#### ANNUAL REPORT

OF

### VOCATIONAL AGRICULTURE

#### FARM MANAGEMENT PROGRAM

BY

THE

#### AGRICULTURE DEPARTMENT

#### ST. CLOUD AREA VOCATIONAL-TECHNICAL SCHOOL

ST. CLOUD PUBLIC SCHOOLS

ST. CLOUD, MINNESOTA

### **COOPERATING AGENCIES**

STATE AND COUNTY SERVICES OF U. S. D. A. INSTITUTE OF AGRICULTURE, UNIVERSITY OF MINNESOTA

VOCATIONAL DIVISION, MINNESOTA DEPARTMENT OF EDUCATION

### TABLE OF CONTENTS

Page

1

1.9

۰.

Title

Introduction

3	Map of Counties Included in the Farm Management Area
4	Explanation of Data
6	Cash Statement of Receipts and Earnings - Ranked on Basis of Labor Earnings
7	Cash Statement of Expenses - Grouped on Basis of Labor Earnings
8	Accrual Statement of Expenses and Net Operations Costs – Ranked on Basis of Labor Earnings
9	Accrual Statement of Receipts and Earnings - Ranked on Basis of Labor Earnings
10	Measures of Organization and Management Efficiency 1957 Inventory and Net Worth Statement 1957
11	Thermometer Chart
12	Labor Requirements and Animal Unit Data
13	Supplementary Data on Comparison of Management and Operation Results
15	Comparison of Crop Yields, Crop Selection, and Land Uses 1957
16	Analysis of Dairy Enterprise - Herds Ranked on Butterfat per Cow
17	Analysis of Dairy Enterprise - Herds Ranked on Operator Labor Earning Basis
18	Feed Costs and Returns from Hogs 1957 - Market Hogs
19	Feed Costs and Returns from Hogs 1957 - Feeder Pig
20	Feed Costs and Returns from Chickens 1957
21	Feed Costs and Returns from Other Dairy Cattle 1957
22	Feed Costs and Returns from Cattle Kept for Beef Production 1957
23	Feed Costs and Returns from Farm Sheep Flocks 1957
	<ul> <li>PRIMARY FACTORS OF MANAGEMENT</li> <li>1. Adequate size of enterprise and whole farm business</li> <li>2. A high percent of tillable land in high return crops</li> <li>3. High yields and lowest possible cost of crop production</li> <li>4. High returns for feed consumed by livestock</li> <li>5. Intensity and efficiency in livestock production</li> <li>6. A high amount of work accomplished per worker</li> <li>7. Careful control over fixed and operating expenses and capital</li> <li>"There is more in the MAN than there is in the LAND."</li> </ul>

#### INTRODUCTION

The vocational agriculture program in farm management education and the supplementary service of analyzing farm accounts for 1957 has resulted from our experience in offering such a program to organized adult education groups in our tri-county area since 1946. During 1956 and 1957, we have extended our services to meet the needs of a similar adult education program in the agriculture departments of high schools located in a Central Minnesota 14 county area. The present program operates under the area vocationaltechnical school as a means of extending the opportunities of vocational education among those schools who desire to cooperate in developing vocational education in their community.

Farm management education is based on the collective and individual needs and attitudes of farmers in solving the problems of farm planning, organization, and operation. Each school contributing data to this report carried on a series of group meetings during the past year. In addition, each instructor had from four to ten or more individual on-farm conferences in regard to the individual confidential management problems and financial affairs of the farm family.

Farm account records basic to this type of comparison study are most adaptable for comparative and individual analysis when kept in the Minnesota Farm Record Book. Records are kept for use in the preparation of income tax and social security reports, credit reference or an individual partnership or corporation forms to have an accurate record of financial operations. Records in this program are desirable for the purpose of knowing facts in making decisions about ones own private business. Records will also assist the instructor in arriving at the best understanding possible in assisting farmers to make decisions giving greatest return for labor and investment.

