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

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A Preliminary Report
of
Data Secured in 1927
on the

FARM ACCOUNTING ROUTE

At

CROOKSTON - POLK COUNTY - MINNESOTA

By

D.C. Mumford - G.A. Sallee - G.A. Pond
C.O. Ruud - Routeman

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Section of Farm Management
University Farm
St. Paul, Minn.
June 1928

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INTRODUCTION

This preliminary report presents the summarized results obtained in 1926 and 1927 on the Polk County Farm Accounting Route in the vicinity of Crookston and Fisher, Minnesota. The work has been conducted jointly by the Division of Farm Management, University of Minnesota, and the Bureau of Agricultural Economics, United States Department of Agriculture. This study began on March 1, 1926 and two years records are now available.

Polk County is located in the northwestern part of the state in the Red River Valley and is in the small grain farming section of the state. The typical sized farm in this section contains 320 acres or more, a large portion of which is devoted to small grain. The principal cash crops are wheat, flax, sugar beets and potatoes. Many farms in this section of the valley keep a few dairy cows but the farms that could be called specialized dairy farms are relatively few. Hogs furnish a more important source of income than do dairy cows. Poultry is a relatively unimportant enterprise. Large flocks of sheep are uncommon.

Eighteen farmers cooperated with the Farm Management Department in 1926 and 1927 to make this study possible. These men with the aid of a field representative from this department kept detailed records of their farm business. These records were mailed to the central office at University Farm, St. Paul, where they were checked and analyzed. Later, when the data for three years are available, the information contained in this report will be more thoroly analyzed and will then be published in bulletin form. The present preliminary report is issued with the idea of making the results of the first two years available more promptly to those who are especially interested. The more significant results obtained in 1926 and 1927 are presented in the following table.

SUMMARY OF AVERAGE RESULTS
Polk County Route - 1927-1926

Year	1927	1926
<u>Financial (Per farm)</u>		
Average inventory	\$26274	\$25229
Farm income	1179	1402
Family earnings	583	1003
Return per hour for all unpaid labor	10¢	17¢
<u>Livestock</u>		
Selling price per lb. of butterfat	47¢	44¢
Cost of producing butterfat per lb.	41¢	50¢
Return per man hour on dairy cows	28¢	14¢
Return per man hour on all cattle	26¢	9¢
Selling price per 100 lbs. pork	\$8.05	\$10.83
Net cost of producing 100 lbs. of pork	\$8.54	\$6.97
Selling price of 1 dozen eggs	25¢	27.5¢
Cost of producing eggs per dozen	21.5¢	27.6¢
<u>Crops</u>		
Return per man hour on:		
Spring wheat*	\$.39	\$.95
Flax*	.16	1.19
Sugar beets*	.60	.54
Potatoes*	.41	1.19
Oats	.00	.08
Barley	.77	.14
Alfalfa	.60	1.11
Wild hay	.00	.29
*Returns based on average selling price. Returns on other crops based on December 1 farm price.		
<u>Farm Power</u>		
Cost per hour of horse work	11¢	10¢
Cost per hour of tractor work	94¢	100¢
Truck cost per mile	7.7¢	-
Auto cost per mile	8.4¢	-
<u>Average Length of Working Day</u>	10.8 hrs.	11.0 hrs.
<u>Farm Products Used in Household</u>	\$384	\$213**

**Does not include the item of fruits and vegetables which amounted to \$32.40 in 1927.

SUMMARY

Judging from the data presented in this report, 1927 was more favorable to the livestock producer than to the grain producer in this part of the Red River Valley. On the whole the financial returns from the entire farm business in 1927 were not quite as high as in 1926. This decline was largely due to smaller yields and to lower prices received for hogs, wheat, flax, hay and potatoes.

