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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

Waseca County

By

W. P. Ranney and G. A. Pond
R. C. Bevan, Field Agent
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Mimeographed Report No. 48
Division of Agricultural Economics
University Farm
St. Paul, Minn.
April, 1931.

Third Annual Report of the Better Farming Club of Waseca
County for the Year 1931

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 Waseca County, Minnesota, have been cooperating during the years 1928, 1929, and 1930 in a farm account project, known as the Better Farming Club of Waseca County. The work was started January 1, 1928, along with similar clubs in nearby counties, viz., Dodge, Freeborn, Goodhue, Rice, and Steele 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 20.

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 W. L. Cavert 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 M. C. Hansen, County Agricultural Agent of Waseca County.

Type of Farming in Waseca 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 skim-milk 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, flax, sweet corn, canning peas, and sugar beets are grown to a limited extent as cash crops. 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-fourth, and receipts from hog sales approximately three-tenths of the average cash income for 32 cooperators in Wasceca 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 is 170 acres. The average farm inventory is \$23,648. This does not include the value of the house in which the operator lived. In 1930, fifty-six 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 fifteen per

cent of livestock, of which over two-fifths or an average of \$1,440 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 32 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 \$4648. In addition farm produce to the value of \$294 was consumed by the farm family. The total average receipts per farm is the sum of those two items \$4942. The average total expense per farm \$3090, includes \$2137 cash expense, an estimated allowance of \$109 for board of hired labor, and an average inventory decrease of \$844 per farm. The difference between the total income and total expense figure is \$1852. 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, \$1182, for the services of capital, there remains \$670 for the services of the farmer and his family. The average value of family labor used, if computed at hired man's wages, was \$327. The average operator's labor earning is the family earnings less their allowance of \$327, or \$343. 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 20.

Summary of Farm Inventories - 1930

Items	Your farm	Range		
		Average	Highest	Lowest
Size of Farm (acres)		170	326	90
Size of Business (days of prod. work) (1)		399	1144	274
Average farm inventory (without house)		\$23648	\$40723	\$12173
Land		13314	24496	4500
Farm improvements		3358	9088	1147
Machinery and equipment (total)		1856	4857	622
Gen. machinery and equipment		1238	3733	433
Tractor		298	1100	-
Truck		76	500	-
Auto (farm share)		167	580	-
Gas engine (farm share)		30	113	-
Electrical equip. (farm share)		47	365	-
Feeds and seeds		1649	3279	838
Misc. supplies		21	89	-
Horses (total)		433	1065	155
Horses		414	1065	155
Colts		19	228	-
Productive livestock (total)		3017	8097	1274
Cows		1440	4225	475
Other cattle		722	2385	118
Hogs		554	1440	-
Sheep		83	631	-
Poultry		218	1384	60

(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

<u>CASH EXPENSES</u> Items	Your farm	Average	Range	
			Highest	Lowest
Tractor (new and exp.)		\$ 214	\$1366	\$ -
Truck (new and exp.)		81	1065	-
Auto (new and exp.) (farm share)		114	522	-
Gas engine (new and exp.) (farm share)		6	40	-
Electricity (new and exp.) (farm share)		22	252	-
Machinery and equipment (new)		181	641	-
Machinery and equipment (exp.)		49	184	8
Bldgs., fences, tiling (new)		95	509	-
Bldgs., fences, tiling (exp.)		31	212	-
Hired labor		258	865	-
Feed for livestock		306	1564	21
Other expense for livestock		69	319	-
Horses bought		22	152	-
Cows bought		34	330	-
Other cattle bought		41	200	-
Hogs bought		58	504	-
Sheep bought		7	95	-
Poultry bought		50	144	-
Crop (seed, twine, spray)		189	1147	24
Taxes and insurance		280	511	114
General farm		30	81	-
(1) Total cash expense		2137	7106	436
(2) Decrease in farm inventory		844	3474	-
(3) Board for hired labor		109	410	-
(4) Total expense (sum of 1, 2, & 3)		3090	7954	1188
 <u>CASH RECEIPTS</u>				
Horses		15	250	-
Cows		256	908	-
Dairy products		1160	3479	369
Other cattle		311	1849	47
Sheep		47	454	-
Hogs		1323	3306	-
Poultry		223	3341	-
Eggs		376	3907	-
Small grain		107	690	-
Corn		63	809	-
Hay		12	125	-
Root crops		185	2063	-
Other crops		287	1542	-
Miscellaneous		206	1212	-
Income from work off farm		77	670	-
(5) Total cash receipts		4648	12658	2231
(6) Increase in farm inventory		-	1278	-
(7) Farm produce used in house		294	497	104
(8) Total receipts (sum 5, 6, & 7)		4942	13155	2566
Total expenses (4)		3090	7954	1188
(9) Returns to capital & family labor (8 minus 4)		1852	5201	615
(10) Interest on farm inventory		1182	2036	609
(11) Family labor earnings (9 minus 10)		670	3280	-951
(12) Unpaid family labor		327	900	-
(13) Operator's labor earnings (11 minus 12)		343	2980	-1671

Summary of Farm Earnings, 1950 (A)