In this system, the local instructor who calls on the farm closes the record book with the farmer and proceeds to complete the forms pertinent to the individual farm analysis. This teacher-farmer individual summary becomes an individual analysis of the whole farm and its parts and matches in general the comparative report prepared by our area school. A copy of the individual analysis is sent to the analysis center for use in compiling a comparative report. It is returned to the local instructor after figures from each farm become an unidentifiable part of the area report sent to each farmer. It is expected that the local instructor may desire a copy of the individual report for further study and assistance in on-farm follow-up conferences with a cooperator. Therefore, the record book remains with the farmer or local instructor, wherein, both parties are familiar with details basic to their responsibility for the correctness, completeness, and accuracy of the individual analysis data submitted.

The analysis of a collection of individual records and the preparation of reports from such data are done at the St. Cloud Area Vocational-Technical School Vo-Ag department. We, nor other local vo-ag departments in our area, do not have the funds or the staff to run a research center comparable to that found at the University of Minnesota. Therefore, we have simplified the system, divided the labors, used cooperative effort, cut the costs, stressed individual instructor-farmer analysis, and instructor relationship to an area operation from an expanded center at an area school.

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We are indebted to the staff working on farm management in the Agriculture Economics Department, Institute of Agriculture, University of Minnesota, for their assistance in this type of work over the past several years. We plan to operate our area vo-ag program in cooperation, not in competition, with the University of Minnesota in the field of farm management. We desire to extend the use of the University to more people in our area by use of their research and staff in cooperation with area programs.

During the past we have also had splendid cooperation from other agencies in our area. We expect our efforts will coordinate and integrate with work of the Soil Conservation Service, Production Credit Association, local bankers, Farmers' Home Administration, County Extension Service, local school administration, and school boards as well as the Vocational Division, State Department of Education.

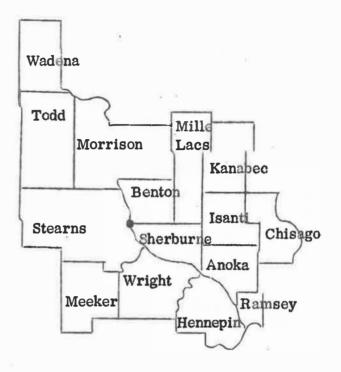
This report was prepared from individual farm analysis reports submitted by the following instructors and schools:

School	Number of Accounts	Instructor
Foley	13	Lawrence Reiten
Little Falls	29	Joe V. Raine
		John M. Smith
St. Cloud	15	Raymond A. Anderson
Area	a Report 57	E. J. O'Connell, Area Instructor

The cooperative spirit and volunteer effort put into the job of preparing the indivdual analysis summaries sent our center is most highly commendable. I trust that you will find the comparison of results in this report functional material of complementary use with your individual farm analysis and counseling program.

I submit this report to the cooperating individuals and agencies with full appreciation that we may progress toward a sound program of adult farmer education in the agriculture departments in the Central Minnesota area.

Edward J. O'Connell, Director Agriculture Department St. Cloud Area Vocational-Technical School St. Cloud, Minnesota St. Cloud Area Vocational-Technical School



Agriculture departments are located in the following towns. County line borders do not probibit acceptance of the farm management program when any farmer is a part of the educational program of the local department.

Anoka County Anoka St. Francis	Kanabec County Mora	Sherburne County Elk River	Todd County Bertha Browerville
	Meeker County	Wadena County	Clarissa
Benton County	Cosmos	Sebeka	Eagle Bend
Foley	Dassel	Verndale	Long Prairie
Sauk Rapids	Grove City	Wadena	Pillager
	Litchfield		Staples
Chisago County		Stearns County	-
Linstrom-Center City	Mille Lacs County	Albany	Wright County
North Branch	Milaca	Belgrade	Annandale
Rush City	Princeton	Eden Valley	Buffalo
Taylor Falls		Kimball	Maple Lake
	<b>Morrison County</b>	Melrose	Monticello
Hennepin County	Little Falls	Paynesville	
Minneapolis Roosevelt	Swanville	St. Cloud	
	Upsala	Sauk Centre	
Kanabec County Mora			

Parochial Schools: St. Boniface High School, Cold Spring, Stearns County Pierz Memorial High School, Pierz, Morrison County The crop analysis survey is somewhat broader and yet specific in application because your individual farm analysis is organized for a more careful and complete survey of your land use and feed production problem.

