UNIVERSITY OF MINNESOTA
Department of Agriculture
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UNITED STATES DEPARTMENT OF AGRICULTURE
Bureau of Agricultural Economics
Cooperating

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THIRD ANNUAL REPORT of the Better Farming Club of Freeborn County

By

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Prepared by W. P. Ranney and G. A. Pond

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INTRODUCTION

The Division of Agricultural Economics and the Division of Agricultural Extension of the University of Minnesota, the Bureau of Agricultural Economics of the United States Department of Agriculture and a group of farmers in Freeborn County, Minnesota, have been cooperating during the years 1928, 1929, and 1930 in a farm account project, known as the Better Farming Club of Freeborn County. The work was started January 1, 1928, along with similar clubs in nearby counties, viz., Dodge, Goodhue, Rice, Steele and Waseca Counties. This report is a summary of the results for 1930, with a brief comparison with the results for 1928 and 1929 shown on page 19.

The project has been under the direction of G. A. Pond and W. P. Ranney of the Division of Agricultural Economics, University of Minnesota, with the assistance of S. B. Cleland of the Division of Agricultural Extension, who aided in closing the books at the end of the year 1930. Hearty support and assistance has been rendered by W. M. Lawson, County Agricultural Agent of Freeborn County.

Type of Farming in Freeborn County

The farms selected for the study are livestock farms on which dairy cattle are the principal source of income. Cream for manufacture into butter is the principal dairy product sold. This is marketed through farmer owned cooperative creameries specializing in the manufacture of high quality butter. The skimmilk is retained on the farm and fed to hogs and poultry. These two classes of livestock are also an important source of income.

The principal crops grown are corn, oats, barley and hay. These crops are raised primarily as livestock feed altho a seasonal surplus may be sold. Wheat, potatoes, and flax are grown to a limited extent as a cash crop. These farms are fairly typical of the system of dairy farming prevailing in southeastern Minnesota. This report shows that the receipts from the sales of dairy products

constitute approximately one-third, and receipts from hog sales approximately one-third of the average cash income for 29 cooperators in Freeborn County. These are approximately the same results as shown by the 1928 and 1929 reports.

Records Kept

The records kept by the cooperators included inventories at the beginning and end of the year, cash receipts and expenses, a report of feed fed to the various classes of livestock, and a record of farm produce used by the farm family. Supplementary information was also secured during the year regarding crop and livestock production and practices.

The cooperators were assisted and supervised in keeping their records by the field agent, Mr. R. C. Bevan, who visited each farm in the six counties several times during the year. In addition to securing the supplementary information, the field agent's duties included numerous services, viz., securing a monthly list of prices of farm products prevailing in the area, helping the farmer to place uniform values on real estate and equipment, checking the cash and feed records, and answering any questions that might arise as to how the entries should be made in the account book. The supervision resulted in uniformity in the type of records secured, in the inventory valuations and in the prices at which feed and farm produce were charged.

At the end of the year each farm was visited by a representative of the University who checked the records for completeness and accuracy. The books were then taken to the central office at University Farm, where every entry was again checked and omissions were noted. Any discrepancies found were referred back to the farmers for correction. This double checking insured a high degree of accuracy and completeness in each individual record.

Purpose of Project

The Better Farming Club renders assistance to the cooperators in keeping such records as will enable each operator to know the returns for his labor and management, the returns to capital and family labor, and the actual earnings from the farm that the family had to spend for living and personal use. The main purpose of the Club is to secure such data and information, which when compared with that secured on other farms will enable the cooperator to increase his efficiency in various enterprises and to organize his farm on a more profitable basis. For the latter purpose it was necessary for all the cooperators, tenants as well as owner operators, to include the whole farm business in order that the results would be on a comparative basis. The earnings as shown in this report are computed on an owner basis for the purposes of comparison, but each tenant was supplied a statement of his earnings on the basis of the rental system under which he was operating. Altho there is some variation in prices paid for feeds bought, uniform prices were used in making up the feed summaries and in placing values on the inventories of feed and farm products.

Capital Investment in Farm Business

The average size of the farms in this report was 193.8 acres. The average farm inventory was $28,419. This does not include the value of the house in which the operator lived. In 1930, fifty-eight per cent of the average farm inventory consisted of land; fourteen per cent of permanent improvements; seven per cent of feeds and supplies; eight per cent of machinery and equipment; and

thirteen per cent of livestock, of which almost two-fifths or an average of $1,465 consists of the average cow inventory.

Analysis of the Farm Business

On pages 5 and 6 are presented financial summaries of the year's business, showing the average results for the 29 farms on which the work was completed for the twelve months' period, January 1, 1930, to December 31, 1930, and the high and low figure for each item. In the "your farm column" the results of each individual farm business is inserted in the copy sent to the farmer in order that he may compare his figures with the average.

The data on page 5 and the remaining pages, which set up the ranking in the various measures of efficiency, should suggest to each cooperator some possibilities for improvement in his organization of the various enterprises and of his business as a whole. Altho each farm is an individual problem, and has its particular advantages and limitations, the type of farming is fairly uniform in the county and undoubtedly is adapted to the present general conditions. This study should bring out trends that may be taking place toward more profitable combinations of enterprises, and to the more efficient methods of management within the enterprises.

Returns to Operators for Their Labor and Management

The average cash receipts per farm were $4931. In addition farm produce to the value of $324 was consumed by the farm family. The total average receipts per farm is the sum of those two items $5255. The average total expense per farm $3233, includes $2775 cash expense, an estimated allowance of $128 for board of hired labor, and an average inventory decrease of $330 per farm. The difference between the total income and total expense figure is $2022. This is the return which the farmer received for his own labor and management, the services of members of his family, and the use of his capital. After deducting a charge of five per cent on the average inventory valuation, $1421, for the services of capital, there remains $601 for the services of the farmer and his family. The average value of family labor used, if computed at hired man's wages, was $473. The average operator's labor earning is the family earnings less their allowance of $473, or $128. This is the return to the farmer for his labor and management over and above a five per cent return for his capital and going wages for other members of the family. This return is considerably below that for 1928 and 1929, due to lower prices for products sold and a decrease in the value of a number of inventory items. The results of the three years are compared on page 19.

Summary of Farm Inventories--1930

Items	Your Farm	Average	Range Highest	Range Lowest
Size of Farm (acres)		193.8	396.	76.
Size of Business (days of prod. work) (1)		685.	1333.	339.
Average farm inventory (without house)		$28419.	$54907	$13616
Land		16384	35150	5260
Farm Improvements		4046	8033	1202
Machinery & equipment (total)		2145	4793	693
Gen. Machinery & equipment		1459	3553	599
Tractor		331	1050	-
Truck		99	568	-
Auto (farm share)		162	534	26
Gas engine (farm share)		28	135	-
Electrical Equip. (farm share)		66	675	-
Feeds & Seeds		2022	5047	755
Misc. Supplies		24	299	-
Horses (total)		561	1340	165
Horses		511	830	90
Colts		50	555	-
Productive Livestock (total)		3237	8815	1078
Cows		1465	3728	155
Other Cattle		789	3070	35
Hogs		704	1698	106
Sheep		85	940	-
Poultry		194	478	-

(1). Explanation of Term: "Days of Productive Work".