FACTS ABOUT THE ORGANIZATION OF FARMS

Number of farms	1927			1926
	18			18
	Lowest	Highest	Average	Average
Acres in alfalfa	0	54.3	20.3	27.6
Acres in wild hay	0	183.2	23.2	27.8
Acres in miscellaneous hay	0	94.6	17.8	18.7
Acres in corn	0	52.9	23.4	26.5
Acres in wheat	0	133.3	47.9	82.3
Acres in oats	11.7	115.2	49.0	76.8
Acres in barley	0	134.0	45.3	36.1
Acres in flax	0	207.7	39.3	41.1
Acres in sugar beets	0	24.0	2.4	12.4
Acres in potatoes	0	22.9	6.5	6.6
Acres in summer fallow	0	96.8	12.2	19.5
Acres in miscellaneous crops	0	31.2	3.6	3.3
Total Crop Acres per Farm	63.7	607.0	290.9	378.7
Acres in pasture	7.2	147.3	61.7	54.8
Acres in farmstead, roads, waste, etc.	7.0	30.8	15.6	26.5
Total acres per farm	90.9	684.9	368.2	460.0
Total hours of man labor per farm	4131	14686	8777	9461
Hours of hired labor per farm	84	6752	2868	3396
Hours of unpaid family labor per farm	0	5019	2361	2421
Hours of proprietor labor per farm	2464	4216	3548	3644
Hours per man per work day	7.8	12.5	10.8	11.0
Hours per man per Sunday	1.8	8.7	4.8	4.4
Tractor Farms				
Number of farms using tractors			11	7
Number of horses per farm	4	13	6.9	8.4
Number of crop acres per horse	19	67	41.3	41.7
Non-Tractor Farms				
Number of farms			7	11
Number of horses per farm	3	14	8.5	8.8
Number of crop acres per horse	20	44	35.8	41.7

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FARM BUSINESS FINANCIAL STATEMENT
(Average per Farm - 1927)

<u>Investment</u>	March 1, 1927	March 1, 1928
Land	\$13402	\$13412
Buildings	6431	6194
Work stock	803	722
Productive livestock	1933	2174
Machinery and equipment	2025	2069
Auto	464	378
Feeds and supplies	<u>1296</u>	<u>1247</u>
Total	\$26353	\$26196

<u>Cash Farm Receipts</u>		<u>Cash Farm Expenses</u>	
Dairy products	\$1125	Labor	\$479
Cattle	617	Feed	351
Swine	782	Crops	438
Poultry	177	Livestock purchases	532
Sheep	88	Other livestock expense	102
Horses	68	Real estate	90
Wheat	570	Machinery & equipment	452
Flax	385	Auto	144
Sugar beets	162	Gas, oil, etc.	239
Potatoes	224	Taxes	206
Other crops	288	Interest	240
Outside labor	180	Insurance	38
Miscellaneous	<u>117</u>	Rent	102
		Miscellaneous	<u>34</u>
Total receipts	\$4783	Total expenses	\$3447
Excess receipts over expenses			\$1336
Decrease in inventory			<u>157</u>
Farm income			\$1179
Estimated house rent (12% of average value)	\$356		
Value of farm products used in the house	<u>384</u>		<u>\$740</u>
Earnings of family and unpaid capital			\$1919
Interest on investment @ 6%	\$1576		
Minus interest paid in cash	<u>240</u>		<u>1336</u>
Family earnings			\$583
Net return per hour for all unpaid labor			10¢

HOUSEHOLD AND PERSONAL FINANCIAL STATEMENTS
(Average per farm for 18 farms)
(Average size of family 4.3 adult equivalents)

<u>Household</u>		<u>Personal</u>	
Cash receipts	\$36	Cash receipts	\$66
Cash expenses		Cash expenses	
Food	\$372	Clothing and dry goods	\$163
Fuel	39	Doctor, dentist, medicine	45
Furnishings	76	Railroad and travel	9
General supplies	11	School	30
Hired help	30	Reading material, etc.	2
		Church and benevolence	117
Total cash household expenses	\$528	Clubs and organizations	2
		Amusements	9
Net cash household expenses	\$492	Life insurance & investments	87
		Miscellaneous	194
		Given to members of family	120
		Total personal expenses	\$678
		Net cash expense	\$612

