///// 1956 ANNUAL REPORT

VOCATIONAL AGRICULTURE FARM MANAGEMENT SERVICE NORTHWESTERN MINNESOTA

UNIVERSITY OF MIN NESOTA

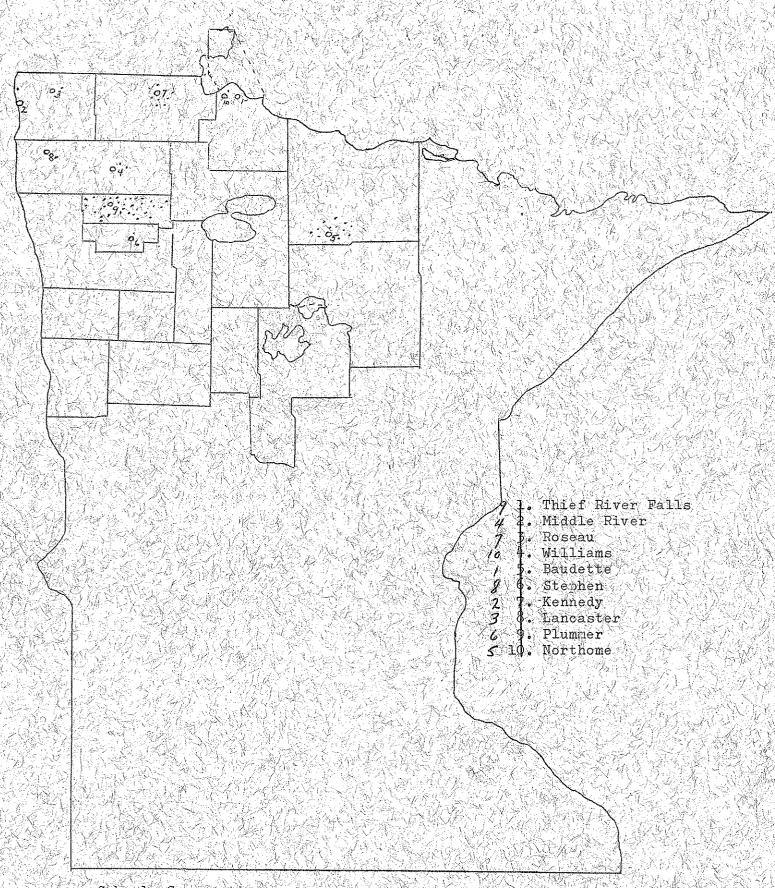
Institute of Agriculture and Vocational Division

MINNESOTA DEPARTMENT OF EDUCATION

and

AREA VC ATIONAL TECHNICAL SCHOOL Thief River Falls, Minnesota Cooperating

March, 1957



Schools CooperatingFarms Participating

1956 REPORT OF THE FARM MANAGEMENT SERVICE FOR VOCATIONAL AGRICULTURE IN NORTHWESTERN MINNESOTA STAN NELSON

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INTRODUCTION

The Department of Agricultural Education of the University of Minnesota, and the Thief River Falls Area Vocational-Technical School are cooperating with the Vocational Division, Minnesota Department of Education in maintaining a farm management service. The service was initiated during 1955 and is available to farmers who are enrolled in adult or young farmer classes in the public schools.

The purpose of the project as far as the schools are concerned is (1) to give assistance to the instructors in the mechanics of keeping farm records and (2) to aid in the analysis of the farm business through the use of records as a basis for vocational guidance. The enrollment is on a voluntary basis insofar as the number of schools participating and the number of farmers enrolled in the service.

The analysis of the records and the preparation of the reports for North-western Minnesota are handled by Stan Nelson of the Area Vocational-Technical School located at Thief River Falls. The project is under the general direction of Dr. Milo Peterson and Lauren Granger of the University of Minnesota Department of Agricultural Education. Dr. T. R. Nodland and Dr. G. A. Pond of the Department of Agricultural Education, Harland Routhe and E. Hartmans of the Agricultural Extension Service have been available as consultants. The State Department of Education was represented by S. K. Wick, Assistant Director of Vocational Education in charge of Area Vocational-Technical Schools and G. R. Cochran, State Supervisor of Agricultural Education.