The total "Days of Productive Work" for any one farm are a measure of size of that farm business using the average number of "ten-hour days" of man labor required per head of productive livestock and per acre of crops as a common figure for combining the size of the crop and the size of the livestock enterprises.

The number of days of productive work for each animal and acre of crops, computed from data presented in Minnesota Tech. Bul. 44, "A Study of Dairy Farm Organization in Southeastern Minnesota," are listed as follows:

Item	Per	No. of Days of Prod. Work	Item	Per	No. of Days of Prod. Work
Cows	Cow	16.6	Corn for grain (Husked)	Acre	2.1
Other Cattle	Animal Unit*	7.6	Corn for grain (Husk. & Shred.)	"	2.8
Sheep	Animal Unit*	2.7	Corn for silage	"	2.6
Poultry	100 hens	20.1	Corn hogged	"	1.25
Hogs	100 lbs. pork prod.	.55	Corn for fodder	"	1.8
Alfalfa	Acre	1.5	Sweet Corn	"	3.0
Tame & W. Hay	"	.6	Potatoes	"	6.4
Sm.Grain & Flax	"	1.0	Sugar beets	"	4.0
" " Hogged	"	.4			
Canning peas	"	2.5			

*Animal Unit represents one cow, one bull, two head of young cattle, seven head of sheep, fourteen lambs, five hogs, ten pigs, or 100 hens.

Summary of Farm Earnings - 1930

CASH EXPENSES Items	Your Farm	Average	Range Highest	 Lowest
Tractor (new and exp.)		$ 274	$1643	$ -
Truck (new and exp.)		59	710	-
Auto (new and exp.) (farm share)		98	303	9
Gas engine (new and exp.) (farm share)		18	68	-
Electricity (new and exp.) (farm share)		13	90	-
Machinery and equipment (new)		223	885	-
Machinery and equipment (exp.)		71	386	2
Bldgs., fences, tiling (new)		289	2738	-
Bldgs., fences, tiling (exp.)		19	112	-
Hired labor		280	886	-
Feed for livestock		435	3100	9
Other expense for livestock		68	284	2
Horses bought		24	263	-
Cows bought		75	1182	-
Other cattle bought		90	600	-
Hogs bought		95	608	-
Sheep bought		4	57	-
Poultry bought		64	166	-
Crop (seed, twine, spray)		189	414	17
Taxes and insurance		360	990	155
General farm		27	91	-
(1) Total cash expense		2775	7469	814
(2) Decrease in farm inventory		350	2677	-
(3) Board for hired labor		128	360	-
(4) Total expenses (sum of 1, 2 & 3)		3233	7669	1169
CASH RECEIPTS				
Horses		31	360	-
Cows		353	2322	-
Dairy Products		1440	3237	18
Other Cattle		411	2902	-
Sheep		42	305	-
Hogs		1634	5137	292
Poultry		139	469	-
Eggs		286	1448	-
Small grain		112	684	-
Corn		85	608	-
Hay		14	165	-
Root Crops		68	824	-
Other Crops		28	285	-
Miscellaneous		208	1519	-
Income from work off farm		80	812	-
(5) Total cash receipts		4951	10522	2350
(6) Increase in farm inventory		-	1364	-
(7) Farm produce used in house		324	517	89
(8) Total receipts (sum 5, 6, & 7)		5255	11570	2571
Total expenses (4)		3233	7669	1169
(9) Returns to cap. & fam. labor (8 minus 4)		2022	3900	524
(10) Interest on farm inventory		1421	2745	681
(11) Family labor earnings (9 minus 10)		601	1799	-1032
(12) Unpaid family labor		473	1680	-
(13) Operators labor earnings (11 minus 12)		128	1619	-1302

Summary of Farm Earnings, 1930 (A)

EXPENSES AND NET DECREASES Items	Your Farm	Average	Range Highest	 Lowest
Total power machinery and equipment		$311	$859	$ 66
Tractor		105	445	-
Truck		55	316	-
Auto (farm share)		117	353	27
Gas engine (farm share)		18	45	-
Electric plant or current (farm share)		16	94	-
Gen. machinery and equipment		190	587	-3
Bldgs., fencing, tiling		145	610	-282
Hired labor		280	886	-
Prod. livestock misc. expense		67	279	1
Misc. horse expense		1	9	-
Crop		190	414	17
Taxes and insurance		360	990	155
General farm		27	91	-
Decrease in crops & feeds		350	2885	-
Decrease in horses		5	160	-
Board for hired labor		128	360	-
Interest on farm inventory		1421	2745	681
Unpaid family labor		473	1680	-
(1) Total expenses		3948	9250	1874
RETURNS AND NET INCREASES Items				
Increase in crops and feeds		-	1390	-
Gross returns from all prod. livestock		4284	9874	758
Cows (including milk to other livestock)		1776	3707	876
Other Cattle		518	2030	22
Hogs		1546	4413	313
Sheep		26	384	-35
Poultry		418	1643	-
Outside and misc. receipts		111	893	-
Increase in horses		-	179	-
(2) Total returns and net increases		4395	10293	2095
(3) Milk produced and fed on farm		319	646	-
(4) Gross returns (2 minus 3)		4076	9773	1890
Total expenses (1)		3948	9250	1874
(5) Operators labor earnings (4 minus 1)		128	1619	-1302
Gross returns per $100 expense		106	147	80

(A) Cash receipts and expenses are adjusted for changes in inventory for each enterprise and for each item of expense in order to show gross returns and net increases, and total expenses and net decreases. The operator's labor earnings are the same as those on page 5.

Effect of Well Balanced Efficiency on Farm Profits

It is quite evident from this report that few farmers have a monopoly on efficiency. Quite often farm operators show efficient management in one part of the farm business, which is offset by poor results in other phases of the business. These farmer get medium returns while those who fall down all along the line get the lowest returns, and those few who can manage a large volume of business with high all around efficiency are well paid for their labor and management.

