feed and Supplies		\$20965 \$ 4569 \$ 1181 \$ 1040	\$143 9 8 \$ 4930 \$ 1428 \$ 864	\$ 19000 \$ 2530 \$ 944 \$ 1267
8: 9: 10.	Livestock - Total Horses Cattle		្តុំ 2350 ទ 661 ទ 1189	\$ 20 85 \$ 450 \$ 123 8	\$ 13.77 \$ 330 \$ 858
11. 12. 13.	Sheep Swine Poultry		\$ 1 8 \$ 343 \$ 139	\$ 27 9 \$ 1 113	\$ 375 \$ 262 / 9
14. 15. 16.	Receipts-Net Increases-To Feed and Supplies Miscellaneous	otal	୍ନ 3345 ତ 96≟ ତ 98	9 3591 9 995 223	\$ 225 9 \$ 222 \$ 73



2. Your Farm	Average of 8 Farms		wo Poor- est Farms
17. Livestock - Total 18. Horses 19. Cattle	\$ 2283 \$ 10 \$ 890	\$ 2373 \$ 15 \$ 915	\$ 1969 \$ - 53 \$ 909
20. Sheep 21. Swine 22. Poultry 23. Miscellaneous	\$ 36 1047 \$ 267 \$ 33	\$ 7 \$ 1152 \$ 284	\$ 1022 \$ 83 \$ 3
24. Expenses-Net Decreases-Total 25. Farm Improvements 26. Machinery and Equipment 27. Feed and Supplies 28. Cash Expenses	\$ 1117 \$ 236 214 22 \$ 645	\$ 116± 231 267 \$ 666	\$ 1110 \$ 254 \$ 1 62 \$ 90 \$ 604
29. Receipts less Expenses 30. Operators and Unpaid Family	\$ 2223	\$ 2427	§ 1149
Labor 31. Net Income from Investment 32. Rate of Interest Earned 33. Labor and Management Wage	\$ 714 \$ 15 14 5.0% \$ 486	540 \$ 1887 7.9% \$ 1191	\$ 517 \$ 652 2.4 \$ -154
34. Investment per Acre 35. Gross Receipts per Acre 36. Total Expense per Acre 37. Net Receipts per Acre	\$ 177 \$ 19.67 \$ 10.77 \$ 8.90	\$ 11.36	\$ 164 \$ 12.57 \$ 10.50 \$ 4.07
38. Man Labor Cost per Total Acre 39. Crop Acres per Han 40. Crop Acres per Horse 41. Percent of Famis with Tractors	\$ 5.98 49.00 16.3 25.0%	\$ 4.49 68.2 17.4 50.0%	5 5.01 36.0 13.5 0.0%
42. Percent of Land in Crops 43: Corn - Acres 44. Yield 45. Oats - Acres 46. Yield 47. Wheat - Acres 48. Yield 49. Legumes - Acres	54.7% 30.0 56.4 13.0 36.5 4.0 16.2 15.0	52.3% 37.0 45.0 10.0 34.9 2.0 26.0 23.0	34.8% 16.0 65.0 17.0 39.5 10.0 17.3
50. Percent of Receipts from Livestock	68.2 %	66.0%	86.9;
51. Return for \$100 invested in Liverstock 52. Returns for \$100 in Horses 53. " " " Cattle 54. " " " Sheep 55. " " Swine	\$111.00 \$ 2.00 \$ 69.00 \$ 206.00 \$ 182.00 \$ 164.00	\$110.00 \$ 3.00 \$148.00 \$280.00 \$159.00	\$96.00 \$-16.00 \$ 65.00 \$174.00
56. " " Poultry	\$ 164.00	\$163.00	\$ 68.00

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Interest Earned (Line 32) - The rate of interest earned is an excellent indication of the managing ability of the farm operator. This is particularly true in regions where the average investment per farm is large. Anyone whose rate of interest earned on the total farm investment is below the average for his locality can well study the various factors which will indicate the source of a man's success cr failure. In this way he may locate the source of his difficulty. The following paragraphs discuss the more important factors influencing farm earnings.

Crop Yields (Line 43 to 48) - Good crop yields are among the most definite of requirements for good incomes. One whose crop yields are low in comparison with others working land of equal natural value can well study the practices of men who secure higher yields. Men who secure the best yields pay special attention to rotation of crops, seed, drainage, use of clover, use of manure, use of limestone and phosphate where needed, preparation of seed beds, cultivation, and protection from diseases, and insects.

Returns from \$100 Invested in Livestock (Line 51 to 56) - Where any considerable part of the income of a farm is from livestock, this item merits special attention. Where the returns are below the average a careful study of the practices on more successful farms may assist the operator to locate places where he can improve his methods. The difficulty may be in a low percentage of calves, pigs, lambs, etc. raised. It may be in lack of attention to sanitary arrangements and protection from disease. In case of pure bred stock, it may be the inability to market the young stock at prices in accord with the value of the breeding stock kept. In case or pure bred stock, it may be the inability to market the young stock at prices in accord with the value of the breeding stock kept. In case of stock feeding operations where feeders are purchased it may be in poor buying both as to time and price. It may be in not producing the quality of stock which the market demands. The growing of sufficient legume forage to supply most of the protein requirements, careful purchase and use of additional protein and mineral supplements, and the utilization of roughage are among other important factors which make possible the more economical production of livestock.

Per cent of Income from Livestock (Line 50) - In a region where the best paying farms receive a large proportion of their income from livestock, the less successful farms will do well to consider increasing their income from livestock. This may be done by improving the quality of livestock, by better feeding, sanitary and breeding methods or by increasing the amount of livestock kept. In order to improve the quality of livestock it has not usually proven profitable for a man to invest in a considerable number of high priced pure bred stock at one time. It is a more safe practice to grow the better stock by using good sires and occasionally picking up good females. Neither is it: qually wise.for a man who has never handled much stock to buy up a large breeding herd or go suddenly into extensive feeding operations. In any case it is better to work gradually into the livestock business, building up equipment, breeding herds and feeding operations slowly, as one learns to follow successful methods.

The Use of Man Labor and Horse Labor (Lines 39 and 40) - About sixty to eighty per cent of the cost of operating a farm, not including interest or rent charges, is for man labor and horse labor. If a tractor is used the labor is usually reduced, but the machinery expense is increased about in proportion. At present values of feed it costs approximately \$100 per year to keep one work horse. If a man finds that he is working fewer crop acres per man or per horse than the average farmer working under similar conditions, he can well study his situation care fully with the idea of cutting down this expense. The changing to a more carefully planned rotation of crops is probably the way in which most men can best



reduce the man and horse labor costs. Such a rotation should be chosen so as to require a rotation are avoid having a very large labor requirement at any one time, and so as to require a runiform amount of man and horse labor from early spring until late fall. The feeding down of crops and use of enough livestock to utilize labor at seasons when field work is light are two other very definite means of increasing the efficiency in the use of labor. While the working of a large number of crop acres per man and per horse is desirable, a study of hundreds of records from over the state indicates that some men have reduced the amount of both man and horse labor to a point where crop yields and returns from livestock are reduced because of lack of sufficient well directed labor.

Size of Farm (Line 1) - When one finds that his farm is smaller than the most profitable farms in his locality and his income is low he may remedy the situation, by buying or renting additional land, or by gradually adopting a more intensive or more specialized type of farming. On the other hand, if he finds that his farm is larger than the best farms and his income is low, he may profit by renting out land, or by planning so as to do more efficient work on his present acreage.

