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Report 39

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
Freeborn County

Ву

W.P. Ranney and G.A. Pond R.C. Bevan, Field Agent W. M. Lawson, County Agent

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

Second Annual Report of the Better Farming Club of Freeborn County for the Year 1929.

Prepared by V. P. Ranney and G. 1. 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 twenty-three farmers in Freeborn County, Minnesota, have been cooperating during the year 1929 in a farm account project, known as the Better Farming Club of Freeborn County. Three 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, Rice, 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 B. L. Donovan of the Agricultural Extension Division, who aided in closing the books at the end of the year 1929. Hearty support and assistance has been rendered by W. M. Lawson, County Agricultural Agent of Freeborn County.

Type of Farming in Freeborn County.

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

The principal crops grown are corn, oats, barley and hay. These crops are raised primarily as livestock feed altho a seasonal surplus may be sold. Wheat, potatoes, flax and sugar beets are grown to a limited extent as cash crops. These farms are fairly typical of the system of dairy farming prevailing in southeastern Minnesota. This report shows that the receipts from the sales of dairy products constitute approximately one-third, and receipts from hog sales about three-tenths of the average cash income for the 23 cooperators in Freeborn 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 amissions 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 205 acres. The average farm inventory was \$31,025. 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 a few additional cooperators included, the average size is 28 acres above that in 1928, in which year the average size was 177 acres, and average farm inventory was \$26,789. But the distribution of the inventory was practically the same in both years. In 1929, fifty-seven per cent of the average farm inventory consisted of land; 15 per cent of permanent improvements; 8 per cent of feeds and supplies; 7 per cent of machinery and equipment; and 13 per cent of livestock, of which approximately two-fifths or an average of \$1,657 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 25 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 this 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 \$6016. In addition farm produce to the value of \$366 was consumed by the farm family and there was an average inventory increase of \$844 per farm. The total average receipts per farm is the sum of these three items, \$7226. The average total expense per farm, \$2913, includes \$2786 cash expense and an estimated allowance of \$132 for board of hired labor. The difference between the total income and total expense figure is \$4308. 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, \$1552, for the services of capital, there remains \$2756 for the services of the farmer and his family. The average value of family labor used, if computed at hired man's wages was \$322. The average operator's labor earning is the family earnings less their allowance of \$322, or \$2434. 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

In making a comparison of the 1929 results with those of 1928 it should be remembered that there were several changes made and three additional farms included in the 1929 report. The average operator's labor earnings per farm for the farms in 1929 were \$688 higher than for those in 1928. Cash receipts were \$1031 higher in 1929 and the increase in inventory was \$317 higher. Expenses were \$243 greater in 1929, and due to a larger inventory, interest on investment was \$214 higher. Changes in other items were small. The higher cash receipts and inventory increase were due primarily to the increased average size of farms, larger production of park and higher prices for hogs sold. The average price received for the sale of hogs was \$1.21 per hundred pounds higher in 1929 than in 1928. Butterfat prices were lower near the close of 1929, while ex;s averaged the same for both years. The average production of butterfat per cow for the 1929 group of cooperators was 252, while that for 1928 was 240. The group in 1929 produced on the average 3480 pounds more pork than the cooperators who were in the project in 1928. After adjusting cash items for changes in inventory, there was an increase of \$513 in gross returns for hogs and \$295 from cows, with only slight changes for the other classes of livestock.

There were 14 farmers who were in the project in both years. The average carnings for these 14 farmers was \$1627 in 1928 and \$2585 in 1929, which shows an average gain of \$958. Only three farmers had lower earnings in 1929 than in 1928.

Summary of Farm Inven	tories			ų.
Items	Your Farm	Average	High Farm	Low Farm
Size of Farm (acres)		205	426	70
Size of Business (prod. man work units) (1)		712	1194	564
Average Farm Inventory (without house)		\$ 31035.	\$EEFICE.	\$15650.
Land		17779.	37400.	5480.
Farm Improvements		4831.	8135.	1733.
Machinery & Equipment (total)		2056.	4626.	629.
General Machinery & Equipment		1445.	3135.	529.
Tractor		258.	1173.	-
Truck		74.	400.	_
Auto (farm share) (2)		166.	713.	
Gas Engine (farm share)		3 6.	160.	· -
Electrical Equipment (farm share)		77.	606.	-
Feeds and Seeds		2 37 3.	5629.	889.
Misc. Supplies		15.	94.	_
Horses (total)		5 85.	1393.	248.
Horses		540.	1175.	248.
Colts		45.	219.	-
Productive Live Stock (total)		35 96.	8183.	1354.
Cows		1657.	3 753.	615.
Other Cattle		915.	3045.	165.
Hogs		773.	2362.	87.
Sheep		59.	833.	Winter.

Statement of Average Amounts of Live Stock

480.

187.