The data in this report indicates that the same factors show a relationship to operator's labor earnings as in 1928 and 1929. Size of business in 1930 was a disadvantage to a few who showed a loss, for the larger the business the greater the loss. However, those who excelled in most of the other factors had a return for their labor and management, which tended to be increased by size of business. Hence, a balanced standing in the following eight factors is quite essential in order to secure the highest possible returns:

1. Returns over feed cost per head of livestock.
2. Pounds of butterfat per cow.
3. Index of crop yields.
4. Index of selection of high return crops. (Crops are ranked on basis of average net return for a ten-year period in the following order on pages 10 and 11: A, B, C, D.)
5. Productive livestock units per 100 acres.
6. Size of business - days of productive work.
7. Days of productive work per worker.
8. Equipment and farm power expense (buildings, fencing, all machinery, horse feed, and miscellaneous horse expense) per days of productive work.

In Chart 1 is shown the effect of the number of the above factors in which the farmer excels on his labor earnings. The two farmers who excelled in seven factors had average earnings of $1504 above the average of eleven farmers who did not excel in more than three factors.

Chart 1. Relation of Operator's Labor Earnings to the Number of Factors in which Farmer is above the average in efficiency.

Number of factors in which farm excels	No. of farms	Your Farm	The length of the shaded lines are in proportion to the average operator's labor earnings 0	Average Operator's labor earnings
Seven	2		xxxxxxxxxxxxxxxxxxxxxxxxx	$1282
Six	3		xxxxxxxxxxxxxx	740
Five	5		xxxxxxxx	359
Four	8	x		-52
Three or less	11	xxxx		-222

The array in Chart 1 suggests that it will be worth while for each cooperator to study carefully his ranking on page 8, and learn through his standing in respect to each of the above factors the elements of strength and weakness in his farm business.

Measures of Farm Organization and Management Efficiency

Farm No.	Oper. Labor Earn.	Returns above Feed Cost per Head of Live-stock	Lb. B. F. per Cow	Index of Crop Yields	Index of Selection of High Return Crops	Prod. Live-stock Units per 100 Acres	Size of Business (No. of Days of Prod. Work)	Days of Prod. Work per Worker	Farm Power Mach. & Eq., Bldg.& Fend. Exp.per day of Prod. Work
2451	$1619	$65	302	124	30.0	21.9	702	308	$1.22
2103	1445	50	240	105	41.3	24.7	919	368	.92
2133	1424	82	311	84	28.4	15.8	691	351	.60
2196	1118	53	218	129	39.6	26.5	775	376	.91
2191	867	73	336	112	38.5	15.8	365	242	1.55
2132	839	45	243	116	47.6	38.1	493	391	1.02
2121	524	42	227	91	30.0	31.0	1333	457	1.20
2101	389	48	191	108	34.2	20.7	913	439	1.53
2198	332	36	234	95	23.7	13.3	403	357	1.25
2194	236	16	250	92	34.6	15.6	630	346	1.12
2022	152	29	294	113	38.6	16.6	536	253	1.05
2051	129	48	205	80	24.4	20.2	591	294	1.22
2023	104	-4	179	76	31.0	7.0	339	215	1.59
2123	61	39	252	93	41.6	21.3	425	213	.80
2052	16	40	191	64	24.2	12.6	439	406	1.44
2032	13	38	222	84	33.2	15.6	504	252	1.30
2011	-29	49	217	103	25.9	19.9	571	273	1.39
2081	-67	23	227	98	36.3	23.5	632	316	1.32
2102	-111	57	341	96	37.4	16.6	801	298	1.93
2199	-128	49	293	103	33.7	15.9	741	351	1.73
2197	-217	31	245	109	25.6	23.0	1020	402	1.39
2201	-238	48	283	113	35.9	13.5	910	273	1.27
2182	-413	60	321	101	33.6	39.8	495	210	.92
2161	-423	46	230	119	33.3	26.5	733	230	1.45
2031	-448	0	229	92	37.1	15.7	481	349	1.29
2062	-469	46	294	79	36.7	13.6	433	287	1.83
2452	-729	48	166	78	34.2	16.0	983	296	1.47
2082	-978	38	198	110	36.6	25.1	914	270	1.41
2221	-1302	24	205	98	31.9	14.6	1078	377	2.05
Aver-age	128	42	246	99	33.8	20.0	685	317	1.32
High	$1619	$82	341	129	47.6	39.8	1333	457	.60
Low	-1302	-4	166	64	23.7	7.0	339	210	2.05

Find Your Weak Links

Using your figures from page 8, locate your standing with respect to the various measures of farm organization and management efficiency. The average for the 29 farms included in this summary are located between the two lines across the center of the page:

Oper. Labor Earn.	Returns above Feed Cost per Head of Livestock	Lbs. B. F. per Cow	Index of Crop Yields	Index of Selection of High Return Crops	Prod. Live-stock Units per 100 A.	Size of Business (No. of Days of Prod. Work)	Days of Prod. Work per Worker	Farm Power, Mach.& Eq., Bldg.&Fenc. Ex. per Day of Prod. Work
$1619	$ 82	341	129	47.6	39.8	1333	457	$ .60
1378	72	316	124	41.3	30.0	985	417	.82
1128	66	302	119	39.8	28.0	925	397	.92
878	60	288	114	38.3	26.0	865	377	1.02
628	54	274	109	36.8	24.0	805	357	1.12
378	48	260	104	35.3	22.0	745	337	1.22
128	42	246	99	33.8	20.0	685	317	1.32
-122	36	232	94	32.3	18.0	625	297	1.42
-372	30	218	89	30.8	16.0	565	277	1.52
-622	24	204	84	29.3	14.0	505	257	1.62
-872	18	190	79	27.8	12.0	445	237	1.72
-1122	12	176	74	26.3	10.0	385	217	1.82
-1302	-4	166	64	23.7	7.0	339	210	2.05