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In our area livestock, primarily the dairy herd, provide the market for crops produced on the land. Pasture surveys are not a part of this years report but are indicated as a key factor in milk production by economical roughage use.

Survey of the crops analysis in correlation with livestock enterprise return and land use practices may bring out for all or individual farmers the correlation of all key factors of management necessary for the man to get the best returns from livestock, land, and equipment.

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A fourth column of figures on "your farm" are not placed in this report because each farmer and instructor have the individual report of confidential nature. Either or both parties may not desire individual data to be identifiable in a comparison report pamphlet.

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### CASH STATEMENT OF EXPENSES Grouped on Basis of Labor Earnings

Expenses-Form 1	Average of 57 Farms	12 Most Profitable Farms	12 Least Profitable Farms
Dairy cows bought	\$ 297.37	\$ 283.98 \$	404.46
Other dairy cattle bought	61.07	6.67	77.69
Beef breeding cattle bought	49.52	235.25	
Feeder cattle bought	115.26		90.00
Hogs bought	70.86	38.33	14.84
Sheep bought	. 53		
Horses bought	3.50	4.16	
Chickens bought	26.90	13,89	46.46
Breeding fees	76.15	117.42	39,04
Miscellaneous livestock expense	187.20	341.90	85,15
Feed bought	1366,20	2688.79	844.15
Miscellaneous crop expense	694.24	1184.18	580.57
Custom work hired	532,00	654.72	349.40
Machinery, equipment, real estate bought	2900.16	3363,99	3415.04
Gas, oil, grease - farm share	606,10	918.55	557.97
Repair, upkeep, tractor, truck, car	330.65	557.28	255,74
Repair, upkeep, real estate	125.67	220.20	81.55
Repair, upkeep, crop machinery	244.73	426.84	191.46
Repair, livestock equipment	74.13	152,73	40.28
Wages - hired labor	299.02	584.84	149.26
Telephone – farm share	33.15	41.93	48.56
Electricity - farm share	174, 52	241.63	118.54
Taxes - real and personal property	255.22	336.91	174.05
Rent paid	227.11	295.15	275.75
General farm expense	94.58	112.11	65.63
Total cash purchases	\$ 8843.65	\$12821.44 \$	7905.60

