

Seventh annual report of the Coon Creek farm account work: Coon Valley, Wisconsin. Part 1--small farms (January 1940 to January 1941). Part 1 January 1940 to January 1941

Wisconsin Agricultural Experiment Station in cooperation with soil conservation service and bureau of agricultural economics, United States Department of Agriculture [s.l.]: [s.n.], January 1940 to January 1941

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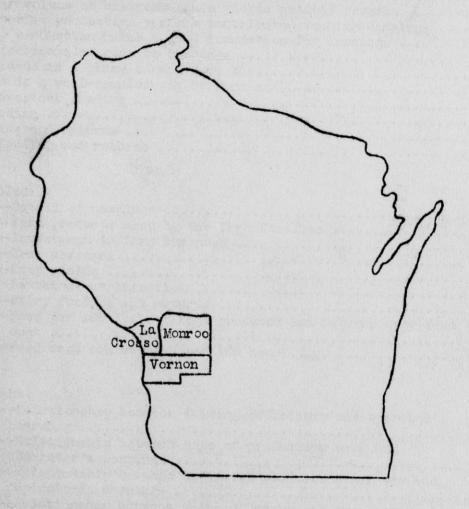
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VERNON, MONROE, AND LA CROSSE COUNTIES

SEVENTH ANNUAL REPORT OF THE COON CREEK FARM ACCOUNT WORK COON VALLEY, WISCONSIN

Part 1 - Small Farms

(January 1940 to January 1941)



NAME

Wisconsin Agricultural Experiment Station in cooperation with Soil Conservation Service and Bureau of Agricultural Economics United States Department of Agriculture

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SEVENTH ANNUAL REPORT OF THE COON CREEK FARM ACCOUNT WORK COON VALLEY, WISCONSIN

Part 1 - Small Farms 1

H. O. Anderson², D. M. Keyes P. E. McNall

Let us look at the farm records to see what can be done to increase earnings on your farm. As we read this report, comparisons can be made between your farm and the average of similar farms in your neighborhood. Comparisons can also be made with farmers who do a better than average job on some parts of the farm business.

Summary of Earnings

The net returns for labor and management of the operators (table 1) of the 24 small farms included in this report was \$911 or an average of over \$20 per crop acre as compared with \$15 per crop acre for the group of small farms in 1939. Those amounts were left after paying all farm expenses and allowing for changes in inventorial value, unpaid family labor and interest on investment. Operator's earnings on these farms ranged from \$257 to \$1587, the farms being under \$600 and 7 farms above \$1200. Some of the reasons for these differences are discussed in this report.

Income and Exponses

As usual, gross income was greater on the highest net earnings farms than on those yielding lower earnings, table 1. While this advantage was due chiefly to greater gross receipts from dairy and tobacco production, receipts from all other sources were also about average. The highest net earning farms had slightly higher farm expense than the low earning farms.

The summary of Coon Valley farm records for 1940 has been prepared in two sections, Part 1 for farms with less than 65 acres of crops and Part 2 for farms above this size.

²Associate Soil Conservations Cooperative Agent, Division of Research, Soil Conservation Service; and Professor of Agricultural Economics, University of Wisconsin, respectively.

Table 1 .-- Detail of earnings, 24 small farms, Coon Creek, 1940

Table 1Detail of earnings, 24	Your farm	Av.24	7 highest	7 lowest
a	Larm	farms	profit farms	profit farms
Cash receipts				
Butterfat sales		\$955	\$976	\$812
Cattle sales		257	266	236
Poultry and egg sales		111	54	100
Other livestock sales	or Samuel of the	160	235	106
AAA payment		62	55	57
Tobacco sales	-	274	380	198
Other crop sales		31	25	25
Miscellaneous income		172	70	81
Cash farm receipts		\$2022	\$2061	\$ 1 615
Produce used in the home		211	252	211
Invontory increases		578	1045	248
Gross receipts	-	\$2811	\$3358	\$2074
Cash oxpenses				
Food purchased		139	107	147
Farm share of auto expense		82	83	65
Equipment expense		50	53	43
ivostock expense		45	37	35
Crop expense		117	129	99
abor hired		102	160	89
Real estate expense		20	17	11
Paxes		123	146	108
Insurance		17	19	13
Miscellaneous expense		25	28	25
Cash operating expense		\$720	\$779	\$635
ivostock bought		68	111	51
Roal estate improvement		180	239	62
Equipment bought		254	170	252
inventory decreases		57		62
Inpaid family labor	160 <u>on 11.</u> 500	137	144	149
Farm expense	s, had Teel, d	\$1416	\$1443	\$1211
Net farm income		\$1395	\$1915	\$ 863
Interest on investment	The second	464	492	466
Operator's earnings	Carrier i	\$911	\$1423	\$397
Operator's carnings:				
Largo farms (Part 2-summary)	\$1590			
Large and small farms	1220			
	1220			

