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

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THIRD ANNUAL REPORT
of the
Better Farming Club
of
Rice County

By

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Harry Hass, County Agent

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Third Annual Report of the Rice County Better Farming Club,
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 Rice County, Minnesota, have been cooperating during the years 1928, 1929, and 1930 in a farm account project, known as the Better Farming Club of Rice County. The work was started January 1, 1928, along with similar clubs in nearby counties, viz., Dodge, Goodhue, Freeborn, 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 25.

The project has been under the direction of G. A. Pond and W. P. Ranney of the Division of Agricultural Economics, University of Minnesota. Hearty support and assistance has been rendered by Harry Hass, county agricultural agent of Rice County.

Type of Farming in Rice County

The farms selected for the study are livestock farms on which dairy cattle are the principal source of income. Although some milk and cream are retailed in cities and considerable milk sold for shipment to the Twin Cities, 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 is 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 over one-fourth

of the average cash income for 36 cooperators in Rice 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. Bowen, 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 150 acres. The average farm inventory was \$22,791. This does not include the value of the house in which the operator lived. In 1930, fifty-two per cent of the average farm inventory consisted of land; seventeen per cent of permanent improvements; eight per cent of feeds and supplies; eight per cent of machinery and equipment; and

fifteen per cent of livestock, of which almost one-half or an average of \$1,624 consists of the average cow inventory.

Analysis of the Farm Business

On page 5 and 6 are presented financial summaries of the year's business, showing the average results for the 36 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 \$3822. In addition farm produce to the value of \$283 was consumed by the farm family. The total average receipts per farm is the sum of those two items, \$4,105. The average total expense per farm, \$2328, includes \$1842 cash expense, an estimated allowance of \$98 for board of hired labor, and an average inventory decrease of \$388 per farm. The difference between the total income and total expense figure is \$1777. 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, \$1139, for the services of capital, there remains \$638 for the services of the farmer and his family. The average value of family labor used, if computed at hired man's wages, was \$348. The average operator's labor earning is the family earnings less their allowance of \$348, or \$290. 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 25.

Items	Your Farm	Average	Range	
			Highest	Lowest
Size of Farm (acres)		150.1	240	64.6
Size of Business (days of prod. work) (1)		542	1062	210
Average farm inventory (without house)		\$22791	\$62295	\$9345
Land		11940	29425	4500
Farm improvements		3863	12575	1624
Machinery & equipment (total)		1751	6097	462
Gen. Machinery & equipment		1202	3761	386
Tractor		267	1425	--
Truck		50	388	--
Auto (farm share)		138	425	--
Gas Engine (farm share)		23	138	--
Electrical Equip. (farm share)		71	336	--
Feeds and seeds		1697	5599	592
Misc. supplies		33	164	--
Horses (total)		433	1040	151
Horses		378	680	151
Colts		55	360	--
Productive livestock (total)		3074	9325	652
Cows		1624	4675	398
Other cattle		836	4365	164
Hogs		440	2503	--
Sheep		36	279	--
Poultry		138	328	16

(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 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	Acre	2.1
Other cattle	Animal Unit*	7.6	(husked)		
Sheep	Animal Unit*	2.7	Corn for grain	"	2.8
Poultry	100 hens	20.1	(husk. & shred.)		
Hogs	100 lbs. pork prod.	.55	Corn for silage	"	2.6
Alfalfa	acre	1.5	Corn hogged	"	1.25
Tam & W. Hay	"	.6	Corn for fodder	"	1.8
Sm. Grain & Flax	"	1.0	Sweet corn	"	3.0
" " hogged	"	.4	Potatoes	"	6.4
Canning peas	"	2.5	Sugar beets	"	4.0

*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>	<u>Items</u>	<u>Range</u>			
		Your Farm	Average	Highest	Lowest
	Tractor (new and exp.)		\$175	\$1270	\$ -
	Truck (new and exp.)		28	345	-
	Auto (new & exp.) (farm share)		98	449	-
	Gas engine (new & exp.) (farm share)		16	157	-
	Electricity (new & exp) (farm share)		24	117	-
	Machinery & equipment (new)		160	698	-
	Machinery & equipment (exp.)		35	106	1
	Bldgs., fences, tiling (new)		105	1032	-
	Bldgs., fences, tiling (exp.)		23	125	-
	Hired labor		195	642	-
	Feed for livestock		199	825	-
	Other expense for livestock		67	245	-
	Horses bought		17	150	-
	Cows bought		41	425	-
	Other cattle bought		40	200	-
	Hogs bought		81	477	-
	Sheep bought		1	28	-
	Poultry bought		29	124	-
	Crop (seed, twine, spray)		147	344	45
	Taxes and insurance		324	747	177
	General farm		29	62	9
	(1) Total Cash expense		1842	4369	676
	(2) Decrease in farm inventory		388	1516	-
	(3) Board for hired labor		98	260	-
	(4) Total expense (sum of 1, 2, &3)		2328	5364	676
 <u>CASH RECEIPTS</u>					
	Horses		35	385	-
	Cows		250	816	-
	Dairy products		1364	2491	469
	Other cattle		246	866	37
	Sheep		13	228	-
	Hogs		1104	3821	-
	Poultry		92	277	-
	Eggs		198	879	-
	Small grain		177	1187	-
	Corn		46	340	-
	Hay		17	211	-
	Root Crops		13	71	-
	Other crops		39	467	-
	Miscellaneous		114	535	-
	Income from work off farm		114	1202	-
	(5) Total cash receipts		3822	9376	1704
	(6) Increase in farm inventory		-	510	-
	(7) Farm produce used in house		283	502	45
	(8) Total receipts (sum 5, 6, &7)		4105	9872	2024
	Total expenses (4)		2328	5364	676
	(9) Returns to cap. & fam. labor (8 minus 4)		1777	4508	490
	(10) Interest on farm inventory		1139	3115	637
	(11) Family labor earnings (9 minus 10)		638	2072	-508
	(12) Unpaid family labor		348	1440	-
	(13) Operator's labor earnings (11 minus 12)		290	1952	-1686

Summary of Farm Earnings, 1930 (A)