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	Average	12 Most	12 Least	
Form 3	of 57	Profitabl	e Profitabl	e
Returns and Net Increases	Farms	Farms	Farms	
1. Ending inventory	\$ 6062.50	\$ 8956.33	\$ 4443.55	
2. Livestock sales	3254.46	5488.97	2063.14	
3. Livestock butchered (or in item 12)	93.54	71.85	72.25	
4. Transferred out	699.77	1065.41	562.66	
5. Total of $1 + 2 + 3 + 4$	\$10110.27	\$15582.57	\$ 7141.61	
6. Beginning inventory	5240.19	8040.42	3711.96	
7. Livestock purchases	623.02	582.25	633.44	
8. Transfers in	699.77	1065.41	562.66	
9. Total of 6 + 7 + 8	\$ 6562.98	\$ 9688.10	\$ 4908,07	
10. Livestock increase or	·	Ţ		
decrease 5 - 9	3547.29	5894, 47	2233.53	
11. Livestock products sold	5719.03	8893.61	3575.38	
12. Products used in home				
milk-eggs-meat	289,76	417.64	196.46	
13. Products fed to stock	310.16	642.68	278, 22	12
14. Total value livestock prod				
11 + 12 + 13	\$ 6318.95	\$ 9953.93	\$ 4050.07	iai nen
15. Livestock products and	•	+	¥	
increase $14 + 10$	<b>9866.2</b> 4	5848.41	6283.60	
Dairy		5994.32	9410.17	3580.28
Other dairy cattle	2	1507.96	2593.72	1111.82
Beef cattle		59.19	26.53	87.89
Feeder stock		141.59	217.83	28.93
Swine		1830.56	3319.20	1043.20
Sheep		42.11	10.41	98,26
Horses	· 3	2.19		
Poultry	1	288.32	270.55	333.22
16. Feed cost for livestock	4929.62	7568,92	3696.74	
17. Livestock return over feed				
cost 15 -16	4936.62	8279,49	2586.86	
18. Crop, seed, feed increase		925.13	2349.35	
19. Gas tax refund	87.93	123.20	71.59	
20. Off farm labor income	118.93	44.97	6.41	
21. Miscellaneous income	210.62	588.08	75.97	
22. Total returns and increase	printer and the second s	12960.87	5090.18	
23. Total expenses, decreases		22000101	00000 20	
and costs	5520.60	7943.50	4115.93	
24. Operator's labor earning			1110,00	
23 - 24	\$ 2999.03	<u>\$</u> 5017.37	\$ 974.25	

# ACCRUAL STATEMENT OF RECEIPTS AND EARNINGS Ranked on Basis of Labor Earnings

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Using your figures from the analysis, locate your standing with respect to the various measures of farm organization and management efficiency. The averages for the 57 farms included in this summary are located between the dotted lines across the center of this page.

1		11 11	Return	Lives	stock	Work	Work	Pow., mach.
Labor	Crop	Crop	Per	Units		Units	Units	eq., & bldgs
Earn-	Yield	' Choice	\$100	Per	2	$\mathbf{Per}$	Per	exp. per
ings	Index	Index	Feed	100 A		Farm	Worker	work unit
\$7000	140	81	140		800		380	
6500	135 =	79	135	85 =	750		360	\$ 4.00
6000	130	77	130	80	700		350	5.00
5500	125	75	125	75	650		340	5.5
5000	120	73	120	70	.600 .		330	6.0
4500	115	71	115	65	550		320	6.5
4000	110	69	110	60	500		310	7.00-
3500	105	67	105	55	450		300	7.5
3000 =	100	65 =	100	50	400		280	8.0
2500	95	63	95	45	350		270	9.0
2000	90	61	90	40	300	=	260	10.0
1500	85 =	59	85	35	250	=	250	11.0
1000	80	57	80	30	200		240	12.0
500	75	55	75	25	150		230	13.0
- 000 =	70	53	70	20	100		220	14.0
- 500	65	51	65	15	50		210	15.0
$\left( \right)$	$\left( \right)$	()	()	(	>		()	

items of Comparison	Average of 57 Farms	12 Most Profitable Farms	12 Least Profitable Farms
l. Labor earnings per farm worker	\$2126.97	\$2683.08	\$ 749.42
Cash sales per dollar cash expense	\$ 1.14	\$ 1.28	\$.79
Returns and increase per expenses and decreases	\$ 1.54	\$ 1.63	\$ 1.23
	\$ 1.54	\$ 1.63	ф <b>1.</b> 23
2. Crop yield:			
All crops	99.1	114	93.2
Corn-silage	93	101	73
Corn-grain	104	101	77
Alfalfa hay	151	166	129
Crop selection index would be imp and return crops.	roved by se	election of	high yield
Returns per Dollar feed cost per enterprise: (multiply by 100 to get return per \$100 feed co	st)		
All livestock	\$ 2.00	\$ 2.09	\$ 1.70
Dairy cows	2.13	2.34	1.72
Hogs-pork	1.74	2.34	1.32
feeder pigs	2.59	4.41	1.74
Poultry	1.25	1.53	67 les
Other dairy cattle	1.77	2.13	1.68
Beef cattle	2.23		
Sheep	1.73		
. Work unit distribution:			
Dairy (BF basis)	212.2	293.0	165
Swine	19.5	29.5	10.5
Poultry	13.5	9.1	18.2
Other cattle	51.2	71.9	48.7
Total stock	296.4	403.5	242.8
Total crop	96.5	132.4	90
Total per farm	392.9	535.9	332.8
Average number of workers per farm Work units per worker	1.41 278.6	1.87 286.5	1.3 255
. Power and Machinery cost:			
Power cost per tillable acre	\$ 15.75	\$ 14.84	\$ 14.55
Machinery cost per tillable acre	φ 13.73 5.74	φ 14.84 6.41	5.74
Total power and machinery cost	\$ 21.49	\$ 21.25	\$ 20.29
	·	•	•
Power, machinery, bldg. exp. per work unit	\$ 7.92	\$ 8.38	\$ 7.55