Utilization of Land - 1930

Crop (A)(B)(C)(D) refer to ranking used in calculating Index of Selection of High Return Crops, as explained on Page 7.		4 farms above 270 acres				9 farms from 170 to 270 acres			
		No. of farms growing this crop	Acres per farm			No. of farms growing this crop	Acres per farm		
			Your farm	Aver-age	Aver. for those growing crop		Your farm	Aver-age	Aver. for those growing crop
Winter wheat	(B)	2		6.5	13.0	4		5.8	13.0
Oats	(D)	3		12.3	16.3	7		24.5	31.4
Barley	(C)	3		16.2	21.7	4		6.4	14.5
Rye	(D)	2		8.5	17.0	2		2.6	11.8
Flax	(B)	2		8.5	17.0	1		2.9	26.0
Wheat & oats	(C)	1		14.0	56.0	2		4.3	19.5
Oats & barley	(C)	4		35.8	35.8	6		23.2	34.7
Total grain				101.8				69.7	
Corn, grain	(B)	4		68.3	68.3	9		53.7	53.7
Corn, silage	(C)	4		15.0	15.0	8		13.3	14.9
Corn, fodder	(D)	0		0	0	2		.7	3.3
Sugar beets	(A)	0		0	0	1		.2	1.5
Potatoes	(A)	1		2.0	8.0	7		.6	.9
Summer fallow		1		5.0	20.0	0		0	0
Total cultivated crops				90.3				68.5	
Alfalfa	(A)	4		12.3	12.3	8		11.4	12.9
Red Clover	(B)	2		5.7	11.5	2		2.0	9.0
Other leg. & mixtures	(C)	1		5.0	20.0	3		3.0	9.0
Timothy	(D)	0		0	0	3		3.5	9.8
Annual hay crop	(D)	0		0	0	1		.1	1.0
Wild hay (till. land)	(D)	0		0	0	2		.6	2.5
W. hay (non-till. land)		3		27.0	36.0	5		3.0	5.4
Total hay				50.0				23.4	
Total crop acreage				242.1				161.6	
Sweet clover pasture	(B)	1		3.3	13.0	3		3.2	9.7
Alfalfa pasture	(A)	0		0	0	6		1.8	2.7
Red clov.or rape past.(hogs)	(B)	0		0	0	2		.8	3.5
Other tillable pasture	(D)	4		27.6	27.6	8		16.2	18.2
Non-till. pasture		4		35.6	35.6	6		21.2	31.8
Total pasture				66.5				43.2	
Timber (not pastured)		1		5.0	20.0	1		.1	1.0
Roads and waste				12.0				7.3	
Farmstead				14.0				5.9	
Total acres in farm				339.6				218.1	
% land tillable				73.0				83.0	
Index of tillable land in high return crops				33.0				33.6	

Utilization of Land and Yield of Crops - 1930

Crop (A)(B)(C)(D) refer to ranking used in calculating Index of Selection of High Return Crops, as explained on Page 7.		16 farms from 70 to 170 A. No. of farms growing this crop	Acres per farm Your farm	Acres per farm Aver. for those growing crop	Yield per acre Your farm	Yield per acre Average	Yield per acre Highest	Yield per acre Lowest
Winter wheat	(B)	1	.4	6.0		24.0	30.0	16.5
Spring wheat	(C)	1	.6	10.0		30.4	30.4	30.4
Oats	(D)	9	13.3	23.6		49.8	68.6	20.0
Barley	(C)	7	4.7	10.7		31.3	47.6	20.0
Rye	(D)	3	2.3	12.3		22.4	35.0	10.7
Flax	(B)	5	2.6	8.4		8.0	20.0	3.0
Wheat & oats	(C)	0	0	0		36.0	50.0	26.7
Oats & barley	(C)	10	16.3	26.1		41.9	68.9	25.0
Total grain			40.2					
Corn, grain	(B)	16	27.8	27.8		48.3	70.0	28.2
Corn, silage	(C)	13	9.0	11.2		8.2	13.0	4.5
Corn, fodder	(D)	7	.8	1.7		3.4	5.0	1.7
Sugar beets	(A)	1	.1	1.5		9.6	10.5	8.7
Potatoes	(A)	7	.6	1.3		67.4	150.0	6.0
Summer fallow		1	.4	6.0		0	0	0
Total cultivated crops			38.7					
Alfalfa	(A)	14	6.3	7.2		2.6	5.5	1.0
Red clover	(B)	3	2.0	10.7		1.9	3.5	1.0
Other leg. & mixtures	(C)	6	5.1	13.5		1.5	2.3	.8
Timothy	(D)	4	1.6	6.5		1.3	2.0	.8
Annual hay crops	(D)	1	.4	6.0		1.1	1.2	1.0
Wild hay (till. land)	(D)	1	.9	14.0		1.0	2.0	.5
Wild hay (non-till.land)		8	4.5	9.0		1.0		
Total hay			20.8					
Total crop acreage			99.7					
Sweet clover pasture	(B)	7	4.8	11.0				
Alfalfa pasture	(A)	2	.4	3.0				
Red clov. or rape pasture (hogs)	(B)	4	1.0	4.1				
Misc. legume pasture	(C)	2	.9	7.5				
Other till. pasture	(D)	6	1.9	5.0				
Non-tillable pasture		13	20.5	25.0				
Total pasture			29.3					
Timber (not pastured)		6	3.2	8.5				
Roads and waste			6.4					
Farmstead			5.1					
Total acres in farm			143.7					
% land tillable			73.0					
Index of tillable land in high return crops			34.0					

Some methods farmers use to increase their crop yields

1. Tile if necessary.
2. Plow under legumes--grow sweet clov. in small grains.
3. Try commercial fertilizers.
4. Utilize manure effectively.
5. Use rotated legume pastures.
6. Raise & feed hogs on these pastures & hog down corn.
7. Keep plenty of livestock.
8. Grow recommended varieties of crops.
9. Use best tested seed available.
10. Thorough & timely seedbed preparation--keep weeds under control.

Summary of Amount of Livestock

	Your Farm	Average	Range Highest	Range Lowest
4 Large Farms; Above 270 Acres				
Number of horses (with tractor) (4 farms)		7.4	9.6	6.0
Number of colts		2.6	6.8	0
Number of cows		21.28	25.38	14.63
Number of cows per worker		7.0	8.8	4.4
Head of other cattle		34.1	59.7	23.4
Litters of pigs raised		26.2	33.0	21.0
Pounds of pork produced		40176.7	56551.0	30441.0
Head of sheep (2 lambs equal 1 head)		21.72	70.42	0
Number of hens		167.0	248.0	90.0
Total number of prod. livestock units		62.92	99.09	43.58
Number of workers		3.11	3.33	2.86
Number of hired workers		1.07	1.48	.83
9 Medium-sized Farms; 170 to 270 Acres				
Number of horses (with tractors) (6 farms)		6.3	7.5	4.8
Number of horses (without tractors) (3 farms)		6.8	7.0	5.8
Number of colts		1.0	3.8	0
Number of cows		18.15	26.67	2.0
Number of cows per worker		7.7	10.6	1.3
Head of other cattle		17.3	35.4	1.1
Litters of pigs raised		15.3	22.0	11.0
Pounds of pork produced		22970.1	37332.0	5969.0
Head of sheep (2 lambs equal 1 head)		8.0	37.03	0
Number of hens		143.0	510.0	0
Total number of prod. livestock units		40.00	55.31	13.53
Number of workers		2.29	3.38	1.58
Number of hired workers		.52	1.50	0
16 Small Farms; 70 to 170 Acres				
Number of horses (with tractors) (7 farms)		4.3	6.0	2.0
Number of horses (without tractors) (9 farms)		5.3	6.5	4.0
Number of colts		.6	2.6	0
Number of cows		13.91	21.83	8.58
Number of cows per worker		7.7	11.4	4.8
Head of other cattle		13.4	32.0	5.7
Litters of pigs raised		10.3	18.0	3.0
Pounds of pork produced		12671.7	30400.0	3792.0
Head of sheep (2 lambs equal 1 head)		4.25	40.39	0
Number of hens		177.0	324.0	48.0
Total number of prod. livestock units		29.08	42.44	18.54
Number of workers		1.87	3.19	1.08
Number of hired workers		.37	1.07	0