Farm Produce Used in the Home

Tablo 2 Farm products u	sed by the farm	families, 24	small farms, C	oon Creek, 1940
AND AND ADDRESS OF THE PARTY OF	Your farm Quantity Value	24 farms	7 highest profit farms Quantity Value	
Eggs, dozen		121 \$16 15 7	150 \$19 16 7	90 \$12 17 8

Eggs, dozen	į.	121	\$16	150	\$19	90	\$12
Poultry, number		15	7	16	7	17	8
Milk, quarts		1019	30	1067	32	750	23
Croam, pints			13	246	25	123	12
Veal, pounds		133	3	50	4	73	5
Pork, pounds		461	23	50 624	31	571	28
Beef, pounds		19	1			64	
Potatoes, bushels		25	12	27	13	27	13
Canned products, qts		158	24	176	28	131	20
Garden produce			46		57		46
Wood, cords		9	36	9	57 36	10	40
Average value per farm			\$211		\$252		\$211
No. persons in family	-		4.6		5.1		4.6

Farm produce used by the farm families amounted to almost 1/4 of the net income on these farms. About one-half of this amount came from products such as fruit, vegetables and fuel wood, for which a ready market is not available. This is a good way of utilizing family labor which may not otherwise be fully employed. The range in income from this source was from \$97 to \$426. While the amount of food and fuel that can be used by the family depends on the size of family and the size of the home, this item is of considerable importance on small farms.

Wood Products Used

In addition to obtaining fuel from the farm, an avorage of 204 posts were cut on 33 of the farms in this area on which these records were kept. The average value of home grown posts and fuel used on the farm and in the home was \$73 or an average of about \$4 per acre¹. Lumber, averaging 4,500 board feet per farm was sawed by four farmers. Items such as these reduce the cash expenses of the farm and are important sources of farm income.

Size groupl	No. farms	Acros ¹ woods		s, fuel Value		osts Valuo	Total value	Value per acre
20 acros and under Over 20 acres	20	11 29	10 15	62 \$\f2	178 244	\$21 29	\$63 91	\$5.73 ² 3.14
Avorage	33	18	12	49	204	54	73	4.05

The acreage of woods was computed by adding one-half of pastured woods to the ungrazed woods acreage.

²These farmers undoubtedly cut more than the annual growth.

Investment

While the farms on which the highest earnings were obtained were slightly larger and comprised larger investments than the average of all of the 24 farms in this group, table 3, differences in total investment does not appear to have been the principal cause for differences in earnings.

Table 3.--Invostment in real estato, machinery, supplies, feed, productive live-stock, and horses, 24 small farms, Coon Creek. 1940

Company of the Company of the Company	Your farm	Av.24 farms	7 highest profit farms	7 lowest profit forms
Crop acres	1400,000,000	44.6	48.8	37•5
Land Buildings Machinery and equipment Supplies Foods Productive livestock Horses		\$3307 3516 723 208 489 1178 265	\$3365 3521 602 374 490 1175 313	\$3459 3136 777 177 415 1133 231
Total invostment	-	\$9,686	\$9,840	\$9,328

Crop Production

The weather was favorable for the production of crops in 1940. As a result, yields of corn, grain, hay and pasture were above normal and excellent stands of hay and pastures were obtained from new seedings. Tobacco yields were good except where the crop was damaged by hail, but the quality was poor on many farms where hail, rust or shod burn occurred.

Hay acreages were large both on the highest earnings farms and on those with low earnings, comprising 61% of all cropland on the former and 60% on the latter farms. A slightly larger acreage of tobacco was also raised on the highest earnings farms, table 4. This undoubtedly made possible the larger sales of dairy products and tobacco. The differences between the two groups in crop yields, table 5, do not appear to have contributed to the difference in income except possibly in the case of tobacco.

