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Report 35

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

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SECOND ANNUAL REPORT
of the
Better Farming Club
of
Rice County

By

W.P. Ranney and G.A. Pond
R.C. Bevan, Field Agent
Harry Hass, County Agent

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Division of Farm Management and Agricultural Economics
University Farm
St. Paul, Minn.
March 1930

Second Annual Report of the Rice County Better Farming Club,
for the Year 1929

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

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INTRODUCTION

The Division of Farm Management and 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 thirty-seven farmers in Rice County, Minnesota, have been cooperating during the year 1929 in a farm account project, known as the Better Farming Club of Rice County. Ten more farmers completed the project in 1929 than in 1928. The work was started January 1, 1928 along with similar clubs in nearby counties, viz., Dodge, Goodhue, Freeborn, Steele and Waseca counties.

The project has been under the direction of G. A. Pond of the Division of Farm Management and Agricultural Economics, University of Minnesota, with the assistance of other members of the same department: W. P. Ranney, one of the authors of this report; and Wm. H. Dankers who aided in closing the books at the end of the year 1929. 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 skimmilk is retained on the farm and fed to hogs and poultry. These two classes of livestock are also an important source of income.

The principal crops grown are corn, oats, barley and hay. These crops are raised primarily as livestock feed altho a seasonal surplus may be sold. Wheat 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 two-fifths, and receipts from hogs sales about one-fourth of the average cash income for 37 cooperators in Rice County. These are approximately the same results as shown by the 1928 report.

Records Kept

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

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

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

Purpose of Project

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

Capital Investment in Farm Business

The average size of the farms in this report was 139 acres. The average farm inventory was \$21,720. This does not include the value of the house in which the operator lived. As changes were made in size of farm in a few cases, and some new cooperators included, the average size is a little below that in 1928, in which year the average size was 148 acres, and average farm inventory was \$22,308. But the distribution of the inventory was practically the same in both years with a slight increase in total value of feeds and livestock, especially hogs. In 1929, fifty-two per cent of the average farm inventory consisted of land; 17 per cent of permanent improvements; 8 per cent of feeds and supplies; 8 per cent of machinery and equipment; and 15 per cent of livestock, of which almost one-half or an average of \$1,478 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 37 farms on which the work was completed for the twelve months period, January 1, 1929 to December 31, 1929 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 \$4072. In addition farm produce to the value of \$302 was consumed by the farm family and there was an average inventory increase of \$694 per farm. The total average receipts per farm is the sum of these three items, \$5068. The average total expense per farm, \$2023, includes \$1942 cash expense and an estimated allowance of \$81 for board of hired labor. The difference between the total income and total expense figure is \$3045. 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 5 per cent on the average inventory valuation, \$1086, for the services of capital, there remains \$1959 for the services of the farmer and his family. The average value of family labor used, if computed at hired man's wages was \$355. The average operator's labor earning is the family earnings less their allowance of \$355, or \$1604. This is the return to the farmer for his labor and management over and above a 5 per cent return for his capital and going wages for other members of the family.

Comparison with Previous Year

The average operator's labor earnings per farm in 1929 were \$670 higher than in 1928. Cash receipts were \$420 higher in 1929, and the increase in inventory was \$310 higher. Expenses were \$190 greater in 1929. Changes in other items were small. The higher cash receipts and inventory increase were due primarily to higher crop yields, higher butterfat production per cow, larger production of pork, and higher prices for hogs sold. The average price received for the sale of hogs was \$1.30 per hundred pounds higher in 1929 than in 1928. Butterfat prices were lower near the close of 1929, while eggs averaged one cent higher for the year. The average production of butterfat per cow for the 1929 group of cooperators was 253, while that for 1928 was only 231. The group in 1929 produced on the average 3,400 pounds more pork than the cooperators who were in the project in 1928.

After adjusting cash items for changes in inventory, the greatest gain in gross returns is shown for hogs, almost \$400 greater in 1929. A slight decrease in returns for cows is offset by slight increases in returns for other cattle and poultry.

Summary of Farm Inventories

Items	Your Farm	Average High Farm	Low Farm
Size of Farm (acres)		139	240
Size of business (prod. man work units) (1)		443	940
Average farm inventory (without house)		\$21720	\$62528
Land		11204	29362
Farm Improvements		3757	12631
Machinery & equipment (total)		1670	6182
General machinery & equipment		1159	2142
Tractor		205	1025
Truck		51	425
Auto (farm share) (2)		169	1310
Gas engine (farm share)		20	88
Electrical equipment (farm share)		66	366
Foods and seeds		1713	5674
Misc. supplies		33	216
Horses (total)		452	1017
Horses		399	730
Colts		53	407
Productive Live Stock (total)		2891	8423
Cows		1478	4237
Other cattle		818	3932
Hogs		412	1858
Sheep		49	520
Poultry		134	460

Statement of Average Amounts of Live Stock

Items	Average	High Farm	Low Farm
Total horse animal units (3)	5.0	8.8	2.0
Horses	4.6	6.6	2.0
Colts	.4	2.4	.04
Total Productive Animal Units	27.0	58.4	6.2
Cows	13.6	25.2	2.6
Other cattle	7.2	19.2	1.8
Hogs	4.6	18.7	.4
Sheep	.6	7.6	-
Poultry (hens)	1.0	3.6	.1
Number of cows per worker	7.6	15.4	1.8
Number of cows per 100 acres	10.2	21.0	2.06

- (1) Productive man work units are a measure of size of business based on the average amount of man labor required per head of productive livestock and per acre of crops. They may also be used as a measure of labor efficiency. The units used were computed from data presented in Minn. Tech. Bul. 44, "A Study of Dairy Farm Organization in Southeastern Minnesota".
- (2) Farm share based on farmer's estimate of amount used for farm purposes only.
- (3) An animal unit represents an average mature horse, cow or the equivalent in other livestock, based upon the amount of feed eaten and manure produced. The above units are computed as an average of the monthly units.