<u>Farm Products Used in House</u>	Amount	Value
Cream	366 lbs.	\$45.59
Whole milk	1434 "	28.83
Skim milk	1043 "	2.07
Butter	78 "	32.51
Eggs	21½ doz.	38.01
Poultry	128 lbs.	17.43
Beef	354 "	25.40
Pork	762 "	61.54
Mutton	5 "	.33
Potatoes	37¼ bu.	29.25
Fruits and vegetables		32.40

SUMMARY OF STATEMENT OF FINANCES

<u>Cash Receipts(All sources)</u>		<u>Cash Expenses(Entire out go)</u>	
Farm	\$4783	Farm	\$3447
Household	36	Household	528
Personal	88	Personal	665
Old accounts	32	Old accounts paid	40
Money borrowed	1092	Mortgages & notes paid	829
Total	\$6031	Total	\$5509
Cash surplus	\$522		

COST PER ACRE OF PRODUCING SPRING WHEAT
(Average of 861 acres in 1927 and 1225 acres in 1926)

	1927			1926
	Range		Average	Average
Man labor, hours	5 -	11 $\frac{1}{2}$	7 $\frac{1}{2}$	6 $\frac{3}{4}$
Horse work, hours	8 -	28 $\frac{3}{4}$	17 $\frac{3}{4}$	17 $\frac{3}{4}$
Tractor use, hours	0 -	2 $\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{4}$
Total labor cost	\$2.98 -	\$6.10	\$4.39	\$3.57
Seed	1.63 -	2.94	2.30	2.35
Twine	.17 -	.48	.31	.36
Summer fallow	.00 -	1.29	.25	-
Threshing	.47 -	1.43	.81	.84
Manure	.00 -	2.77	.76	.33
Machinery	1.00 -	1.00	1.00	1.00
Marketing	.00 -	.31	.05	.04
Land charge	4.00 -	4.00	4.00	4.00
Total cost	12.17 -	16.50	13.87	12.49
Credit	.00 -	.19	.04	.04
Net cost	12.17 -	16.50	13.83	12.45
Yield, bushels	6 $\frac{3}{4}$ -	21 $\frac{3}{4}$	13 $\frac{1}{2}$	14 $\frac{3}{4}$
Cost per bushel	\$.64 -	\$2.30	\$1.02	\$.84
Average selling price			\$1.10	\$1.17
Return for land	-\$4.06 -	+\$12.51	\$5.06	\$8.81
Return per hour of man labor	\$.00 -	\$1.28	.39	.95

COST PER ACRE OF PRODUCING FLAX
(Average of 696 acres in 1927 and 647 acres in 1926)

	1927			1926
	Range		Average	Average
Man labor, hours	4 $\frac{1}{2}$ -	13	6	5 $\frac{1}{2}$
Horse work, hours	7 -	28 $\frac{3}{4}$	16	12 $\frac{3}{4}$
Tractor use, hours	0 -	2 $\frac{1}{2}$	1	1
Total labor cost	\$3.08 -	\$6.68	\$4.26	\$3.56
Seed	.98 -	2.17	1.34	1.40
Twine	.13 -	.34	.23	.11
Summer fallowing	.00 -	1.23	.18	-
Threshing	.39 -	1.32	.71	.77
Manure	.00 -	5.46	.37	.07
Machine	1.00 -	1.00	1.00	1.00
Marketing	.00 -	1.08	.03	.07
Land	4.00 -	4.00	4.00	4.00
Total cost	\$10.19 -	17.85	\$12.11	\$10.98
Yield, bushels	2 $\frac{3}{4}$ -	9 $\frac{3}{4}$	5 $\frac{1}{2}$	7 $\frac{3}{4}$
Cost per bushel	\$1.55 -	\$4.57	\$2.23	\$1.42
Average selling price			\$2.02	\$2.09
Return for land	-\$2.65 -	+\$13.11	\$3.50	\$9.20
Return per hour of man labor	\$.00 -	\$1.28	\$.16	\$1.19