<u>EXPENSES AND NET DECREASES</u> Items	Your farm	Average	Range	
			Highest	Lowest
Total power machinery and equipment		\$292	\$ 870	\$ 48
Tractor		110	475	-36
Truck		37	330	-15
Auto (farm share)		111	256	-
Gas engine (farm share)		12	52	-
Electric plant or current (farm share)		22	271	-
General machinery and equipment		194	668	17
Bldgs., fencing, tiling		146	542	23
Hired labor		258	865	-
Prod. livestock misc. expense		67	280	-
Misc. horse expense		1	12	-
Crop		189	1147	24
Taxes and insurance		280	511	114
General farm		30	81	-
Decrease in crops and feeds		-	1792	-
Decrease in horses		28	200	-
Board for hired labor		109	410	-
Interest on farm inventory		1182	2036	609
Unpaid family labor		327	900	-
(1) Total expenses		3103	7142	1607
<u>RETURNS AND NET INCREASES</u>				
Items				
Increase in crops and feeds		19	2073	-
Gross returns from all prod. livestock		3608	10396	1600
Cows (including milk to other livestock)		1366	3343	416
Other cattle		420	1127	75
Hogs		1208	2712	-
Sheep		32	336	-18
Poultry		582	6929	63
Outside and misc. receipts		84	670	-
Increase in horses		-	185	-
(2) Total returns and net increases		3711	10396	1709
(3) Milk produced & fed on farm		265	593	129
(4) Gross returns (2 minus 3)		3446	10122	1580
Total expenses (1)		3103	7142	1607
(5) Operator's labor earnings (4 minus 1)		343	2980	-1671
Gross returns per \$100 expense		111	144	66

(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 farmers get modium 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 day 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 nine farmers who excelled in five or more factors had average earnings of \$1158 above the average of ten farmers who did not excel in more than two 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	Average Operator's Labor Earnings
Five or more	9		0	\$1073
Three or four	13			375
Two or less	10		xx	-85

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	Lbs. B. F. Crop Yields 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. & Bldg. & Fenc. Exp. per day of Prod. Work
6192	\$2980	\$65	227	77	49.3	23.5	1099	353	\$1.83
6183	1680	68	274	145	42.9	18.1	636	247	1.46
6191	1086	43	296	132	47.2	32.0	1144	427	1.65
6193	951	54	226	88	39.7	18.4	537	376	.93
6185	908	45	191	101	35.4	17.7	540	367	1.18
6031	901	22	171	112	61.3	13.9	702	324	1.69
6182	809	41	206	100	42.6	22.3	579	327	.91
6261	772	38	203	83	44.7	18.5	614	336	1.75
6184	766	23	240	116	60.7	25.4	774	383	1.66
6032	760	33	198	104	46.0	21.2	564	444	1.38
6041	755	62	257	90	30.1	14.1	525	350	1.37
6152	675	44	276	112	37.4	26.7	436	328	1.08
6021	669	57	289	66	34.1	18.3	353	278	1.48
6022	620	28	311	93	45.6	15.7	560	308	1.58
6262	486	33	193	109	61.3	14.5	1058	401	1.79
6061	441	29	207	84	37.1	17.5	588	291	1.47
6132	415	37	203	121	44.4	20.3	641	321	1.64
6111	313	31	294	112	45.9	22.5	393	291	1.49
6081	310	36	258	109	38.5	21.9	487	310	1.57
6231	195	39	241	85	33.7	27.4	428	312	1.48
6161	69	38	235	116	37.0	13.3	433	192	1.79
6123	57	24	211	92	42.4	23.0	382	277	1.29
6122	45	2	171	103	34.3	12.1	849	303	1.58
6112	28	32	199	119	36.2	21.4	567	288	1.36
6113	-26	24	228	72	30.9	15.6	274	234	1.06
6232	-179	23	203	91	35.4	17.2	525	355	1.47
6071	-356	8	262	90	32.8	14.0	522	250	1.27
6133	-391	15	150	126	43.3	17.3	403	186	1.74
6121	-541	39	203	36	33.5	18.9	467	399	1.18
6083	-694	22	259	115	31.9	21.6	594	291	1.40
6131	-1353	-13	191	70	40.3	13.2	705	339	1.78
6101	-1671	34	234	67	34.2	15.9	805	298	1.25
Average	343	33	228	98	40.9	19.3	599	318	1.46
High	\$2980	\$68	311	145	61.3	32.0	1144	444	\$.91
Low	-1671	-13	150	36	30.1	12.1	274	186	1.83

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 32 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
\$2980	\$ 68	311	145	61.3	32.0	1144	444	\$.91
1843	63	293	133	48.9	25.3	849	418	1.16
1543	57	280	126	47.3	24.1	799	398	1.22
1243	51	267	119	45.7	22.9	749	378	1.28
943	45	254	112	44.1	21.7	699	358	1.34
643	39	241	105	42.5	20.5	649	338	1.40
343	33	228	98	40.9	19.3	599	318	1.46
43	27	215	91	39.3	18.1	549	298	1.52
-257	21	202	84	37.7	16.9	499	278	1.58
-557	15	189	77	36.1	15.7	449	258	1.64
-857	9	176	70	34.5	14.5	399	238	1.70
-1157	3	163	63	32.9	13.3	349	218	1.76
-1671	-13	150	36	30.1	12.1	274	186	1.83