### SUPPLEMENTARY DATA ON COMPARISON OF MANAGEMENT AND OPERATION RESULTS

COMPARISON OF CROP YIELDS, CROP SELECTION, AND LAND USES - 1957

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	ġ.	Ave	rage-57	Farms		Average	12 Most Pr	ofitable	Farms	Average-	12 Least P	rofitable	Farms
Сгор		No. of	Acres	Acre	Yield	No. of	Acres		Yield	No. of	Acres	Acre	Yield
Description		Growers	Grown	Yield	Index	Growers	Grown		Index	Growers	Grown		Index
	(46			2					1				
Corn-silage		54	15.9	8.1	93	12	24.6	10.3	101.4	12	12.8	5.7	73
Corn-grain		54	27.3	47.2	104	11	44.4	46.7	101	11	22.4	34.9	77
Soybeans grain		17	41.6	12.7	. 81	4	77.5	12.6	80.	6	30.8	11.9	76
Cats		47	23.2	38.5	101	6	22.6	47.4	124	12	21.7	32.8	87.5
Rye		6	14.8	17.8	111	1 🕾	17	12	85	3	11.3	19	137
Wheat		4	7.9	14.8	77	1	10	15	75	2	5.8	12.8	59
Barley		· 1	24	33.3	118			5					
Buckwheat		1	7	20	100	1	7	20	100				
Sorghum		2	13.5	7.6	130	1	11	22	100				
Sorghum silage		1	2	9	120								
Dat & pea silage		1	9.5	6.1	94					1	9.5	6.1	94.7
Dats silage		9	22	3.7	112	3	32.6	3.3	115				
Frass silage		1	5	6	100	1	5	6	100				
Alfalfa silage		3	12.8	5.4	85								
Boybean hay		1	2:	2	100			- 12		2	0 8		
lfalfa hay		48	24.8	2.6	151	12	33	2.8	166	. 10	21.6	2.2	129
Clover hay		9	22.2	2	123.5	1 1	50	2	122	1	15	1.7	102
lixed hay		10	13.9	1.9	122	1	20	1.4		2	14.5	2.5	152
Dat hay		1	3	1	60								
Jpland hay		3	14	1.2	74	1	28	1.1	67	2	.7	1.4	87
Bluegrass hay		8	28.6	2.1	129	2.0 7			÷.	2	27.5	1.8	112
Grass pasture		1	4	1.5	75								
				CREATER STR									
fotal harvested ac	res		111.8				156				102.5		
larvested crop yie	eld index	:			99.1				114				93.2
			e										
					10x 10x (	1 - C	-	•					i i
					2		38						