COST PER ACRE OF PRODUCING POTATOES
(Average of 116 acres in 1927 and of 117 acres in 1926)

	1927			1926
	Range		Average	Average
Man labor, hours	31 $\frac{1}{2}$ -	73	40 $\frac{1}{2}$	39 $\frac{1}{2}$
Horse work, hours	34 $\frac{1}{4}$ -	75	54 $\frac{1}{4}$	60 $\frac{1}{4}$
Tractor use, hours	0 -	5 $\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{2}$
Labor cost(excl. contract labor)	\$13.21 -	\$24.43	\$17.13	\$15.23
Contract labor	.00 -	2.93	.14	.90
Seed	7.69 -	16.30	12.58	22.34
Summer fallow	.00 -	4.95	.32	-
Spraying	.00 -	2.15	1.03	1.05
Manure	.24 -	7.89	2.02	1.80
Machinery	3.00 -	3.00	3.00	3.00
Marketing	.00 -	3.45	1.03	1.13
Land	4.00 -	4.00	4.00	4.00
Total cost	\$31.04 -	\$54.39	\$41.25	\$49.45
Yield, bushels	19 -	162	88	79 $\frac{1}{4}$
Cost per bushel	\$.29 -	\$1.61	\$.47	\$.62
Average selling price			\$.54	\$1.09
Return for land	-\$16.61 -	+\$4.44	\$10.63	\$20.81
Return per hour of man labor	\$.00 -	\$1.29	\$.41	\$1.19

COST PER ACRE OF PRODUCING SUGAR BEETS
(Average of 43 acres in 1927 and of 220 acres in 1926)

	1927			1926
	Range		Average	Average
Man labor, hours	16 $\frac{1}{2}$ -	20 $\frac{3}{4}$	18 $\frac{1}{2}$	16
Horse work, hours	49 $\frac{1}{4}$ -	50 $\frac{1}{4}$	49 $\frac{3}{4}$	45
Tractor use, hours	0 -	1 $\frac{1}{2}$	$\frac{1}{2}$	0
Labor cost(excl. contract labor)	\$4.15 -	\$5.21	\$11.15	\$7.84
Contract labor	24.44 -	24.98	24.74	24.29
Seed	2.36 -	2.41	2.39	2.62
Summer fallow	.88 -	5.19	2.78	-
Manure and fertilizer	2.20 -	2.56	2.40	1.79
Spraying	.10 -	.86	.44	-
Machine	1.50 -	1.50	1.50	1.50
Marketing cost	4.29 -	6.25	5.38	5.27
Land charge	4.00 -	4.00	4.00	4.00
Total cost	\$52.67 -	\$57.36	\$54.78	\$47.31
Yield, tons	9.9 -	11.5	10.8	8.7
Cost per ton	\$4.55 -	\$5.78	\$5.07	\$5.04
Average selling price	6.00 -	6.00	6.00	6.00
Return for land	6.32 -	20.39	14.17	9.04
Return per hour of man labor	.33 -	.82	.60	.56

COST PER ACRE OF PRODUCING BARLEY
(Average of 809 acres in 1927 and of 517 acres in 1926)