<u>EXPENSES AND NET DECREASES</u> Items	Your Farm	Average	Range	
			Highest	Lowest
Total power machinery & equip.		\$256	\$717	\$11
Tractor		86	447	-
Truck		34	186	-
Auto (farm share)		94	243	-
Gas engine (farm share)		16	88	-
Elec. plant or current (farm share)		26	112	-
Gen. machinery & equipment		137	408	91
Bldgs., fencing, tiling		150	371	-28
Hired labor		195	642	-
Prod. livestock misc. expense		65	245	-
Misc. horse expense		2	22	-
Crop		147	344	48
Taxes and Insurance		324	747	177
General farm		29	62	9
Decrease in crops and feeds		75	1433	-
Decrease in horses		19	120	-
Board for hired labor		98	260	-
Interest on farm inventory		1139	3115	467
Unpaid family labor		348	1440	-
(1) Total expenses		2962	7180	1624
<u>RETURNS AND NET INCREASES</u>				
Items				
Increase in crops and feeds		-	953	-
Gross returns from all prod. livestock		3392	6977	685
Cows (including milk to other livestock)		1580	2984	426
Other cattle		468	2184	69
Hogs		1010	3744	-
Sheep		19	201	-
Poultry		315	1258	9
Outside and misc. receipts		143	1238	-
Increase in horses		-	160	-
(2) Total returns and net increases		3535	7779	1583
(3) Milk produced and fed on farm		283	511	14
(4) Gross returns (2 minus 3)		3252	7313	1247
Total expenses (1)		2962	7180	1624
(5) Operator's labor earnings (4 minus 1)		290	1952	-1686
Gross returns per \$100 expense		114	181	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 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 farmer who excelled in seven factors had earnings of \$1465 above the average of two farmers who did not excel in more than one factor.

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
Seven	1		XXXXXXXXXXXXXXXXXXXXXXXXXXXX	\$1054
Six	6		XXXXXXXXXXXXXXXXXXXX	711
Five	9		XXXXXXXXXXXXXXXX	654
Four	5		XXXX	179
Three	6		X	-64
Two	7		X	-65
One	2		XXXXXXX	-411

The array in Chart 1 suggests that it will be worth while for each operator 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. of Crop Yields	Index of Selection of High Crops	Index of Prod. Live-stock units per 100 Acres	Size of Business No. of days of Work	Days of Work per Worker	Farm Power Mach. & Eq., Bldg. & Fenc. Exp. per day of Prod. Work	
4087	\$1952	\$87	286	84	23.7	21.9	586	373	\$.89
4091	1214	67	223	97	37.1	24.8	499	359	1.02
4183	1195	53	250	86	33.8	30.4	557	268	.80
4231	1082	80	278	129	38.8	19.7	311	243	2.17
4012	1054	58	307	112	54.0	27.6	838	392	1.69
4031	1019	37	239	95	33.4	16.8	411	282	.71
4164	938	53	246	95	34.7	21.1	637	449	1.34
4171	753	73	269	103	45.5	19.3	493	269	1.26
4025	653	72	367	85	28.0	23.2	465	335	1.74
4024	642	117	355	101	34.5	20.4	301	180	1.70
4112	626	64	300	120	10.3	20.8	604	268	1.06
4194	562	47	231	111	44.7	15.1	521	250	1.05
4011	534	33	205	83	30.3	16.3	713	427	1.57
4163	493	13	197	113	35.8	23.6	579	267	.94
4121	376	52	234	115	34.3	22.3	632	261	1.38
4032	340	46	182	68	35.4	11.8	403	312	1.21
4083	254	50	277	98	28.0	19.3	738	355	1.76
4086	242	49	267	97	25.5	21.1	649	295	1.02
4134	188	54	307	91	20.4	22.0	308	250	1.04
4061	134	33	265	129	31.5	24.2	1062	358	1.41
4051	130	44	277	99	26.1	26.8	873	523	1.43
4161	125	48	291	107	29.1	20.8	556	275	1.56
4062	117	27	181	88	34.7	22.2	405	183	1.22
4151	102	29	189	85	27.5	11.3	406	379	1.16
4221	96	32	203	116	42.8	12.5	210	176	1.82
4182	50	65	270	78	26.3	13.6	401	278	2.00
4191	46	39	243	83	24.7	15.0	688	220	1.72
4162	-3	61	244	105	22.7	20.1	426	221	1.45
4132	-53	34	260	103	33.3	8.3	279	152	2.05
4084	-181	53	287	90	45.4	12.7	539	262	1.55
4195	-326	54	306	91	32.4	18.8	586	242	1.63
4026	-378	21	243	105	22.6	19.5	601	343	1.43
4232	-407	8	143	74	13.5	21.9	426	341	1.34
4135	-573	-7	242	94	42.1	21.2	457	289	1.71
4193	-868	28	236	87	26.8	18.5	719	280	1.49
4021	-1686	20	209	87	27.6	19.9	624	209	1.91
Average	290	47	253	97	31.6	19.6	542	294	1.42
High	1952	117	367	129	54.0	30.4	1062	523	.71
Low	-1686	-7	143	68	10.3	8.3	210	152	2.17

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 36 farms included in this summary are located between the two lines across the center of the page:

Oper. Labor Earn.	Returns above 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. Work	Size of Business No. of Days of Work	Days of Work per Worker	Farm Power, Mach. & Eq., Bldg. & Fenc. Ex. per Day of Prod. Work
\$1952	\$117	367	129	52.0	30.4	1062	523	\$.71
1290	87	328	117	46.6	27.1	792	394	.92
1090	79	313	113	43.6	25.6	742	374	1.02
890	71	298	109	40.6	24.1	692	354	1.12
690	63	283	105	37.6	22.6	642	334	1.22
490	55	268	101	34.6	21.1	592	314	1.32
290	47	253	97	31.6	19.6	542	294	1.42
90	39	238	93	28.6	18.1	492	274	1.52
-110	31	223	89	25.6	16.6	442	254	1.62
-310	23	208	85	22.6	15.1	392	234	1.72
-510	15	193	81	19.6	13.6	342	214	1.82
-710	7	178	77	16.6	12.1	292	194	1.92
-1686	-7	143	68	10.3	8.3	210	152	2.17