Factors of Cost in Dairy Production - 1930 (per cow basis)

Farm No.	B. F. per Cow	Feed Per Cow - Lbs.											Total Digest Nutrients	Total Digest Nutrients per lb. B.F.	% Protein in Ration	% Cows Fresh Sept. to Dec. inclusive
		Corn	Small Grain	Com. Feeds Under 25% Protein	Com. Feeds Over 25% Protein	Tame Hay	Alfalfa	Wild Hay	Corn Fodder	Silage	Total Concen.	Total Dry Rough-age				
2102	341	286	2028	-	137	823	2059	82	1194	6258	2451	4158	4957	14.5	13.2	61
2191	336	1100	2179	-	-	-	2480	-	397	5556	3279	2877	2923	14.7	12.7	83
2182	321	81	1105	1104	282	1140	1320	-	-	10198	2752	2460	4848	15.1	13.4	90
2133	311	189	2168	22	228	2201	954	-	-	1614	2607	3155	3754	12.1	15.6	76
2451	302	277	2100	-	191	3506	76	-	-	8689	2568	3582	5124	17.0	12.6	100
2062	294	653	2077	-	282	2721	972	-	-	11273	3012	3693	6080	20.7	11.9	89
2022	294	851	3048	40	119	-	5232	-	2310	-	4058	7542	6672	22.7	15.5	46
2199	293	-	2692	-	-	-	4111	-	836	8422	2692	4947	5943	20.3	13.8	87
2201	283	957	1244	70	280	2597	2187	-	137	12030	2551	4921	6468	22.9	13.3	81
2123	252	-	1847	84	9	1070	1695	-	-	8207	1940	2765	4228	16.8	12.2	-
2194	250	1195	2262	-	9	1594	2334	-	2050	10333	3466	5978	7186	28.7	11.3	75
2197	245	1648	2290	514	203	525	1312	-	-	11699	4655	1837	6424	26.2	12.0	92
2132	243	-	1331	-	42	485	2081	139	693	5895	1373	3398	3681	15.1	12.8	39
2103	240	106	2047	45	53	1251	493	76	-	9477	2251	1820	4238	17.7	11.7	67
2198	234	725	1501	-	-	3368	2739	1003	-	2098	2226	7110	5611	24.0	13.5	100
2161	230	-	2224	398	67	2278	959	-	514	9969	2589	3751	4923	31.4	12.6	48
2031	229	478	3437	-	-	-	5380	85	-	8540	3915	5465	7267	31.7	14.1	50
2081	227	310	1184	389	35	815	1398	466	233	6756	1918	2912	4034	17.8	12.6	45
2121	227	-	2730	217	240	670	2207	709	-	8668	3187	3586	5631	24.8	13.4	44
2032	221	-	1810	-	32	477	1192	1272	-	12242	1842	2941	4902	22.2	10.5	18
2196	218	80	1713	-	64	367	3298	-	-	6780	1857	3665	4417	20.3	14.5	67
2011	217	-	1094	-	5	507	394	169	-	5296	1099	1070	2257	10.4	10.6	24
2051	205	124	1078	-	-	1330	1164	333	887	5543	1202	3714	3714	18.1	11.0	79
2221	205	-	1554	-	4	714	1190	1745	-	8171	1558	3649	4319	21.1	10.7	38
2082	198	-	1929	-	-	-	2011	-	457	7587	1929	2468	3615	18.3	13.6	35
2101	191	115	1609	-	-	320	1741	-	229	7284	1724	2290	3642	19.1	12.4	39
2052	191	614	856	-	-	1044	-	2662	1252	-	1470	4958	3477	18.2	8.4	40
2023	180	1820	449	-	-	2000	-	-	2750	-	2269	4750	3857	21.4	11.2	-
2452	166	498	1038	-	142	1305	904	-	-	7580	1678	2209	3668	22.1	12.7	38
Average	246	417	1815	96	84	1142	1789	301	481	7109	2412	3713	4823	19.8	12.5	57

Feed Costs and Returns for Dairy Cows - 1930 (per cow basis)

Farm No.	B.F. per Cow	Feed per Cow				Feed Cost per Lb. B. F. (Cents)	Value of Produce per Cow					Returns above Feed Cost per Cow	Price Received per Lb. B. F. Sold	
		Con-cen.	Rough.	Pasture	Total Cost		B. F. Sales	Dairy Prod. used in House	Milk to other Live-stock	Apprec. or Deprec.	Total Value of Prod.		Sold as Manufact-uring Cream	Sold as Milk, Cheese, or Retail Cream
2102	341	$26.16	$35.45	$7.22	$68.83	20	$133.26	$5.37	$19.33	$-5.34	$152.62	$83.79	$ .41	$
2191	336	32.12	28.22	7.69	68.03	20	111.97	13.78	23.37	10.42	159.54	91.51	.39	
2182	321	36.82	32.97	5.48	75.27	23	110.13	5.49	18.50	9.78	143.90	68.63	.39	
2133	311	30.00	21.53	6.92	58.45	19	106.79	3.16	23.36	7.04	140.35	81.90	.39	
2451	302	29.19	37.12	5.86	72.17	24	143.77	4.71	21.98	-5.31	165.15	92.98	.39	.61
2062	294	33.75	41.11	6.76	81.62	28	104.48	5.27	27.16	.97	137.88	56.26	.38	
2022	294	42.35	41.67	6.29	90.31	31	102.61	4.51	28.70	-6.58	129.24	38.93	.39	
2199	293	24.25	46.91	7.11	78.27	27	103.48	6.70	29.19	-2.98	136.39	58.12	.39	
2201	283	30.59	52.49	7.38	90.46	32	101.60	5.18	19.36	-4.10	122.04	31.58	.39	
2123	252	19.07	32.25	6.46	57.78	23	85.11	9.85	26.82	-17.17	104.61	46.83	.42	
2194	250	34.09	46.41	6.38	86.88	35	86.88	5.73	18.42	-5.25	105.78	18.90	.38	
2197	245	57.43	34.03	6.82	98.28	40	93.29	4.15	24.24	-20.58	101.10	2.82	.41	
2132	243	13.76	30.21	5.71	49.68	20	79.75	7.80	24.75	-15.58	96.72	47.04	.39	
2103	240	24.11	29.87	5.83	59.81	25	88.63	4.92	15.15	-9.54	99.06	39.25	.40	
2198	234	22.23	42.27	4.59	69.09	30	74.92	13.62	15.51	-1.93	102.12	33.03	.39	
2161	230	27.79	38.48	4.59	70.86	31	86.16	3.92	14.79	-7.43	97.44	26.58	.40	
2031	229	35.54	52.30	7.75	95.59	42	71.09	9.27	34.02	1.98	116.36	20.77	.39	
2081	227	21.15	29.41	5.65	56.21	25	84.46	3.46	20.99	-13.71	95.20	38.99	.41	
2121	227	35.46	36.97	6.87	79.30	35	82.67	3.92	20.46	13.39	120.44	41.14	.39	
2032	221	19.03	38.20	7.72	64.95	29	110.82	4.93	21.20	-7.10	129.85	64.90	.41	1.16
2196	218	18.26	37.01	6.02	61.29	28	83.07	3.12	20.48	-3.56	103.11	41.82	.41	
2011	217	10.47	15.94	8.28	34.69	16	72.03	4.56	17.69	1.69	95.97	61.28	.39	
2051	205	10.98	28.38	7.44	46.80	23	71.76	7.88	15.27	-12.16	82.75	35.95	.41	
2221	205	14.50	32.53	7.70	54.73	27	73.94	4.73	17.76	-15.74	80.69	25.96	.41	2.46
2082	198	17.66	30.07	5.83	53.56	27	69.77	9.49	14.56	-11.00	82.82	29.26	.41	
2101	191	18.34	25.42	6.18	49.94	26	63.28	8.07	15.74	-3.07	84.02	34.08	.39	
2052	191	14.37	16.44	6.94	37.75	20	69.35	5.68	20.33	-.26	95.10	57.35	.41	
2023	180	22.98	11.00	6.38	40.36	22	8.99	69.99	4.55	-	83.53	43.17	.36	.46
2452	166	19.44	28.20	6.54	54.20	33	59.74	2.29	16.32	1.51	79.86	25.66	.39	
Aver-age	246	25.58	33.55	6.57	65.70	27	87.37	8.33	20.34	-4.19	111.85	46.15	.40	1.17