	1927			1926
	Range	Average		Average
Man labor, hours	5 $\frac{1}{4}$ -	12 $\frac{3}{4}$	7 $\frac{1}{4}$	7 $\frac{1}{2}$
Horse labor, hours	5 -	49 $\frac{1}{4}$	16	19 $\frac{1}{2}$
Tractor work, hours	0 -	2 $\frac{1}{2}$	1	$\frac{1}{2}$
Labor cost	\$3.18 -	\$8.50	\$4.83	\$4.10
Seed	1.08 -	2.41	1.40	1.16
Twine	.13 -	.48	.29	.32
Summer fallow	.00 -	1.64	.21	-
Threshing	.54 -	1.29	1.02	.90
Mamure	.00 -	4.12	.65	.34
Machinery			1.00	1.00
Marketing	.00 -	.07	.01	.01
Land charge			4.00	4.00
Total cost	\$11.28 -	\$18.98	\$13.41	\$11.83
Yield, bushels	17 $\frac{1}{4}$ -	41.0	26	23 $\frac{3}{4}$
Cost per bushel	\$.34 -	\$.77	\$.51	\$.50
December 1 price			.66	.46
Return for land	\$2.06 -	\$15.81	\$7.81	\$3.15
Return per hour of man labor	.00 -	2.20	.77	.14

COST PER ACRE OF PRODUCING OATS
(Average of 863 acres in 1927 and of 1049 acres in 1926)

	1927			1926
	Range	Average		Average
Man labor, hours	5 -	10 $\frac{3}{4}$	7 $\frac{1}{4}$	6 $\frac{1}{2}$
Horse work, hours	6 -	32	18 $\frac{3}{4}$	17 $\frac{1}{2}$
Tractor use, hours	0 -	2 $\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$
Total labor cost	\$2.93 -	\$6.54	\$4.73	\$3.63
Seed	.70 -	2.52	1.20	1.05
Twine	.15 -	.45	.30	.32
Summer fallow	.00 -	1.03	.22	-
Threshing	.37 -	1.74	1.04	.93
Mamure	-	2.67	.56	.19
Machinery	1.00 -	1.00	1.00	1.00
Land charge	4.00 -	4.00	4.00	4.00
Total cost	11.27 -	16.20	13.05	11.12
Yield, bushels	9 $\frac{1}{4}$ -	48 $\frac{1}{2}$	25 $\frac{1}{4}$	30 $\frac{1}{4}$
Cost per bushel	\$.32 -	\$1.28	\$.51	\$.37
December 1 price per bushel			.39	.33
Return for land	-\$4.28 -	+\$7.40	.85	2.86
Return per hour of man labor	.00 -	.56	.00	.08

COST PER ACRE OF PRODUCING ALFALFA HAY
(Average of 378 acres in 1927 and of 498 acres in 1926)

	1927			1926
	Range		Average	Average
Man labor, hours	6 - 21		$9\frac{1}{4}$	$7\frac{1}{4}$
Horse work, hours	5 - 26		$11\frac{3}{4}$	$11\frac{1}{4}$
Total labor cost	\$2.38 - \$8.36		\$3.75	\$2.80
Seed	1.00 - 1.00		1.00	1.00
Manure	.12 - 5.26		.99	.30
Machine	1.17 - 1.25		1.19	1.22
Land	4.00 - 4.00		4.00	4.00
Total cost	\$8.65 - \$15.75		\$10.93	\$9.32
Credit, seed and pasture	- - 1.29		.46	.23
Net cost	\$8.12 - \$15.75		\$10.47	\$9.09
Yield, tons	.8 - 2.3		1.4	1.2
Cost per ton	\$5.45 - \$13.46		\$7.46	\$7.66
December 1 price per ton			10.00	13.00
Return for land	\$1.15 - \$11.76		7.27	10.33
Return per hour of man labor	.00 - 1.00		.60	1.11

COST PER ACRE OF PRODUCING WILD HAY
(Average of 507 acres in 1927 and of 401 acres in 1926)

	1927			1926
	Range		Average	Average
Man labor, hours	$2\frac{1}{2}$ - 12		4	$3\frac{3}{4}$
Horse work, hours	$4\frac{1}{2}$ - 16		$7\frac{1}{4}$	6
Total labor cost	\$1.13 - \$4.90		\$1.84	\$1.45
Machine	.90 - .90		.90	.90
Land	2.00 - 2.00		2.00	2.00
Total cost	\$4.03 - \$7.80		\$4.74	\$4.35
Credit	0 - .48		.09	.08
Net cost	\$3.55 - \$7.80		\$4.65	\$4.27
Yield, tons	.3 - 1.60		.5	.6
Cost per ton	\$3.49 - \$11.57		\$9.49	\$7.72
December 1 price per ton			5.00	8.00
Return for land	\$-.61 - \$4.83		-.06	2.83
Return per hour of man labor	.00 - .63		.00	.29