Table 4.-- Crop acreages of 24 small farms. Coon Valley, 1940

Table 4Crop acreages of 24 sms	Your farm	Av.24 farms	7 highest profit farms	7 lowest profit farms
	acres	acres	acres	acres
Alfalfa hay		3.1 10.6 6.5 3.1 1.8	3.5 12.7 8.7 3.5 1.6	2.2 12.8 1.1 3.0 3.0
Total hay		25.1	30.0	22.1
Corn silage		5.2 .1 6.0	4.8	3.8 5.8
Total corn		11.3	11.1	9.6
Oats Barley Other grain		2.6 1.2 2.2	1.2 1.2 2.0	3.1 1.3
Total grain		6.0	4.4	4.4
Tobacco		1.8 .4	3.0 •3	1.1 •3
Total acres in crops Total acres in farm		118.8	48.8 119.8	37•5 122•9

Toble 5 -- Cron wields 21 small forms Coon Crack 1910

	Your farm	Av.24 farms	7 highest profit farms	7 lowest profit farms
Alfalfa hay, tons		2.1 1.8 1.0 1.2 2.0	1.9 1.4 1.2 1.3 2.6	3.0 1.8 1.1 0.9 1.7
Corn silage, tons Corn grain, bushels		5.2 58	9.8 63	10.6 54
Oats, bushels Other grain, bushels	\$	43 57	54 58	35
Tobacco, pounds		1499	1651	1397

Livestock Production

More hogs and fewer sheep were kept on the highest earning farms than on the others, table 6. The former group also had a larger crop acreage per farm, and had 1.9 acres of crops per animal unit as compared with only 1.7 acres of crops per animal unit on the lower profit farms. The average butterfat production per cow was 256 pounds and livestock returns per \$100 worth of feed on the high earnings farms was \$237 as compared with averages of 204 pounds and \$184 respectively for the other group.

Table 6.4-Livestock organization, 24 small farms, Coon Creek, 1940

	Your farm	Av.24 farms	6 highest profit farms	6 lowest profit farms
Cows, number Young stock, number Bulls, number Ponk produced, cwt. Poultry, number Shoep, number Horses, number		13 8 1 21 63 5 3	13 9 1 32 46 1 3	12 8 1 17 65 7 3
Crop acros per animal unit .		1.9	1.9	1.7

What Factors Contribute to Larger Earnings?

Efficient use of food adds dollars

Efficient use of feed was again one of the most important factors in producing high earnings, figure 1.

Livestock returns for feed is important because feed constitutes the largest single item of cost in livestock production. Highest returns from feed are usually obtained from higher producing livestock. Good quality roughage, grain, and pasture are also essential to economical production.

Differences in returns from feed fed to dairy cows, hogs, and poultry are given in tables 7, 8, and 9.

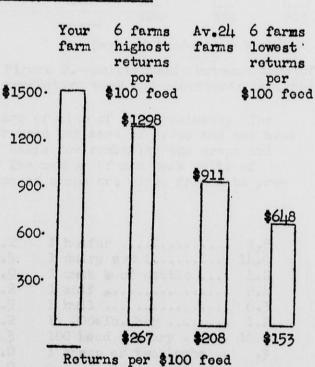
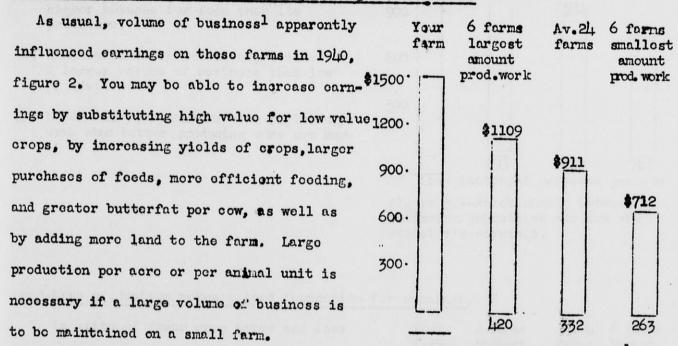


Figure 1.--Relationship between feeding efficiency and operator's earnings.