Utilization of Land - 1930

Crop (A)(B)(C)(D) refer to ranking used in calcula- ting Index of Selection of High Return Crops, as explained on Page 7.	9 farms above 190 acres			14 farms from 140 to 190 acres		
	No. of farms growing this crop	Acres per farm Your aver- age	Average of those growing this crop	No. of farms growing this crop	Acres per farm Your aver- age	Average of those growing this crop
Winter wheat	(B) 4	7.6	17.3	2	1.0	7.0
Spring wheat	(C) 2	1.2	5.3	5	5.4	15.0
Oats	(D) 6	10.9	16.3	9	9.8	15.2
Barley	(C) 7	20.4	26.2	11	7.3	9.3
Flax	(B) 3	7.0	21.0	4	3.0	10.8
Wheat & oats	(C) 3	7.9	23.7	4	1.6	5.5
Oats & barley	(C) 5	18.7	33.6	8	14.2	24.8
Canning peas	(A) 3	6.3	19.0	2	1.8	12.5
Total grain		80.0			44.1	
Corn, grain	(B) 9	36.0	36.0	14	27.9	27.9
Corn, silage	(C) 6	6.9	10.3	9	4.6	7.2
Corn, fodder	(D) 3	2.9	6.7	4	1.8	6.3
Sweet corn	(C) 2	4.0	18.0	6	8.4	19.6
Sugar beets	(A) 3	7.7	23.0	1	2.1	30.0
Potatoes	(A) 6	.6	.9	7	.5	.9
Other crops & summer fallow	0	-	-	4	.4	1.3
Total cultivated crops		58.1			45.7	
Alfalfa	(A) 9	15.2	15.2	12	8.8	10.2
Red clover	(B) 1	2.2	20.0	2	1.9	13.5
Other leg. & mixtures	(C) 3	3.4	10.3	3	3.0	14.2
Timothy	(D) 2	.8	3.5	0	-	-
Annual hay crops	(D) 0	-	-	1	.1	2.0
Other hay (till. land)	(D) 1	.5	4.75	1	.1	1.0
Wild hay (non-till land)	8	11.2	12.6	11	12.3	15.6
Total hay		33.3			26.2	
Total crop acreage		171.4			116.0	
Sweet clover pasture	(B) 6	5.9	8.8	6	5.8	13.6
Alfalfa pasture	(A) 2	1.2	5.5	2	.4	3.0
Red clover or rape pasture (hogs)	(B) 1	.6	5.0	2	.2	1.4
Misc. legume pasture	(C) 0	-	-	1	.4	6.0
Other tillable pasture	(D) 6	8.2	12.3	6	4.5	10.6
Non-tillable pasture	8	39.6	44.6	14	22.9	22.9
Total pasture		55.5			34.2	
Roads and waste		10.3			4.5	4.5
Farmstead		7.6			6.8	6.8
Total acres in farm		244.8			161.5	
% land tillable		73.			72.	
Index of tillable land in high return crops		43.4			40.8	

Utilization of Land and Yield of Crops - 1930

Crop (A)(B)(C)(D) refer to ranking used in calcu- lating Index of Selection of High Return Crops, as explained on Page 7.	9 farms from 90 to 140 A.			Yield per acre			
	No. of farms growing this crop	Acres per farm		Your farm	Aver- age	Highest	Lowest
		Your	Aver- age	for those growing crop			
Winter wheat	(B)	1	1.2	11.0	22.90	36.36	15.
Spring wheat	(C)	2	1.3	6.0	16.91	22.50	5.64
Oats	(D)	5	6.1	11.0	47.81	80.	10.
Barley	(C)	5	4.1	7.4	27.10	60.	3.5
Rye	(D)	1	.3	2.5	18.	18.	18.
Flax	(B)	1	.6	5.5	11.39	18.33	6.73
Wheat & Oats	(C)	1	.3	3.0	30.67	45.	14.74
Oats & Barley	(C)	7	12.5	16.0	38.04	50.	20.65
Canning peas	(A)	0	-	-	29.16	44.36	11.76
Other mixtures	(C)	2	.8	3.8	-	-	-
Total grain			27.2				
Corn, grain	(B)	9	20.6	20.6	43.41	70.	10.
Corn, silage	(C)	5	3.1	5.5	8.16	12.19	4.29
Corn, fodder	(D)	4	1.8	4.0	1.99	3.	1.1
Sweet corn	(C)	1	3.0	27.0	2.64	4.31	1.36
Sugar beets	(A)	0	-	-	10.08	11.58	9.03
Potatoes	(A)	6	.3	.5	-	-	-
Other crops & summer fallow		2	.2	1.0	59.93	160.	20.
Total cultivated crops			29.0				
Alfalfa	(A)	9	6.1	6.1	2.90	4.17	.75
Red Clover	(B)	2	1.7	7.5	1.79	3.28	1.0
Other leg. & mixtures	(C)	1	.3	3.0	1.64	2.93	.75
Timothy	(D)	0	-	-	1.42	1.5	1.33
Annual hay crops	(D)	1	.9	8.0	1.32	2.0	.63
Wild hay (till. land)	(D)	0	-	-			
Wild hay (non-till. land)		5	6.3	11.4	1.25	2.4	.5
Total hay			15.3				
Total crop acreage			71.5				
Sweet clover pasture	(B)	4	3.5	7.9			
Alfalfa pasture	(A)	5	1.4	2.5			
Red clover or rape pasture (hogs)	(B)	2	2.0	9.0			
Misc. legume pasture	(C)	1	.4	4.0			
Other tillable pasture	(D)	4	1.7	5.8			
Non-tillable pasture		7	17.5	22.5			
Total pasture			26.5				
Timber (not pastured)		2	2.7	12.4			
Roads and waste			3.8				
Farmstead			3.4				
Total acres in farm			107.9				
% land tillable			69.				
Index of tillable land in high return crops			40.9				

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 and 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	Lowest
<u>9 Large Farms; Above 190 Acres</u>				
Number of horses (with tractors) (8 farms)		6.0	9.6	4.0
Number of horses (without tractors) (1 farm)		4.5	4.5	4.5
Number of colts		.8	3.0	0.
Number of cows		19.45	30.17	7.13
Number of cows per worker		7.8	11.3	4.8
Head of other cattle		19.4	34.6	8.3
Litters of pigs raised		13.	19.	0.
Pounds of pork produced		17834.	33907.	0.
Head of sheep (2 lambs equal 1 head)		4.1	25.6	0.
Number of hens		292.	1426.	45.
Total number of productive livestock units		41.21	64.05	27.42
Number of workers		2.42	3.11	1.50
Number of hired workers		.83	1.69	.01
<u>14 Medium-sized Farms; 140 to 190 Acres</u>				
Number of horses (with tractors) (11 farms)		5.1	9.0	3.7
Number of horses (without tractors) (3 farms)		6.4	7.0	6.0
Number of colts		.4	3.2	0.
Number of cows		12.85	20.83	9.13
Number of cows per worker		7.5	12.8	4.0
Head of other cattle		15.3	21.4	9.6
Litters of pigs raised		9.	15.	3.
Pounds of pork produced		15113.	26510.	7746.
Head of sheep (2 lambs equal 1 head)		9.1	41.2	0.
Number of hens		168.	339.	62.
Total number of productive livestock units		30.53	38.13	21.03
Number of workers		1.81	2.58	1.17
Number of hired workers		.42	1.08	0.
<u>9 Small Farms; 90 to 140 Acres</u>				
Number of horses (with tractors) (1 farm)		4.0	4.0	4.0
Number of horses (without tractors) (8 farms)		4.7	5.5	4.0
Number of colts		.4	2.0	0.
Number of cows		10.5	16.96	4.88
Number of cows per worker		7.1	9.6	4.2
Head of other cattle		7.5	13.2	2.5
Litters of pigs raised		8.	15.	3.
Pounds of pork produced		12908.	26075.	3893.
Head of sheep (2 lambs equal 1 head)		12.0	72.7	0.
Number of hens		103.	165.	26.
Total number of productive livestock units		23.34	32.91	15.84
Number of workers		1.49	2.17	1.17
Number of hired workers		.07	.38	0.