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.	8 farms from 194 to 240 A.				15 farms from 139 to 163 A.				
	No. of farms growing this crop	Acres per farm		No. of farms growing this crop	Acres per farm		No. of farms growing this crop	Acres per farm	
		Your farm	Aver- age for those growing crop		Your farm	Aver- age for those growing crop			
Winter wheat	(B) 2	6.0	24.0	3	3.4	17.0			
Spring wheat	(C) -	-	-	3	1.5	7.7			
Oats	(D) 8	27.9	27.9	11	11.7	16.0			
Barley	(C) 7	14.9	17.0	14	12.8	13.7			
Rye	(D) -	-	-	3	3.1	15.7			
Flax	(B) 2	2.1	8.5	-	-	-			
Wheat & oats	(C) 2	1.6	6.5	5	2.9	8.6			
Oats & barley	(C) 6	17.4	23.2	12	14.5	18.1			
Flax & wheat	(B) 1	1.5	12.0	3	2.3	11.3			
Total grain			71.4			52.2			
Corn, grain	(B) 8	33.3	33.3	15	20.5	20.5			
Corn, silage	(C) 8	16.0	16.0	14	9.7	10.4			
Corn, fodder	(D) 1	.2	2.0	10	3.1	4.6			
Sweet corn	(B) -	-	-	2	.1	.5			
Potatoes	(A) 5	.6	1.0	3	.6	.7			
Summer fallow	1	.8	7.0	12	1.0	5.2			
Total cultivated crops			50.9			35.0			
Alfalfa	(A) 8	8.8	8.8	12	8.6	10.8			
Red clover	(B) 2	2.5	10.0	2	.7	5.0			
Other leg. & mixtures	(C) 3	9.0	24.0	8	6.2	11.6			
Timothy	(D) 5	6.6	10.5	2	1.9	14.0			
Annual hay crops	(D) 1	.8	6.0	1	.7	10.0			
Wild hay (till. land)	(D) 1	.2	2.0	2	1.0	7.5			
Wild hay (non-till. land)	1	3.0	24.0	7	5.0	10.9			
Total hay			30.9			24.1			
Total crop acreage			153.2			111.3			
Sweet clover pasture	(B) 4	6.0	12.0	6	3.8	9.4			
Alfalfa pasture	(A) 1	.1	1.0	5	1.8	5.4			
Red clov. or rape past(hogs)	(B) 2	.4	1.6	1	.2	3.0			
Misc. legume pasture	(C) 2	7.1	28.4	-	-	-			
Other tillable pasture	(D) 5	11.9	19.1	11	10.9	14.8			
Non-tilla. pasture	7	23.9	27.3	14	15.4	16.5			
Total pasture			49.4			32.1			
Timber (not pastured)	2	6.3	25.0	3	2.7	13.3			
Roads & waste	-	6.6	-	-	4.3	-			
Farmstead	-	5.1	-	-	4.6	-			
Total acres in farm			220.6			155.0			
% land tillable			80.0			79.3			
Index of tillable land in high return crops			30.1			31.3			

Utilization of Land and Yield 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.	13 farms from 64 to 128 A.			Yield per acre					
	No. of farms	Acres per farm	Your	Aver- age	Aver.	Your farm	Aver- age	High- est	Low- est
Winter wheat	(B) 1	1.2	15.0	18.0	26.8	6.0			
Spring wheat	(C) 3	.7	2.8	24.2	32.8	13.6			
Oats	(D) 8	6.2	10.1	55.6	83.6	32.3			
Barley	(C) 7	3.4	6.4	36.1	52.0	22.7			
Rye	(D) 1	.7	10.0	20.5	35.5	11.6			
Flax	(B) 1	.1	3.0	15.5	17.4	14.0			
Wheat & oats	(C) 4	3.0	9.6	31.4	55.0	20.0			
Oats & barley	(C) 9	11.5	16.6	44.5	66.0	28.0			
Flax & wheat	(B) -	-	-	14.8	20.0	9.3			
Total grain			26.8						
Corn, grain	(B) 13	16.2	16.2	47.2	75.0	23.2			
Corn, silage	(C) 13	7.7	7.7	8.4	13.3	4.6			
Corn, fodder	(D) 6	1.9	4.1	2.6	4.8	1.3			
Sweet corn	(B) 2	.7	5.0	2.2	3.8	.7			
Pop corn	(B) 1	.4	5.5	181.8	181.8	181.8			
Potatoes	(A) 11	.5	.6	72.2	300.0	8.0			
Summer fallow	1	.3	4.0	-	-	-			
Total cultivated crops			27.7						
alfalfa	(A) 10	5.2	6.7	2.6	7.0	1.1			
Red clover	(B) 2	.9	6.0	1.6	2.3	1.0			
Other leg. & mixtures	(C) 7	5.5	10.2	1.8	3.6	1.1			
Timothy	(D) 1	.2	2.0	1.6	2.3	1.0			
Annual hay crops	(D) 4	1.2	3.8	1.6	3.0	.8			
Wild hay (till.land)	(D) 3	.7	3.3	1.4	1.7	.5			
Wild hay (non-till.land)	4	2.8	9.3	1.4					
Total hay			16.5						
Total crop acreage			71.0						
Sweet clover pasture	(B) 5	3.5	9.2	1. Tile if necessary.					
Alfalfa pasture	(A) 5	.7	1.9	2. Plow under legumes--grow					
Red clover or rape past.(hogs)	(B) 1	.1	1.0	sweet clover in small grains.					
Misc. legume pasture	(C) 1	.1	1.0	3. Try commercial fertilizers.					
Other tillable pasture	(D) 7	5.6	10.4	4. Utilize manure effectively.					
Non-tillable pasture	10	12.1	15.8	5. Use rotated legume pastures					
Total pasture		22.1		6. Raise & feed hogs on these					
Timber (not pastured)	4	.2	6.5	pastures & hog down corn.					
Roads and waste	-	2.9	-	7. Keep plenty of livestock.					
Farmstead	-	3.2	-	8. Grow recommended varieties					
Total acres in farm		101.2		of crops.					
% land tillable		77.5		9. Use the best tested seed					
Index of tillable land in				available.					
high return crops		33.0		10. Thorough & timely seedbed					
				preparation--keep weeds					
				under control.					

Summary of Amount of Livestock

	Your Farm	Average	Range	
			Highest	Lowest
<u>8 Large Farms; 194 to 240 Acres</u>				
Number of horses (with tractors) (8 farms)		4.9	6.0	4.0
Number of colts		.8	3.2	0.0
Number of cows		17.6	23.7	12.3
Number of cows per worker		8.6	14.2	3.9
Head of other cattle		24.6	47.3	14.6
Litters of pigs raised		12.1	23.0	2.0
Pounds of pork produced	21,293.0		47,281.0	15,274.0
Head of sheep (2 lambs equal to 1 head)		8.3	50.0	0.0
Number of hens		117.0	174.0	63.0
Total number of prod. livestock units		41.8	58.1	27.4
<u>15 Medium-sized Farms; 139 to 163 Acres</u>				
Number of horses (with tractors) (9 farms)		4.8	5.0	4.3
Number of horses (without tractors) (6 farms)		5.3	6.4	4.0
Number of colts		.4	1.5	0.0
Number of cows		14.9	21.3	5.1
Number of cows per worker		9.6	12.5	4.9
Head of other cattle		12.9	18.8	2.0
Litters of pigs raised		8.5	20.0	3.0
Pounds of pork produced	12,103.0		28,575.0	4,215.0
Head of sheep (2 lambs equal to 1 head)		2.3	21.6	0.0
Number of hens		127.0	271.0	24.0
Total number of prod. livestock units		28.7	44.6	12.0
<u>13 Small Farms; 64 to 128 Acres</u>				
Number of horses (with tractors) (2 farms)		3.3	3.5	3.0
Number of horses (without tractors) (11 farms)		4.1	5.8	2.7
Number of colts		.2	1.0	0.0
Number of cows		11.4	15.9	5.0
Number of cows per worker		7.3	12.7	3.9
Head of other cattle		10.2	13.1	4.6
Litters of pigs raised		5.7	12.0	0.0
Pounds of pork produced	7,439.0		14,114.0	0.0
Head of sheep (2 lambs equal to 1 head)		3.4	19.8	0.0
Number of hens		97.0	241.0	5.0
Total number of prod. livestock units		21.6	30.4	8.1