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 - B. Returns on the investment in livestock
 - C. The proportion of returns from livestock
 - D. Use of Man Labor
 - E. Use of Horse Labor
 - F. Size of Farm.
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SUNDIARY OF THIRTEEN FARM BUSINESS LLCGDS KANE COUNTY - 1922

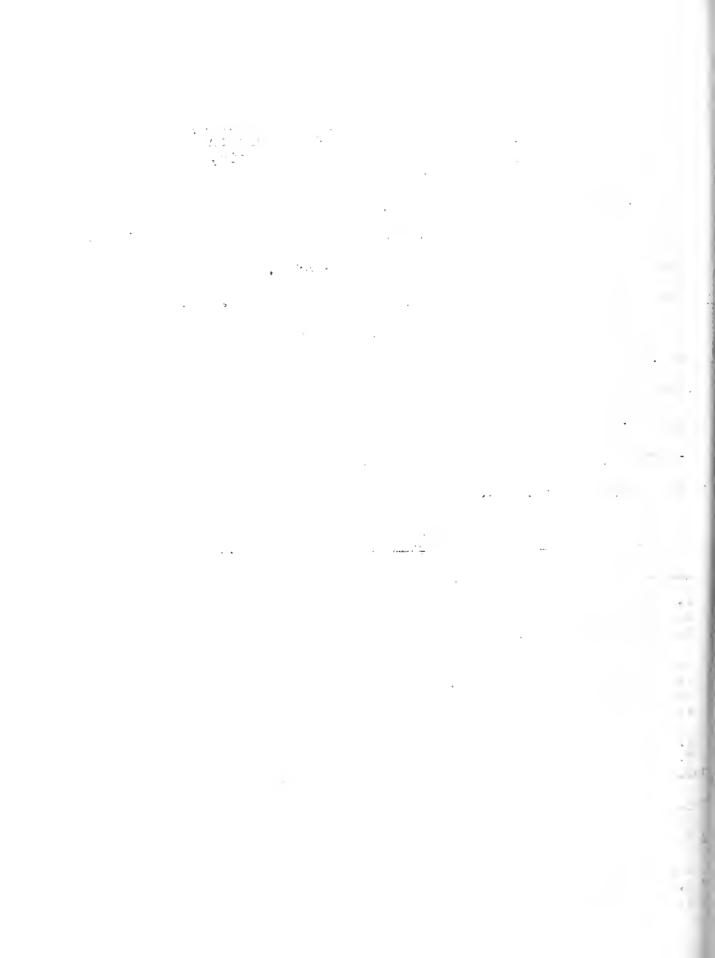
Records secured and summarized by the Kane County Farm Bureau, Geneva, Illinois, and the Department of Farm Organization and Management, University of Illinois, Urbana, Illinois, co-operating.

Thirteen Kane County farmers earned an average interest rate of 3.2% on an average capital investment per farm of \$45,356 in 1922. Four of these farmers received an average of 5.3% interest on their investment while four others earned an average of 0.4% interest.

The following table gives rather complete data for the thirteen farms, for the four farms which earned the highest interest rates and for the four farms which earned the lowest rates. A blank column has been left in order that those who kept the books may write in the records of their own farms in order to compare their work with others who kept similar records.

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	,	Your Farm	erage of _3 Farms	Four Best Farms	Bour Poor- est Farms
2.	Size of Farm Value of Land per Acre Capital Investment-Total		164 \$ 206 \$45356	165 \$ 228 \$50208	142 \$ 188 \$357 7 1
5. 6.	Land Buildings Machinery and Equipment Feed and Supplies		\$33685 \$4752 \$ 159 3 \$ 1 464	\$37750 \$4881 \$1524 \$1600	\$26901 \$ 5115 \$ 1302 \$ 1386
8. 9. .0.	Livestock - Total Horses Cattle		\$ 3862 \$ 614 \$ 2745	\$ 4453 \$ 537 \$ 3006	\$ 3069 \$ 613 \$ 2208
.1.	Sheep Swine Poultry		\$ 344 \$ 159	\$ 73 6 \$ 1 75	\$ 150 \$ 98
14. 5. 6.	Receipts -Net Increase-Tot. Feed and Supplies Miscellaneous	•	\$ 4568 \$ 531 \$ 275	\$ 5705 \$ 403 \$ 219	\$ 3349 \$ 1.0 \$ 231



		Your Farm	Average of 13 Farms		Four Poor- est Farms
17. 18. 19.	Livestock - Total Horses Cattle	c c	3964 -35 2961	\$ 5083 \$ - 25 \$ 400 1	\$ 3554 \$ - 15 \$ 2630
20. 21. 22. 23.			116 444 256 22	∵ \$746 \$ 342 \$ 19	\$ 377 \$ 419 \$ 140 \$ 3
26. 27. 28. 29.	Expenses-Net Decreases-Total Farm Improvements Machinery and Equipment Cash Expenses Feed and Supplies Receipts less Expenses Operators and Unpaid Family	9	2268 430 445 1256 137 2300	\$ 1939 \$ 220 \$ 435 \$ 1188 \$ 96 \$ 3766	\$2993 797 385 \$152 1 \$2 90 856
31. 32.	Labor Net Income from Investment Rate of Interest Earned Labor and Management Wage		857 1443 3.2% -333	\$ 1091 \$ 2675 5.3% \$ 665	\$ 700 \$ 156 0.4% \$-1123
35. 36.	Investment per Acre Gross Receipts per Acre Total Expenses per Acre Net Recepts per Acre	ول مورس والمالية	277 27.85 19.05 8.80	\$ 302 \$ 34.57 \$ 18.36 \$ 16.21	\$ 251 \$:.27.10 \$ 26.00 \$ 1.10
39. 40.	Man Labor Cost per Tot. Acre Crop Acres per Man Crop Acres per Horse Percent of Farms with Tracto		7.95 55.5 21.9 38.4%	\$ 9.12 49.6 20.7 25.0%	48.5 2 1. 7
	Percent of Land in Crops Corn - Acres Yield Oats - Acres Yield Wheat - Acres Yield Legumes		73.1% 41.0 56.9 19.0 55.7 8.0 29.6 16.0	72.1% 46.0 60.5 20.0 62.3 7.5 24.0 29.0	40.0
	% Receipts from Livestock Returns for \$100 Invested in	1	82.4%	89.9%	92.3%
	Livestock Returns for \$100 in Horses " " Cattle " " Sheep		115.20 -5.98 105.70	\$ 122.30 \$ -4.677 \$ 120.60	\$ 141.90 -2.45 \$ 117.80
55. 56.	" " " Swine " " Poultry	£0-€2	132.70 158.30	\$ 109.20 \$ 193.00	ម៉ឺ 226 65 ទី 147.00

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Interest Earned (Line 35) - The rate of interest earned is an excellent indication of the managing ability of the farm operator. This is particularly true in regions where the average investment per farm is large. Anyone whose rate of interest earned on the total farm investment is below the average for his locality can well study the various factors which will indicate the source of a man's success or failure. In this way he may locate the source of his difficulty. The following paragraphs discuss the more important factors influencing farm earnings.