Feed Costs and Returns for Young Cattle - 1930

Farm No.	Feeds Used per Head, Lbs					Feed Costs per Head					Net value of Product per Head	Net value of prod. above Feed Cost per Head	% Death Loss
	Concen.	Hay & Fodder	Silage	Whole Milk	Skim-milk	Concen.	Rough.	Milk	Pasture	Total			
2452	463	731	2979	148	1599	$5.78	$9.02	$6.62	$2.20	$23.62	$45.92	$22.30	-
2197	1072	1102	2147	182	3790	11.38	10.88	12.48	1.29	36.03	57.34	21.31	20
2182	47	967	3267	512	1329	.40	11.88	14.43	.65	27.36	42.13	14.77	27
2221	96	1197	-	410	1455	1.08	2.74	10.40	3.06	17.28	30.37	13.09	13
2023	177	-	-	200	1055	1.55	-	7.30	-	8.85	20.00	11.15	-
2161	142	750	3563	108	852	1.32	10.71	4.12	3.18	19.33	29.23	9.90	9
2062	421	1099	2418	267	1276	4.13	9.78	7.60	1.59	23.10	30.32	7.22	11
2101	546	756	5111	286	596	6.15	13.12	6.21	2.84	28.32	33.24	4.92	9
2196	651	2250	2625	229	1860	5.81	19.38	8.42	3.00	36.61	41.25	4.64	31
2201	550	1667	4250	200	2188	5.53	17.87	9.01	2.46	34.87	38.56	3.69	12
2052	493	1295	-	217	2089	4.84	4.06	8.80	3.12	20.82	19.50	-1.32	-
2121	734	1759	1876	74	1494	6.97	11.48	5.10	3.30	26.85	24.99	-1.86	8
2032	-	-	6667	1417	1083	-	13.33	28.92	3.36	45.61	43.29	-2.32	18
2194	1186	1475	4074	258	807	11.72	15.45	6.28	1.03	34.48	31.69	-2.79	8
2103	352	1040	4040	165	1763	3.49	14.32	7.78	1.82	27.41	22.19	-5.22	56
2102	817	1369	1667	169	2383	8.14	11.25	9.69	1.26	30.34	24.88	-5.46	78
2198	250	2750	1000	113	860	2.62	12.06	4.46	3.57	22.71	16.67	-6.04	6
2123	156	978	2826	878	1542	1.45	10.71	18.35	3.73	34.24	26.20	-8.04	11
2451	633	786	1429	309	2909	6.54	7.18	12.24	2.87	28.83	20.48	-8.35	-
2051	428	1418	1940	369	1829	4.36	10.45	11.39	2.22	28.42	19.70	-8.72	52
2082	200	1000	3111	172	1548	1.91	12.45	7.40	2.02	23.78	13.90	-9.88	56
2081	310	1465	2626	3	1329	2.86	11.26	9.72	2.86	26.70	16.71	-9.99	10
2132	278	1597	3681	625	967	2.74	16.43	12.73	2.49	34.39	22.22	-12.17	14
2199	688	2275	3596	258	1169	6.30	20.79	7.50	1.56	36.15	21.50	-14.65	28
2022	1220	1965	-	623	1322	12.55	11.46	13.59	1.27	38.87	23.81	-15.06	11
2011	141	741	3704	709	1395	1.54	10.96	16.60	1.94	31.04	15.42	-15.62	30
2133	527	1520	320	710	292	5.54	9.24	16.15	2.90	33.83	17.22	-16.61	-
2191	1981	1388	941	526	3460	19.43	10.91	18.38	-	48.72	30.16	-18.56	12
2031	1868	1818	4675	1139	905	18.77	21.17	21.06	1.40	62.40	36.08	-26.32	26
Aver-age	566	1281	2570	389	1557	5.69	11.74	11.12	2.17	30.72	28.10	-2.62	19