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

Farm No.	B. F. per Cow	Feed Per Cow - Lbs.										Total Digest	Total Digest	% Protein in Ration	% Cows Fresh Sept. to Dec. inclusive	
		Corn Grain	Corn Feeds under 25% Protein	Corn Feeds over 25% Protein	Tame Hay	Alfalfa	Wild Hay	Corn Fodder	Silage	Total Con-	Total Dry Rouse					Nutr- ients
4025	367	-	2179	351	512	2450	1369	-	2450	4755	3042	6269	5978	16.3	15.8	64
4024	355	476	1540	68	-	227	2039	-	1133	8834	2084	3399	4639	13.1	13.2	90
4134	307	117	2062	991	245	4429	-	-	699	11072	3415	5128	6818	22.2	12.8	62
4012	307	536	1361	232	130	-	2532	-	1547	9939	2259	4079	5387	17.5	14.5	41
4195	306	-	1753	159	-	-	1648	-	2076	8364	1912	3724	4527	14.8	13.0	67
4112	300	-	2070	36	167	1747	4193	-	1126	5009	2273	7066	6029	20.1	16.2	67
4161	291	-	2073	517	262	-	2483	-	3793	13793	2852	6276	6874	23.6	14.7	50
4084	287	-	2142	-	-	-	4484	-	-	8969	2142	4484	5363	18.7	17.2	93
4087	286	453	1630	512	92	828	700	-	255	9675	2687	1783	4456	15.6	13.5	68
4231	278	-	1681	-	5	-	2936	-	1686	1012	1686	4622	5285	19.0	14.1	63
4083	277	208	2163	-	30	-	3563	-	643	9005	2401	4206	5447	19.7	15.6	88
4051	277	-	1796	-	499	169	2028	-	-	12506	2295	2197	4947	17.9	16.3	78
4182	270	-	2203	215	51	2684	282	-	1554	8051	2469	4520	5435	20.1	13.6	77
4171	269	618	1459	-	56	-	2174	-	121	5395	2133	2295	3653	13.6	16.0	93
4086	267	296	2785	31	93	1244	1296	-	1452	7776	3205	3992	5542	20.8	13.4	86
4061	265	172	1705	29	4	2052	491	-	-	9367	1910	2543	4226	15.9	13.4	68
4132	260	650	1451	236	28	-	2559	-	1673	3937	2365	4232	4418	17.0	14.9	71
4183	250	167	802	701	-	727	694	-	2974	6874	1670	4395	4388	17.6	12.5	80
4164	246	348	2404	113	128	-	2372	-	-	6438	2993	2372	4579	18.6	16.0	50
4162	244	-	1495	-	-	253	1852	589	2020	9176	1495	4714	5003	20.5	12.3	92
4191	243	827	1363	-	137	3163	1135	-	649	6975	2327	4947	5364	22.1	13.1	30
4026	243	-	2185	73	56	1786	446	167	2121	13951	2314	4520	6032	24.8	10.8	73
4135	242	-	1919	-	-	298	2170	-	2638	11830	1919	5106	5786	23.9	12.5	0
4031	239	296	1879	-	29	-	3252	-	1028	5563	2204	4280	4628	19.4	16.1	60
4193	236	-	1583	6	30	-	1070	-	1069	10220	1619	2139	3910	16.6	12.0	76
(Continued on next page)																
Aver- age	253	250	1570	148	80	905	1833	62	1288	7929	2048	4088	4840	19.4	14.0	64

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

Farm No.	B. F. per Cow	Feed Per Cow - Lbs.										Total Digest Nutr-ients	Total Digest Nutr-ients per lb.B.F.	% Pro-tein in Ration	% Cows Fresh Sept. to Dec. inclusive	
		Corn Grain	Corn Feeds under 25% Protein	Corn Feeds over 25% Protein	Tame Hay	Alfalfa	Wild Hay	Corn Fodder	Silage	Total Con-ten.	Total Dry Roug-hage					
4121	234	380	369	318	-	-	2177	693	1930	7818	1067	4800	4318	18.5	13.0	50
4194	231	-	1884	26	22	-	2460	528	-	8875	1932	2988	4268	19.3	14.6	54
4091	223	-	914	349	67	-	1478	-	2957	9140	1330	4235	4509	20.2	12.5	94
4041	209	1890	1411	-	-	1303	2005	-	2206	4078	3301	5514	5753	27.5	13.1	79
4011	205	328	1735	150	48	1910	119	-	358	6209	2261	2387	3855	18.8	12.7	18
4221	203	963	466	-	-	50	3050	100	960	4400	1429	4160	3395	16.7	17.4	100
4163	197	-	543	-	48	-	1800	-	1440	9718	591	3240	3631	18.4	13.0	74
4151	189	-	1533	-	-	2271	46	-	-	9639	1533	2317	3920	20.7	10.7	44
4032	182	-	641	-	-	392	2039	157	2431	-	641	5019	2852	15.7	15.5	15
4062	181	275	1112	210	123	2632	1544	-	912	10457	1720	5088	5554	30.7	14.2	86
4232	143	-	221	-	-	1978	1507	-	470	6592	221	3955	3258	22.8	12.8	0
Average	253	250	1570	148	80	905	1833	62	1288	7929	2048	4088	4840	19.4	14.0	64