COST PER ACRE OF PRODUCING SILAGE
(Average of 173 acres in 1927 and of 194 acres in 1926)

	1927			1926
	Range		Average	Average
Man labor, hours	12 $\frac{1}{2}$ - 22 $\frac{3}{4}$		18	17
Horse work, hours	24 $\frac{1}{2}$ - 49 $\frac{1}{2}$		39 $\frac{1}{2}$	42 $\frac{1}{2}$
Tractor use, hours	0 - 1 $\frac{1}{2}$		$\frac{1}{2}$	$\frac{1}{2}$
Total labor cost	\$7.83 - \$13.74		\$9.79	\$8.17
Seed	.47 - 1.43		.87	.64
Twine	.13 - .72		.39	.25
Summer fallow	.00 - 1.03		.07	-
Mamure	.53 - 5.63		2.88	1.56
Silo filling	.59 - 3.12		1.59	.99
Machine	1.60 - 3.00		2.58	2.64
Land	4.00 - 4.00		4.00	4.00
Total cost	\$18.46 - \$28.57		\$22.17	\$18.25
Yield, tons	.5 - 6.1		3.6	3.2
Cost per ton	\$3.87 - \$38.03		\$6.30	\$5.69
December 1 price per ton			4.00	4.00
Return for land	-\$14.58 - +\$4.65		-3.84	-1.41
Return per hour of man labor	.00 - .32		.00	.00

COST OF HORSE WORK PER HORSE
(Average of 135 horses in 1927 and of 142 horses in 1926)

	1927		1926	
	Amount	Value	Amount	Value
<u>Costs</u>				
<u>Feeds</u>				
Hay, lbs.	5472	\$21.62	5405	\$23.62
Corn fodder and stover, lbs.	402	1.18	904	4.30
Beet tops, lbs.	105	.11	208	.29
Oats, lbs.	2686	31.40	3407	34.45
Other grain, lbs.	283	3.83	249	2.72
Mill feeds, lbs.	5	.02	48	.34
Pasture, days	51	1.44	42	1.42
Total feed cost		\$59.60		\$67.14
Man labor, hrs.	91½	18.29	82½	16.45
Other costs				
Shelter		11.62		12.49
Equipment		4.02		5.45
Interest		6.11		6.26
Miscellaneous cash		.74		1.23
Net decrease in inventory		6.75		7.02
Total all costs		\$107.13		\$116.04
<u>Credits</u>				
Miscellaneous cash		-		.26
Manure		4.26		5.01
Total credits		4.26		5.27
Net Cost of Horse Work		\$102.87		\$110.77
Number of hours worked		928½		1110½
Cost per hour		11.1¢		10¢

	1927		1926	
	Range	Average	Average	
Annual net cost per horse	\$63.07 - \$137.84	\$102.87	\$110.77	
Hours of work per horse	509 - 1312	928½	1110½	
Cost per hour	5.5¢ - 16.9¢	11¢	10¢	