Careful pasturing of stubble fields, new seedings, and meadows in the fall will cut down the amount of barn feeding required. Skimmilk and whey should be fed to livestock which can use them to best advantage. Corn stover and corn feeder may be fed to work horses, and in limited amounts to young cattle and dry cows.

The larger volume of business again yields greater neturns



Days of Productive Work1

Figure 2.--Relationship between days of productive work and operator's earnings.

Days of productive work are used as a measure of size of farm business. The average number of ten-hour days of man labor used per acre of crops and per head of livestock other than horses is used as a basis for combining the crops and livestock into one single measure of size. The number of men work units of productive work for each animal and each acre of crops are taken from data presented in Wisconsin Research Bulletin 83.

Days of productive work to care for:			
l acro alfalfa silago (1 cutting)	1.2	l hoifer	3.8
l acre alfalfa	1.5	1 duiry eow	11.0
1 acre other hay	9	1 weit boof cattle	11.2
l acre oats or barloy	1.2	1 orlf	2.1
l acre corn grain	2.5	1 bull	6.3
1 acre corn hogged off	1.2	1 2000 lb. hog	1.2
l acre corn silege	2.3	100 head poultry	16.0
l acro clover or timothy seed	1.0	1 sheep or two lambs	2
l acre tobacco	20.0	T ST. GOP OF ONO TRAINES (• >
l acre canning peas or soybean silage.	1.9		

High butterfat production per cow contributes to high earnings.

Average labor earnings were higher on farms with the heavier butterfat production per cow, figure 3. Heavy production of butterfat per cow tends to be profitable because:

- (1) Higher producing cows usually give higher returns for feed than low producors.
- (2) High butterfat production provides a larger volume of business than low production.
- (3) Labor and equipment is more efficiently used when better producing cows are kept.

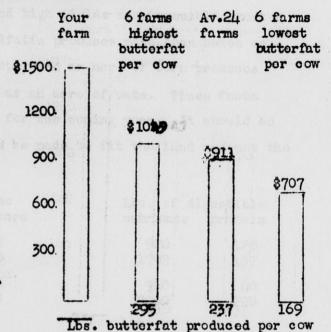


Figure 3.--Relationship between butterfat production per cow and operator's earnings.

Good Crop production makes a good foundation for earnings.

In spite of fewer crop acros and loss production per cow, farms producing tho highest value of crops per acro showed the higher labor earnings than the average, figure 4. If you are not raising legume hay or if your yields were less than 24 tons per acre last year, neadow improvomont should be first on your "must" list for the coming year. Hay land should be reseeded before quack and blue grass take the place of the logumes. Tobacco yields have been favorable during the past fow Tobacco may be desirable if it fits into your soil conservation program and your labor supply. The acreage of small grain should be kept to a minimum.

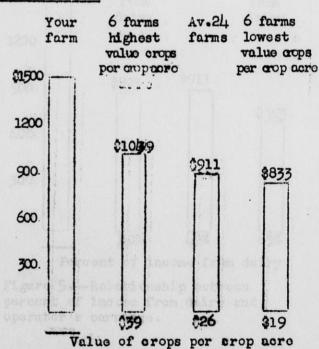


Figure 4.--Relationship between value of crops per crop acre and operator's earnings.

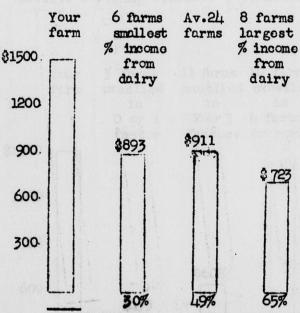
Production of high yielding crops is a means of increasing volume of business as the right kind of feed crops and high yields make possible greater livestock carrying capacity. An acre of alfalfa produces more than twice as much feed value per acre as an acre of timethy and an acre of corn produces nearly twice as many dollars worth of feed as an acre of eats. These facts should be kept in mind when plans are made for the coming year. It should be remembered that the cropping program should be made to fit the land and not the livestock.

orage iold	Crop	Valuo per acro	Lbs. of di	gostible protein
bushel bushel	Oats Corn	\$12 20	920 1792	128 157
ton tons	Timothy hay Alfalfa hay	8 20	940 2000	60 220

Diversification also adds to earnings.