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	
		Con- cen.	Rough.	Pasture	Total Cost		B. F. Sales	Dairy Prod.	Milk to Live- House stock	Apprec. or Deprec.	Total Value of Prod.		Sold as Manufac- turing Cream	Sold as Milk, Cheese, or Retail Cream
4025	367	\$38.73	\$37.36	\$7.15	\$83.24	22.7	\$158.81	\$3.59	\$13.26	\$-4.84	\$170.82	\$87.58	\$ -	\$.47
4024	355	20.63	34.20	7.14	61.97	17.5	120.68	12.11	28.14	-11.33	149.60	87.63	.39	-
4134	307	38.78	42.89	6.39	88.06	28.7	112.37	5.74	28.35	-13.65	132.81	44.75	.39	-
4012	307	24.89	41.26	7.57	73.72	24.0	116.79	3.88	21.85	-2.60	139.92	66.20	.40	.43
4195	306	18.45	33.79	5.83	58.07	19.0	113.36	1.37	23.79	-13.25	125.27	67.20	.38	-
4112	300	24.60	47.51	6.40	78.51	26.2	112.30	2.92	28.93	.42	144.57	66.06	.40	-
4161	291	32.47	55.79	4.25	92.51	30.5	159.29	3.49	13.05	-32.99	142.84	50.33	.41	.62
4084	287	22.16	47.08	5.30	74.54	26.0	101.78	3.29	22.58	-9.46	118.19	43.65	.38	-
4087	286	30.32	29.09	7.34	66.75	23.4	128.01	2.92	4.21	-16.53	118.61	51.86	-	.47
4231	278	15.77	46.07	5.49	67.33	24.2	99.11	9.95	24.86	-22.04	111.88	44.55	.41	-
4083	277	22.79	43.74	7.39	73.92	26.7	105.06	2.65	21.86	-19.61	109.96	36.04	.40	-
4051	277	32.10	38.95	6.40	77.45	28.0	102.30	1.41	21.58	-24.45	100.84	23.39	.38	-
4182	270	26.38	36.86	6.04	69.28	25.7	107.89	7.31	14.39	-54.25	75.34	6.06	-	.48
4171	269	22.24	25.40	6.08	53.72	20.0	98.52	7.06	24.92	8.45	138.95	85.23	.40	.93
4086	267	32.22	33.72	6.45	72.39	27.1	96.50	3.69	20.07	-5.42	114.84	42.45	.40	-
4061	265	17.96	33.21	5.90	57.07	21.5	96.47	6.13	20.79	-12.24	111.15	54.08	.39	-
4132	260	24.33	28.25	8.05	60.63	23.3	110.08	7.43	17.83	-25.30	110.04	49.41	.40	1.34
4183	250	19.10	27.68	7.60	54.38	21.8	85.37	3.84	22.35	-16.92	94.64	40.26	.40	-
4164	246	30.72	28.29	5.92	64.93	26.4	83.67	7.49	26.85	5.42	123.43	58.50	.40	-
4162	244	14.04	41.00	6.42	61.46	25.2	91.15	4.73	23.22	-3.04	116.06	54.60	.40	-
(Continued on next page)														
Aver- age	253	21.78	36.28	6.64	64.70	25.9	96.43	4.89	19.42	-10.28	110.46	45.76	.40	.66

Feed Costs and Returns for Dairy Cows - 1938 (per cow basis) -continued

Farm No.	B. F. per Cow	Feed per Cow			Feed Cost per B. F. (Cents)	Value of Produce per Cow					Returns above Feed Cost per Cow	Price Rec'd. per Lb. B. F. Sold		
		Con- cen.	Rough.	Pasture Cost		Total Cost	B. F. Sales	Dairy Prod. in House	Milk to Live- stock	Apprec. or Deprec. of Prod.		Total Value Prod.	Sold as Manufac- turing Cream	Sold as Milk, Cheese, or Retail Cream
4191	243	\$25.42	\$37.27	\$7.33	\$70.02	28.8	\$89.42	\$6.29	\$20.19	\$1.09	\$116.99	\$46.97	\$.41	\$ -
4026	243	23.40	44.25	7.29	74.94	30.8	89.28	6.31	14.20	-10.55	99.24	24.30	.40	•
4135	242	18.43	47.11	6.75	72.29	29.9	113.43	4.11	3.70	-9.31	111.93	39.64	-	.50
4031	239	22.44	34.61	6.00	63.05	26.4	89.79	6.14	18.20	-7.13	107.00	43.95	.39	1.06
4193	236	15.60	30.07	6.57	52.24	22.1	81.01	2.66	26.52	-5.70	104.49	52.25	.39	-
4121	234	12.28	37.26	7.57	57.11	24.4	96.44	3.00	16.96	-.15	116.25	59.14	.45	-
4194	231	18.43	35.32	6.44	60.19	26.1	78.26	5.00	21.90	-9.81	95.35	35.16	.39	-
4091	223	15.44	37.03	5.71	58.18	26.1	87.77	3.19	14.73	.87	106.36	48.18	.39	-
4041	209	36.12	31.67	7.86	75.65	36.2	74.94	4.41	19.54	-4.57	94.32	18.67	.40	-
4011	205	22.90	23.28	7.13	53.31	26.0	61.88	5.20	29.55	.62	97.25	43.94	.39	-
4221	203	14.95	30.54	7.00	52.49	25.9	93.72	5.71	2.85	-17.00	85.28	32.79	-	.51
4163	197	6.38	35.93	8.59	50.90	25.8	64.37	7.42	21.76	-15.60	77.95	27.05	.38	-
4151	189	14.91	29.50	6.68	51.09	27.0	67.77	3.33	17.30	-5.56	82.84	31.75	.39	-
4032	182	6.27	22.51	6.50	35.28	19.4	78.75	1.98	4.07	1.57	86.37	51.09	-	.47
4062	181	20.22	46.82	5.35	72.39	40.0	57.88	5.82	23.75	-2.81	84.64	12.25	.38	-
4232	143	2.08	30.70	7.18	39.96	27.9	47.09	4.49	21.09	-12.24	60.43	20.47	.40	-
Average	253	21.78	36.28	6.64	64.70	25.9	96.43	4.89	19.42	-10.28	110.46	45.76	.40	.66