COSTS AND RETURNS PER DAIRY COW

	1927		1926	
Number of farms	17		16	
Number of dairy cows	181		168	
<u>Costs</u>	Amount	Value	Amount	Value
<u>Feed</u>				
Dry roughage, lbs.	4052	\$17.84	4645	\$25.12
Succulent feed, lbs.	4639	9.04	5749	10.80
Farm grains, lbs.	907	11.46	926	10.06
Commercial feeds, lbs.	242	2.46	484	3.29
Oilmeal, lbs.	15	.39	12	.31
Pasture, days	171	4.93	150	4.83
Total feed cost		46.12		54.41
Labor - man, hrs.	173	34.59	178 $\frac{1}{2}$	35.72
horse, hrs.	1 $\frac{3}{4}$.20	7	.76
<u>Other Costs</u>				
Shelter		10.39		10.73
Equipment		6.04		5.16
Interest		4.15		3.86
Cash		1.09		.32
Depreciation		-		.92
Total All Costs		\$102.58		\$111.88
<u>Credits</u>				
Skim milk		16.85		20.51
Manure		3.27		4.10
Appreciation		4.02		-
Total credits		24.14		24.61
Net Cost of Butterfat, lbs.	189	\$78.44	175	\$87.27

	1927		1926
	Range	Average	Average
Butterfat per cow, lbs.	109 - 278	189	175
Feed cost per lb. of butterfat, ¢	14.7 - 53.1	24.4	31.0
Net cost per lb. of butterfat ¢	18.5 - 88.2	41.4	50.0
Average selling price per lb., ¢	44.2* - 51.9*	47.1	44.0
Return over feed cost, \$	8.37 - 156.87	70.52	50.28
Net return, \$	-60.04 - +76.26	+14.06	-10.44
Return per hour of man labor, ¢	.00 - 84.2	28.1	14.0
Nutritive ratio	1:11.9 - 1:5.1	1:6.7	1:6.7

*Range for farms selling cream only.

COSTS AND RETURNS FROM YOUNG DAIRY CATTLE
(18 farms in 1927, 13 farms in 1926)

	1927	1926
<u>Costs</u>		
Feed	\$314.72	\$354.31
Man labor	297½ hrs. 59.52	348 hrs. 69.60
Horse work	.44	1.96
Shelter	54.42	76.69
Interest	23.96	28.02
Purchases	38.08	35.77
Miscellaneous cost	.30	.92
Decrease in inventory	28.46	11.00
Total costs	\$519.90	\$578.27
<u>Credits</u>		
Sale of stock	\$299.76	\$245.10
Products used in house	18.73	21.46
Credit for heifers freshened	188.50	170.00
Miscellaneous cash	2.38	.64
Mamure	19.21	29.02
Total credits	\$522.58	\$466.22
Net gain	\$2.68	-\$112.05

COSTS AND RETURNS FROM ALL CATTLE
(18 farms in 1927, 16 farms in 1926)

	1927	1926
<u>Costs</u>		
Opening inventory	\$1234	\$1278
Purchases of livestock	216	48
Feed	879	1043
Man labor	2442 hrs. 488	2452 hrs. 490
Horse work	6	10
Shelter	211	205
Equipment	78	57
Interest	77	77
Cash*	63	5
Total costs	\$3252	\$3213
<u>Credits</u>		
Closing inventory	1322	1271
Sales of cattle	599	388
Meat products used in house	26	24
Sale of dairy products*	1121	965
Dairy products used in house	113	124
Dairy products used for feed	131	90
Miscellaneous cash receipts	19	2
Mamure	56	79
Total credits	\$3387	\$2943
Net gain	\$135	-\$270
Return per hour of man labor	26¢	9¢

*Milk and cream were purchased for resale on one farm.

COST OF PRODUCING PORK PER 100 POUNDS
(Average of 18 farms in 1927 and of 16 farms in 1926)

Average per 100 pounds for	1927 181,989 lbs.		1926 149,229 lbs.	
	Amount	Value	Amount	Value
<u>Costs</u>				
<u>Feed</u>				
Corn	52 lbs.	\$.51	77 lbs.	\$.82
Small grain	430 "	6.01	388 "	4.20
Commercial feeds	18 "	.21	26 "	.23
Skim milk and buttermilk	229 "	.46	287 "	.30
Other feeds		.01		.03
Pasture		.12		.15
Total feed cost		\$7.32		\$5.73
<u>Labor</u>				
Man hours	3	.62	3 $\frac{1}{2}$.70
Horse hours	$\frac{1}{4}$.02	$\frac{1}{4}$.04
<u>Other costs</u>				
Shelter		.33		.41
Equipment		.02		.01
Interest		.24		.24
Cash		.12		.04
Total all costs		\$8.67		\$7.17
<u>Credits</u>				
Manure	\$.07		\$.10	
Miscellaneous cash	.06	.08	.10	.20
Net cost of 100 lbs. of pork		\$8.54		\$6.97
Average selling price		8.05		10.83
Average pork produced per farm		9981		9327