Factors of Cost in Pork Production - 1930

Farm No.	Lbs. of Feed per 100 Lbs. of Pork						Value of Feed per 100 Lbs.				Returns above Feed Cost per 100 Lbs. Pork	Price Rec'd per 100 Lbs. Pork Sold	Total No. of Litters	Aver. No. of pigs per Litter	Lbs. of Pork Prod.
	Corn	Small Grain	Com. Feeds	Total Grain & Com. Feeds	Tank.	Skim-milk	Grain & Com. Feeds	Tank. & Skim-milk	Pasture	Total					
2051	256	62	-	318	-	298	$3.20	$.75	$.24	$4.19	$3.82	$9.41	8	7.4	12939
2103	242	146	-	388	3	324	3.85	.90	.15	4.90	3.34	9.17	22	6.1	27970
2133	371	50	1	422	1	162	4.51	.45	.19	5.15	3.27	8.92	13	6.3	22188
2196	323	183	-	506	1	502	4.87	1.30	.17	6.34	3.06	10.26	14	7.4	23020
2011	249	193	-	442	1	201	4.29	.55	.18	5.02	3.02	9.03	7	5.4	10721
2132	315	11	2	328	2	536	3.49	1.40	.24	5.13	2.74	8.39	9	7.3	12043
2101	309	148	-	457	8	209	4.82	.63	.11	5.56	2.65	8.85	19	6.2	37332
2451	346	128	11	485	2	167	5.05	.48	.23	5.76	2.40	9.09	15	8.2	30400
2182	251	232	-	483	3	561	4.41	1.49	.29	6.19	2.07	8.55	3	7.0	3792
2199	450	79	-	529	5	492	5.54	1.40	.19	7.13	2.07	9.88	12	6.3	21900
2201	296	167	2	465	16	246	4.70	1.22	.17	6.09	1.97	9.17	26	5.9	42040
2452	270	170	18	458	1	153	4.92	.41	.40	5.73	1.81	8.37	21	6.1	31675
2121	403	100	3	506	3	209	5.26	.64	.21	6.11	1.70	8.57	33	5.8	56551
2198	536	45	2	583	2	388	6.53	1.06	.27	7.86	1.47	9.46	3	6.3	4285
2191	372	54	-	426	-	279	4.42	.70	.20	5.32	1.38	9.11	6	4.5	6722
2082	389	155	-	544	1	229	5.53	.61	.24	6.38	1.33	8.49	15	7.6	31386
2194	397	97	-	494	-	250	5.01	.64	.18	5.83	1.33	8.10	15	5.9	19205
2081	365	79	16	460	-	454	4.77	1.13	.31	6.21	1.23	8.58	12	6.5	13498
2161	443	119	-	562	-	499	5.82	1.25	-	7.07	1.20	8.94	9	5.3	10520
2022	363	85	1	449	13	302	4.86	.99	.16	6.01	1.19	9.00	18	4.1	17780
2123	496	49	2	547	5	464	5.71	1.33	.21	7.25	.95	9.04	12	4.6	10845
2052	437	126	-	563	-	307	5.32	.77	.29	6.38	.93	7.99	8	6.8	11750
2221	524	59	-	583	4	243	6.01	.74	.33	7.08	.55	8.63	25	5.5	30441
2197	378	264	25	667	8	277	6.77	.97	.23	7.97	.40	9.44	18	5.9	22793
2062	516	55	1	572	-	809	5.78	2.02	.22	8.02	-.46	8.35	11	3.8	9990
2032	466	80	-	546	-	404	5.76	1.01	.48	7.25	-.63	8.16	17	2.5	8293
2102	504	40	9	553	-	682	6.06	1.71	.16	7.93	-.96	8.57	13	2.6	17988
2031	529	99	-	628	-	765	6.42	1.91	.21	8.54	-1.26	8.46	12	5.5	11670
2023	803	153	8	964	-	7	9.40	.02	.46	9.88	-2.69	10.13	11	5.5	5969
Aver-age	400	111	3	515	3	359	5.28	.98	.23	6.49	1.38	8.90	14	5.8	19507

Feed Costs and Returns for Poultry - 1930 (per hen basis)

Farm No.	Total Feed (Lbs.) per Hen		Cost of Feed per Hen			Value per Hen			Returns above Feed Cost per Hen	Eggs Laid per Hen	Price Rec'd. per Doz. Eggs Sold
	Concen.	Skimmilk	Concen.	Skim-milk	Total	Eggs Sold & Used in House	Poultry Sold & Used in House; Plus Ap-prec. or Less Deprec.	Total			
2133	97	64	$1.27	$.16	$1.43	$2.45	$2.27	$4.72	$3.29	140	$.21
2197	69	84	.97	.21	1.18	1.44	2.57	4.01	2.83	80	.23
2191	156	166	1.93	.42	2.35	2.99	2.11	5.10	2.75	176	.19
2023	73	-	.75	-	.75	1.87	1.58	3.45	2.70	110	.22
2199	239	128	2.42	.32	2.74	1.62	3.22	4.84	2.10	101	.19
2161	88	55	1.18	.14	1.32	2.92	.35	3.27	1.95	164	.21
2051	150	189	1.53	.47	2.00	3.20	.70	3.90	1.90	131	.33
2198	108	60	1.17	.15	1.32	1.10	2.04	3.14	1.82	67	.19
2132	91	22	1.31	.06	1.37	2.36	.59	2.95	1.58	140	.20
2062	89	21	1.36	.05	1.41	2.56	.41	2.97	1.56	142	.22
2082	99	41	1.29	.10	1.39	2.94	-.01	2.93	1.54	128	.28
2103	127	67	1.59	.17	1.76	3.14	.02	3.16	1.40	127	.31
2031	116	86	1.06	.22	1.28	1.60	1.04	2.64	1.36	95	.18
2201	165	42	1.86	.10	1.96	2.51	.69	3.20	1.24	147	.20
2196	126	43	1.53	.11	1.64	2.61	.08	2.69	1.05	115	.28
2121	73	50	1.00	.12	1.12	1.33	.80	2.13	1.01	61	.27
2194	79	43	.80	.11	.91	1.11	.77	1.88	.97	74	.19
2022	150	48	2.04	.12	2.16	2.94	.18	3.12	.96	171	.21
2451	77	22	.86	.05	.91	1.63	.21	1.84	.93	103	.19
2011	132	228	1.44	.57	2.01	1.62	1.24	2.86	.85	93	.21
2452	135	35	1.88	.09	1.97	1.60	.90	2.50	.53	72	.30
2032	73	53	.79	.13	.92	1.38	.05	1.43	.51	88	.19
2123	47	16	.57	.04	.61	1.34	-.34	1.00	.39	74	.22
2081	51	21	.81	.05	.86	1.22	-.08	1.14	.28	72	.20
2182	80	88	1.52	.22	1.74	1.83	-.15	1.68	-.06	100	.22
2101	92	48	1.03	.12	1.15	.76	.26	1.02	-.13	45	.19
2052	43	48	.44	.12	.56	.49	-.46	.03	-.53	27	-
2221	54	36	.60	.09	.69	.71	-.61	.10	-.59	40	.21
Aver-age	103	64	1.25	.16	1.41	1.90	.73	2.63	1.22	103	.22