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			
4032	300	-	3500	1500	-	\$2.97	\$20.25	\$25.95	\$ -	\$49.17	\$95.50	\$16.33	50
4182	538	1271	1895	532	495	5.56	10.12	9.59	2.10	27.37	68.31	40.94	-
4231	60	1504	3750	208	2015	.59	15.87	8.05	2.94	27.45	60.72	33.27	-
4087	197	577	4744	270	-	2.25	12.02	4.24	1.91	20.42	51.93	31.51	32
4024	363	1221	4275	241	5219	3.59	14.43	18.18	3.47	39.67	71.58	31.41	-
4091	295	2295	1312	2	1142	3.25	11.89	2.90	2.47	20.51	45.87	25.36	33
4051	441	1417	2410	48	1987	4.30	10.28	5.78	1.92	22.28	46.17	23.89	11
4084	447	2329	5562	314	1767	4.85	22.26	9.34	.79	37.22	55.80	18.58	-
4062	235	1133	1466	720	3244	2.31	8.65	19.99	1.36	32.31	48.13	15.82	40
4134	234	797	1416	189	2085	2.45	5.58	8.48	2.26	18.77	32.42	13.65	-
4162	154	1142	2047	104	1387	1.59	8.35	5.39	2.40	17.73	28.17	10.44	-
4221	289	978	435	154	-	3.39	6.96	3.10	3.60	17.05	27.15	10.10	-
4083	130	2000	2378	230	2599	1.28	11.92	10.29	2.54	26.03	34.06	8.03	11
4025	336	2823	2258	702	-	3.49	16.33	11.30	2.83	33.95	40.13	6.18	8
4121	160	1316	2500	385	580	1.82	11.38	9.34	2.88	25.42	29.61	4.19	13
4183	138	1598	1967	615	1544	1.69	7.64	14.00	2.57	25.90	28.22	2.32	16
4195	151	1862	1224	105	3445	1.50	7.85	10.27	1.22	20.84	23.09	2.25	5
4132	613	1310	1896	171	1869	5.51	10.71	8.51	2.86	27.59	29.47	1.88	52
4232	100	2477	4496	637	2367	1.03	20.37	16.68	3.17	41.25	42.67	1.42	-
4041	1097	1709	1345	180	901	11.95	8.31	5.59	2.97	28.82	30.14	1.32	4
4161	589	3036	4405	125	1161	7.68	21.25	4.87	.89	34.69	35.51	.82	24
4171	908	793	1220	427	1773	9.58	6.28	11.48	2.70	30.04	30.67	.63	24
4194	346	541	2703	553	814	3.42	8.50	11.16	2.96	26.04	26.62	.58	18
4163	-	1015	3158	349	1293	-	10.68	8.81	3.13	22.65	21.28	-1.37	8
4193	261	1158	2737	482	1688	2.46	8.26	14.09	2.07	26.88	24.27	-2.61	-
(Continued on next page)													
Age	345	1603	2727	355	1636	3.63	12.81	10.16	2.35	28.95	34.10	5.15	16

Feed Costs and Returns for Young Cattle - 1930 -continued

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			
4086	265	2200	3534	533	1181	\$2.70	\$15.12	\$11.58	\$1.90	\$31.30	\$26.71	\$-4.59	20
4164	380	588	2353	684	1288	3.49	7.43	14.23	1.72	26.87	21.74	-5.13	-
4112	354	1856	2614	414	2551	3.71	12.41	13.04	2.00	31.16	25.92	-5.24	6
4191	200	2196	2659	169	984	1.87	12.89	5.58	3.03	23.37	13.13	-7.24	12
4031	243	2000	1493	134	2012	2.60	15.38	7.24	2.04	27.26	19.32	-7.94	13
4011	829	1938	2481	643	1375	8.79	12.21	14.05	5.16	38.21	29.82	-8.39	4
4151	160	875	5000	338	3515	1.70	13.94	14.36	3.04	33.04	22.10	-10.94	25
4026	246	1667	2281	149	3681	2.58	9.56	12.56	1.85	26.55	6.06	-20.49	28
4012	712	2461	4256	202	2250	7.23	21.59	9.12	2.66	40.60	17.28	-23.32	42
4061	354	2408	2593	39	678	3.71	19.01	2.35	2.08	27.15	3.76	-23.39	30
4135	279	3219	6003	235	-	3.72	25.36	3.78	2.97	35.83	11.27	-24.56	35
Average	345	1603	2727	355	1636	3.63	12.81	10.16	2.35	28.95	34.10	5.15	16

Factors of Cost in Pork Production - 1930

Farm No.	Lbs. of Feed per 100 Lbs. of Pork			Value of Feed per Lbs.				Returns above Feed Cost per 100 Lbs. Pork Sold	Price Rec'd. per 100 Lbs. Pork Sold	Total No. of Lit- ters	Aver. No. of pigs per Litter	Lbs. of Pork Prod.			
	Corn Grain	Small Com. Feeds	Total Grain & Com. Feeds	Tank, milk	Skim- milk	Grain & Com. Feeds	Tank. & Skim- milk						Pasture Total		
4112	131	120	-	251	-	715	\$2.62	\$1.79	\$.16	\$4.57	\$4.90	\$9.64	7	6.3	14380
4162	150	96	2	250	-	980	2.61	2.45	.19	5.25	3.97	10.11	8	9.0	7151
4087	138	151	36	325	-	-	3.60	-	.28	3.88	3.85	8.17	10	7.5	12597
4231	187	163	-	350	5	169	3.45	.60	.26	4.31	3.76	8.80	7	7.9	14060
4183	160	98	-	258	-	566	2.54	1.41	.20	4.15	3.65	8.49	7	6.0	14114
4086	188	118	-	306	-	707	2.97	1.77	.12	4.86	3.46	9.26	8	7.0	12710
4151	269	292	2	563	-	591	5.87	1.48	.28	7.63	3.30	10.51	3	7.0	4865
4171	169	145	11	325	-	607	3.66	1.52	.24	5.42	3.25	9.31	12	8.5	14030
4012	234	154	14	402	1	509	4.12	1.32	.13	5.57	2.99	10.04	20	6.1	28575
4195	77	156	-	233	-	1063	2.27	2.66	.20	5.13	2.99	8.68	7	5.4	7400
4083	280	50	-	330	-	613	3.43	1.53	.23	5.19	2.91	8.82	12	5.1	15775
4121	218	166	3	387	-	482	3.78	1.20	.21	5.19	2.66	8.27	10	7.2	16115
4191	385	102	-	487	1	222	4.87	.59	.16	5.62	2.64	8.71	16	7.9	27190
4194	308	153	4	465	-	235	4.67	.59	.22	5.48	2.54	8.58	12	4.5	12100
4164	255	226	12	493	1	608	4.66	1.56	-	6.22	2.37	9.23	8	7.6	17360
4061	359	41	6	406	-	499	4.26	1.25	.12	5.63	2.29	8.31	23	7.3	47281
4084	299	53	-	352	2	479	3.77	1.28	.15	5.20	2.25	8.73	9	5.8	13274
4091	290	48	-	338	-	662	3.44	1.65	.20	5.29	2.16	8.15	7	5.4	9659
4011	259	155	2	416	-	515	4.08	1.29	.27	5.64	2.10	8.98	12	5.8	17959
4031	367	181	-	548	-	481	5.39	1.20	.22	6.81	1.83	10.03	8	6.0	10708
4025	377	206	-	583	5	332	5.89	.57	.17	6.63	1.55	8.67	9	5.6	11013
4026	293	201	-	494	-	499	4.95	1.25	.21	6.41	1.53	8.57	11	4.1	12799
4032	413	158	14	585	6	-	6.35	.23	.17	6.75	1.27	8.71	9	5.3	8398
4041	451	55	-	506	-	321	5.25	.83	.20	6.28	1.16	8.98	10	6.4	15785
4134	170	157	118	445	-	949	4.66	2.40	.16	7.22	1.12	9.41	2	7.5	6124
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Aver- age	314	141	8	463	1	513	4.71	1.30	.20	6.21	1.87	8.91	8.6	6.7	13606