Poultry

Items	Your Farm	Average	High Farm	Low Farm
Total Horse Animal Units (3)		6.2	9.7	3.0
Horses		5.8	9.0	3.0
` Colts		.4	2.0	-
Total Productive Animal Units		39.1	85.9	18.8
Cows		17.2	26.0	7.3
Other Cattle		10.2	27.1	4.4
Hogs		9.5	21.8	1.0
Sheep		.6	8.5	_
Poultry (hens)		1.6	6.1	-
Number of Cows per Worker		8.6	13.4	5.6
Number of Cows per 100 Acres		9.1	21.0	4.1

⁽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 anit 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.)		\$230.	\$1249.	\$ -
Truck (new & exp.)		129.	931.	
Auto (new & exp.) (farm share)		104.	530.	_
Gas Engine (new & exp.) (farm share)		25.	96.	-
Elec. plant or Current (new & exp.) (farm share)		25.	281.	
Machinery & Equipment (new)		292.	2246.	17.
Machinery & Equipment (exp.)		90.	368.	23.
Bldgs., fences, tiling (new)		121.	587.	-
Bldgs., fences, tiling (exp.)		52.	280.	-
Hired Labor		333.	1033.	
Feed for Livestock		439.	1250.	2.
Other Expense for Livestock		67.	346.	
Horses Bought		44.	300.	
Cows Bought		32.	510.	
Other Cattle Bought		82.	325.	
Hogs Bought		41.	200.	
Sheep Bought		3.	50.	
Poultry Bought		47.	125.	
Crop (Seed, Twine, Spray)		205.	4 50.	
Taxes and Insurance		376.	970.	
Ceneral Farm		24.	67.	-
(1) Total Cash Expense		2786.	5975.	1009.
(2) Decrease in Farm Inventory		~ .	1544.	-
(3) Board for Hired Labor		132.	480.	
(4) Total Expense (sum of 1,2,& 3)		2918.	7750.	1009.
CASH RECEIPTS				
Horses		36.	665.	-
Cows		346.	1708.	
Dairy Products		1995.	3248.	800.
Other Cattle		459.	1416.	21.
Sheep		28.	419.	
Hogs		1844.		136.
Poultry		132.	462.	-
Eggs		303.	1487.	
Small Grain		249.	1626.	
Corn		86.	768.	
Нау		20.	293.	
Root Crops		176.	2553.	
Other Crops		11.	139.	
Miscellaneous		233.	2128.	
Outside		99.	720.	
(5) Total Cash Receipts		6016.	14269.	3050.
(6) Increase in Farm Inventory		844.	3344.	
(7) Farm Produce Used in House		366.	636.	
(8) Total Receipts (sum of 5,6,& 7)		7226.		3605.
Total Expense (4)		2918.		1009.
(9) Returns to Capitol and Family Labor (8-4)		4308.		2113.
(10) Interest on Farm Inventory		1552.	2915.	
		2756.		1030.
(11) Family Labor Earnings (9-10)		322.	900.	
(12) Unpaid Family Labor		2434.	4585.	
(13) Operator's Labor Earnings (11-12)		A#3'4.	₩ ₩₩.	: i*\$**

- 6 -

Summary of Fara Earlings, 19-9 (A)

EXPENSES AND NET DECREASES Items	Your Farm	Average	High Farm	Low Farm
Total Power Machinery & Equipment		\$ 313.	\$1050.	\$ 49.
Tractor		100.	583.	- 87.
Truck		69.	3 88.	-
Auto (farm share)		96.	464.	_
Gas Engine (farm share)		27.	118.	
Elec. Plant or Current (farm share)		2	151.	-
General Machinery & Equipment		214.	547.	-96.
Bldgs. Fencing, Tiling.		204,	599.	-13.
Hired Labor		339.	1038.	
Prod. Livestock Misc. Expense		86.	3 39.	5.
Crop		205.	4 50.	54.
Taxes and Insurance		376.	970.	194.
General Farm		<u> ۲4.</u>	67.	-
Board for Hired Labor		132.	480.	-
Decrease in Crops and Feeds			1047.	
Unpaid Family Labor		322.	900.	
Decrease in Horses		7,	110.	-
Misc. Expense for Horses		ì.	8.	
Interest on Farm Inventory		1552.	2915.	791.
(1) Total Expenses		3774.	6981.	1806.
RETURNS AND NET INCREASES				
Increase in Crops and Feeds		6 86.	3074	_
Gross Returns from all Prod. Livestock		5756.	9583.	2837.
Cows		2482.	4276.	1125.
Other Cattle		826.	2761.	123.
Hogs		1921.	4483.	232.
Sheep		26.	424.	- 29.
Poultry		501.	2085.	_
Outside and Misc. Receipts		114.	930.	
Increase in Horses		-	160.	-
(2) Total Returns and Net Increases		6556.	10727.	3543.
(3) Products used on the Farm		348.	697.	179.
(4) Gross Returns (2-3)		6208.	10493.	3365.
Total Expenses (1)		3774.	6981.	1806.
(5) Operator's Labor Earnings (4-1)		2434.	4585.	774.
Gross Returns per \$100 Expense		169.	279.	111.