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	57 Pro- ducers	Top 12 in O. L. E.	Low 12 in O. L. E.
Items of Comparison	Average		
Herd statistics:			
Cows per herd	21.3	29.3	16.5
Total pounds butterfat	6667	10331	5044
Value of product plus increase	\$5994.32	\$9410.16	\$3585.02
Total feed cost	2801.35	4266.00	1870.18
Return over feed cost	\$3192.97	\$5144.16	<b>\$1714.</b> 84
Per Cow statistics:			
Pounds butterfat	313	352	304
Fotal returns	<b>\$ 282.49</b>	\$ 320.80	<b>\$ 216.1</b> 8
Total feed cost	132.01	145.42	112.75
Return over feed cost	\$ 150.48	\$ 175.38	\$ 103.43
Returns breakdown:			
Return per dollar feed cost	\$ 2.13	\$ <b>2.20</b>	\$ 1.90
Total return per pound butterfat	. 89	.91	.71
Feed cost per pound butterfat	. 42	. 42	. 37
Net return per pound butterfat	\$.47	\$ .49	\$.34
Work units per farm	213	293	165
Net return per work unit	\$ 15.04	\$ 17.53	\$ 10 <mark>.35</mark>
Feed consumption per cow:			
Roughage, tons	2.7 T	2.6 T	2.46 T
Silage, tons	4.8 T	6.3 T	3.88 T
Corn-grain, pounds	1905 lbs.	2753 lbs.	1322 lbs.
Oats, pounds	425	<b>25</b> 4	481
Purchased concentrates, pounds	681	802	497
Fotal pounds of concentrates	3011	3809	2300
Feed costs per cow:			
Roughage	\$ 41.001	\$ 37.51	\$ 39.91
Silage	<b>24.</b> 54	31.33	18.88
Pasture	3.29	2.79	3.78
Total, hay, silage, pasture	\$ 68.83	\$ 71.63	\$ 62.57
Corn-grain	\$ 31.20	\$ 42.19	\$ -59-84 7 2.2
Dats	8.44	5.28	9.77
Purchased concentrates	23.65	26.32	17.57
Fotal cost of concentrates	\$ 63.18	\$ 73.78	\$ 50.18
Total feed cost per cow	\$ 132.01	\$ 145.42	\$ <del>103.43</del>
Market grades of product:		×	112,75
A in bulk or cans	10	3	1
3 in bulk or cans	22	7	5
Process or manufacture	20	1	4
Cream	5	1	2

## ANALYSIS OF DAIRY ENTERPRISE Herds Ranked on Operator Labor Earning Basis

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### FEED COSTS AND RETURNS FROM HOGS 1957 (Feeder Pig)

This analysis of pork production in this section refers to 22 farms whose records indicated that sows were kept and litters sold as feeder pigs at a price per farmer of \$11.00 to \$15.00 per pig.

	Average of 22	5 Farms Highestin	5 Farms Lowest in
Items of Comparison	Farms	Returns Above Feed	Returns Above Feed
Pounds of pork per farm	4311	3133	2425
Pounds of feed used per farm	23389	12725	25804
Total value of pork per farm	\$1270.38	\$11 <mark>52.</mark> 69	\$ 923.21
Total feed cost per farm	490.77	261.16	528.33
Return over feed cost per farm	\$ 779.61	\$ 891.53	\$ 394.88
Feed Consumed per cwt. pork:			
Corn	235	150	204
Grain	167	113	239
Hay	17	5	92
Commercial feeds	87	76.7	161
Milk products	36		217
Total concentrates	525	339.7	821
Feed cost per cwt. of pork produced:			
Corn	\$ 3.72	\$ 2.15	\$ <mark>3.88</mark>
Grain	3.44	2.12	5.53
Hay	.15	.03	. 19
Commercial feeds	3.68	2.76	5.80
Milk products	. 40		1.95
Total feed cost	\$ 11.39	\$ 7.06	\$ 17.35
Total returns per cwt. pork	\$ <b>29.</b> 48	\$ <b>31.2</b> 0	\$ <b>30.3</b> 4
Returns over feed cost per cwt. of hogs grown	\$ 18.09	<b>\$ 24.13</b>	\$ 12.99
Total return per dollar feed cost	\$ 2.59	\$ 4.41	\$ 1.74
Return over feed cost per work unit (. 21 cwt.)	\$ 88.18	\$ -50.88	\$ 65.02
Farrowing data:	On 16 of 22	On 4 of 5	On 3 of 5
	Average	With High-	With Lowest
	Farms	estReturns	Returns
Spring litters per farm	3		
Pigs born par litter	7.1		
Pigs weaned per litter	5.7		
Percent saved per litter	80.4%		