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 - B. Returns on the investment in livestock
 - C. The projection of returns from livestock
 - D. Use of Man Labor
 - E. Use of Horse Labor
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SUMMARY OF ELEVEN FALA BUSINESS RECORDS LANRENCE COUNTY - 1922

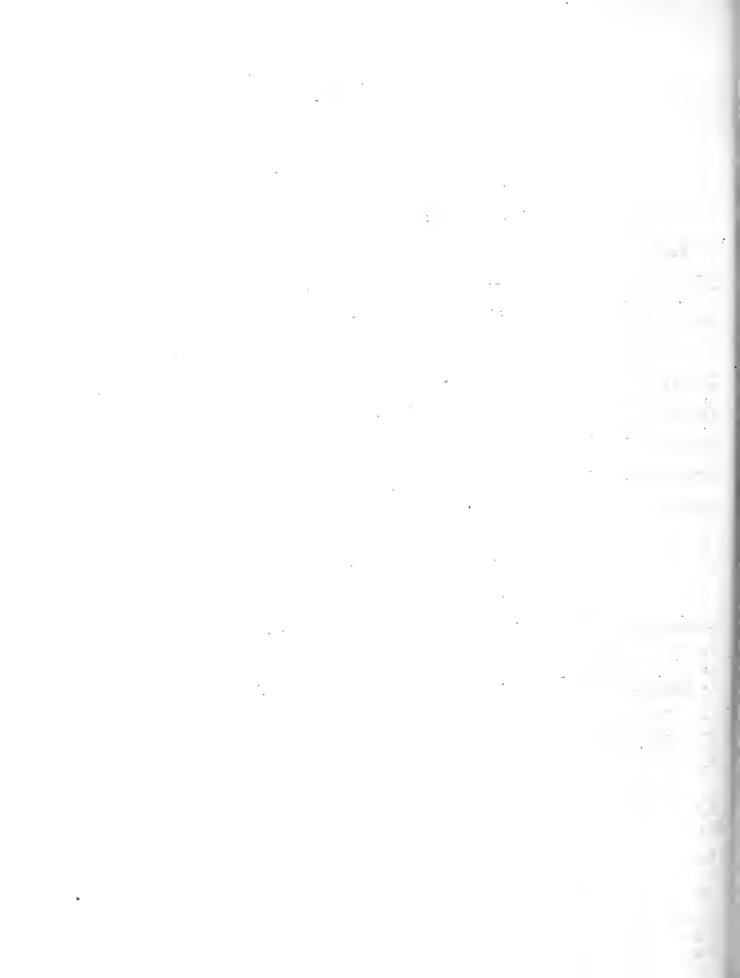
Records secured and summarized by the Lawrence County Farm Bureau, Lawrenceville Illinois, and the Department of Farm Organization and Management, University of Illinois, Urbana, Illinois, co-operating.

Eleven Lawrence County farmers earned an average interest rate of 1.4% on an average capital investment per farm of \$24948 in 1922. Three of these farmers received an average of 4.2% interest on their investment while three others earned an average of 0.02% interest.

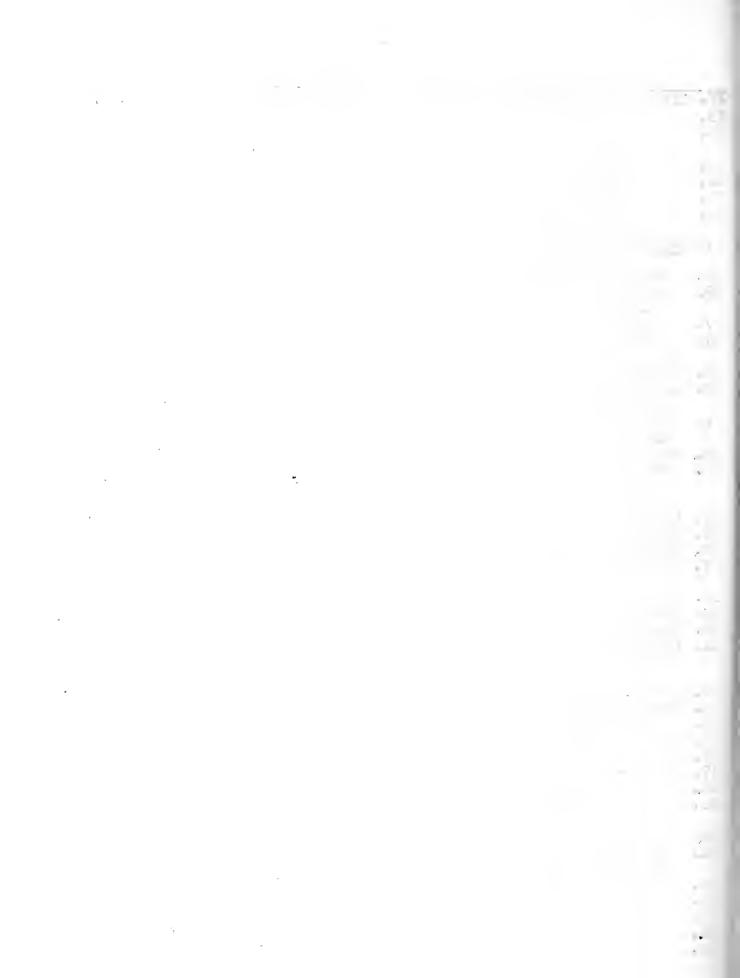
The following table gives rather camplete data for the eleven farms, for the three farms which earned the highest interest rates and for the three farms which earned the lowest rates. A blank column has been left in order that those who kept the books may write in the records of their own farms in order to compare their work with others who kept similar records.

LAWRENCE COUNTY SUMMARY 1922

		Your Farm	Average of 11 Farms	f Three Best Farms	
2.	Size of Farm Value of Land per Acre Capital Investment - Total		186 \$ 108 \$24948	115 \$ 68 \$ 117 02	178 \$ 145 \$3220
4. 5. 6. 7.	Land Buildings Machinery and Equipment Feed and Supplies		\$20047 \$1950 \$811 \$735	\$ 7817 \$ 1520 327 \$ 661	\$25713 \$ 2648 \$ 862 \$ 858
8. 9.	Livestock - Total Horses Cattle		\$ 1 405 \$ 554 \$ 368	\$ 1377 \$ 535 \$ 392	\$ 2139 \$ 989 583
11. 12. 13.	Sheep Swine Poultry		\$ 47 \$ 292 \$ 144	\$ 72 \$ 253 \$ 145	\$ 100 \$ 270 \$ 197
	Receipts-Net Increase - Tot Feed and Supplies Miscellaneous	tal	\$ 1889 \$ 706 \$ 44	\$ 1556 \$ 486 \$ 12	\$ 1607 \$ 347 \$ 11