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

Farm No.	B. F. per Cow	Feed per Cow - Lbs.								Total Total Digest Nutri- ents	Total Total Digest Nutri- ents	% Pro- tein in Ration	% Cows Fresh Sept. to Dec. in- clusive			
		Corn	Small Grain	Com. Feeds under 25% Protein	Com. Feeds over 25% Protein	Tame Hay	Alfalfa	Wild Hay	Corn Fodder					Silage	Total Con- cen	Total Dry- Rough- age
6022	311	329	2367	-	17	-	4603	-	-	6562	2713	4603	5583	17.3	15.7	80
6191	296	444	1590	381	322	-	1906	133	663	12067	2737	2702	5302	17.9	13.3	44
6111	294	355	1617	192	130	-	4984	485	-	8515	2294	5469	5943	20.2	14.8	73
6021	289	177	1526	-	259	758	2779	1137	1389	3877	1962	6063	5190	18.0	13.3	88
6152	276	-	1990	62	88	1007	733	641	-	9553	2140	2381	4415	16.0	11.4	33
6183	274	-	459	-	-	-	3915	-	-	2958	459	3915	2817	10.3	17.6	58
6071	262	165	2095	-	-	-	5557	-	4210	-	2260	9767	6544	25.0	14.6	100
6083	259	-	1926	-	-	1455	2727	-	-	7909	1926	4182	4901	18.9	14.0	58
6081	258	178	1580	-	-	634	3171	-	2326	-	1758	6131	4244	16.4	14.8	44
6041	257	409	2133	14	-	-	4636	351	224	-	2556	5261	4551	17.7	16.4	71
6231	241	-	2480	-	-	-	3673	1306	367	-	2480	5346	4515	18.7	15.0	67
6184	240	-	1403	736	19	656	656	656	-	14019	2163	1968	4146	17.3	12.2	61
6161	235	-	2389	-	-	-	876	1314	-	11829	2389	2190	4890	20.8	10.1	29
6101	234	835	495	69	-	-	3440	2312	771	330	1399	6523	4368	18.7	13.3	88
6113	228	689	1941	87	87	1230	1333	1845	1162	1230	2804	5570	4929	21.6	12.1	100
6192	227	495	614	259	33	-	2256	-	551	11062	1401	2807	3967	17.5	13.2	47
6193	226	-	1684	93	129	-	3028	-	1669	6647	1906	4697	4820	21.3	13.7	44
6123	211	857	1040	133	59	1087	3261	543	2083	7246	2089	6974	6171	29.2	12.6	57
6061	207	-	1956	-	12	-	3839	1256	209	8795	1968	5304	5567	26.9	13.4	100
6182	206	-	1123	83	-	-	2154	-	472	5900	1206	2826	3130	15.2	13.6	77
6121	203	515	1084	-	-	502	2676	-	1505	-	1599	4683	3563	17.6	14.5	45
6261	203	236	771	-	147	549	-	549	2564	8975	1154	3662	3835	18.9	9.7	64
6132	203	228	701	-	-	2454	2224	-	614	5522	929	5292	4295	21.2	13.4	90
6232	203	523	967	-	-	2766	830	-	1591	1176	1490	5187	3882	19.1	12.8	86
6112	199	-	1155	-	5	-	4379	-	-	8757	1160	4379	4573	23.0	14.8	50
6032	198	76	1208	-	-	-	4431	-	492	5292	1284	4923	4327	21.9	15.4	59
6262	193	-	1883	-	252	988	3330	-	-	6346	2135	4318	4847	25.1	14.6	83
6131	191	782	1152	35	159	750	3981	-	-	8343	2128	4731	5442	28.5	14.3	20
6185	191	159	943	-	40	2733	-	-	810	5364	1142	3543	3468	18.2	9.6	50
6031	171	-	1767	-	-	1578	1052	-	-	7890	1767	2630	3798	22.2	14.1	18
6122	171	-	1648	-	51	122	3988	-	1021	5156	1699	5131	4640	27.1	14.9	47
6133	150	544	507	-	-	-	1751	3065	525	175	1051	5341	3418	22.8	11.0	40
Aver.	228	250	1444	67	57	602	2757	487	788	5672	1818	4634	4559	20.3	13.6	62