Factors of Cost in Pork Production - 1930 - continued

Farm No.	Lbs. of Feed per 100 lbs. of Pork			Value of Feed per 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 Produced				
	Corn	Small Com. Grain Feeds	Total Grain & Com. Feeds	Tank.	Skim- milk	Grain & Com. Feeds						Tank, Pasture & Skim- milk			
4182	544	81	-	625	2	15	\$6.28	\$3.09	\$.33	\$6.70	\$.91	\$7.78	3	8.3	6146
4193	392	263	1	656	-	328	6.45	.82	.23	7.50	.50	8.96	13	4.5	18735
4163	510	193	-	703	1	618	6.95	1.59	.32	8.86	-.40	8.93	12	8.8	15441
4132	436	260	-	696	-	353	6.74	.88	.35	7.97	-.49	8.56	3	6.0	4215
4062	389	-	2	390	-	1578	4.39	3.94	-	8.33	-.83	9.44	-	-	3270
4161	531	185	18	734	2	422	7.46	1.14	.16	8.76	-.92	8.25	4	8.3	8450
4051	431	161	-	592	-	610	5.87	1.52	.27	7.66	-1.14	8.29	2	9.0	14345
4135	727	50	1	778	-	190	8.23	.47	.15	8.85	-2.30	8.79	-	-	6968
Average	314	141	8	463	1	513	4.71	1.30	.20	6.21	1.87	8.91	8.6	6.7	13606

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 Plus Ap-prec. or Less Deprec.	Total			
4087	63	5	\$.88	\$.02	\$.90	\$3.07	\$1.66	\$4.73	\$3.83	139	\$.27
4091	106	130	1.47	.33	1.80	2.42	3.09	5.51	3.71	127	.23
4024	123	52	1.57	.13	1.70	3.01	2.02	5.03	3.33	192	.18
4161	85	82	1.39	.20	1.59	4.56	.25	4.81	3.22	213	.27
4062	34	204	.40	.51	.91	2.84	.77	3.61	2.70	156	.22
4012	108	258	1.40	.64	2.04	3.47	1.17	4.64	2.60	164	.26
4134	103	85	1.63	.22	1.85	2.84	1.41	4.25	2.40	159	.22
4194	76	145	1.08	.36	1.44	3.08	.69	3.77	2.33	166	.22
4083	89	22	1.01	.07	1.08	2.56	.78	3.34	2.26	151	.21
4164	100	74	1.00	.18	1.18	2.89	.47	3.36	2.18	159	.22
4086	96	36	1.39	.09	1.48	2.34	1.22	3.56	2.08	110	.28
4231	114	6	1.34	.01	1.35	1.51	1.87	3.38	2.03	89	.22
4182	78	26	1.14	.06	1.20	2.98	.20	3.18	1.98	135	.28
4183	89	29	.93	.07	1.00	1.96	.89	2.85	1.85	106	.23
4025	86	-	.98	-	.98	2.12	.67	2.79	1.81	126	.20
4026	56	24	.61	.06	.67	1.15	1.05	2.20	1.53	72	.19
4162	80	100	.86	.25	1.11	1.72	.87	2.59	1.48	103	.20
4031	63	15	.90	.04	.94	1.01	1.07	2.08	1.14	66	.21
4132	71	11	.84	.03	.87	1.54	.47	2.01	1.14	90	.20
4011	96	80	1.00	.20	1.20	1.51	.74	2.25	1.05	86	.21

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Average	94	54	1.15	.14	1.29	1.87	.72	2.59	1.30	101	.22
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Feed Costs and Returns for Poultry - 1930 (per hen basis) -continued

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			
4051	35	59	\$.34	\$.15	\$.49	\$.94	\$.52	\$1.46	\$.97	54	\$.21
4171	117	15	1.26	.04	1.30	1.78	.20	1.98	.68	104	.20
4084	138	43	1.64	.11	1.75	2.03	.24	2.27	.52	112	.22
4221	102	-	1.26	-	1.26	1.28	.46	1.74	.48	70	.23
4041	75	68	1.12	.17	1.29	1.10	.59	1.69	.40	67	.21
4191	89	3	.90	.01	.91	1.27	.02	1.29	.38	73	.22
4232	30	45	.30	.12	.42	.77	-.08	.69	.27	51	.19
4151	52	-	.51	-	.51	1.04	-.32	.72	.21	65	.19
4112	129	57	2.16	.14	2.30	1.97	.42	2.39	.09	67	.37
4135	101	51	2.00	.13	2.13	1.96	.16	2.12	-.01	102	.23
4195	144	-	1.37	-	1.37	.62	.74	1.36	-.01	40	.21
4032	37	-	.39	-	.39	.44	-.27	.17	-.22	25	-
4121	54	26	.70	.07	.77	.79	-.27	.52	-.25	44	.22
4163	185	36	1.76	.09	1.85	.56	.90	1.46	-.39	39	.20
4061	120	58	1.41	.15	1.56	1.17	-.03	1.14	-.42	47	.35
4193	245	99	2.66	.25	2.91	1.18	1.30	2.48	-.43	63	.24
Average	94	54	1.15	.14	1.29	1.87	.72	2.59	1.30	101	.23

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 & Exp. per Acre of Prod. Work	Total Farm Power Exp. per Day of Prod. Work	Farms with Truck $\frac{1}{2}$ T. or larger Farms	Size		
		Grain	Tame Hay & Alfalfa	Wild Hay & Fodder	Grain	Rough.	Pasture Total							
4198	13.8	2124	-	2414	\$20.58	\$7.24	\$4.01	\$31.83	33.9	\$2.75	\$.65	\$1.49	No	Large
4112	9.8	1594	4706	-	15.51	16.47	1.75	33.73	25.1	2.72	.52	1.06	Yes	Medium
4195	10.4	2154	-	3749	22.02	11.25	2.45	35.72	26.5	3.21	.62	1.63	No	Medium
4011	13.8	1372	3793	600	13.48	18.62	4.47	36.57	34.4	2.75	.66	1.57	No	Large
4051	18.2	1646	2909	727	17.02	14.54	6.56	38.12	26.8	5.99	.83	1.43	Yes	Large
4086	-	2281	4256	-	22.00	17.73	1.50	41.23	25.8	2.65	.50	1.02	No	Medium
4083	1.6	1787	2460	7052	18.27	25.50	1.43	45.20	25.3	3.41	.70	1.76	Yes	Large
4026	5.7	2506	1887	3774	24.45	19.24	1.96	45.65	23.8	3.91	.77	1.43	Yes	Medium
4151	-	2200	5200	-	19.42	22.85	3.42	45.69	26.4	2.10	.68	1.16	No	Medium
4194	23.1	2963	616	3232	31.01	10.77	4.15	45.93	25.5	1.21	.30	1.05	No	Medium
4084	-	1959	5750	-	20.76	25.13	1.66	47.55	34.5	3.18	.79	1.55	No	Large
4191	39.0	1976	4555	2277	19.87	22.20	6.88	48.95	35.4	3.10	.80	1.72	No	Large
4161	-	2272	6800	-	21.94	27.00	1.46	50.40	21.4	3.14	.60	1.56	No	Medium
4025	11.8	1901	4412	3824	18.86	30.59	2.94	52.39	24.5	3.13	.49	1.74	No	Small
4041	-	2376	5600	1600	27.17	24.60	1.35	53.12	23.4	3.94	.74	1.91	No	Large
4121	12.3	3910	-	5265	38.07	15.07	.67	53.81	17.1	4.50	.61	1.38	Yes	Medium
4061	6.1	1956	5715	408	19.10	33.06	1.83	53.99	39.1	3.05	.52	1.41	Yes	Large
4164	-	4635	3478	-	42.59	13.90	1.20	57.69	27.6	3.62	.72	1.34	No	Medium
4231	-	2334	4952	6857	22.69	35.43	-	58.12	17.7	5.81	1.15	2.17	No	Small
Average	8.7	2313	3531	2204	22.88	20.59	2.62	46.09	27.1	3.38	.67	1.49		