		2. Your	Avera	ge of		Three Best		ree orest
		Farm		Farms		Farms		ırms
17. 18. 19.	Livestock - Total Horses Cattle			1139. -18 193		1058. -76 263	\$	249. 21. 296.
20. 21. 22. 23.	Sheep Swine Poultry Miscellaneous		+03+63+63+	31 638 283 12	SPECKAGA CA	57 530 263 21	67-67-67-67-	57 602 250 23
24. 25. 26.			£>.65:	995 17 8	4949	618 141	- 11	167
27.	ment Feed and Supplies		"	215	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	78		234
28.	Cash Expenses		₩	602	Ψ	399.	\$	60 0
	29. Receipts less Expenses 30. Operators and Unpaid		Ġ	894	\$.'938	\$	606
	Family Labor		\$	539	4	441	\$	600
	31. Net Income from Investment		\$	355 1.4%	\$	49 7 4.2%	\$	6 0.02%
32. Rate of Interest Earned 33. Labor and Management Wage		\$	- 428	\$	523	Ġ.	1059	
35. 36.	Investment per Acre Gross Receipts per Acre Total Expenses per Acre Net Receipts per Acre		\$240x40x40x40x40x40x40x40x40x40x40x40x40x4	134 10.15 3.25 1.00	49494949	102 15.53 9.21 4.32	49-49-49	181 9.02 8.99 0.03
39. 40.	Man Labor per Total Acres Crop Acres per Man Crop Acres per Horse Farms with Tractors, Per-		ф	81.2 20.0	\$	70.8 12.0	€ 3	4.55 67.7 15.1
	cent			27.2%		00.0%		33.3%
43. 44. 45. 46. 47. 48.	Wheat - Acres			69.4% 41.0 36.0 9.0 4.0 43.0 12.6 16.0		70.0% 17.0 38.9 27.0 10.7 20.0		54.0% 32.0 38.9 11.0 3.0 23.0 5.2 15.0
	Receipts from Livestock Returns for \$100 Invested			60.2%		67.9%		77.7%
in Livestock 52. Returns for \$100 in Horses 53. " " Cattle 54. " " " Sheep 55. " " " Swine 56. " " Poults	s e		\$137.00 \$ -3.00 \$ 53.00 \$ 67.00 \$222.00 \$194.000		\$123.00 \$ -2.00 \$ 67.00 \$ 89.00 \$19 0. 00 \$180.00	£\$\$\$\$\$\$\$\$\$\$\$\$\$	105.00 2.00 40.00 58.00 215.00 132.00	



Interest Earned (Line 32) - The rate of interest earned is an excellent indiearly. It the managing ability of the farm operator. This is particularly true in regions where the average investment per farm is large. Anyone whose rate of interest earned on the total farm investment is below the average for his locality can well study the various factors which will indicate the source of a man's success or failure. In this way he may locate the source of his difficulty. The following paragraphs discuss the more important factors influencing farm earnings.

Crop Yields (Line 43 to 48) - Good crop yields are among the most definite of requirements for good incomes. One whose crop yields are low in comparison with others working land of equal natural value can well study the practices of men who secure higher yields. Men who secure the best yields pay special attention to rotation of crops, seed, drainage, use of clover, use of manure, use of limestone and insphate where needed, preparation of seed beds, cultivation, and protection from diseases, and insects.

Returns from \$100 Invested in Livestock (Line 51 to 56) - Where any considerable part of the income of a farm is from livestock, this item merits special attention. Where the returns are below the average a careful study of the practices on more successful farms may assist the operator to locate places where he can improve his methods. The difficulty may be in a low percentage of calves, pigs, lambs, etc. raised. It may be in lack of attention to sanitary arrangements and protection from disease. In case of pure bred stock, it may be the inability to market the young stock at prices in accord with the value of the breeding stock kept. In case or pure bred stock, it may be the inability to market the young stock at prices in accord with the value of the breeding stock kept. In case of stock feeding operations where feeders are purchased it may be in poor buying both as to time and price. It may be in not producing the quality of stock which the market demands. The growing of sufficient legume forage to supply most of the protein requirements, careful purchase and use of additional protein and mineral supplements, and the utilization of roughage are among other important factors which make possible the more economical production of livestock.

Per cent of Income from Livestock (Line 50) - In a region where the best paying farms receive a large proportion of their income from livestock, the less successful farms will do well to consider increasing their income from livestock. This may be done by improving the quality of livestock, by better feeding, sanitary and breeding methods or by increasing the amount of livestock kept. In order to improve the quality of livestock it has not usually proven profitable for a man to invest in a considerable number of high priced pure bred stock at one time. It is a more safe practice to grow the better stock by using good sires and occasionally picking up good females. Neither is it: qually wise for a man who has never handled much stock to buy up a large breeding herd or go suddenly into extensive feeding operations. In any case it is better to work gradually into the livestock business, building up equipment, breeding herds and feeding operations slowly, as one learns to follow successful methods.

The Use of Man Labor and Horse Labor (Lines 39 and 40) - About sixty to eighty per cent of the cost of operating a farm, not including interest or rent charges, is for man labor and horse labor. If a tractor is used the labor is usually reduced, but the machinery expense is increased about in proportion. At present values of feed it costs approximately \$100 per year to keep one work horse. If a man finds that he is working fewer crop acres per man or per horse than the average farmer working under similar conditions, he can well study his situation carefully with the idea of cutting down this expense. The changing to a more carefully planned rotation of crops is probably the way in which most men can best

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reduce the man and horse labor costs. Such a rotation should be chosen so as to covaid having a very large labor requirement at any one time, and so as to require a uniform amount of man and horse labor from early spring until late fall. The feeding down of crops and use of enough livestock to utilize labor at seasons when fiel work is light are two other very definite means of increasing the efficiency in the use of labor. While the working of a large number of crop acres per man and per horse is desirable, a study of hundreds of records from over the state indicates that some men have reduced the amount of both man and horse labor to a point where crop yields and returns from livestock are reduced because of lack of sufficient well directed labor.

Size of Farm (Line 1) - When one finds that his farm is smaller than the most profitable farms in his locality and his income is low he may remedy the situation, by buying or renting additional land, or by gradually adopting a more intensive or more specialized type of farming. On the other hand, if he finds that his farm is larger than the best farms and his income is low, he may profit by renting cut land, or by planning so as to do more efficient work on his present acreage.

- 1. Every farm operator can well afford to study his own farm business in the light of these factors which have been discussed.
 - A. Crop yields, including the rotation of crops
 - B. Returns on the investment in livestock
 - C. The projection of returns from livestock
 - D. Use of Man Labor
 - E. Use of Horse Labor
 - F. Size of Farm.
- 2. There can be no improvement in farm management without some change in practices used. Carefully planned and slowly developed changes are more likely to result in increased incomes than are impulsive and sudden changes of methods.
- 3. It is the well balanced farm that pays. One may have good crop yields and make good use of livestock, but receive a small net income because of inefficient use of labor. Or one may work a large acreage per man and per horse, but fail because of low crop yields or poor returns from livestock. A well balanced farm with a fair degree of efficiency along all lines brings the operator good returns which enable him to maintain a high standard of living for his family.



SUMMARY OF FIFTEEN FARM BUSILESS RECORDS LEE COUNTY - 1922

Records secured and summarized by the Lee County Farm Bureau, Amboy, Illinois, and the Department of Farm Organization and Management, University of Illinois, Urbana, Illinois, co-operating.

Fifteen Lee County farmers earned an average interest rate of 4.9% on an average capital investment per farm of \$60,529 in 1922. Five of these farmers received an average of 8.1% interest on their investment while five others earned an average of 2.0%.

The following table gives rather complete data for the fifteen farms, for the five farms which received the highest interest rates, and for the five farms which earned the lowest rates. A blank column has been left in order that those who kept the books may write in the records of their own farms in order to compare their work with others who kept similar records.