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

Farm No.	B.F. per Cow	Feed per Cow			Feed Cost per B. F. (Cents)	Value of Produce per Cow					Returns above Feed per Cow	Price Received per Lb. B. F. Sold		
		Concen.	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
6022	311	\$26.41	\$41.40	\$6.41	\$74.22	23.9	\$115.36	\$6.33	\$28.03	\$-28.41	\$121.31	\$47.09	\$.40	-
6191	296	32.67	37.78	7.07	77.52	26.2	115.34	2.40	19.65	-26.58	110.81	33.29	.40	-
6111	294	24.70	50.88	4.67	80.25	27.3	105.13	4.17	26.54	-41.02	94.82	11.57	.38	.65
6021	299	23.05	38.19	7.28	68.52	23.7	101.87	9.60	23.07	-5.31	129.23	60.71	.40	-
6152	276	22.18	31.33	6.92	60.43	21.9	107.57	3.14	18.42	-9.03	120.10	59.67	.41	-
6183	274	4.48	31.36	5.79	41.63	15.2	86.91	11.46	23.21	24.48	148.06	106.43	.39	.42
6071	262	20.60	52.96	6.44	80.00	30.5	86.01	9.47	22.15	-5.61	112.02	32.02	.37	-
6083	259	18.84	41.00	6.72	66.56	25.7	91.65	4.52	21.13	-7.49	109.81	43.25	.40	-
6081	258	15.95	29.18	5.92	51.05	19.8	82.74	7.67	25.34	-1.59	114.16	63.11	.39	-
6041	257	25.37	31.85	7.70	64.92	25.3	90.99	6.72	21.67	-.85	118.53	53.61	.39	-
6231	241	23.49	29.26	7.93	60.68	25.2	84.73	3.80	22.59	-2.86	102.26	47.58	.39	-
6184	240	19.76	36.43	7.00	63.19	26.3	90.04	3.34	23.15	-11.67	104.86	41.67	.41	.68
6161	235	21.68	33.30	6.97	61.95	26.4	89.06	6.32	18.46	-9.86	103.98	42.03	.41	-
6101	234	15.77	32.78	7.60	56.15	24.0	83.60	4.79	19.34	-18.04	89.39	33.54	.39	-
6113	228	27.79	26.09	6.24	60.12	26.4	75.67	9.09	26.39	-25.82	85.33	25.21	.39	-
6192	227	13.80	37.89	5.69	37.38	25.3	98.35	5.00	10.07	-9.00	104.42	47.04	.46	-
6193	226	20.18	38.33	7.24	65.75	29.1	80.92	8.25	18.22	12.40	119.79	54.04	.40	.65
6123	211	23.00	46.91	5.69	77.60	36.8	71.37	7.82	17.86	-1.36	95.69	18.09	.39	-
6061	207	19.84	47.15	6.85	73.84	35.7	92.48	6.26	24.39	-25.44	97.69	23.85	.41	.82
6182	206	12.13	26.51	6.86	45.50	22.1	78.03	2.41	9.85	-1.09	89.20	43.70	.41	.66
6121	203	16.30	25.29	7.02	48.61	23.9	70.25	6.32	20.54	-2.51	94.40	45.79	.40	-
6261	203	14.23	25.64	5.92	45.79	22.6	69.23	7.78	18.01	-15.02	80.00	34.21	.40	-
6132	203	9.20	40.99	6.44	56.63	27.9	69.25	2.74	20.83	-18.80	74.02	17.39	.38	-
6232	203	15.71	29.32	7.16	52.19	25.7	75.07	1.98	17.05	-1.08	93.02	40.83	.40	-
6112	199	11.69	45.98	5.74	63.41	31.9	65.07	2.82	27.92	-12.51	83.30	19.89	.39	-
6032	198	11.48	40.94	5.65	58.07	29.3	61.84	14.87	18.35	10.46	105.52	47.45	.40	-
6262	193	24.36	37.40	5.21	66.97	34.7	72.63	3.39	15.70	-20.90	70.82	3.85	.42	-
6131	191	23.88	45.94	6.91	76.73	40.2	70.08	3.95	15.42	-.29	89.16	12.43	.41	-
6185	191	12.26	25.69	6.06	44.01	23.0	70.22	4.43	14.84	-9.39	80.10	36.09	.41	-
6031	171	15.73	32.48	7.54	55.75	32.6	63.44	5.06	17.76	-16.42	69.84	14.09	.42	-
6122	171	16.67	39.41	7.15	63.23	37.0	62.48	3.71	13.04	-1.71	77.52	14.29	.40	-
6133	150	10.60	21.98	7.23	39.81	26.5	52.27	2.66	16.13	-4.12	66.94	27.13	.41	-
Aver.	228	18.56	36.05	6.59	61.20	27.3	82.24	5.70	19.84	-8.95	98.83	37.63	.40	.65