⁽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.

Utilizat	ion of Lar	nd and Yield of C	rops - 1929		
Crop	No.Farms growing this crop	Acres per Farm Your Average Farm		per Acre e Highest	Lowest
Wheat	3	2.3	23.3	25.3	19.5
Oats	12	12.6	46.9	80.0	22.7
Barley	13	11.2	33.2	46.7	20.5
Rye	4	2.6	19.9	38.3	6.2
Flax	2	1.7	9.6	11.8	7.4
Wheat & Oats	7	10.0	38.8	46.9	25.6
Oats & Barley	13	20.7	46.5	65.6	30.3
Other Grains & Mixtures	<u> </u>	0.3	69.2	-	-
Total Grain	74-18-18-18-19-19-19-19-19-19-19-19-19-19-19-19-19-	61.4			-
,					
Corn, grain	23	37.7	45.9	66.7	30.0
Corn, silage	20	11.0	9.1	12.5	5.8
Corn, fodder	10	2.8	3.3	4.0	2.4
Potatoes	15	1.2	120.8	230.0	60.0
Sugar Boets	1	0.4	5.2	-	-
Total Cultivated Crops	W. Mar eldder Destination are returned and r	55.1	tin van Mir Min villetiit sejaala - Mritik vip ragegyen		-
Alfalfa	23	10.3	2.8	4.3	1.5
Clover & Clover Mixtures	16	9.1	1.8	2.5	1.0
Timothy	3	0.7	1.4	2.0	0.9
Annual Hay Crops	2	0.2	1.5	2.0	1.0
Wild Hay (on tillable land)	5	1.1	1.0	1.5	0.6
Wild Hay (on non-tillable land	13	7.8	.09	1.5	0.5
Total Hay		29.2	nara ante: , significare escas impromissablem imperimenta escar esca escar escar escar escar escar escar escar		
gemeinteligieren seggene. Jesten i by span spenser sebremmen is der span span ser sebre der sebre der sebre de				-	
Total Crop Acreage	# ***********	143.7			
Sweet Clover Pasture	8	3.6			
Miscellaneous Legume Pasture	9	2.8			
Other Tillable Pasture	11	12.0			
Non-tillable Pasture	17	25.3			
Total Pasture		43.7	gamen german er eine eine eine eine eine eine eine		
Timber - Not Pastured	5	1.8			
Roads & Waste	23	8.3			
Farmstead	25	7.3	ange sage a nggarangge araw Majorandari Milit i Milit i Angalandari Sadif-Militaria		

8.3 7.3 204.8 Total Acres in Farm % of Land Tillable 75.3

EFFECT OF WELL BALANCED EFFICIENCY ON FARM PROFITS

It is quite evident from this report that few farmers have a monoply 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.

A careful observation of the data secured in this report indicates that the farm earnings in 1929 are affected noticeably by the same seven factors as in 1928. These factors are as follows:

- 1. Pounds of butterfat per cow.
- 2. Gross returns above feed cost per unit of productive livestock.
- 3. Number of productive livestock units per 100 acres.
- 4. Index of crop yield.
- 5. Productive man work units per worker.
- 6. Equipment and farm power expense (buildings, fencing, all machinery, horse feed and miscellaneous expense) per productive man work unit.
- 7. Size of business (total number of productive man work units).

In Chart 1 is shown the effect of the number of above factors in which the farmer excels on his labor earnings. The two farmers who excelled in six or seven factors had average earnings of \$2486 above the average of four 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.

No. of Your The length of the shaded lines are Average

Number of	No.of	Your	The length of the shaded lines are	Average
factors	farms	farm	in proportion to the average	operator's
in which			operator's labor earnings	labor
farm excels				earnings
Six or seven	2		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	\$3 998
Four or five	13		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	2672
Two or three	4		XXXXXXXXXXXXXX	1813
One or none	4		XXXXXXXXXXXX	1502

The array in Chart I suggests that it will be worth while for each cooperator to study carefully his ranking on page 9, and note how he stands in respect to each of the above factors and other related factors and measures of efficiency. A further study of pages 11 to 17 may show him the reasons for his ranking in these various measures.

Each cooperator should bear in mind that the amount by which he is above or below the average may be as important as the number of factors in which he is high or low. For example, the farm that ranks lowest in respect to operator's labor earnings, is above the average in four factors, but is so far below the average in two factors that these offset the effect of the other four and reduce his earnings to the low point.