Feed Costs per Horse and Other Power Expense Items

Farm No.	% Colts Are of Horses	Feed per Horse--Lbs. Grain	Tame Hay & Alfalfa	Wild Hay & Fodder	Feed Costs per Horse Grain	Rough.	Pasture	Total	Crop Acres per Horse	Tractor & Horse Exp. per Crop Acre	per Day of Prod. Work	Total Farm Power Exp. per Day of Prod. Work	Farms with Truck ½ T. or larger	Size of Farms
Farms with Tractors														
2023	23.5	864	741	-	$ 9.62	$ 2.35	$5.52	$17.49	25	$1.69	$ .76	$ .90	No	Medium
2032	-	1672	200	600	17.29	3.10	4.29	24.68	24	2.27	.55	.92	Yes	Small
2452	13.0	1860	1739	580	17.42	10.53	3.38	31.33	38	2.74	.64	.90	Yes	Large
2201	36.2	2081	1489	213	19.71	9.04	4.93	33.68	35	.70	.16	.62	No	Large
2101	-	2117	1714	857	23.16	8.28	3.13	34.57	24	3.22	.60	.92	Yes	Medium
2182	14.3	-	4143	-	-	32.07	3.57	35.64	15	3.56	.33	.63	Yes	Small
2052	20.0	2016	-	4000	19.32	10.40	6.15	35.87	63	2.50	.72	1.18	No	Small
2121	-	1986	2000	750	19.66	12.63	5.37	37.66	27	2.58	.42	.65	Yes	Large
2081	16.7	2351	-	5500	20.67	14.84	4.39	39.90	20	4.04	.63	.91	Yes	Small
2082	6.4	1846	4615	3462	16.93	22.82	3.49	43.24	20	3.35	.55	.90	No	Medium
2197	-	2441	2667	-	24.83	12.67	6.32	43.82	25	2.99	.56	.81	No	Medium
2221	6.8	2268	-	6990	20.70	20.97	4.19	45.86	33	2.54	.74	1.24	Yes	Large
2161	7.7	3252	3231	-	29.41	15.36	2.69	47.46	20	3.32	.54	1.05	Yes	Small
2103	14.8	4155	1358	1852	40.99	13.70	2.88	57.57	19	3.19	.50	.70	Yes	Medium
2451	-	4253	3000	-	40.25	16.50	3.00	59.75	27	3.11	.59	.76	No	Small
2196	-	3748	5000	-	37.68	25.50	-	63.18	31	2.92	.46	.76	No	Small
2102	2.0	4198	1224	6531	42.51	27.55	2.82	72.88	33	4.69	.92	1.09	No	Medium
Aver.	9.5	2418	1948	1843	23.54	15.19	3.89	42.62	28	2.91	.57	.52		
Farms without Tractors														
2198	-	1306	950	2550	13.69	10.98	3.12	27.79	29	1.65	.47	.67	No	Small
2051	-	1704	2400	400	16.36	9.20	2.43	27.99	21	1.91	.34	.72	No	Small
2011	9.1	2036	364	2364	19.57	8.73	4.02	32.32	16	2.53	.36	.62	No	Small
2133	7.7	2160	2154	-	21.98	8.15	2.29	32.42	25	1.44	.31	.44	No	Medium
2123	-	2180	328	2131	21.46	8.52	3.20	33.18	12	3.48	.59	1.01	No	Small
2062	-	1509	1538	2154	14.91	13.38	5.00	33.29	16	3.11	.72	.98	No	Small
2191	-	1930	1522	3478	19.52	17.72	2.44	39.68	17	3.60	.76	1.19	No	Small
2132	-	2084	-	5250	20.60	17.75	3.13	41.48	12	3.53	.54	.71	No	Small
2022	17.6	3958	649	541	40.18	5.24	4.77	50.19	19	2.42	.53	.66	No	Small
2031	-	2928	2333	833	31.70	17.33	4.17	53.20	18	3.14	.71	.96	No	Small
2194	1.7	3680	2881	1695	36.48	18.56	1.27	56.31	29	1.53	.42	.75	No	Medium
2199	-	4443	3036	1607	42.14	17.59	2.29	62.02	26	2.92	.72	1.03	No	Medium
Aver.	3.0	2493	1513	1917	24.88	12.76	3.18	40.82	20	2.61	.52	.34		

Comparisons of Averages for the Years 1928, 1929, and 1930

Items	1928 20 Farms	1929 23 Farms	1930 29 Farms
Total cash receipts	$4992	$6016	$4931
Increase in inventory	527	783	-
Farm produce used in house	317	366	324
Total receipts	5836	7165	5255
Total cash expenses	2577	2786	2775
Decrease in inventory	-	-	330
Board for hired labor	98	132	128
Total expenses	2675	2918	3233
Returns to capital & family labor	3161	4247	2022
Interest on farm inventory	1338	1550	1421
Family labor earnings	1823	2697	601
Unpaid family labor	277	322	473
Operator's Labor Earnings	1546	2375	128
Average farm inventory	$26759	$31035	$28419
Acres in farm	179.7	204.8	193.8
Percent land tillable	75	75	76
Crop acres in farm	127.2	143.7	138.5
Number of cows	14.91	17.22	16.25
Head of young cattle	15.62	19.49	17.50
Litters of spring pigs	8.6	9.4	9.4
Litters of fall pigs	4.1	4.7	4.6
Pounds of pork produced	16287	19161	19507
Head of sheep	7.6	4.2	7.8
Number of hens	168	161	165
Total no. of Prod. L. S. Units	35.00	39.09	37.14
Lbs. of B. F. per cow	240	252	246
Index of high return crops	34.5	34.4	33.8
Prod. L. S. Units per 100 acres	21.1	20.0	20.0
No. of days of prod. work	631	709	685
No. days prod. work per worker	344	353	317
Pow.-Mach.-Bldg. Exp. per day of prod. work	$ 1.57	$ 1.51	$ 1.32

Items	1928 20 Farms	1929 23 Farms	1930 29 Farms
Increase in crops and feeds	$ 25	$ 671	$ -
Decrease in crops and feeds	-	-	350
Gross returns from Cows	2187	2482	1776
" " " other cattle	711	826	518
" " " hogs	1408	1876	1546
" " " sheep	58	26	26
" " " poultry	474	501	418
Returns above feed per cow	$ 70	$ 75	$ 46
" " " " head other cattle	26	14	-3
" " " " 100# pork	.48	3.15	1.38
" " " " hen	1.19	1.68	1.22
Feed cost per cow	$ 76	$ 70	$ 66
" " " head other cattle	34	29	31
" " " 100# pork	8.38	6.58	6.49
" " " hen	1.78	1.67	1.41
" " " horse	67.	59.	42.
Price rec'd per lb. B. F. (manf'g. cream)	$ .53	$ .51	$ .40
" " " 100# pork	8.23	9.44	8.90
" " " doz. eggs	.28	.28	.22
Number of pigs per litter	5.9	6.4	5.8
" " eggs per hen	89.	92.	103.
Yield of corn per acre, bu.	40.6	45.9	48.3
" " oats " " "	48.4	46.9	49.8
" " barley per acre, bu.	38.4	33.6	31.3
" " wheat " " "	25.4	23.3	24.8
" " alfalfa " " tons	2.7	2.8	2.6
No. of work horses	5.8	5.8	5.7
" " colts	.7	.8	.9
" " horse units (2 colts=1 horse)	6.1	6.2	6.2