Feed Costs and Returns for Young Cattle - 1930

Farm No.	Feeds Used per Head, Lbs.					Feed Costs per Head					Net val-ue of Product per Head	Net val-ue of Prod. above Feed Cost per Head	Death Loss %
	Con-cen	Hay & Fodder	Silage	Whole Milk	Skim-milk	Concen.	Rough.	Milk	Pasture	Total			
6262	329	2754	3035	535	1916	\$ 3.25	\$21.39	\$13.20	\$1.98	\$39.82	\$67.49	\$27.67	6
6261	170	1511	2084	419	1640	1.85	7.03	11.02	2.19	22.09	41.52	19.43	-
6193	336	907	1682	151	2430	3.55	7.95	8.50	-	20.00	39.30	19.30	5
6021	199	1786	214	272	2694	2.34	7.60	11.21	3.52	24.67	40.24	15.57	-
6111	892	2133	3199	575	1033	9.10	18.40	12.06	1.01	40.57	50.67	10.10	13
6231	640	3000	-	477	2964	5.96	17.15	15.09	.99	39.19	49.22	10.03	-
6031	154	963	3028	206	1655	1.44	11.38	7.36	2.52	22.70	31.20	8.50	18
6161	703	1412	4706	122	556	6.57	14.47	3.26	2.80	27.10	30.74	3.64	-
6183	238	2071	1775	373	1473	2.41	17.02	9.83	3.20	32.46	35.63	3.17	-
6192	264	1206	3269	67	1156	2.50	13.50	4.27	1.27	21.54	24.35	2.81	35
6182	156	1326	3030	292	1345	1.49	11.04	8.18	3.24	23.95	25.64	1.69	15
6112	911	1379	3414	678	1174	9.03	15.79	13.58	.88	39.28	40.66	1.38	7
6185	325	1326	2265	131	1233	3.56	10.21	5.30	2.52	21.59	21.71	.12	17
6032	283	2803	2222	213	1693	2.61	21.40	7.66	1.20	32.87	32.83	-.04	-
6191	815	1055	4219	140	1815	7.23	13.14	6.74	1.55	28.66	27.32	-1.34	6
6132	420	1847	1656	366	1742	4.26	13.60	10.39	2.27	30.52	29.04	-1.48	6
6061	364	1608	1817	405	1515	3.90	11.88	10.48	2.98	29.24	26.80	-2.44	7
6022	475	2449	2245	196	1030	4.93	13.73	5.80	4.06	28.52	25.85	-2.67	7
6123	260	2500	1905	498	1996	2.88	16.43	13.20	1.36	33.87	30.92	-2.95	12
6041	420	1241	-	244	2368	4.19	7.83	9.84	2.46	24.32	20.62	-3.70	-
6131	623	2037	3278	459	1326	6.60	18.69	10.89	1.94	38.12	33.67	-4.45	28
6121	152	2230	-	324	1575	1.55	10.84	9.29	2.58	24.26	19.59	-4.67	-
6113	614	3000	560	690	310	6.49	14.02	12.16	3.06	35.73	30.06	-5.67	40
6152	192	1059	4400	169	1761	1.87	13.09	7.67	2.06	24.69	18.84	-5.85	-
6101	2154	1152	-	186	2552	21.12	6.03	9.68	3.09	39.92	33.49	-6.43	5
6184	-	4581	3129	368	1223	-	20.55	9.12	2.53	32.20	21.40	-10.80	34
6071	187	3713	-	315	1239	1.78	18.08	7.91	1.63	29.40	16.22	-13.18	-
6083	179	1786	3631	393	489	1.72	18.22	7.70	2.74	30.38	16.35	-14.03	18
6133	494	3333	165	669	1568	4.86	11.51	14.16	2.36	32.89	17.78	-15.11	12
6081	974	3368	-	1124	905	9.18	15.58	22.61	1.85	49.22	31.59	-17.63	18
6122	314	2636	1957	264	1545	3.20	18.95	8.22	1.53	31.90	14.19	-17.71	43
6232	1880	1887	302	340	1590	19.48	10.60	9.44	2.42	41.94	21.01	-20.93	38
Aver-age	504	2064	1975	364	1547	5.03	13.97	9.87	2.18	31.05	30.19	-.86	12

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 Lit- ters	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					
6041	212	151	-	363	1	81	\$3.61	\$.23	\$.21	\$4.05	\$3.94	\$9.31	19	8.1	33907
6112	186	224	7	417	1	320	4.00	.82	.17	4.99	3.72	9.31	11	8.5	20045
6021	262	96	2	360	-	247	3.72	.62	.19	4.53	3.39	8.44	9	7.6	16683
6191	242	128	11	381	2	380	3.73	1.00	.11	4.84	3.39	9.08	17	8.8	32653
6185	315	58	2	375	-	119	3.84	.30	.21	4.35	3.37	8.42	10	6.3	16565
6183	177	173	-	350	-	131	3.28	.33	.16	3.77	3.34	8.41	12	9.7	21220
6132	293	205	4	502	1	202	4.96	.54	.21	5.71	2.93	9.10	15	7.1	21520
6061	348	15	-	363	-	589	3.95	1.47	.09	5.50	2.78	8.83	9	6.8	12487
6152	306	74	6	386	-	351	4.01	.88	.33	5.22	2.78	8.55	11	7.0	15023
6113	382	126	5	513	6	365	5.50	1.13	.28	6.91	2.73	10.00	7	6.6	10597
6101	293	165	-	458	-	193	4.67	.48	.21	5.36	2.72	8.52	13	5.9	23004
6111	293	172	2	467	3	419	4.48	1.16	.15	5.79	2.56	8.23	11	5.8	15769
6161	406	36	-	442	-	386	4.51	.96	.14	5.61	2.35	9.04	9	5.4	13730
6232	315	114	-	429	-	465	4.36	1.16	.11	5.63	2.15	8.52	14	4.2	11925
6262	403	155	-	558	-	392	5.65	.98	.25	6.88	2.13	9.80	15	5.0	16624
6182	477	56	-	533	-	188	5.54	.47	.22	6.23	2.08	8.85	5	6.2	9320
6231	218	229	-	447	-	572	4.38	1.43	.20	6.01	2.08	9.52	3	10.3	9473
6261	387	110	8	505	5	97	5.29	.42	.27	5.98	2.00	8.50	8	8.3	19865
6083	330	57	35	422	2	148	4.97	.43	.13	5.53	1.81	8.01	14	6.4	26510
6081	393	79	9	481	3	163	4.92	.53	.20	5.65	1.68	8.23	15	7.5	26075
6184	266	138	-	404	-	1061	3.93	2.65	-	6.58	1.19	8.77	8	3.9	9225
6031	356	212	-	568	1	220	5.38	.57	.37	6.32	1.01	7.63	14	5.3	16062
6123	425	140	-	565	-	305	5.65	.76	.25	6.66	.78	9.45	6	6.5	10536
6022	387	165	-	552	-	657	5.35	1.64	.27	7.26	.65	8.65	7	6.0	12102
6122	519	62	1	582	-	242	5.96	.61	.20	6.77	.38	8.63	17	6.0	18853
6133	415	158	-	573	-	242	5.78	.61	.37	6.76	.14	8.66	5	5.8	8277
6032	509	132	-	641	-	524	6.38	1.31	.36	8.05	-.26	9.26	8	6.0	10886
6193	440	324	-	764	-	239	7.70	.60	.22	8.52	-.64	8.75	4	3.5	7746
6121	442	246	-	688	-	546	7.06	1.37	.48	8.91	-1.46	8.22	3	7.0	7750
6071	614	99	-	713	-	491	7.33	1.23	.29	8.85	-1.72	8.35	11	4.5	8634
6131	919	82	3	1004	8	456	10.83	1.40	.39	12.62	-5.20	8.24	9	5.0	10570
Average	372	135	3	510	1	348	5.18	.91	.23	6.32	1.57	8.77	10	6.5	15931