	-		and the state of t	res of I	farm Orga					T	-	···18-754	-
Farm	-	. Index			Returns		f'eed	*1	ases p	er		Prod.	Total
No.	Labor	of	B.F.			per			unit		work	Live	No.
	Earn	Crop	\mathtt{per}		Head	100	Hen	Farm			. Uni ts		
		Yield	Cow	Cow	of	lbs.		Power		Fenc.	-	Units	
					Other				and	and	Work-	-	Work
					Cat-	Pork			${ t Eq}_{ullet}$	Til-	er	100 A	Units
				r della Australia responsazioni segli con	tle					irg			
01.07	ALE DE	110	ome	Acc 04	ARC BO	#0.10	()1 00	<i>6</i> 04	<i>i</i> 5 E0	. D1	410	007 1	100E
2197 2161		113 103	276 255	\$66.94	\$36.70				នុំ . 52	\$.21	419	23.1	1005
2201	4132. 3845.	103	289	79.36	26.93	3.78	1.93	.86	.32	. 33	288	22.1 13.9	690 864
2103	3412.	91	258	81.17	7.17	4.22		1.26	.34	.37	432		866
2103	3359	99 9T	269	94.12 75.13	-5.50	5.07 5.02		.77 .84	.41 .27	.18 .30	377 403	24.9 16.8	846 846
2191	3237.	123	326	117.19	13.73 47.15	4.89			.03	.45	280	15.7	364
2196	3010.	115	255	84.93	30.74	4.73		.74	.15	.34	3 26	22.6	685
2082	2941.	106	204	49.09	16.23	4.14	2.28	1.23	.26	.28	465	25.2	929
2121	2751.	84	227	65.45	12.72	3.82		.93	.33	.21	56 9	23.9	1194
2102	2714.	98	319	118.38	3.78	1.64		.81	.29	.10	293	15.6	733
2031			225	64.11	20.60	2.65		.81	.16	.31	411	20.2	739
2221	2621.	84	245	74.21	14.69	2.93	.89	1.34	.29	.33	337	11.1	1009.
2132	2307.	99	214	61.55	14.03	1.90		.64	.29	.19	518	20.9	621
2022	2241.	.89	284	87.94	13.22	4.41	2.58	.87	.29	.10	287	18.5	545
2062	2198.	92	265	78.69	22.09	5.18	2.07		.15	.19	388	15.1	466
2101	2140.	105	209	57.17	1.68	2.37		.85	.25	.30	410	20.2	860
2194	1734.	102	230	43.12	-4.74	2.39	.73	1.25	.37	.16	411	14.2	576
2198	1333.	89	236	82.97	10.99	.76	3.07	.56	.19	.30	348	15.2	418
2011	1107.	84	200	64.08	94	4.50	1.67	.69	.31	.35	252	17.9	504
2081	. 970.	118	220	52,27	2.11				.22	.09	295	22.7	620
2051			226	66.24	-14.34	38	5.30	.65	.46	03	290	19.7	579
2182	932.	104	291	70.35	43.86	3.88	.87		22	.98	227	39.0	431
2021	774.	116	273	90.68	7.23		-2.10	2.09	. 65	.71	263	21.1	841
	,,	110	~, 0	50.50	1,50	• • •		~,02	•••	• , _	200		V
•													
Aver												-	
age	32434.	100	252	\$75.01	\$13 . 96	\$3.19	\$1.68	្នុំ .93	ន្ត. 28	్థ. 29	360	20.0	712
High	4585.	123	326	118.38	47.15	5.18	5.30		22	03	569	59.0	1194
Low	774.	69	200	43.12	-14.34	. 38	-2.10	2.09	.65	. 98	227	11.1	364

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

Oper.	Ind.	Lbs. B.F.		turns ab	ove feed			nses p	er	Prod. Work	Prod. Live	Total No
Farn.	Crop Yield	per	Cow	Head of other Cat.	100 Lbs. of Pork	Hen		Gen. Mach. and	Blags. Fen. and Til.	Units per Work- er	Units per	
\$4585	123	, .326	\$118.3 8	\$47.15	\$5.18	\$5.30	\$.64	\$22	্ব03	569	39.0	1194
4184	115	302	100.01	38.96	4.69	3.68	.73	.08	.09	510	25.0	1012
3834	112	292	95.01	33.96	4.39	3.28	.77	.12	.13	480	24.0	952
3484	109	282	90.01	28.96	4.09	2.88	.81	.16	.17	450	23.0	892
3134	106	272	85.01	23.96	3.79	2.48	.85	. 20	.21	420	22.0	832
2784	103	2 62	80.01	18.96	3.49	2.08	.89	.24	,25	390	21.0	772
2434	100	252	75.01	13.96	3.19	1.68	.93	. 28	. 29	360	20.0	712
2184	97	24.1	70.01	10.96	2.79	1.28	1.03	.32	.37	340	19.0	662
1934	94	236	65.01	7.96	2.39	.88	1.13	. 36	.45	320	18.0	612
1684	92	228	60.01	4.96	1.99	.48	1.23	.40	. 53	300	17.0	562
1434	89	220		1.96		.08				2 80	16.0	
1184	84	212	50.01	-2,94	1.19	32	1.43	.48	.69	260	15.0	462
774	69	200	43.12	-14.34	. 38	-2.10	2.09	.65	.98	227	11.1	364