Summary of Farm Earnings - 1929

CASH EXPENSES

	Your Farm	Average	High farm	Low Farm
Tractor (new & exp.)		\$139	\$1533	\$ -
Truck (new & exp.)		48	478	-
Auto (new & exp.) (farm share)		118	535	-
Gas engine (new & exp.) (farm share)		17	128	-
Elec. plant or current (new & exp.) (farm share)		23	179	-
Machinery & equipment (new)		168	638	-
Machinery & equipment (exp.)		42	219	5
Bldgs., fences, tiling (new)		84	1170	-
Bldgs., fences, tiling (exp.)		51	158	-
Hired labor		189	636	-
Food for livestock		281	1444	21
Other expense for livestock		63	252	-
Horses bought		21	185	-
Cows bought		43	940	-
Other cattle bought		54	545	-
Hogs bought		47	248	-
Sheep bought		8	75	-
Poultry bought		27	130	-
Crop (seed, twine, spray)		160	368	52
Taxes and insurance		326	803	122
General farm		33	79	12
(1) Total cash expense		1942	4583	684
(2) Decrease in farm inventory			1222	-
(3) Board for hired labor		81	253	-
(4) Total expense (sum of 1,2,& 3)		2023	4713	700

CASH RECEIPTS

Horses		16	225	-
Cows		324	944	-
Dairy products		1637	3053	319
Other cattle		348	1081	20
Sheep		36	403	-
Hogs		946	3475	-
Poultry		94	463	-
Eggs		165	869	-
Small grain		219	1422	-
Corn		9	152	-
Hay		14	181	-
Root crops		16	215	-
Other crops		52	889	-
Misc.		109	723	-
Outside		87	506	-
(5) Total cash receipts		4072	9852	1264
(6) Increase in farm inventory		694	3102	-
(7) Farm produce used in house		302	577	61
(8) Total receipts sum of 5,6,& 7		5068	12265	2339
Total expense (4)		2023	4713	700
(9) Returns to capitol & family labor(8-4)		3045	7551	871
(10) Interest on farm inventory		1086	3126	413
(11) Family labor earnings (9-10)		1959	4699	-391
(12) Unpaid family labor		355	1440	-
(13) Operator's labor earnings (11-12)		1604	4699	-511

Summary of Farm Earnings, 1929 (A)

<u>EXPENSES AND NET DECREASES</u> Items	Your Farm	Average	High Farm	Low Farm
Total power machinery & equipment		\$223	\$875	\$ 17
Tractor		64	386	- 51
Truck		38	254	-
Auto (farm share)		79	281	- 56
Gas engine (farm share)		18	123	-
Elec. plant or current (farm share)		24	152	-
General machinery & equipment		148	393	29
Bldgs. fencing, tiling		155	711	- 48
Hired labor		185	636	-
Prod. live stock misc. expense		58	252	-
Crop		161	368	52
Taxes and insurance		325	803	122
General farm		34	79	12
Decrease in crops and food		25	369	-
Decrease in horses		18	125	-
Misc. expense for horses		6	36	-
Board for hired labor		81	253	-
Interest on farm inventory		1086	3126	413
Unpaid family labor		355	1440	-
(1) Total expenses		2860	7689	1144
 <u>RETURNS AND NET INCREASES</u>				
Increase in crops and feeds		539	1821	-
Gross returns from all prod. live stock		4097	9869	786
Cows		2015	3964	364
Other cattle		701	2115	153
Hogs		1066	4150	-
Sheep		22	197	-
Poultry		293	1183	-
Outside and misc. receipts		97	506	-
Increase in horses		14	196	-
(2) Total returns and net increases		4747	11587	2154
(3) Products used on the farm		283	642	36
(4) Gross returns (2-3)		4464	10944	2061
Total expenses (1)		2860	7689	1144
(5) Operator's labor earnings (4-1)		1604	4699	-511
Gross returns per \$100 expense		160	225	88

(A) Cash receipts and expenses are adjusted for changes in inventory for each enterprise and 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.

Utilization of Land and Yield of Crops - 1929

Crop	No. farms growing this crop	Acres per farm		Yield per acre		
		Your Farm	Average	Your farm	Average	Highest Lowest
Wheat	12	2.8		25.9	35.0	15.0
Oats	24	9.8		51.1	83.3	32.0
Barley	24	8.0		42.1	73.4	18.6
Rye	1	0.2		12.0	-	-
Flax	3	1.5		8.0	12.0	5.0
Wheat & oats	11	4.0		33.9	46.0	26.3
Oats & barley	25	14.7		47.0	76.0	22.9
Other grains & mixtures	4	.8				
Total grain		41.8				
Corn, grain	36	15.8		51.7	80.6	28.1
Corn, silage	34	9.2		9.3	15.0	5.5
Corn, fodder	27	5.5		3.6	8.5	1.5
Sweet corn	2	0.5		3.9	3.9	3.8
Potatoes	30	0.5		134.9	320.0	20.0
Total cultivated crops		31.5				
Alfalfa	35	7.8		3.3	6.0	1.3
Clover & clover mixtures	12	4.2		2.2	4.0	1.5
Other legumes	6	1.8		1.5	1.8	1.3
Timothy	8	2.0		1.8	3.0	0.9
Annual hay crops	6	0.5		3.1	3.0	1.0
Wild hay (on tillable land)	7	1.0		1.0	1.5	.5
Wild hay (on non-tillable land)	13	3.7		1.0	1.3	.5
Total hay		21.0				
Total crop acreage		94.3				
Sweet clover pasture	15	4.7				
Miscellaneous legume pasture	12	2.5				
Other tillable pasture	21	10.0				
Non-tillable pasture	6	16.0				
Total pasture		33.2				
Timber - not pastured	11	3.5				
Roads & waste	37	4.0				
Farmstead	37	4.0				
Total acres in farm		139.0				
% of land tillable		78.				