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 & Apprec. or Deprec.	Total			
6121	80	-	\$.83	\$-	\$1.83	\$2.95	\$3.47	\$6.42	\$5.59	199	\$.16
6192	86	46	1.18	.12	1.30	2.80	2.06	4.86	3.56	145	.28
6071	181	92	1.80	.23	2.03	1.81	3.31	5.12	3.09	107	.21
6262	121	84	1.60	.21	1.81	3.50	1.31	4.81	3.00	169	.25
6191	122	60	1.45	.15	1.60	3.48	.32	3.80	2.20	178	.24
6132	109	-	1.26	-	1.26	2.87	.50	3.37	2.11	142	.25
6185	117	3	1.24	.01	1.25	1.58	1.56	3.14	1.89	100	.20
6041	159	28	1.76	.07	1.83	1.34	2.33	3.67	1.84	74	.22
6183	115	54	1.19	.14	1.33	2.54	.39	2.93	1.60	103	.29
6032	149	20	1.60	.05	1.65	1.80	1.43	3.23	1.58	113	.18
6182	123	64	1.47	.16	1.63	2.61	.57	3.18	1.55	128	.26
6081	86	12	1.24	.03	1.27	2.34	.36	2.70	1.43	126	.23
6061	76	34	.80	.09	.89	1.57	.64	2.21	1.32	91	.21
6193	109	82	1.17	.20	1.37	2.31	.34	2.65	1.28	142	.19
6133	120	47	1.28	.12	1.40	1.45	1.14	2.59	1.19	87	.21
6022	62	5	.76	.01	.77	1.67	.24	1.91	1.14	97	.21
6123	112	60	1.21	.15	1.36	.85	1.62	2.47	1.11	51	.20
6152	64	13	.75	.03	.78	1.59	.30	1.89	1.11	95	.20
6161	107	26	1.17	.07	1.24	2.06	.29	2.35	1.11	122	.20
6021	143	5	1.56	.01	1.57	2.15	.52	2.67	1.10	124	.21
6261	113	69	1.79	.17	1.96	2.15	.87	3.02	1.06	131	.21
6101	88	81	1.07	.20	1.27	1.83	.46	2.29	1.02	94	.25
6111	189	-	2.45	-	2.45	2.76	.63	3.39	.94	104	.34
6231	65	49	.68	.26	.94	1.32	.24	1.56	.62	75	.22
6122	51	11	.49	.03	.52	1.29	-.25	1.04	.52	72	.21
6184	109	107	1.60	.27	1.87	2.21	.12	2.33	.46	105	.25
6232	61	19	.78	.05	.83	.96	.16	1.12	.29	56	.20
6112	91	-	.97	-	.97	1.09	.07	1.16	.19	66	.19
6031	189	176	2.50	.44	2.94	.68	2.43	3.11	.17	37	-
6113	77	12	.98	.03	1.01	1.19	-.01	1.18	.17	71	.21
6131	46	46	.58	.12	.70	1.32	-1.02	.30	-.40	77	.20
6083	85	21	1.07	.05	1.12	1.66	-.98	.68	-.44	103	.19
Aver.	106	41	1.26	.11	1.37	1.93	.81	2.74	1.37	106	.22

Feed Costs per Horse and Other Power Expense Items (Tractor Farms)

Farm No.	% Colts Are of Horses	Feed per Horse--Lbs.			Feed Costs per Horse				Crop Acres per Horse	Tractor & Horse Exp. per Acre of Crop Day		Total Farm Power Exp. per Day of Prod. Work	Farms with Truck $\frac{1}{2}$ ton or larger	Size of Farms
		Grain	Tame Hay & Alfalfa	Wild Hay & Fodder	Grain	Rough.	Pasture	Total		per	per			
6112	-	942	-	3111	\$ 8.90	\$ 9.33	\$4.61	\$22.84	12	\$3.09	\$.58	\$.85	No	Medium
6261	-	1693	-	2433	17.70	6.22	5.80	29.72	38	2.41	.55	1.24	Yes	Medium
6121	-	1608	800	2200	16.53	12.10	3.25	31.88	18	2.82	.56	.86	No	Medium
6232	11.8	1711	-	3530	18.39	10.59	4.04	33.02	20	2.25	.52	.97	Yes	Medium
6113	20.0	1382	1400	1600	13.99	13.50	5.73	33.22	13	1.94	.48	.78	No	Small
6083	-	1955	1698	-	21.16	10.52	1.77	33.45	24	3.57	.76	.99	No	Medium
6193	-	2099	-	2600	21.73	7.80	4.42	33.95	24	2.52	.57	.63	No	Medium
6122	7.7	1431	2154	1154	13.93	17.12	4.40	35.45	41	2.97	.87	1.17	Yes	Large
6101	-	2308	-	3230	24.19	9.69	3.95	37.83	21	2.44	.60	.76	No	Large
6184	-	1490	2667	6583	12.88	23.21	3.54	39.63	26	3.66	.48	.87	Yes	Medium
6131	22.7	2765	2121	606	28.13	12.27	5.06	45.46	39	3.56	1.00	1.27	No	Large
6185	-	1774	4400	1800	18.79	26.46	1.26	46.51	24	3.19	.72	.88	No	Medium
6192	3.9	1644	2745	4510	16.59	27.65	2.58	46.82	29	5.98	.77	1.20	Yes	Large
6071	16.7	2255	833	6666	21.13	24.58	2.40	48.16	37	2.53	.72	.96	No	Large
6031	-	1603	5179	-	15.41	31.79	1.86	49.06	25	4.62	.92	1.11	No	Large
6061	2.0	3906	-	4706	37.25	14.12	.65	52.02	23	2.71	.53	.95	No	Medium
6183	26.2	2545	1148	7052	24.29	26.31	4.10	54.70	27	2.70	.52	.81	Yes	Medium
6191	-	4225	572	3430	42.38	11.15	1.90	55.43	20	5.15	.64	.82	Yes	Large
6022	-	4793	1250	4250	44.76	19.38	3.54	67.68	30	3.72	.79	1.01	No	Medium
6262	-	5970	-	7458	54.07	22.37	1.27	77.71	31	4.01	.70	1.01	Yes	Large
Average	5.6	2405	1348	3346	23.61	16.81	3.31	43.73	26	3.29	.66	.96		