LEE COUNTY SUMMARY 1 9 2 2

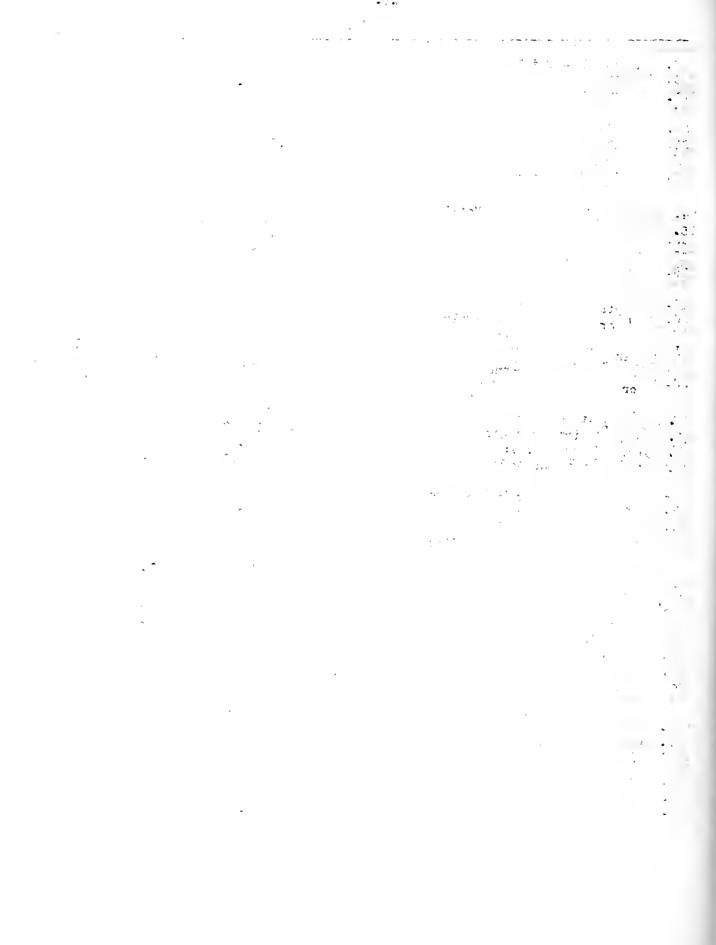
	Your Farm			
 Size of Farm Value of Land per Acre Capital Investment - Total 		254•6 213 \$60529	267.6 215 \$64549	273.8 209 \$64322
4&5. Band and Buildings 6. Machinery and Equipment 7. Feed and Supplies		\$54124 \$ 1636 \$ 1735	\$57542 \$ 1791 \$ 1792	\$57223 \$ 1705 \$ 2138
8. Livestock - Total9. Horses10. Cattle		0 3034 0 945 0 1238	\$ 3434 \$ 1199 \$ 1082	\$ 3256 \$ 750 \$ 1740
11. Sheep 12. Swine 13. Poultry		\$ 66 \$ 644 \$ 1 41	\$ 132 \$ 843 \$ 168	\$ 36 \$ 621 \$ 107
14. Receipts-Net Inchases Total15. Feed and Supplies16. Miscellaneous		ុំ 5732 ទុំ 2598 ទុំ 81	\$ 8315 \$ 3786 \$ 1	\$ 4507 \$ 1551 \$ 40

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-		Your Farm	Avera 15 Fa	age of	5 H Far	ighest ms	5 Lo Farn	west ns
17.	Livestock - Total		3 30)53	Š	4528	\$	2916
18.	Horses			₂ 75 •		-102	Š	-62
19.	Cattle		\$ 12	223	\$	16.4	\$	1523
20.	Sheep			264	Ş	664	\$	3 3
21.	Swine		\$ 1.3	3'79		1936	\$	1261
22.	Poultry		:09:09:09:09:09:09:09:09:09:09:09:09:09:	227	\$	383	\$	1.37
234	Miscellaneous		\$	35	\$	33	Ş	24
24.	Expenses-Net Decreases-Total		\$ 20)7 7		2319	\$	2414
254				42	\$ \$ \$ \$ \$	264	Ş	248
26.			\$ 5	509	\$	424	Ş	69.6
27.	* *		Ş	3	Ş		\$	1.0
28.	Cash Expenses		\$ 13	323	Ş	1631	Ş	1460
	Receipts less Expenses		\$ 36			5996		2093
30.	Operators and Unpaid Family Labor		\$ 6	579	\$	72 7	Ş.	760
31.	Net Income from Investment		\$ 29	76	\$	5269	\$	1 3333
32.	Rate of Interest Earned			4.9%		18.1%		2.0%
33.	Labor and Management Wage		\$ 4	180	\$	2542	\$-	1343
34.	Investment per Acre		\$ 2	238	\$	241	٥	234
35.	Gross Receipts per Acre		\$\$ \$P\$ \$P\$ \$P\$	20.01	3	31 07	♦	1.6.46
36.	Total Expense per Acre		\$	10.82	\$	11.37		11.59
37.	Net Receipts per Acre		\$	11.69	\$	19.70	Ş	4.87
	Man Labor Cost per Total Acre		\$	4.66	Ş	5.1.4	\$	4,82
	Crop Acres per Man			80-3		77.7		82.8
	Crop Acres her Horse			22.5		24.0		25.7
41.	Per cent of Farm with Tractors			20.0%		20.0		40.0
	Per cent of Land in Coops			72.5%		79.0%		71.4%
43.	Corn - Acres			95.7		99.6		8.3.8
44.	Yieli			53.6		56.8		53.7
45.	Oats - Acres			54.1		69 .0		50.8
46.	Yá e? d			47,3		53.7		44.1
	Wheat - Anges			7.8		4.4		1.3.0
48.	A5 ar q			23,5		25.0		20.1
49 -	Legumes - Acres			५ ते		3.8		11.4
	% Receipts from Livestock			32%	,,	54.4%		64.7%
	Returns for \$100 In tested in LaS.		§ 10	10.97		1.60.17	Ş	96.54
52.	" " In Hotles		ري - ري پار	6.40	\$	-E.89	\$ \$ 3	-8.92
53.	" " " Saving		\$ 7	79.55	Ş	113.37	i d	7E .49
54.	" " " " Ober 9			52.19	Ş	31.6.40	\$	58.51
55.	tt tt tt County		\$ 18	32 287.	\$ 8	173.14	40-40-	165.71
56.	" " Poul try		\$ 16	51.73	ij	216.37	្ត	131-34



FACTORS WHICH MERIT SPECIAL ATTENTION

Interest Earned (Line 32) - The rate of interest earned is an excellent indiacation of the managing ability of the farm operator. This is particularly true in regions where the average investment per farm is large. Anyone whose rate of interest earned on the total farm investment is below the average for his locality can rell study the various factors which will indicate the source of a man's success or failure. In this way he may locate the source of his difficulty. The following paragraphs discuss the more important factors influencing farm earnings.

Crop Yields (Line 43 to 48) - Good crop yields are among the most definite of requirements for good incomes. One whose crop yields are low in comparison with others working land of equal natural value can well study the practices of men who secure higher yields. Men who secure the best yields pay special attention to rotation of crops, seed, drainage, use of clover, use of manure, use of limestone and phosphate where needed, preparation of seed beds, cultivation, and protection from diseases, and insects.

Returns from \$100 Invested in Livestock (Line 51 to 56) - Where any considerable part of the income of a farm is from livestock, this item merits special attention. Where the returns are below the average a careful study of the practices on more successful farms may assist the operator to locate places where he can improve his methods. The difficulty may be in a low percentage of calves, pigs, lambs, etc. raised. It may be in lack of attention to sanitary arrangements and protection from disease. In case of pure bred stock, it may be the inability to market the young stock at prices in accord with the value of the breeding stock kept. In case of pure bred stock, it may be the inability to market the young stock at prices in eccord with the value of the breeding stock kept. In case of stock feeding operations where feeders are purchased it may be in poor buying both as to time and price. It may be in not producing the quality of stock which the market demands. The growing of sufficient legume forage to supply most of the protein requirements, careful purchase and use of additional protein and mineral supplements, and the utilization of roughage are among other important factors which make possible the more economical production of livestock.