Measures of Farm Organization and Management Efficiency

Farm No.	Opera. Labor Earn	Index of Crop Yield	Lbs. B.F. per Cow	Returns above feed			Expenses per work unit.			Prod. Units per Worker	Prod. Live Stock per 100 A	Total No. Prod. Man Work Units	
				Head of Cow	100 lbs. of Pork	100 Hens	Farm Power	Gen. Mach. and Eq.	Bldgs. and Til- ing				
4012	4699	112	328	97.40	22.05	4.80	3.90	1.11	.43	.26	280	25.6	585
4064	3464	100	281	96.65	42.14	4.35	-	.80	.35	.52	259	24.9	497
4061	3255	126	285	68.97	-5.68	3.75	-.01	1.51	.42	.23	297	24.4	940
4161	2678	111	249	99.82	75.17	-1.08	2.15	.99	.30	.20	246	20.9	475
4051	2551	93	265	73.10	27.46	-1.15	.05	.95	.20	.13	524	22.4	755
4091	2430	98	297	91.36	10.02	3.59	3.26	.80	.32	.15	318	23.4	429
4021	2425	117	211	77.96	19.25	4.72	.47	1.92	.33	.40	335	35.2	644
4011	2412	83	217	67.49	18.65	2.22	.95	.89	.44	.44	335	16.1	597
4083	2257	108	300	82.49	15.37	1.22	2.24	1.16	.40	.27	301	20.7	627
4163	2083	97	198	89.42	2.59	.33	.18	.62	.14	.04	244	21.0	487
4025	2013	105	377	163.28	17.17	2.94	3.06	1.22	.45	.32	273	20.4	363
4026	2002	106	279	100.55	9.43	1.18	1.18	1.58	.40	.37	272	17.9	465
4081	1963	105	183	75.39	50.87	-	1.52	.75	.24	.20	425	27.5	459
4086	1861	102	279	83.55	20.93	4.06	2.29	.89	.21	1.29	249	19.9	550
4084	1671	107	278	53.92	27.61	3.86	1.73	1.46	.57	.39	205	13.4	426
4171	1665	97	280	93.63	3.85	4.11	1.98	1.32	.26	.28	223	19.3	352
4182	1560	94	337	149.46	10.04	.82	2.51	.59	.90	1.21	247	17.1	309
4032	1502	68	190	71.90	33.58	3.49	-.01	.58	.08	.24	278	12.3	347
4031	1451	100	232	56.42	17.99	5.57	1.50	.96	.40	.34	210	19.9	306
4135	1341	102	217	51.08	28.59	2.06	.57	.77	.30	-.11	209	19.6	438
4121	1327	120	206	67.00	-1.72	2.47	.71	.97	.32	.41	194	22.2	554
4085	1216	95	219	61.71	-2.33	3.07	.79	1.15	.49	.32	362	21.8	453
4192	1212	100	237	82.70	21.09	2.02	1.36	1.31	.18	.25	239	24.0	538
4134	1159	70	293	91.21	35.16	5.09	2.45	.93	.39	.18	208	22.1	277
4162	1110	82	263	90.08	23.54	3.69	2.65	.55	.28	.48	185	18.9	369
4132	1021	99	280	100.83	21.37	1.26	1.61	1.98	.42	.15	118	5.1	197
4022	1019	105	246	66.22	22.95	4.33	.50	.89	.24	.26	173	21.2	316
4024	1007	106	294	54.26	73.77	-	1.78	1.07	.25	.31	174	19.6	291
4041	952	121	181	34.79	4.92	3.59	.25	1.04	.21	.47	206	20.7	550
4023	929	92	240	89.65	16.20	4.46	1.16	.87	.14	.24	163	17.9	231
4231	882	111	279	79.76	6.91	3.90	1.35	1.89	.60	.45	178	15.3	223
4191	824	90	275	88.38	8.27	1.67	1.43	1.29	.44	.28	179	12.4	543
4151	756	71	185	33.70	8.87	1.92	1.54	1.02	.32	.18	367	13.1	374
4062	673	103	261	40.64	35.29	.34	1.24	.67	.16	.37	164	26.8	383
4221	385	94	224	78.17	18.78	-	1.21	1.54	.18	1.40	158	9.7	177
4181	81	79	183	58.99	40.50	-	-	1.99	.60	.54	159	15.4	226
4193	-511	69	199	43.32	8.05	.54	-.31	1.40	.24	.32	302	19.2	641
Average	1604	98.3	253	78.52	21.32	2.70	1.41	1.12	.34	.37	250	19.7	443
High	4699	126	377	163.28	75.17	5.57	3.90	1.99	.90	1.40	524	35.2	940
Low	-511	68	108	33.70	-5.68	1.15	-.31	.55	.08	-.11	118	5.1	177

Find Your Weak Links

Using your figures from page 9, locate your standing with respect to the various measures of farm organization and management efficiency. The average for the 37 farms included in this summary are located between the two lines across the center of the page:

Oper. Lab. Earn.	Ind. of Crop Yield	Lbs. B.F. per Cow	Returns above feed per				Expenses per work unit			Prod. Work Units per 100 A	Prod. Live Stock Units per 100 A	Total No. Man Work Units
			Cow	Head of other cat.	100 lbs. of Pork	Hen	Farm Power	Gen. Mach. and Eq.	Bldgs. Fen. and Til.			
4604	128	378	154	71	5.70	3.91	.12	.04	.02	500	40	943
4004	122	353	139	61	5.10	3.41	.32	.10	.09	450	36	843
3404	116	328	124	51	4.50	2.91	.52	.16	.16	400	32	743
2804	110	303	109	41	3.90	2.41	.72	.22	.23	350	28	643
2204	104	278	94	31	3.30	1.91	.92	.28	.30	300	24	543
1604	98	253	79	21	2.70	1.41	1.12	.34	.37	250	20	443
1004	92	228	64	11	2.10	.91	1.32	.40	.44	200	16	343
404	86	203	49	1	1.50	.41	1.52	.46	.51	150	12	243
-196	80	178	34	-9	.90	-.09	1.72	.52	.58	100	8	143
-696	74	153	19	-19	.30	-.59	1.92	.58	.65	50	4	43
-1296	68	128	4	-29	-.30	-1.59	2.12	.64	.72	0	0	--