Prices Received for Products Sold - 1929

Farm No.	Butterfat per 1b. sold	Eggs per dozen	Hogs per 100 pounds
2197	.51	.31	8.55
2161	.51	.28	9.42
2201	.53	.25	9.95
2103	.52	.33	9.48
2199	.50	. 26	9.05
2191	.50	.23	9.94
2196	.51	. 34	11.22
2082	.51	.31	9.42
2121	.50	.31	9.60
2102	.52	-	8.84
2031	.51	.26	8.70
2221	.51	. 32	9.19
2132	.50	29	8.82
2022	.50	. 27	9.92
2062	. 50	. 26	9.62
21'01	.50	.22	10.44
2194	.48	. 25	9.27
2198	.49	.24	8.46
2011	.50	.27	9.22
2081	.52	.27	9.62
2051	.50	.41	9.58
2182	.50	.29	9.76
2021	.52	-	9.10
			, was now was now you a sign of the control of the
Average	.51	.28	9,44
High	.53	.41	11.22
Low	.48	.22	8.46

Farm	B. F.							t in Dai Cow - Lb			<u>\</u> \	er cov	Total	ilutri-	% Cows	် Per
No.	ner cow	Corn	Small grain	Mill feeds	Oil Meal	Tame		Alfulfu		Silage	Total concen.	Total dry rough- age	digest nutri.	tive ratio	fresh Sert.to Dec. incl.	cent
2191	326	618	2493	41	_		276	827	2758	7998	3152	3861	17.3	1:8.7	70	137
2102	319	510	1594	126	72	-	_	2846	-	7116	2302	2846	17.7	1:6.1	6 7	114
2182	291	266	1535	1404	75	442	-	2039	274	8633	3280	2685	18.0	1:5.9	94	116
2201	289	110	3147	323	-	2223	696	_	-	12566	3590	2922	21,7	1:8.6	100	98
23202	284	217	2121	50	120	516		1892	2493	_	2518	4901	15.1	1:6.7	45	95
2197	27 6	1509	1622	692	4	157-2	-	944	-	13376	3827	2518	24.0	1:5.7	82	118
2021	273		1769	507	-	581	_	2225	6 3 -	8773	2276	3540	18.3	1:6.5	3 5	132
2199	269	-	2843	_		-	+-	3037	760	8656	2843	3797	20.4	1:6.6	୍ର ୨	121
2052	265	81	2415	300	_	17-2	-	-	-	10067	2796	17:2	17.7	1:6.9	92	116
2103	258	221	1932	_	-	-		1659	-	8690	2153	1659	15.1	1:8.0	61	122
2196	255	-	2258	-	103	147	_	2012	-	8440	2361	2159	16.7	1:6.5	75	103
2161	255		1932	546	15	1659	_	1170	-	6634	2493	2829	17.2	1:7.1	53	9 3
2221	245	201	1363	62	5	479	575	2203		7471	1631	3257	16.9	1:6.7	59	105
2198	236	305	2205	_	-	-	929	13 00	619	1671	2510	2848	15.7	1:7.3	55	13
2194	230	-	3 175	-	-	277		1385	1292	6187	3475	2955	22.2	1:7.3	50	111
2121	227	_	2078	165	77	-	-	2538	615	4231	2320	3153.	17.6	1:5.8	68	119
2051	225	308	1097	329	55	659		879	549	5882	1789	2087	14.2	1.7.4	74	104
2031	225	94	2275	90	11	_	_	1/102	673	8750	2470	2075	19.2	1:7.4	17	5 7 .
2081	220	•••	1529	213	**	1477	475	1477	527	759.5	1742	3956	20.6	1:7.0	20-	53
2132	214	_	1560		50	-	_	2114	-	9329	1617	2114	18.0	1:6.7	79	87
2101	209	12	1541	· _	-		-	2235	-	8455	1652	2235	18.2	1:6.7	45	107
2082	204	_	1341	-	-	86	-	2572	514	5315	1341	3172	17.1	1:6.2	9	99
2011	200	118	560	302	-	1054	-	1295	-	6928	980	2259	15.1	1:7.4	0	50
Aver-	0.50	***	10: m	00=	0.0	m 2.6	. 00	No. of the sec	***	* ** 0.5	050=	00.55	.			205
age	252	199	1947	225	26	562	128	1655	506	7 490	27 97	2651	17.8	1:3.9	57	105 .