Per cent of Income from Livestock (Line 50) - In a region where the best paying farms receive a large proportion of their income from livestock, the less successful farms will do well to consider increasing their income from livestock. This may be done by improving the quality of livestock, by better feeding, sanitary and breeding methods or by increasing the amount of livestock kept. In order to improve the quality of livestock it has not usually proven profitable for a man to invest in a considerable number of high priced pure bred stock at one time. It is a more safe practice to grow the better stock by using good sires and occasionally picking up good females. Neither is It: qually wise.for a man who has never handled much stock to buy up a large breeding herd or go suddenly into extensive feeding operations. In any case it is better to work gradually into the livestock business, building up equipment, breeding herds and feeding operations slowly, as one learns to follow successful methods.

The Use of Man Labor and Horse Labor (Lines 39 and 40) - About sixty to eighty per cent of the cost of operating a farm, not including interest or rent charges, is for man labor and horse labor. If a tractor is used the labor is usually reduced, but the machinery expense is increased about in proportion. At present values of feed it costs approximately \$100 per year to keep one work horse. If a man finds that he is working fewer crop acres per man or per horse than the average farmer working under similar conditions, he can well study his situation carefully with the idea of cutting down this expense. The changing to a more carefully planned rotation of crops is probably the way in which most men can best



reduce the man and horse labor costs. Such a rotation should be chosen so as to avoid having a very large labor requirement at any one time, and so as to require a uniform amount of man and horse labor from early spring until late fall. The feeding down of crops and use of enough livestock to utilize labor at seasons when field work is light are two other very definite means of increasing the efficiency in the use of labor. While the working of a large number of crop acres per man and per horse is desirable, a study of hundreds of records from over the state indicates that some men have reduced the amount of both man and horse labor to a point where crop yields and returns from livestock are reduced because of lack of sufficient well directed labor.

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Conclusion

- 1. Every farm operator can well afford to study his own farm business in the light of these factors which have been discussed.
 - A. Crop yields, including the rotation of crops
 - B. Returns on the investment in livestock
 - C. The proportion of returns from livestock
 - D. Use of Man Labor
 - E. Use of Horse Labor
 - F. Size of Farm.
- 2. There can be no improvement in farm management without some change in practices used. Carefully planned and slowly developed changes are more likely to result in increased incomes than are impulsive and sudden changes of methods.
- 3. It is the well balanced farm that pays. One may have good crop yields and make good use of livestock, but receive a small net income because of inefficient use of labor. Or one may work a large acreage per man and per horse, but fail because of low crop yields or poor returns from livestock. A well balanced farm with a fair degree of efficiency along all lines brings the operator good returns which enable him to maintain a high standard of living for his family.



SUMMARY OF TEN FARM BUSINESS RECORDS MONROE COUNTY - 1922

Records secured and summarized by the Monroe County Farm Bureau, Waterloo, Illinois, and the Department of Farm Organization and Management, University of Illinois, Urbana, Illinois, co-operating.

Ten Monroe County Farmers earned an average interest rate of 3.7% on an average capital investment per farm of \$23,320 in 1922. Three of these farmers received an average of 6.9% interest on their investment while three others lacked an average of 0.9% of earning any interest.

The following table gives rather complete data for the ten farms, for the three farms which earned the highest interest rates and for the three farms which earned the lowest rates. A blank column has been left in order that those who kept the books may write in the records of their own farms in order to compare their work with others who kept similar records.

MONROE COUNTY SUMMARY 1922

	Your Average of Farm 10 Farms	Three Best Farms	Three Poor~ est Farms
1. Size of Farm 2. Value of Land per Acre 3. Capital Investment - Total	191 \$\bar{\pi} 83 \$23320	202 184 \$ 104 \$30471	168 \$ 63 \$ 1 5546
4. Land 5. Buildings 6. Machinery and Equipment 7. Feed and Supplies	\$15889 \$ 2364 \$ 2374 \$ 1047	\$20989 \$ 3154 \$ 3029 \$ 1759	\$10650 \$ 1826 \$ 1335 \$ 829
8. Livestock - Total 9. Horses 10. Cattle	\$ 1146 \$ 555 \$ 251	\$ 1560 \$ 592 \$ 444	\$ 906 \$ 481 \$ 178
11. Sheep 12. Swine 13. Poultry	\$ 8 \$ 200 \$ 132	\$ 323 \$ 201	\$ 25 \$ 112 \$ 110
14. Receipts-Net Increases-Total 15. Feed and Supplies 16. Miscellaneous	: 2999 \$ 1602 \$ 267	\$4760 2554 \$326	 \$ 16 09 \$ 788 \$ 94

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	2. Your Farm	Average of 10 Farms	Three Best Farms	Three Poorest Farms
17. Livestock - Total 18. Horses 19. Cattle			\$133 0 \$-150 \$-621	\$ 727 \$ -54 \$ 177
20. Sheep 21. Swine 22. Poultry 23. Miscellaneous		3 454 505 20	ទុំ 714 ទុំ 636 ទុំ ១	\$ 264 \$ 274 \$ 18
24. Expenses-Net Decreases Total - 25. Farm Improvements 26. Machinery and Equip- ment 27. Feed and Supplies 28. Cash Expenses		\$ 152 \$ 502	\$1754 \$ 274 \$793 687	\$1140 \$ 160 \$ 262 \$ 726
29. Receipts less Expenses 30. Operators and Unpaid Family Labor 31. Net Income from Investment 32. Rate of Interest Earned 33. Labor and Management Wage		\$ 705 \$ \$ 870 \$ \$ 3.7%	5006 893 2113 6.9% 1049	\$ 461 \$ 609 \$-148 -0.9% \$-468
34. Investment per Acre 35. Gross Receipts per Acre 36. Total Expense per Acre 37. Net Receipts per Acre		\$ 122 \$ \$ 15.73 \$ \$ 11.17 \$ \$ 4.56 \$	151 25.56 13.10 10.46	9.57 9.57 9.0.45 9.0.88
38. Man Labor Cost per Total Acre 39. Crop Acres per Man 40. Crop Acres per Horse 41. Per cent of Farms with Tractors		\$ 5.27 \$ 62.7 25.7 40.0%	5.33 76.1 26.2	\$ 5.38 57.4 23.5 0.0%
42. Percent of Land in Crops 43. Corn - Acres 44. Yield 45. Oats - Acres 46. Yield 47. Wheat - Acres 48. Yield 49. Legumes - Acres		42.8 3.2 18.2 59.0 13.8	48.0 45.4 2.0 25.0	19.0 44.6 7.0 17.1 54.0 12.4
50. Percent Receipts from Livestock 51. Return for \$100 Invested				45.1% \$157.00
in Livestock 52. Returns for \$100 in Horses 53. " " " Cattle 54. " " " Sheep 55. " " " Swine 56. " " " Poultry		\$-14.00 \$131.50 \$ 35.70 \$130.67 \$246.00	\$138.00 \$ \$137.00	\$109.00 \$ 36.00 \$166.00

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FACTORS WITCH MFRIT SPECIAL ATTENTION

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Conclusion

- 1. Every farm operator can well afford to study his own farm business in the light of these factors which have been discussed.
 - A. Crop yields, including the rotation of crops
 - B. Returns on the investment in livestock
 - C. The projection of returns from livestock
 - D. Use of Man Labor
 - E. Use of Horse Labor
 - F. Size of Farm.
- 2. There can be no improvement in farm management without some change in practices used. Carefully planned and slowly developed changes are more likely to result in increased incomes than are impulsive and sudden changes of methods.
- 3. It is the well balanced farm that pays. One may have good crop yields and make good use of livestock, but receive a small net income because of inefficient use of labor. Or one may work a large acreage per man and per horse, but fail because of low crop yields or poor returns from livestock. A well balanced farm with a fair degree of efficiency along all lines brings the operator good returns which enable him to maintain a high standard of living for his family.