Prices Received for Products Sold - 1929

Farm No.	Butterfat per lb. sold as milk	Butterfat per lb. sold as cream	Eggs per dozen	Hogs per 100 pounds
4012	-	.49	.32	10.25
4064	.59	-	-	10.30
4061	-	.50	.35	11.59
4161	.67	-	.37	10.58
4051	.51	-	.26	8.84
4091	-	.50	.32	9.94
4021	-	.51	.25	8.77
4011	-	.50	.27	8.65
4083	-	.51	.26	9.16
4163	-	.50	.32	8.77
4025	.59	-	-	8.37
4026	-	.51	.25	9.13
4081	-	.53	.27	-
4086	-	.51	.30	9.22
4084	-	.49	.27	9.90
4171	-	.51	.27	9.58
4182	.76	-	.35	9.39
4032	.55	-	.22	9.75
4031	1.33	.49	.27	10.54
4135	.58	-	.27	8.03
4121	-	.54	.26	9.90
4085	-	.51	.32	9.49
4192	-	.49	.26	9.24
4134	.54	-	.27	9.54
4162	-	.51	.27	11.87
4132	.78	.52	.27	8.90
4022	-	.47	.25	9.62
4024	-	.50	.25	11.00
4041	-	.49	.28	8.71
4023	.58	.49	.32	10.26
4231	-	.51	.27	10.36
4191	-	.51	.25	9.30
4151	-	.50	.26	9.51
4062	-	.49	.25	10.44
4221	.67	-	.40	-
4181	-	.51	-	-
4193	-	.50	.29	9.71
Average	.68	.50	.28	9.68
High	1.33	.54	.40	11.87
Low	.51	.47	.22	8.03

Factors of Cost in Dairy Production - 1929 (per cow basis)

Farm No.	R.F. per cow	Feed per Cow - Lbs.								Total Silage	Total concen.	Total dry rough- age	Total digest. nutri. per lb. R.F.	Nutri- tive ratio	% Cows fresh Sent. to Dec. incl.	Per cent calves born
		Corn grain	Small feeds	Mill Oil Meal	Tame hay	Wild hay	Alfalfa	Corn fodder								
4025	277	-	1751	604	298	1407	-	2152	1738	7285	2263	5297	14.4	1:5.8	83	108
4182	377	-	1744	13	33	1180	-	524	793	13630	1390	2097	12.8	1:8.7	26	105
4012	228	-	1082	508	196	722	-	3475	2574	4504	1766	6371	15.8	1:5.8	97	154
4083	300	-	2061	365	26	1696	-	1542	2905	9352	2752	7148	20.5	1:7.9	87	32
4091	297	249	1678	127	48	-	-	3048	2540	8508	2102	5588	19.2	1:6.9	70	127
4024	294	463	2552	154	-	330	110	4405	881	9251	2969	5726	22.4	1:6.4	77	88
4154	295	134	1197	902	11	4471	-	545	1676	5616	2240	6652	19.9	1:7	98	130
4061	285	206	2586	-	-	3030	-	2170	-	10892	2792	5200	23.0	1:6.3	98	135
4064	281	510	1382	27	47	809	-	1618	-	6339	1966	2427	15.5	1:7	61	88
4171	280	684	1207	-	105	175	-	2007	349	7504	1996	2531	14.2	1:6.6	113	122
4175	280	-	1328	240	-	-	-	2083	1500	4400	1568	3583	12.8	1:6.3	67	37
4231	279	-	1366	86	-	-	-	3647	1631	10173	1472	5378	19.1	1:6.6	58	58
4026	279	-	1249	139	-	1677	-	330	1889	10075	1388	4156	15.5	1:8.6	63	82
4086	279	81	1392	541	93	1677	-	865	1330	7981	2407	3872	17.7	1:7	87	110
4084	278	-	1961	-	-	-	-	4139	-	10596	1961	4139	19.1	1:6	124	132
4191	275	1505	1402	25	129	3550	-	465	1437	7100	3071	5452	22.1	1:7.9	51	118
4051	265	-	1095	417	268	449	-	1480	449	11395	1780	2378	16.6	1:6.5	76	112
4162	265	51	1521	-	45	906	1449	522	2083	7880	1617	4981	18.8	1:8.3	136	136
4062	261	-	1580	275	740	2027	916	2287	1308	9221	2595	6538	26.3	1:5.6	20	26
4161	249	327	1663	761	49	-	-	2253	5986	12323	2796	8229	29.4	1:7.5	49	106
4022	246	84	462	547	-	-	498	3984	1394	9163	1092	5876	20.6	1:6.4	80	100
4023	240	84	55	31	-	-	149	2413	746	7388	170	3308	12.4	1:6.8	99	124
4192	237	-	1097	106	-	2503	-	-	745	8020	1203	3248	15.8	1:9.6	53	133
4031	232	698	1444	291	-	-	-	2604	935	8255	2433	3739	21.8	1:6.9	114	114
4221	224	1265	390	-	-	-	2217	1498	375	4794	1753	4120	16.9	1:7.6	150	187
4085	219	950	1038	-	31	3138	-	379	1866	8142	2022	5343	21.3	1:9.5	51	85
4135	217	-	1040	279	287	788	-	1862	1576	11246	1606	4226	23.6	1:7	50	107
4011	217	140	1684	278	19	2313	-	-	1063	7750	2121	3376	20.9	1:8.7	50	119
4021	211	22	492	-	-	79	79	2459	2300	4910	514	4917	17.3	1:6.9	75	107
4121	206	267	312	369	-	-	1312	1846	510	7774	948	3668	18.2	1:7.6	63	87