## FEED COSTS AND RETURNS FROM OTHER DAIRY CATTLE 1957

Feed costs and returns on other dairy cattle for the most of the farms in this report cover cost of raising young stock and heifers up to production age or until they are sold for cash. Adequate data on pasture feeding and weights of milk products were not available and thus were not identified in terms of amounts. All animals were converted to the animal unit basis of one mature head of stock. The groups were divided on the same group basis as the herds were or on the basis of butterfat production.

Items of Comparison on the Animal Unit Basis	Average of 57 Farms	12 Highest in Butterfat Per Cow	12 Lowest in Butterfat Per Cow
Feed consumed, pounds:	· · · · · · · · · · · · · · · · · · ·		L S
			and as
Нау	<b>2</b> 720	2800	3700
Silage	3800	3940	2840
Pasture			2201 B.T.
Corn-grain	560	743	315
Oats-grain	172	1955	112
Concentrates bought	111	227	38
Feed cost:		ð.	5
Hay	\$18.46	\$14.99	\$20.85
Silage	9.43	10.02	7.25
Pasture	2.36	1.75	3. 32
Corn-grain	9.94	13.34	5.65
Dats-grain	3.20	4.04	2.26
Concentrates bought	5.20	8.05	2.34
Milk products	12.25	7.73	15.68
Fotal feed cost per animal unit	\$60.88	\$59.92	\$57.35
Net increase in cattle value	\$108.39	\$128.08	\$ 96.68
Charles in the sector rest	47.51	Carl And	1 C
Returns above feed cost	\$ <del>37.51</del>	\$ 68.16	\$ 39.33
Return per dollar of feed cost	\$ 1.77	\$ 2.13	\$ 1.68
Number of animal units per farm	14.6	20,25	11.5
Number of work units per farm	49.6	70.8	40.2
Returns over feed costs per work unit	\$ 13.56	\$ 19.45	\$ 11.24

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### FEED COSTS AND RETURNS FROM FARM SHEEP FLOCKS 1957

Only three of the farmers in this summary submitted reports on the sheep enterprise considered to be of the farm flock type. Those reports submitted were not complete enough for recording as a sound survey of sheep production. For the sake of comparison and enterprise consideration of records for next year, we have included the results on 26 farm flocks for 1956 as reported in Report No. 231 of the Department of Agriculture Economics, University of Minnesota.

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Items of Comparison	Average of 26 Farms Report No. 231	Average of 3 Farms in This Report
Feed consumption, pounds:		
Concentrates Legume hay Other hay Fodder and stover Silage	110 427 19 1 179	54 501 236
Feed costs per head:		
Concentrates Roughage and silage Pasture Total feed cost	\$ 2.43 4.58 <u>2.37</u> \$ 9.38	\$ 1.45 4.84 \$ 6.30
Value of products per head:		
Wool produced Net increase in value of sheep Total value produced	\$ 3.95 9.50 \$ 13.45	\$ 10.91
Return above feed cost per head	\$ 4.07	\$ 4.61
Return per dollar feed cost	\$ 1.57	\$ 1.73
Number of head in the flock	45.5	73.3
Pounds of mutton produced by flock Pounds of mutton produced per head Market price received per cwt.	2537 \$ 19.16	
Pounds of wool sheared from flock Pounds of wool sheared per head Market price received per pound	9.5 \$.537	
Number of ewes kept for lambing Number of lambs born Percent of lamb crop born Percent death loss on lambs	31 101% 8.1%	