Divorsified production usually is desirable from the net earnings standpoint, figure 5. Study possibilities on your farm to see if your present enterprises are worked to the best advantage and to see if another source of income may be developed.

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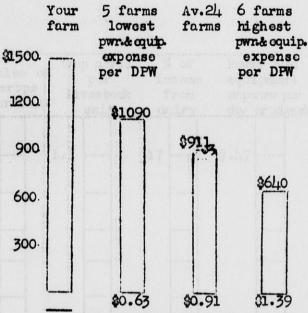


Percent of income from dairy

Figure 5.--Relationship between percent of income from dairy and operator's carnings.

A ponny saved is a penny carned.

Low power and equipment costs per unit of production should help to keep carnings high. Weigh carefully the needs for, as well as the costs of, new equipment before it is purchased. Operators of small farms may save money by joint ownership of some of the machinery and equipment. Machinery that is used only for a few days each year may be rented.

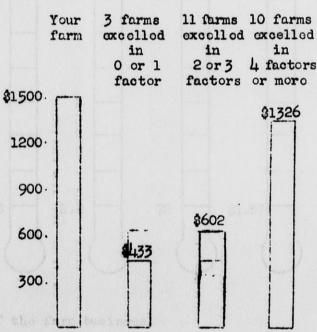


Power and Equipment Expense Per Day of Productive Work

Figure 6.--Rolationship botween power and equipment expense per day of productive work and operator's earnings.

It pays to do a woll-rounded job of farming.

That it pays to do a well-rounded job of farming is indicated in figure 7 which shows that operators who are above average in 4, or more, of the 6 important factors, days of productive work, livestock returns for feed, pounds of butterfat per cow, value of crops per crop acro, diversification and power and equipment efficiency, have more than twice as large operator's carnings as these who are above average in two factors or less. None of the farmors were above average in all six factors.



Your farm excelled in ___ factors.

Figure 7.--Relationship between number of factors in which farm excels and operator's earnings

Operator's carnings	Days of prod. work	Livestock roturns por \$100 feed	butt		Value crop per C	S 14	p acros per vestock unit	% of incomo from dairy	Power and equipment expense per day prod.wor
1572 4	79	\$287	298	8	57	1.1	9253 933 977 9 927 93325	17	\$.47
The hi more		ne de l'est	BCOD 791		953 053		det		
a schab			Yeta <u>w</u>	e vine to	H				aboro tores
				Tour From			270 Ja Q 3 223 25,636 597	inet in a	
911 33	2	208	237	\$6	26	1.9		49	\$.91
Local Documents of the control of the pro-to-in								565 554	103
Total codeo	70 08			oten kan	H			30	
owhich hay						956 910 51			
237 239	don	\$138	136	\$1	.8	2.8		72	\$1.87
\circ	\bigcirc	0	()	()	9841 (0	\bigcirc

Figure 8 .-- Find the strong and weak parts of the farm business.

Efficient Livestock Feeding

Efficient production in major farm enterprises is necessary if high operator's earnings are to be obtained. Compare the efficiency of your livestock feeding with the average.

Dairy Fooding.

Botter feeding and management may produce returns such as those obtained by the eight better producing hords. These herds paid \$2.67 for each dollars worth of feed as compared with less than \$2 paid by the lowest producers. It should be noted that the higher prices for butterfat were received on the farms of the highest producers.

The highest producing herds:

- a. were fed twice as much concentrates and silage per cow
- b. utilized food more efficiently and notted more than twice as much above food cost per cow.
- c. probably produced greater returns with less labor per pound of butterfat.

Table 7 .-- Dairy feeding and returns over feed cost, 44 farms, Coon Croek, 1940 8 forms with 7 farms with Your Av.44 highest B.F. lowest B.F. Farm farms per cow per cow Number of cows 16.5 15.5 15.0 Butterfat sales per cow 215 263 157 Total B.F. produced per cow .. 236 287 174 Price of butterfat per 1b. ... \$.348 \$•356 \$.316 Lbs. feed per cow Small grain and corn 652 669 432 Modium protein food 232 364 93 10 High protein feed 36 30 Total concentrates 920 1063 535 Alfalfa hay 1952 2236 2332 Mixed legume hay 956 692 731 Soybean hay 210 154 391 Grass hay 51 16 82 Total hay 3169 3536 3098 Silago 5883 7228 3478 Straw and fodder 809 947 1174 Total roughago 11273 9861 8188 Pasture charge \$5.59 \$5.74 \$5.87 Total food cost \$39.53 \$43.90 \$34.12 Total value of butterfat \$82.17 \$102.46 \$55.06 Roturns over feed cost \$42.64 \$58.56 \$20.94 Returns por \$100 of food 3242 \$268 \$195

Hog Feeding and Returns.