Factors of Cost in Dairy Production - 1929 (per cow basis) - continued

Farm No.	P.F. per cow	Feed per Cow - Lbs.									Total concen.	Total dry rough- age	Total digest. nutri. per lb. P.F.	Nutri- tive ratio	Cows fresh Sent. to Dec. incl.	Per cent calves born
		Corn grain	Small grain	Mill feeds	Oil meal	Timothy hay	Wild hay	Alfalfa	Corn fodder	Silage						
4193	199	90	1519	-	-	-	-	2080	1120	9013	1609	3200	21.1	1:7.4	80	133
4163	198	85	817	-	18	-	243	1944	972	9720	920	7159	19.7	1:7.6	43	79
4072	190	8	532	-	2	639	-	1916	2099	-	312	4654	12.9	1:6.7	0	100
4151	185	560	1800	20	10	2000	-	800	-	8200	2390	2800	22.7	1:9	40	130
4081	183	420	1555	655	-	-	241	2165	421	11185	2510	2827	18.5	1:6.9	66	108
4181	187	105	1040	-	-	-	-	4885	-	8621	1145	4885	26.2	1:5.6	57	57
4041	181	910	872	-	-	1083	-	2644	1156	4388	1782	4883	24.6	1:6.6	54	76
Average	255	267	1279	209	66	978	195	1986	1721	8186	1823	4483	20.3	1:7.2	71	107

Feed Costs and Returns for Dairy Cows - 1929 (per cow basis)

Farm No.	E.F. per cow	Feed per cow			Feed cost per lb. B.F. (cents)	Value of produce per cow						Returns above feed cost per cow	voluntary sales	fresh heifers per cow		
		Concen.	Rough.	Pasture		Total cost	E.F. sales	Dairy prod. used in house	Milk to other live-stock	Apprec. Total	Depr. value of prod.				Net value	
4025	377	38.62	43.21	6.74	88.57	25.5	210.05	14.68	33.39	3.73	251.85	-	251.85	163.28	8	8
4182	377	20.16	40.30	7.73	68.19	20.2	143.10	7.18	78.78	-	229.06	11.41	217.65	149.46	13	26
4012	328	26.67	42.69	7.20	76.56	23.3	150.87	5.22	27.70	-	179.79	5.84	173.96	97.40	32	84
4083	300	34.57	49.46	6.80	90.83	30.3	145.94	7.20	27.85	.33	173.72	-	173.72	82.49	26	26
4091	297	26.89	47.56	5.55	80.00	26.9	139.20	7.39	26.54	2.23	171.76	-	171.76	91.36	25	25
4024	294	34.49	51.87	6.87	93.23	31.7	181.90	12.85	10.49	-	150.24	2.75	147.49	54.26	24	55
4134	293	33.59	40.68	6.58	80.85	27.6	149.61	2.91	19.72	.22	172.06	-	172.06	91.21	23	55
4061	285	33.88	55.63	5.65	95.36	32.7	135.02	9.70	23.31	1.70	162.73	-	162.73	68.97	29	53
4094	281	25.71	27.65	6.99	60.55	21.5	149.21	10.20	7.34	-	136.85	9.84	157.00	95.65	20	13
4171	280	26.98	40.89	6.11	67.98	22.9	128.61	10.27	15.89	2.84	157.61	-	157.61	93.63	25	35
4132	280	21.13	29.34	7.66	58.13	20.8	121.75	10.21	12.00	-	155.96	5.00	158.96	100.83	22	30
4211	279	19.53	50.04	6.40	75.97	27.2	132.47	11.46	12.19	-	156.12	.36	155.73	79.76	38	19
4026	279	17.13	38.60	6.17	61.90	22.2	129.58	13.72	27.92	-	166.22	3.78	162.45	100.55	17	31
4086	279	34.05	34.40	5.76	74.21	26.6	130.72	4.32	19.54	3.18	157.76	-	157.76	83.55	12	23
4084	276	24.12	52.06	5.17	81.35	29.3	122.86	4.12	26.09	-	157.07	17.80	135.27	53.92	33	41
4191	275	39.49	40.26	6.19	85.94	31.3	124.56	9.73	28.09	11.94	174.32	-	174.32	88.38	51	42
4051	265	30.67	37.22	7.09	74.98	28.3	126.95	1.11	27.17	-	151.19	7.11	148.08	73.10	16	40
4162	263	19.14	38.08	6.34	63.56	22.2	118.07	5.99	32.58	-	156.64	3.00	157.64	90.08	18	45
4062	261	38.77	51.70	6.26	96.73	37.1	120.72	6.85	18.64	-	145.81	8.44	137.37	40.64	0	0
4161	249	39.61	55.77	6.51	101.89	40.9	139.69	5.15	13.94	12.93	201.71	-	201.71	99.82	42	14
4022	246	15.84	52.14	6.89	74.87	30.4	105.32	9.16	19.07	9.54	141.09	-	141.09	66.22	60	30
4027	240	2.15	34.00	7.59	43.74	18.2	109.44	9.54	16.90	-	135.88	2.49	133.39	89.65	0	12
4192	237	15.09	30.46	6.70	52.25	22.0	112.29	2.54	19.72	.80	134.95	-	134.95	82.70	0	16
4031	232	30.64	39.82	7.47	78.17	33.7	105.35	7.69	22.13	-	135.17	.62	134.55	56.42	31	42
4221	221	27.09	29.81	5.30	58.20	26.0	119.34	11.01	13.91	-	141.26	7.89	136.37	78.17	37	112
4085	219	24.58	38.67	7.12	70.37	32.1	102.17	6.76	19.76	3.39	132.08	-	132.08	61.71	17	8
4135	217	21.90	45.37	6.93	74.20	34.2	116.47	2.06	9.20	-	127.73	2.45	125.28	51.08	14	21
4011	217	27.69	28.18	7.81	63.68	29.3	92.70	7.90	26.73	3.84	131.17	-	131.17	67.49	6	6
4021	211	5.92	35.47	5.63	47.02	22.3	93.77	9.17	16.00	6.08	124.98	-	124.98	77.96	32	28
4121	206	13.37	36.15	6.80	56.32	27.3	101.70	2.47	16.28	2.67	123.32	-	123.32	67.00	19	10