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Feed Costs and Returns for Dairy Cows - 1929 (per com basis) 1/8 E.F. Value of Produce per com Returns Farm Feed ner cow Feed Concen.Rough. Pasture Total No. cost B.F. Dairy Milk Annrec. Total Denr. Net 3pove volun- heifers ner are of 0077 cost ner sales mod. to value feed tory of sales total lbs. lb. other cost used B.F. in live-י הסיורר ner COWS (cents) house stock COW \$ 9.62 \$193.32 \$193.32 \$117.19 2191 326 \$38.13 \$32.28 \$5.72 \$76.13 \$134.46 \$21.54 \$27.70 11 23 14 2102 319 188.71 24 25 29.18 35.29 5.86 70.33 22 154.06 9.84 17.33 7.48 188.71 118.38 2182 291 51.23 34.81 6.48 92.52 32 134.53 7.65 15.27 5.46 162.87 162.87 70.35 20 5 2201 289 93.46 32 141.13 5.08 17.63 174.63 174.63 81.17 11 51.04 37.78 4.64 10.79 114 2022 24 284 25.24 133.60 5.46 17.73 156.79 2.89 153.90 87.94 34 33.57 7.15 65.96 _ 2197 276 39.97 37 127.60 5.20 27.42 7.98 168.20 168,20 66.94 16 11 55.64 5.65 101.26 2021 273 165.96 22 28.10 29.18 39.11 6.99 75.28 28 129.46 3.84 4.56 165.96 90.68 16 2 2199 269 35.64 43.12 5.44 64.20 31 121.78 8.56 29.30 159.64 .31 159.33 75.13 15 1 2062 265 39.62 30.88 5.66 76.16 29 120.37 6.30 24.83 3.35 154.85 154.85 78.69 10 24 20 4 2103 258 28.29 27.81 5.94 62.04 123.92 6.71 23.07 2.46 156.16 156.16 94.12 127,69 12 2196 255 30.99 33.05 5.37 69.41 27 4.53 18.51 7.61 154.34 154.34 84.93 10 9 2161 255 32.73 30.39 5.38 68.50 27 123.72 3.93 14.59 5.62 147.86 147.86 79.36 15 2221 245 26 116.94 4.98 21.10 143.02 5.24 137.78 74.21 4 20.56 36.64 6.37 63.57 14 26 2198 236 29.76 19.09 56.32 24 99.05 10.52 22,29 7.43 139.29 139,29 82.97 7.47 6 43.12 37 2194 230 48.23 28.39 7.08 83.70 36 95.26 8.77 19,08 3.71126.82 126.82 31 227 21.92 .59 133.17 133.17 65.45 2121 30.57 29.73 7.42 67.72 30 106.83 3.83 2051 226 24.50 21.25 7.29 53.04 23 100.79 6.67 17.33 124.79 5.51 119,28 66.24 16 1 225 30.23 22.19 64.11 22 2031 30.92 6.31 67.46 30 100.35 8.46 .57 131.57 131.57 220 5.89 16.42 6.01 119,99 52.27 15 2061 22.46 39.32 5.94 67.72 31 105.69 126.00 120.92 7.23 3.52 44 5 2132 214 20.07 34.08 5.22 59.37 28 98:40 18.81 124.44 61.55 209 121.62 121.62 17 2101 23.95 33.73 6.77 64.45 31 94.39 8.66 18.23 .34 57.17 10 2082 204 16.25 31.76 5.91 53.90 26 92.33 9.28 15.58 117.19 14.20 102.99 49,09 17 7 28.01 8 2011 200 13.49 6.58 48.08 24 88.35 8.10 13.44 2.27 112.16 112.16 64.08 Aver-1 h. 252 32.00 32.26 6.20 70.46 28 115.95 7.35 20.34 147.11 1.64 145.47 75.01 20 11 . 3.47

age

Feed Costs and Returns for Young Cattle - 1929

Farm	F	eeds I'se	d rer "e	ad, Lbs	•		Feed C	osts re	r Head		Net	Net	9,
No.		. Нау & Fodder	Silage	Whole Milk	Skim- Milk	Concen.	Rough	Milk	Pasture	Total	value of product per head	value of Prod.above feed cost per heid	death Loss
2191	2468	423	2748	314	2509	<u></u> \$29.69	ÿ 8.24	§13.51	\$ 1.32	\$52.76	<u> ទ</u> ទ99.91	\$ 47.1 5	11
2182	7	1080	2335	136	2100	.12	12.13	8.70	1.16	22.11	65.97	43.86	53
2197	1257	800	2971	3 00	3162	17.05	9.54	14.00	1.60	42.19	78.89	36.70	14
2196	362	69/2	1852	162	1234	4.81	8.68	6.37		21.52	52.26	3 7.74	15
2161	203	872	1648	108	1917	2.47	8.53	7.27		20.13	47.06	26.93	5
2062	221	549	2015	293	918	2.68	7.42	8.22	2.46	20.78	42.87	22.09	-
2031	735	997	2658	226	1802	8.45	11.55	9.35	.95	30.37	50.90	20,60	· -
2982	229	1980	1680	235	1733	2.68	15.51	9.74	2.11	30.04	46.27	16.23	24
2132	278	379	1769	152	782	3.17	5.56	5.03	2.43	16.19	31.16	14.97	6
2221	105	861	-	146	1404	1.16	4.93	6.64		14.47	29.16	14.69	20
2199	886	1186	3122	199	1703	11.16	13.78	9.60		36.56	50,29	13.73	11
2022	515	2983	-	259	2211	6.32	14.98	10.79	1.97	34. 06	47.28	13.22	26
2121	3 09	1691	37 6	86	1120	3.62	9.04	4.77	3.09	20.52	33.24	12.72	9
2198	3 59	1390	329	198	2013	4.26	7.50	9.77	4.04	25.57	36.56	10.99	-
2021	525	2176	3649	278	2293	6.70	20.14	11.51	1.52	39.87	47.10	7.27	7
2201	253	1004	1545	215	2966	4.72	7.78	11.79	2.66	26.95	34.12	7.17	-
2012	893	1556	2445	131	1575	11.14	16.22	7.50	1.80	36.66	40.44	3.78	56
2081	2.2	1305	2611	266	1.64	2.84	12.60	9.05	2.10	26.59	28.70	2.11	
2101	384	11-1	2281	114	2166	5.33	11.36	7.73	1.42	25.84	27.52	1.68	10
2011	266	405	2967	167	1392	3.00	8.36	7.33	2.54	21.23	20.29	94	13
2194	1113	1174	2768	378	822	15.03	11.28	9.72	3.43	39.46	34.72	-4.74	17
2103	980	485	1778	156	2092	11.20	6.59	9.20	• 78	27.77	22,27	-5.50	3 6
2051	550	573	1966	482	1773	6.56	6.39	15.51	2.69	31.15	16.81	-14.34	25
Aver-													÷
age	576	1118	1979	217	1789	7.12	10.35	9.27	2.08	26.82	42.78	13.96	16