COSTS AND RETURNS FROM POULTRY
(Per flock)

	1927	1926
Number of farms	18	17
Average number of hens per farm	108	85
<u>Expenses</u>		
Feed	\$122.26	\$82.59
Man labor	53.81	53.02
Horse work	1.30	1.72
Shelter	29.47	29.76
Equipment	9.27	6.49
Interest	8.66	8.13
Purchases	28.38	11.13
Miscellaneous cash expense	5.45	2.44
Total expenses	258.60	195.28
<u>Receipts</u>		
Sales - eggs 489 doz.	\$122.04	335 doz. \$92.24
Sales - poultry	64.54	67.15
Used in house - eggs 186 doz.	37.99	150 doz. 39.36
Used in house - poultry	18.41	14.64
Manure	2.61	1.58
Miscellaneous cash receipts	-	.31
Total receipts	\$245.59	\$215.28
Excess receipts over expenses	-13.01	20.00
Change in inventory	+29.64	-23.21
Gain on poultry	16.63	-3.21
Eggs laid	8379	6102
Pounds of grain	7686	6567
Pounds of commercial feeds(excl. of protein)	348	531
Pounds of protein feeds(purchased)	18	8
Pounds of succulent feed	147	44
Pounds of skimmilk and buttermilk	3990	2503
Labor - man hours	269	265
- horse hours	14	16 $\frac{1}{4}$
	1927	1926
	Range	Average
Cost per dozen, ¢	14.6 - 40.7	21.5
Selling price, ¢	17.3 - 33.6	25.0
Return per hour of man labor, ¢	0 - \$1.06	26.0
		18.8

COST OF TRACTOR OPERATION PER TRACTOR, 1927
(Average of 11 tractors)

Costs	Amount	Per cent of total cost
Man labor	\$13.59	3.5%
Fuel	173.17	44.0
Grease	3.01	.8
Oil	39.13	9.9
Repairs and misc. cash costs	24.10	6.1
Interest	32.73	8.3
Depreciation	107.68	27.4
Total costs	<u>\$393.41</u>	<u>100.0%</u>
Hours used (range 47 to 914 hours)	419	
Cost per hour (range 53¢ to \$2.33)	94¢	

COST OF TRUCK OPERATION PER TRUCK, 1927
(Average of 4 trucks)

Costs	Amount	Per cent of total cost
Man labor	\$8.71	3.8%
Fuel	78.58	34.1
Grease	.31	.1
Oil	10.36	4.5
Misc. cash and repairs	70.85	30.7
Interest	11.81	5.1
Depreciation	20.00	21.7
Total cost	<u>\$230.62</u>	<u>100.0%</u>
Number of miles traveled (range 2050 to 3991)	2997	
Cost per mile (range 6.6¢ to 10¢)	7.7¢	

COST OF AUTO OPERATION PER AUTO, 1927
(Average of 11 autos)

Costs	Amount	Per cent of total cost
Man labor	\$10.92	3.8%
Fuel	59.73	20.8
Grease	.68	.2
Oil	10.97	3.8
Misc. cash and repairs	73.54	25.6
Interest	23.33	8.1
Depreciation	108.18	37.7
Total cost	<u>287.35</u>	<u>100.0%</u>
Miles traveled (range 978 to 6150)	3426	
Cost per mile (range 4.6¢ to 12.1¢)	8.4¢	