Feed Costs and Returns for Dairy Cows - 1929 (per cow basis) - continued

Farm No.	D. F. per cow	Feed per cow			Total cost	Feed cost per lb. E. F. (cents)	Value of produce per cow				Total	Dentr.	Net value of prod.	Returns above feed cost per cow	% voluntary sales	Fresh heifers are of total cows
		Concen.	Rough.	Pasture			E. F. sales	Dairy prod. used in house	Milk to other live-stock	Apprec.						
4195	199	19.20	36.90	6.75	62.95	31.6	89.68	4.46	20.96	-	113.10	3.63	106.27	43.72	27	32
4163	198	11.12	39.30	6.79	57.21	28.9	98.51	6.61	21.46	20.05	146.63	-	146.63	89.42	21	21
4032	190	4.37	23.22	8.39	35.98	18.9	97.09	2.68	5.36	2.75	107.86	-	107.86	71.90	0	46
4151	185	30.06	32.53	6.78	69.37	37.5	85.76	3.89	17.09	-	106.74	3.67	103.07	33.70	20	70
4081	183	35.37	41.23	6.32	87.12	45.4	139.71	7.42	16.31	-	159.44	.93	158.51	75.39	21	21
4181	183	14.05	51.58	6.32	71.97	39.3	72.48	15.13	13.31	30.04	170.96	-	170.96	58.99	0	0
4041	151	22.96	37.29	6.32	66.57	36.6	78.80	5.13	21.32	-	105.25	3.89	101.36	34.79	22	0
Average	253	21.40	40.26	6.60	71.26	28.7	121.14	7.34	20.80	3.20	152.48	2.71	149.76	76.52	22	30

Feed Costs and Returns for Young Cattle - 1929

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	d. death loss
	Concen.	Hay & Fodder	Silage	Whole Milk	Skim-milk	Concen.	Rough.	Milk	Pasture	Total			
4161	571	2978	2892	281	1287	6.67	16.49	8.91	2.42	35.49	111.66	75.17	12
4024	226	992	2525	253	5025	2.80	10.10	19.58	1.41	33.89	107.56	77.77	9
4081	619	861	1599	629	6234	7.61	7.52	28.36	2.22	45.91	96.78	50.87	12
4004	-	-	2956	374	726	-	5.91	8.59	2.76	17.26	59.40	42.14	9
4181	294	2426	8786	485	742	3.80	24.77	13.69	.86	52.72	93.22	40.50	0
4032	706	4737	4847	306	8052	7.82	21.12	26.34	1.67	52.91	98.20	35.29	0
4184	124	1067	1042	259	1278	1.77	6.75	7.95	2.94	19.41	54.57	35.16	9
4032	184	3543	-	541	-	2.24	16.97	11.58	2.01	32.76	63.34	35.58	20
4135	103	1775	5637	610	278	1.35	19.36	12.40	2.92	35.03	64.62	28.59	11
4084	530	1926	7692	482	1417	6.68	21.83	12.32	1.77	42.20	70.81	27.61	0
4051	297	1440	4427	184	1956	4.89	12.77	8.82	2.50	26.94	53.40	27.46	6
4132	157	1196	1928	479	1297	2.35	7.27	14.27	3.22	27.51	51.15	25.54	0
4022	-	1437	2987	280	1858	-	12.77	11.08	2.04	27.85	50.80	22.95	10
4012	228	3156	7646	298	903	2.70	24.02	8.52	3.33	38.57	60.92	22.05	23
4172	116	1137	691	97	1221	5.30	8.12	6.50	.97	20.89	42.23	21.37	0
4192	-	845	2146	185	1547	-	7.62	7.30	3.13	18.35	79.44	21.09	23
4086	113	1210	2959	440	1072	1.41	10.88	11.24	2.40	25.93	46.86	20.93	7
4021	146	3295	2406	288	2103	1.70	18.59	14.63	2.17	37.05	56.30	19.25	26
4271	217	2127	-	271	-	7.32	7.67	6.35	3.52	20.66	79.44	18.78	0
4011	83	2568	2217	273	1619	1.02	16.91	10.39	3.55	31.87	50.52	18.65	16
4031	69	1675	2949	186	1043	.83	13.17	3.42	3.30	21.02	42.01	17.99	53
4025	117	2427	2310	383	-	1.52	15.42	7.73	3.05	27.75	44.92	17.17	6
4023	3	1273	2304	634	757	.15	13.87	14.10	3.78	31.90	48.10	13.20	0
4065	139	1810	2792	169	2048	2.14	11.97	8.74	2.27	25.22	40.59	15.37	10
4182	124	473	3403	2959	-	3.40	10.62	56.81	1.20	72.03	82.27	10.04	0
4091	1785	435	776	501	1821	19.51	3.80	12.43	2.37	30.11	50.43	10.02	16
4026	179	1219	2397	177	1604	2.28	11.08	9.17	3.13	25.66	35.09	9.47	7
4151	324	948	4929	216	778	4.20	15.54	6.33	1.49	27.56	36.45	8.87	28

Feed Costs and Returns for Young Cattle - 1929 - 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			
4191	62	1669	2925	157	1900	.62	\$12.33	\$6.74	\$2.72	\$24.61	\$72.68	16.27	5
4193	199	2661	2326	393	1111	2.43	14.47	10.77	2.03	29.70	37.75	8.05	22
4231	37	1635	3583	27	1645	.47	18.34	4.63	2.59	26.03	32.94	6.91	16
4041	507	1889	1066	215	1252	6.09	12.37	6.88	2.74	30.08	35.00	4.92	4
4171	843	873	1965	233	1540	10.37	7.53	6.58	2.14	28.62	32.47	3.85	11
4153	27	1827	6644	277	2143	.33	22.59	10.67	2.36	35.95	38.54	2.59	33
4121	68	1116	2895	332	373	.51	12.18	9.36	2.90	24.95	27.23	-1.72	13
4065	627	1220	3013	179	2190	7.48	10.83	9.12	2.01	29.44	27.11	-2.33	7
4051	199	3529	6211	304	614	2.50	35.02	7.70	1.75	46.97	41.29	-5.68	28
Average	275	2267	3038	368	1629	3.43	14.54	12.23	2.50	32.70	54.01	21.32	13.3