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SUMLARY OF NIMETY-HINE FARM BUSINESS RECORDS WOODFOLD COUNTY - 1922

Records secured and summarized by the Woodford County Farm Bureau, Eureka, Illinois, and the Department of Farm Organization and Lanagement, University of Illinois, Urbana, Illinois, co-operating.

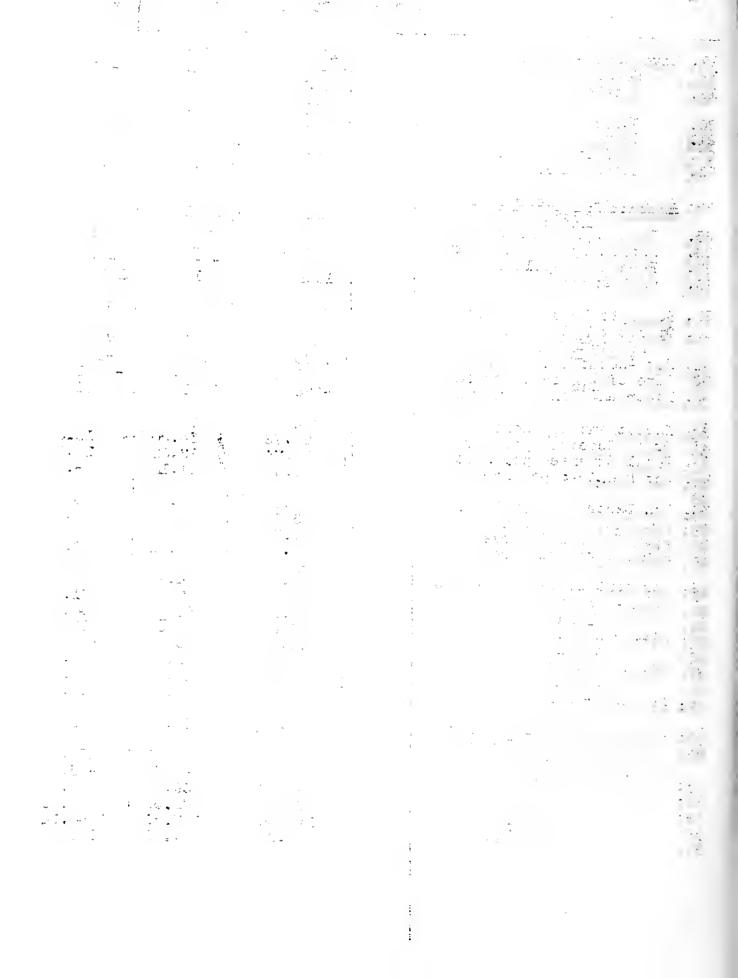
Ninety-nine Woodford County farmers earned an average interest rate of 3.1% on an average capital investment per farm of \$65,870 in 1922. Ten of these farmers received an average of 7% interest on their investment while ten others lacked an average of .1% of earning any interest.

The following table gives rather complete data for the ninety-nine farms, for the ten farms which earned the highest interest rates and for the ten farms which earned the lowest rates. A blank column has been left in order that those who kept the books may write in the records of their own farms in order to compare their work with others who kept similar records.

BUH FARY		
evernge of 99 Farms	Ten Best Farms	Ten Poorest Farms
233 236 \$65870	184 \$ 246 \$55149	219 3 288 75462
\$55097 \$ 4046 \$ 1785 \$ 2182	0 5101 (0 1715 (30.098 5000 1867 2066
\$ 2758 \$ 944 \$ 872		22 53 833 054
\$ 85 \$ 716 \$ 141	\$ 483 \$ 1007 \$ 126	18 656 92
4827 3 2567 162	\$ 6283 \$ 2226 \$ 293	, 2066 ; 2156 ; 40
	233 235 236 236 565870 355097 4046 1785 2182 32182 32758 944 872 344 872 4827 2567	233 184 236 3 246 \$65870 \$55149 \$35097 \$45248 \$4046 \$5101 \$1785 \$1715 \$2182 \$1897 \$2182 \$3189 \$344 \$680 \$372 \$389 \$485 \$716 \$1007 \$126



,	Your Farm	Average of 99 Færns	Ten Best Farms	Ten Poor- est Farms
17. Livestock - Total 18. Horses 19. Cattle		\$2098 \$ -18 5 531	\$3764 \$ - 32 \$ 7 28	\$ 770 \$ -46 \$ 88
20. Sheep 211. Swine 22. Poultry 23. Miscellaneous		\$ 245	410 52365 280 13	4 589 112 23
24. Expenses-Net Decreases- Total 25. Farm Improvements 26. Machinery and Equipment 27. Feed and Supplies 28. Cash Expenses		\$ 272 \$ 503 \$ 6	\$1761 \$ 205 \$ 346 \$ \$1210	\$2348 \$ 445 \$ 511 \$1394
29. Receipts less Empenses 30. Operator and Unpaid Family Labor 31. Net Income from Invest. 32. Rate of Interest Earned 33. Labor and Management wage	3	3.1%	\$4522 \$ 652 \$3890 7.8 \$1638	\$ 618 3 703 5 -85 1% 5-3324
34. Investment per Acre 35. Gross Receipts per Acre 36. Total Expenses per Acre 37. Net Receipts per Acre 38	· · · · · · · · · · · · · · · · · · ·	\$ 282 \$ 20.72 \$ 11.74 \$ 8.98	\$ 300 \$ 34.20 \$ 15.02 \$ 21.18	\$ 344 \$ 13.50 \$ 13.92 \$40
38. Man Labor per Total Acres 39. Crop Acres per Man 40. Crop Acres per Horse 41. Farms with Tractors	1 1 1	21.8 50.5%	\$ 4.98 86.4 24.7 50.0%	\$ 4.45 \$1.5 21.4 60.0%
42. Per cent of Land in Crops 43. Corn - Acres 44. Mield 45. Oats - Acres 46. Mield 47. Wheat - Acres 48. Mield 49. Legumes - Acres		68.6% 70.0 55.0 53.2 42.7 7.3 26.8 19.3	84.7% 78.0 59.1 51.0 45.2 11.0 28.8 9.0	80.4% 71.0 48.5 66.0 57.4 211 25.8 20.0
50. Receipts from Livestock 51. Return for \$100 Invested in Livestock 52. For \$100 in Horses 53. " " Gattle 54. " " Sheep 55. " " Swine		43.4,3 \$107.30 \$-1.93 \$ 60.27 \$ 75.00 \$147.40	59.9% Cll9.3C: G-4.53 G-59.5C S-71.50 Cll9.7.50	25.9% \$58.87 \$-3.00 \$14.68 \$2.05 \$2.94
55. " " Swine 56. " " Poultry		\$147.40 \$161.00	\$107.50 \$187.65	\$103.22



FACTORS WHICH MERIT SPECIAL ATTENTION

Interest Earned (Line 32) - The rate of interest earned is an excellent indication of the managing ability of the farm operator. This is particularly true in regions where the average investment per farm is large. Anyone whose rate of interest earned on the total farm investment is below the average for his locality can well study the various factors which will indicate the source of a man's success or failure. In this way he may locate the source of his difficulty. The following paragraphs discuss the more important factors influencing farm earnings.