Feed Costs per Horse and Other Power Expense Items (Farms without Tractors)

Farm No	% Colts Are of Horses	Feed per Horse--Lbs.			Feed Costs per Horse				Crop Acres per Horse	Horse Ex- pense per Crop Day Acre of Prod. Work		Total Farm Power Exp. per Day of Prod. Work	Farms with Truck $\frac{1}{2}$ ton or Larger	Size of Farms
		Grain	Tame Hay & Alfalfa	Wild Hay & Fodder	Grain	Rough.	Pasture	Total		per Crop Day	per Acre of Prod. Work			
6231	-	1562	-	1400	\$14.35	\$ 4.20	\$4.04	\$22.59	13	\$1.68	\$.28	\$.63	No	Small
6021	-	1250	1125	2000	12.69	13.06	5.62	31.37	15	2.49	.41	.81	No	Small
6182	-	2165	-	3246	21.84	9.74	1.17	32.75	16	2.29	.33	.46	No	Small
6132	-	2119	-	3001	21.00	9.00	4.66	34.66	16	2.30	.41	.68	No	Medium
6161	-	2843	-	3001	25.19	9.00	3.32	37.51	19	2.38	.63	1.14	No	Medium
6152	-	2752	-	2500	28.59	7.50	3.13	39.22	16	2.78	.41	.57	No	Small
6133	4.0	2755	-	3077	28.93	9.23	2.00	40.16	18	2.05	.45	1.05	No	Small
6111	4.0	2400	-	5400	22.01	16.20	2.71	40.92	15	3.19	.57	.93	No	Small
6081	1.8	2768	3000	1072	28.49	15.40	4.46	48.35	14	4.25	.67	1.23	No	Small
6032	1.6	3516	323	5162	32.01	17.58	1.94	51.53	18	2.85	.54	.80	No	Medium
6123	-	2345	2500	3500	24.25	25.00	4.38	53.63	17	3.83	.67	.88	No	Small
6041	6.2	3976	833	4166	39.75	15.42	1.93	57.10	32	2.06	.56	.80	No	Large
Average	1.5	2537	648	3127	24.92	12.61	3.28	40.81	17	2.68	.49	.83		

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

Items	1928	1929	1930	Items	1928	1929	1930
	27	38	32		27	38	32
	Farms	Farms	Farms		Farms	Farms	Farms
Total cash receipts	\$4304	\$4925	\$4648	Increase in crops and feeds	\$ 130	\$ 671	\$ 19
Increase in inventory	391	787	-	Gross returns from cows	\$1728	\$1763	\$1366
Farm produce used in house	330	332	294	" " " other cattle	527	674	420
Total receipts	5025	6044	4942	" " " hogs	1187	1337	1208
Total cash expenses	2153	2432	2137	" " " sheep	98	81	32
Decrease in inventory	-	-	844	" " " poultry	595	644	582
Board for hired labor	112	108	109	Returns above feed per cow	\$ 60	\$ 68	\$ 38
Total expenses	2265	2540	3090	" " " " head other	"	"	"
Returns to capital & family labor	2760	3504	1852	cattle	10	20	-1
Interest on farm inventory	1186	1154	1182	" " " " 100# pork	.92	2.31	1.57
Family labor earnings	1574	2350	670	" " " " hen	2.12	2.09	1.37
Unpaid family labor	245	315	327	Feed cost per cow	\$71	\$66.	\$61.
Operator's labor earnings	1329	2035	343	" " " head other cattle	39	36	31
Average farm inventory	\$23712	\$23082	\$23648	" " " 100# pork	7.56	7.52	6.32
Acres in farm	158.2	162.7	170.0	" " " hen	1.49	1.66	1.37
Percent land tillable	70	70	71	" " " horse	56.	53.	43.
Crop acres in farm	108.5	110.8	119.0	Price rec'd per lb. B. F. (manf'g.			
Number of cows	13.25	13.00	14.04	cream)	\$.54	\$.51	\$.40
Head of young cattle	12.7	12.3	14.3	" " " 100# pork	7.96	9.51	8.77
Litters of spring pigs	7.0	6.6	7.2	" " " doz. eggs	.28	.29	.22
Litters of fall pigs	4.2	2.5	2.8	Number of pigs per litter	6.2	6.5	6.5
Pounds of pork produced	13,640	13,491	15,432	" " eggs " hen	92.0	95.0	106.
Head of sheep	4.1	10.2	8.5	Yield of corn per acre, bu.	40.7	49.6	43.4
Number of hens	164.	154.	185.	" " oats " " "	45.6	48.0	47.8
Total no. of prod. L. Stock units	31.03	29.83	31.51	" " barley per acre, bu.	38.4	36.2	27.1
Lbs. of butterfat per cow	223.	232.	228.	" " w. wheat per acre, bu.	19.7	24.0	19.5
Index of selection of high				" " alfalfa " " tons	2.8	3.3	2.9
return crops	35.4	36.2	40.9	Number of work horses	5.6	5.3	5.3
Prod. livestock units per 100 A.	20.1	19.2	19.3	Number of colts	.6	.6	.4
Number of days of productive work	541	543	599	No. of horse units (2 colts=1 horse)	5.9	5.6	5.5
No. days prod. work per worker	299	287	318				
Power, Mach., Bldg. expense per							
day of prod. work	\$1.84	\$1.62	\$1.46				