Factors of Cost in Pork Production - 1929

Farm No.	Lbs. of Pork Prod.	Lbs. of Feed per 100 Lbs. of Pork						Value of Feed per Lbs.				Returns above feed cost per 100 lbs. pork	Total No. of litters	Average No. of pigs per litter
		Corn	Small grain	Mill feeds	Total grain	Tank. milk	Skim-milk	Grain & mill feeds	Tank. & Skim-milk	Pasture	Total			
4031	11850	228	110	6	344	-	548	4.12	1.37	.21	5.70	5.57	10	5.0
4134	5135	124	30	55	209	2	583	2.95	1.53	.14	4.62	5.09	3	9.0
4012	34840	38	82	10	130	2	404	4.39	1.08	.11	5.58	4.80	21	7.3
4021	15948	183	112	1	296	-	278	3.42	.69	.26	4.37	4.72	14	7.9
4027	950	265	55	63	383	-	151	5.14	.38	-	5.52	4.46	2	4.0
4034	39512	351	57	30	438	1	12	5.68	.24	.23	6.15	4.35	34	5.9
4022	8915	258	92	-	350	-	627	4.32	1.57	-	5.89	4.33	4	6.5
4171	10115	210	147	-	357	-	374	4.43	.94	.24	5.61	4.11	5	6.8
4086	15076	199	116	18	333	1	583	4.03	1.48	.16	5.67	4.06	7	6.1
4231	8455	243	144	-	387	5	351	4.63	1.06	.25	5.94	3.90	2	9.5
4084	14340	288	103	3	394	-	798	4.07	1.00	.19	6.06	3.86	8	8.8
4031	37181	260	120	9	389	-	514	4.96	1.28	.28	6.52	3.75	28	6.5
4162	7975	426	114	-	540	-	882	6.38	2.21	.08	8.67	3.69	10	7.4
4091	8025	258	63	-	321	-	1099	3.77	2.75	.21	6.73	3.59	6	5.8
4041	16285	358	17	4	379	-	1796	4.66	1.01	.38	6.05	3.59	10	7.0
4032	5155	317	212	1	530	11	-	6.22	.45	.28	6.95	3.49	6	3.2
4085	14044	289	201	6	496	-	266	5.88	.67	.25	6.80	3.07	11	6.6
4025	7182	410	104	4	518	-	299	6.18	.30	.36	6.84	2.94	7	4.3
4121	13762	373	195	-	528	-	516	6.26	1.30	.20	7.76	2.47	10	6.1
4011	18455	224	200	1	425	2	510	4.90	1.61	.32	6.83	2.22	9	6.3
4135	390	718	-	-	718	-	-	8.33	-	-	8.33	2.06	2	6.5
4192	11355	294	153	-	447	-	827	5.23	2.07	.19	7.49	2.02	12	5.7
4151	9875	357	236	2	597	-	422	6.94	1.05	.31	8.30	1.92	10	6.3
4191	16510	407	108	2	517	-	331	6.09	.83	.21	7.13	1.67	12	6.3
4172	3910	357	212	35	604	2	202	6.98	.54	.35	7.67	1.26	2	6.5
4083	13930	423	90	-	513	-	803	6.19	2.01	.12	8.32	1.22	7	7.6

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Factors of Cost in Pork Production - 1929 - Continued

Farm No.	Lbs. of Pork Prod.	Corn	Small grain	Mill feeds	Total grain	Tank.	Skim-milk	Grain & mill feeds	Tank.& Skim-milk	Pasture	Total	Returns above feed cost per 100 lbs. pork	Total No. of litters	Average No. of pigs per litter
4026	10235	326	175	-	501	-	907	\$5.77	\$2.27	.23	\$6.27	\$1.16	10	5.9
4182	4825	717	31	-	748	-	-	8.80	-	.44	9.24	.62	4	6.8
4193	11950	511	164	-	675	-	576	7.92	1.44	.35	9.71	.54	13	5.8
4032	3945	282	92	2	376	-	1722	4.39	4.31	-	8.70	.34	-	-
4163	9290	407	129	-	536	-	935	6.61	2.34	.27	9.22	.33	11	6.4
4161	1949	493	169	15	697	10	790	8.47	2.18	.28	10.93	-1.08	3	6.3
4051	7780	457	162	-	639	-	796	7.14	1.99	.25	9.38	-1.15	2	7.5
Average	12013	374	122	6	464	1	521	5.64	1.33	.22	7.19	2.70	9	6.6

Feed Costs and Returns for Poultry - 1929

Farm No.	Total feed (lbs.) per 100 Hens		Cost of feed per 100 Hens			Value per 100 Hens			Returns above feed cost per 100 Hens	Eggs laid per Hen
	Concen.	Skim- milk	Concen.	Skim- milk	Total	Eggs	Poultry	Total		
4012	11562	16701	\$179.40	\$46.75	\$226.15	\$382.09	\$134.05	\$516.14	\$389.99	161
4091	9425	9755	127.98	24.22	152.40	338.61	139.23	478.04	725.64	135
4025	6936	-	77.00	-	77.00	137.75	215.35	783.11	303.11	77
4132	19661	6183	232.91	15.46	259.37	199.90	324.70	524.60	235.27	91
4132	9149	177	152.79	.44	153.23	384.93	19.49	404.42	251.19	133
4134	19661	6186	155.39	19.88	175.27	305.52	324.70	420.56	245.29	136
4065	8050	1732	139.95	4.40	144.35	244.46	128.77	373.23	228.88	102
4063	8965	4300	116.48	10.75	127.23	270.51	120.26	350.77	223.54	107
4161	18156	2012	314.22	5.03	319.25	531.14	7.20	534.34	215.09	175
4171	5913	1649	120.48	4.12	124.60	222.15	100.34	722.49	197.89	103
4024	15585	13892	209.35	34.73	244.08	143.54	278.27	421.81	177.73	65
4084	8790	2222	117.29	5.56	118.85	234.65	56.86	291.51	172.66	103
4132	9216	-	124.52	-	124.52	180.47	109.36	289.83	131.33	88
4151	-	-	-	-	-	151.26	2.86	154.12	154.12	38
4081	5955	13583	75.78	33.96	109.74	157.02	109.20	262.22	152.48	68
4031	9183	2273	155.77	5.57	161.34	104.77	206.25	311.02	149.38	56
4191	10063	696	125.80	1.74	127.54	184.48	86.47	270.95	147.41	91
4192	5827	3106	86.01	7.76	93.77	143.55	85.98	229.53	135.76	66
4271	12171	2625	204.03	6.56	210.59	250.54	95.46	746.02	135.23	115
4092	3740	3594	48.09	8.99	57.08	158.05	22.84	180.89	123.81	74
4221	14430	-	168.70	-	168.70	170.21	119.55	289.76	121.06	55
4023	2033	2419	28.60	6.05	34.65	97.25	55.85	153.10	118.45	52
4023	10564	4613	209.13	11.53	220.66	309.96	26.64	336.60	115.94	120
4011	17633	12730	195.78	31.82	227.60	206.69	115.19	722.18	94.58	93
4085	11218	4223	116.36	10.55	126.91	157.65	48.00	205.65	78.74	60
4121	7042	1067	111.18	2.71	113.89	104.19	80.57	184.76	70.87	49
4135	6600	4107	75.07	10.27	85.34	181.22	-36.72	142.50	57.16	79
4022	5764	-	93.01	-	93.01	111.89	31.54	143.43	50.42	54