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 Acres of Prod. Work		Total Farm Power Exp. per Day of Prod. Work	Farms with Truck $\frac{1}{2}$ T. or Larger	Size of Farms
		Grain	Tame Hay & Alfalfa & Fodder	Wild Hay	Grain	Rough.	Pasture	Total		Acres	Prod. Work			
4134	-	467	250	1250	\$5.12	\$3.00	\$4.38	\$12.50	12.1	\$1.31	\$1.20	\$1.04	No	Small
4162	-	1330	-	1724	12.77	5.17	2.45	20.39	13.8	2.22	.42	1.43	No	Small
4087	8.1	1560	646	2582	16.49	9.03	4.84	30.36	17.9	1.69	.29	.89	No	Medium
4103	1.7	2635	-	3814	19.00	10.34	1.31	30.65	15.7	2.65	.42	.94	No	Medium
4183	-	1530	500	5000	16.20	15.00	1.08	32.28	16.1	2.31	.27	.80	No	Small
4062	20.0	2176	200	4200	18.34	15.23	-	33.57	17.8	1.89	.33	1.22	No	Small
4171	16.7	2227	1917	-	22.76	10.42	3.61	36.19	20.0	2.02	.41	1.26	No	Small
4132	-	2060	2864	3182	20.20	19.77	.76	40.73	20.1	2.47	.78	2.05	No	Medium
4091	-	2855	500	3500	26.97	12.25	2.08	41.30	18.1	3.00	.43	1.02	No	Small
4135	-	3155	102	5307	29.93	16.17	1.70	47.80	17.3	4.14	.77	1.71	No	Small
4232	7.0	1995	6745	-	19.11	32.22	1.23	52.56	20.1	2.96	.56	1.34	No	Small
4031	-	2829	2146	5854	28.24	24.68	-	52.92	20.2	2.92	.59	.71	No	Small
4032	9.1	3943	182	3272	41.91	6.64	5.73	54.28	19.2	3.16	.75	1.21	No	Medium
4024	-	3422	3704	2963	35.65	22.59	1.76	60.00	21.1	3.30	.63	1.70	No	Small
4221	-	1344	7083	1150	13.07	47.76	2.13	62.96	15.0	6.18	1.38	1.82	No	Small
4182	11.1	4100	4555	-	38.41	22.42	3.71	64.54	28.9	2.54	.73	2.00	No	Medium
4012	9.9	2177	5492	3474	20.26	48.47	4.31	73.04	20.0	4.50	.69	1.69	Yes	Medium
Average	4.9	2306	2170	2781	22.61	18.89	2.38	43.88	18.5	2.90	.57	1.34		

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

Items	1928	1929	1930	Items	1928	1929	1930
	29 Farms	37 Farms	36 Farms		29 Farms	37 Farms	36 Farms
Total cash receipts	\$3655	\$4072	\$3822	Increase in crops and feeds	\$357	\$539	\$ -
Increase in inventory	383	761	-	Decrease in crops and feeds	-	-	75
Farm produce used in house	302	302	283	Gross returns from cows	1934	2015	1580
Total receipts	4340	5135	4105	" " " other cattle	696	701	468
Total cash expenses	1752	1942	1842	" " " hogs	697	1066	1010
Decrease in inventory	50	68	388	" " " sheep	37	22	19
Board for hired labor	73	81	98	" " " poultry	275	295	315
Total expenses	1875	2091	2328	Returns above feed per cow	77	78	46
Returns to capital & family				" " " " head other			
labor	2515	3044	1777	cattle	24	21	5
Interest on farm inventory	1116	1086	1139	" " " " 100# pork	-.05	2.70	1.87
Family labor earnings	1399	1980	638	" " " " hen	1.78	1.45	1.30
Unpaid family labor	426	345	348	Feed cost per cow	69	71	65
Operator's labor earnings	973	1635	290	" " " head other cattle	31	33	29
Average farm inventory	22315	21720	22791	" " " 100# pork	.70	7.19	6.21
Acres in farm	147.9	138.7	150.1	" " " hen	1.52	1.45	1.29
Percent land tillable	74	77	79	" " " horse	55	51	45
Crop acres in farm	99.2	93.8	106.1	Price rec'd. per lb. B.F. (mfg.			
Number of cows	12.87	13.58	14.2	cream)	.53	.49	.40
Head of young cattle	14.65	13.66	14.5	" " " 100 lbs. pork	8.38	9.66	8.91
Litters of spring pigs	4.0	5.1	5.0	" " " doz. eggs	.27	.28	.22
Litters of fall pigs	2.5	2.9	3.0	Number of pigs per litter	6.0	6.6	6.7
Pounds of pork produced	8,444	10,715	12,461	" " eggs " hen	79	84	101
Head of sheep	11.5	4.6	4.0	Yield of corn per acre, bu.	44.0	50.5	47.2
Number of hens	91	106	113.9	" " oats " " "	47.0	50.8	55.6
Total no. of prod. livest. units	27.16	27.05	29.04	" " barley " " "	35.0	37.1	36.1
Lbs. of B. F. per cow	231	256	253	" " wheat " " "	24.9	21.4	23.0
Index of high return crops	29.8	31.0	31.6	" " alfalfa " " tons	2.3	2.9	2.6
Power-Mach-Bldg. Exp. per day P. Wk.	1.94	1.61	1.42				
Prod. livestock units per 100 A.	19.1	19.7	19.6				
Number of days of prod. work	488	496	542				
No. days of prod. work per man	250	220	204				