Factors of Cost in Pork Production - 1929

	Lbs. of Feed per 100 Lbs. of Pork Value of Feed per 100 Lbs. Returns Total													
Farm											Returns	Total	Averag	
No.	Corn		Mill Constant	Total	Tank.	Skim-	Grain	Tank &	Pasture	Total	above	No. of	No. of	
		grain	feeds	grain		milk	& mill	Skim-			feed cost		nigs n	
							feeds	mi 1k			ner 100 1bs. nork		litter	
		·								***********		·····	· · · · · · · · · · · · · · · · · · ·	
2062	194	105	-	299	***	419	33. 56	្នំ1 . 05	ដូ .18	0 4.79	\$5.18	9	6.9	
2103	130	104		234	_	611	2.95	1.53	.14	4.62	5.07	16	6.8	
2199	245	31	-	276	_	171	3:30	.43	.15	3.88	5.02	18	8.4	
2191	275	171	3	449	_	234	5.43	•59	-	6.02	£:89	3	6.4	
21 96	191	157	9	357	1	695	4÷40	1.76	.19	6.35	4.73	13	5.2	
2011	207	106	4	317		3 06	3.95	.77	.21	4.92	4:50	12	7.7	
2022	366	22		388	4	220	4.87	.71	.27	5.81	4.41	15	8.1	
2201	373	3 5	15	427	12	18	5.48	.51	.21	6.20	4.22	26	6.5	
2082	330	68	_	398	-	305	4.81	.76	.13	5.70	4.14	14	6.5	- 1
2182	71	250	**	321	_	1114	3.49	2.78	.22	6.40	3.88	2	5.0	•
2121	253	139	-	392		361	4.05	.90	.25	5.80	7.82	37	6.5	,
2161	285	-		28.5	-	1152	3.42	2.88	.26	6.56	3.78	4	7.0	
2221	31 5	1.78	-	453	1	434	5.54	1.12	. 26	5.94	2.97	20	4.7	
2731	353	85	-	438	-	3E 1	5.12	.95	.11	6.18	2.65	14	7.6	
2194	481	40	-	521		247	6.42	.62	.37	7.41	2.79	15	5.4	
2101	339	265		604		303	7.36	.76	.17	€.29	2.37	19	6.8	
2197	250	1 6ö	5	.21	i _x	3 00	5.45	.93	.20	6 .58	2.19	15	5.7	
2132	318	130	_	12 × 28	***	689	5.35	1.72	.25	7.32	1.90	8	4.8	
2081	392	151	11	55/2	-	4.5	5.88	1.11	.2(8.22	1.74	8	5.2	
2102_	2	29	_	471	1	5-5	5.81	1.39	.15	7.3ö	1.64	13	5.2	
2721	355	226	8	589	2	262	7.50	•75	.27	8.52	.87	17	6.7	
2198	460	119	3	582	1	144	7.07	, 49	.42	7.98	.76	14	5.9	
2051	38?	198	3	584	-	873	7.04	2.18	.25	9.47	.38	10	7.7	
average	305	119	3	42 6	1	445	5.21	1.16	.21:	6.58	3.19	14	6.4	

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Feed Costs and Returns for Poultry - 1929