Crop Yields (Line 43 to 48) - Good crop yields are among the most definite of requirements for good incomes. One whose crop yields are low in comparison with others working land of equal natural value can well study the practices of men who secure higher yields. Men who secure the best yields pay special attention to rotation of crops, seed, drainage, use of clover, use of manure, use of limestone and phosphate where needed, preparation of seed beds, cultivation, and protection from diseases, and insects.

Returns from \$100 Invested in Livestock (Line 51 to 56) - Where any considerable part of the income of a farm is from livestock, this item merits special attention. Where the returns are below the average a careful study of the practices on more successful farms may assist the operator to locate places where he can improve his methods. The difficulty may be in a low percentage of calves, pigs, lambs, etc. raised. It may be in lack of attention to sanitary arrangements and protection from disease. In case of pure bred stock, it may be the inability to market the young stock at prices in accord with the value of the breeding stock kept. In case of pure bred stock, it may be the inability to market the young stock at prices in accord with the value of the breeding stock kept. In case of stock feeding operations where feeders are purchased it may be in poor buying both as to time and price. It may be in not producing the quality of stock which the market demands. The growing of sufficient legume forage to supply most of the protein requirements, careful purchase and use of additional protein and mineral supplements, and the utilization of roughage are among other important factors which make possible the more economical production of livestock.

Per cent of Income from Livestock (Line 50) - In a region where the best paying farms receive a large proportion of their income from livestock, the less successful farms will do well to consider increasing their income from livestock. This may be done by improving the quality of livestock, by better feeding, sanitary and breeding methods or by increasing the amount of livestock kept. In order to improve the quality of livestock it has not usually proven profitable for a man to invest in a considerable number of high priced pure bred stock at one time. It is a more safe practice to grow the better stock by using good sires and occasionally picking up good females. Neither is it: qually wise for a man who has never handled much stock to buy up a large breeding herd or go suddenly into extensive feeding operations. In any case it is better to work gradually into the livestock business, building up equipment, breeding herds and feeding operations slowly, as one learns to follow successful methods.

The Use of Man Labor and Horse Labor (Lines 39 and 40) - About sixty to eighty per cent of the cost of operating a farm, not including interest or rent charges, is for man labor and horse labor. If a tractor is used the labor is usually reduced, but the machinery expense is increased about in proportion. At present values of feed it costs approximately \$100 per year to keep one work horse. If a man finds that he is working fewer crop acres per man or per horse than the average farmer working under similar conditions, he can well study his situation carefully with the idea of cutting down this expense. The changing to a more carefully planned rotation of crops is probably the way in which most men can best

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reduce the man and horse labor costs. Such a rotation should be chosen so as to avoid having a very large labor requirement at any one time, and so as to require a uniform amount of man and horse labor from early spring until late fall. The feeding down of crops and use of enough livestock to utilize labor at seasons when field work is light are two other very definite means of increasing the efficiency in the use of labor. While the working of a large number of crop acres per man and per horse is desirable, a study of hundreds of records from over the state indicates that some men have reduced the amount of both man and horse labor to a point where crop yields and returns from livestock are reduced because of lack of sufficient well directed labor.

Size of Farm (Line 1) - When one finds that his farm is smaller than the most profitable farms in his locality and his income is low he may remedy the situation, by buying or renting additional land, or by gradually adopting a more intensive or more specialized type of farming. On the other hand, if he finds that his farm is larger than the best farms and his income is low, he may profit by renting out land, or by planning so as to do more efficient work on his present acreage.

Conclusion

- 1. Every farm operator can well afford to study his own farm business in the light of these factors which have been discussed.
 - A. Crop yields, including the rotation of crops
 - B. Returns on the investment in livestock
 - C. The proportion of returns from livestock
 - D. Use of Man Labor
 - E. Use of Horse Labor
 - F. Size of Farm.
- 2. There can be no improvement in farm management without some change in practices used. Carefully planned and slowly developed changes are more likely to result in increased incomes than are impulsive and sudden changes of methods.
- 3. It is the well balanced farm that pays. One may have good crop yields and make good use of livestock, but receive a small not income because of inefficient use of labor. Or one may work a large acreage per man and per horse, but fail because of low crop yields or poor returns from livestock. A well balanced farm with a fair degree of efficiency along all lines brings the operator good returns which enable him to maintain a high standard of living for his family.

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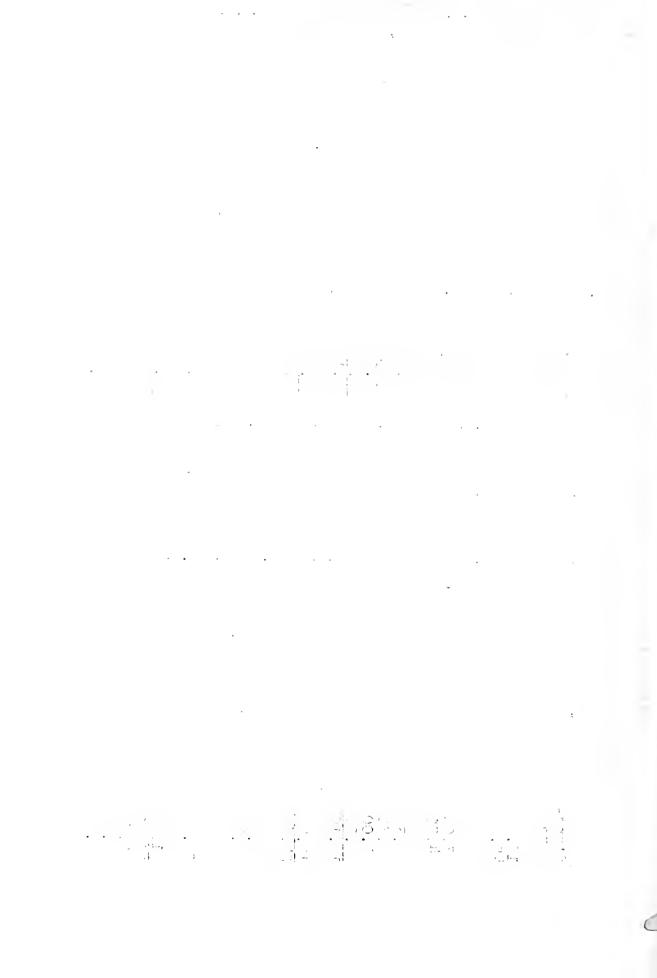
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Corn (acre basis) C hampaign and Piatt Counties 1922
Items of Expense and Income on Individual Farms Compared with Average and a Good Standard
Corn was husked from the standing stalk unless otherwise noted.

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Yield Wet cost per bushel	47.74	39.0	58.9	31.3	50,2	56.1	41.4 55.	49.8	52.3	54.3	46.
Income Grain Roughsge Pasture Total Income Not Profit per Acre Mot Profit per Acre	\$27.20 1.31 \$26.51 1.31 0.09	21.86 .27 .22.13 .6.83 .36	31.79	16.37 18.55 16.55 14.1	33.07 1.72 34.90 10.27 10.27 24.90	32.13 33.08 33.08 .03	23.66	26.96 20.00	29.81 2.40 52.21 05	30.95	26.92 .01 .85 .7.72

*Includes 10% Hogged Corn **Includes 27% Hogged Corn



Oats (acre basis) Champaign and Piatt Counties - 1922

E xpense and Income on Individual Farms Compared with the Average and a Good Standard tems of

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*Port of field used for two crops

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WHENT (nore besis) Obempaign and Pictt Counties 1922

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