Feed Costs and Returns for Poultry - 1929 - continued

Firm No.	Total feed (lbs.) per 100 Hens		Cost of food per 100 Hens			Value per 100 Hens			Returns above food cost per 100 Hens	Eggs laid per Hen
	Concen.	Skim- milk	Concen.	Skim- milk	Total	Eggs	Poultry	Total		
4021	11072	4128	135.57	10.32	145.89	168.40	24.35	192.75	46.86	74
4041	14352	4573	187.83	11.23	199.06	173.87	47.57	221.44	25.38	79
4153	5057	3179	75.89	8.70	84.59	45.58	57.33	102.91	18.35	22
4051	5701	5260	38.13	13.13	51.26	89.46	-2.60	86.86	5.74	41
4032	12556	-	150.95	-	150.95	93.89	53.89	147.78	-1.17	44
4061	11302	3725	137.59	9.31	146.90	103.07	40.33	143.40	-1.50	42
4193	13062	7958	161.61	19.90	181.51	91.48	58.88	150.36	-31.15	39
Average	9660	4364	133.35	10.91	144.26	197.80	87.79	285.59	141.09	64

1.08

Feed Cost for Horses - 1929

Farm No.	% colts are of horses	Feed per Horse (lbs.)			Feed Costs per Horse				Crop acres per horse	
		Grain	Tame hay & alfalfa	Wild hay & fodder	Grain	Rough.	Pasture	Total	With tractor	Without tractor
4023	-	772	3300	500	\$9.66	\$17.85	\$3.75	\$31.26	-	12
4162	2.9	1300	-	2718	18.60	10.49	3.27	32.36	-	18
4072	9.1	1430	1454	1091	17.39	10.73	5.27	33.39	-	20
4064	19.2	1774	1533	-	22.89	8.43	3.58	34.90	-	18
4162	21.9	2211	1285	-	26.48	8.35	3.94	38.77	-	26
4135	-	1574	-	3881	20.17	15.87	3.56	39.60	19	-
4134	-	1993	559	2793	25.30	10.34	4.89	40.53	-	13
4031	-	1424	-	7000	19.12	22.30	-	41.42	-	13
4025	12.9	2152	1804	515	27.92	12.11	2.43	42.46	21	-
4032	22.2	1942	388	4660	21.94	20.00	.74	42.68	-	14
4133	9.1	1393	-	6545	17.31	25.27	3.37	45.95	-	18
4221	-	1757	1333	2337	21.12	20.55	3.00	44.76	-	16
4151	-	1594	2624	-	21.21	13.55	7.80	42.56	29	-
4011	8.3	1223	3517	1127	16.21	26.55	4.21	46.97	27	-
4172	-	2280	1000	3000	27.29	16.20	4.08	47.57	-	17
4081	7.2	2144	-	5568	23.03	19.02	2.91	44.96	-	14
4193	15.1	2431	-	6787	30.55	17.35	.58	48.48	30	-
4231	-	1908	3500	4250	24.06	22.68	2.02	48.96	16	-
4091	-	2340	500	5000	28.33	16.75	4.27	49.35	-	18
4086	-	2831	2800	600	30.69	12.60	1.16	50.47	24	-
4041	-	2782	1400	1933	35.82	14.33	1.22	51.37	22	-
4022	-	2518	-	5000	31.01	20.37	-	51.38	-	14
4171	13.9	2702	2238	344	33.29	14.97	3.45	51.71	-	15
4012	23.0	2542	2508	3385	28.33	17.92	3.17	52.42	-	24
4051	16.7	2751	2137	1837	34.32	15.17	6.51	56.00	26	-
4121	4.3	2996	-	4433	37.38	13.27	2.45	53.10	14	-
4024	-	3420	704	2435	42.52	11.62	3.56	57.70	-	21
4026	.8	2579	1964	5050	32.36	23.01	2.82	58.21	23	-

Feed Cost for Horses - 1929 - continued

Farm No.	% colts are of horses	Feed per Horse (lbs.)			Feed Costs per Horse				Cron acres per horse	
		Grain	Tame hay & alfalfa	Wild hay & fodder	Grain	Rough.	Pasture	Total	With tractor	Without tractor
4181	-	3398	3000	-	40.27	16.75	1.98	59.00	-	14
4181	-	3122	3362	921	38.13	18.45	2.62	59.21	-	18
4085	-	2562	3958	1847	29.88	25.20	4.62	59.68	27	-
4084	-	1991	3363	-	24.82	35.75	2.16	62.73	27	-
4021	-	2000	2952	3458	24.25	35.98	2.30	62.51	14	-
4061	13.1	3206	3277	786	39.93	19.83	3.04	62.83	26	-
4191	27.3	3495	2025	3375	47.84	20.25	3.41	67.50	-	27
4083	9.6	2671	5104	4765	35.88	32.65	5.12	73.65	23	-
4192	-	3350	7200	2800	40.37	43.80	1.66	85.79	15	-
Average	6.4	2295	1996	2846	28.79	19.17	3.19	50.75	22	17.5