Rarm		ed (lbs.)	Cost of			17- 1	100	Returns	Eggs	•	
No.		00 Hens	100 P				ue per 100		above	laid	
	Concen.	Skim-	Concen.	Skim-	Total	Eggs	Poul try	Total	feed cost	ner	
		milk		milk					per 100 Fens	Fen	
2051	16795	17191	\$205.03	\$42.97	\$248.00	\$340.87	\$436.63	\$777.50	\$529.50	118,	•
2198	13645	6627	174.17	16.57	190.74	128.47	369.69	498.16	307.42	62	
2196	6701	-	162.16	_	162.16	335.20	106.52	442.72	280.56	120	
2132	4162	4664	63.87	11.66	75.57	211.03	126.45	337.48	261.95	87	
2022_	9803	106	170.42	.26	170.68	375.20	53.45	428.65	257.97	163	
2103	13528	7676	190.06	19.18	209.24	364.39	101.17	465.56	256.32	132	
2082	7802	4738	102.78	11.84	114.62	257.25	85.03	342.28	227.66	99	
2031	9714	3195	146.00	7.99	153.99	255.81	123.18	378.99	225,00	117.	
2191	3783	5842	51.43	14.60	66,03	76.38	205.02	281.40.	215.37	36	
2062_	6759	2717	123.24	6.79	130.03	337.02		337.02	206.99	153	
2161	11478	6643	193.31	16.60	209.91	331.66	71.65	403.31	193.40	141	16
2011	13742	8930	183.40	22.33	205.73	298.58	74.45	373.03	167.30	129	1
2201	12539	***	193.02	_	193.02	128.11	201.21	329.32	136.30	61	
2197	18311	10000	248.31	25.01	273.38	195.90	206.30	402.20	128.88	83	
2081_	541 8	2159	124.94	5.40	130.34	222.94	17.71	240,65	110.31	99	
2199	4 3 0 3	1875	53.82	4.68	58.50	113.38	50.21	163.59	105.09	51	
2221	7983	3964	117.04	9.91	126.95	120.65	95.04	215.69	88.74	46	
2182	14560	10876	295.07	27.17	322.24	297.44	112.16	409.60	87.36	125	
2121	8435	15132	100.10	37.83	137.93	160.61	63.00	227.61	85.68	62	
2194_	6435	3746	77.80	32.15	109.95	130.40	52.14	182.54	72.59	65	
2101	8667	3403	113.83	8.51	122.34	85.79	-11.20	74.59	-47.75	38	
2021	17630	2903	255.16	7.26	262.42	60.03	- 7.63	52.40	-210.02	33	フ
Aver-											
age	10109	5563	152.05	14.94	166.99	219.46	115.10	334.56	167.57	92	• /

Feed Cost for Horses - 1929

Farm	% Colts	Feed	per Horse	(lbs.)	Ty.	eed Costs	Cron Acres per Horse			
No.	are of Horses	Grain	Tame Hay & Alfalfa	Wild Hay & Fodder	Grain	Rough.	Pasture	Total	Vith	Vi thout Tractor
2191	_	992		2000	\$12.61	\$ 8.60	\$ 3.25	\$24.46	-	16
2051	-	1350	2000	667	15.96	10.25	3.81	30.02	-	18
2162	_	-	3 000	1750	-ù	31.25	5.70	36.95	14	-
2062	3	1944	1178	884	24.02	10.46	4.38	38.86	_	15
2201	26	1944	2293	1529	23.15	14.91	5.11	43.17	3 8	-
2081	16	1824	_	4853	27.31	16.90	3.14	43.35	20	-
2011	_	2419	1334	1000	30.83	11.00	3.54	45.37	•••	14
2022	-	2961	676	676	36.51	5.74	3.22	45.47	_	20
2198		1920	_	3625	23.68	12.88	9.58	46.14	. 🖦	- 3 0
2197	·	2513	2000	1500	32.79	13,50	4.02	50.31	25	-
2101	_	2943	857	**	40.10	6.86	4.79	51.75	25	
2132	_	3530	_	2500	42.55	7.50	2.50	52.55		27
2082	6	2665	1795	2308	31.80	19.49	2.80	54.09	21	
2196	<u>-</u>	3720	1250	_	45.93	10.00	_	55.9 3	30	_
2161	8	314 5	3619	_	36.23	18.75	4.10	59.08	22	•
2199		43 00	1429	1429	53.22	10.93	3.75	67.90	••	25
2031	****	3701	1903	2196	44.90	22,25	4.48	71.63	-	21
2021	16	2405	3198	5 33 0	30.47	36.67	5.72	72.86	20	
2221	7	4637	_	4326	60.69	15.76	1.72	78.17	36	-
2121	14	4076	1143	3715	50.82	22.28	5.63	78.73	3 5	-
2103	25	4294	4750	-	52.99	28.00	3.42	84.41	23	_
2102	10	4786	762	6477	57.09	28.38	3.90	89.37	33	
2194	-	7160	3000	3 500	98.20	25.50	2.70	126.40	3 9	
Aver-					•					
age	6	3011	1573	2186	37.73	16.86	3.98	58.57	27	21

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