The better hog men:

a. produced hogs with a third less corn and grain per pound of gain

b. fed more protein concentrates

c. received \$1.79 per dollar's worth of feed consumed by the hogs, while the less efficient swine herds did not pay full market price for the feed consumed.

A complete swine sanitation program:

- a. is a corn and grain saver. It also works well in a soil conservation program. Save both ways.
- b. may make it possible for you to raise more hogs, thereby increasing your volume of business.
- c. reduces death losses and produces faster gains.

d. is a program of cleanliness:

- 1. Clean hog house and feeding floor and scald with hot water and lyo.
- 2. Wash the uddors of the sows before farrowing.

3. Use rotation hog pasture.

Table 8.--Feed per 100 lbs. of hogs produced and returns over feed cost, 31 farms, Coon Creek, 1940.

Acethering a standard and horas as solven. Normalian ad augus gear tens.	Your farm	Av.31 farms	highest returns over feed cost	
Pounds of pork produced Avorage marketing weight		4974 221	6389 235	4779 206
Lbs. feed per cwt. pork Corn		일 ₊ 0 129	181 11/4	324 158
Total grain		369	295	482
Commercial foed		8	11	7
Total concentrates Milk or buttermilk	And Control of Control	377 461	306 165	489 8 27
Food cost per cwt. pork Price of pork per cwt Returns over food cost per		\$4.33 5.71	\$3.34 5.99	\$5.74 5.58
ewt. of pork		1.38 \$132	2.65 \$179	-0.16 \$97
cost	AMPAGE SENDERSON		3.03	-2.13
pork produced*	1:3		208 lbs.	544 lbs.

^{*}Doos not include skimmilk or buttermilk.

Poultry Feeding and Returns.

- The poorer flocks did not pay for the food consumed; the better flocks doubled the selling price of the feed.
- 2. Only twelve of the 44 farms on which those records were kept had flocks of more than 100 hens, and only 6 of these had more than 200 hens. Small flocks require about as much labor as a flock of 150 or 200 and cannot be expected to provide any substantial income.
- 3. The farms with flocks of over 100 hens netted \$131 over feed cost and flocks with over 200 hens notted \$219 over food cost.
- High egg production per hen is essential to profitable egg production.
- 5. Increasing the size of the poultry flock is a good way of adding to the volume of business on the small farm, without adding to the labor load.

Table 9 -- Food cost and returns per 100 hone 35 forms Coop Crook 100

Table 9 Feed cost and returns pe	r 100 hens,	35 farms,	Coon Creck, 1940	
	Your farm	Av.35 farms		8 farms with lowest returns over feed cost por 100 hens
Average number of hens Number of eggs per hen		108 126	96 186	73 78
Average 1bs. food per 100 hons				
Corn and small grain		7,492 2,705	10,654 2,818	7,312 2,493
Total feed used		10,197	13,472	9,805
Milk		3,168	6,777	652
Food cost por 100 hons				
Corn and small grain		\$77.58 52.27	\$111.75 58.92	\$77.90 46.90
Total concentrates		\$129.85	\$170.67	\$124.80
Milk		. 4.75	10.16	•98
Total value of feed		\$134.60	\$180.83	\$125.78
Value of ogg sales	_	\$156.83 38.22 30.79	\$256.20 72.05 45.40	\$ 59.00 15.61 45.73
Gross poultry returns Change in inventory	*	\$225.84 -21.20	\$373.65 - 7.02	\$120.34 -25.56
Total credits por 100 hens		\$204.64	\$366.63	\$ 94.78
Roturns over feed cost per 100 hons		\$70	\$185	\$-31
Roturns per\$100 feed	-	\$152	\$203	\$ 75