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Each farmer pays an annual fee which covers a portion of the cost. For the farmers in the Thief River Falls area, a portion of the cost of the analysis was contributed by the Thief River Falls Chamber of Commerce. The Farmers Home Administration and J. P. Rosengren, local County Supervisor, cooperated by encouraging clients to participate in the service. Through a grant of funds from the Hill Family Foundation, Lauren Granger was employed by the Department of Agricultural Education as a co-ordinator for the project.

This report deals with farmers enrolled in 10 schools in Northwestern Minnesota. The following tabulation shows by schools the number of 1956 farm records submitted:

Thief River Falls	32	Williams	1
Roseau	8	Middle River	2
Lancaster	1	Kennedy	ı
Stephen	1	Northome	12
Plummer	1	Baudette	1
		TOTAL	60

The records kept included farm inventories, cash receipts and expenses, feed consumed by the various classes of livestock, family living secured from the farm, household and personal expenses and receipts and the operators liabilities and assets other than farm capital.

FARM INVENTORIES

The Capital investment per farm varied from \$6256 to \$66,635. The average investment for all farms included in this report and for the fifteen high and the fifteen low in operator's labor earnings is shown in Table 1.

FARM EARNINGS

Operator's earnings is a measure of the relative financial success of a farmer as compared with other farmers and represents the returns above all farm expenses and a charge for the use of farm capital.

There are two methods of computing operator's earnings. Table 2 shows the earnings statement on a cash basis and Table 3 shows the earnings on an enterprise or accrual basis. The principal difference in the two statements is the method of handling the net increase or decrease in the value of farm capital. In the cash statement the net increase or decrease in farm capital is entered as one item. In the enterprise statement the net change in the inventory has been included in each enterprise in order to compute "total returns and net increases", or "total expenses and net decreases" by enterprises.

RETURNS TO CAPITAL

The return to capital and family labor represents the amount available to the operator for living expense, payment on indebtedness and savings. These figures are found on Table 5.

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Table 1. Summary of Farm Inventories, 1956

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Size of farm (acres)	******		<i>3</i> 77	
Size of business (work units)*	paradical management that the title of the		385	
Dairy and dual purpose cows			\$ 1711	\$ 1829
other dairy & dual purpose cattle	9	to entire ways and processed with any	883	968
Beef cattle (incl. feeders)	···	A C. COLLEGE AND DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO IN COLUMN	416	342
logs	And the state of t		85	142
Sheep (including feeders)			330	361
Poultry (including turkeys)			76	57
Productive livesotck			3501	3699
Horses			24	25
Crop, seed and feed			1832	2500
Auto & truck (farm share)		**************************************	989	911
Fractor & motors		***************************************	1696	1609
Crop and generalmachinery			3149	3251
Livestock equipment		***************************************	339	336
Machinery & equipment (total)		**************************************	6173	6107
Land			8216	8216
Buildings, fences, etc.	***************************************	**************************************	3737	3699
			o = 1 O ==	24246
Total farm capital			23483	Z**Z****
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Items			s 15 least p	rofitable
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^{*} See page 8 for an explanation of "work units".

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Table 2. Summary of Farm Earnings (Cash Sta	tement), 1	956	
The second secon	Average	15 most	15 least
Items Your	of 60	profitable	profitable
farm	farms	farms	farms
FARM RECEIPTS			
Dairy and dual-purpose cattle	\$ 833	\$ 1051	\$ 652
Dairy products	2606	4000	1537
Beef cattle (including feeders)	282	555	205
Hogs	298	501	242
Sheep and wool (including feeders)	262	191	488
Horses	1.	-	₩
Poultry	47	54	26
Turkeys	179	608	
Eggs	271	461	61
Honey sold	70	237	***
Corn	1.4	49	-
Small grain	3318	4129	3149
Other crops	485	76	1520
Mach. & equip. sold & gas tax ref.	229	230	287
Pulp sold	173	-	375
Income from work off the farm	278	264	242
Miscellaneous	268	330	265
(1) Total farm sales	9614	12736	9049
(2) Increase in farm capital	535	2469	
(3) Family living from the farm	284	338	182
(4) Total farm receipts (1)+(2)+(3)	10433	15543	9231
FARM EXPENSES			
Dairy and dual-purpose cattle bought	\$ 380	\$ 432	\$ 227
Beef cattle bought (incl. feeders)	22	69	5
Hogs bought	16	13	25
Sheep bought (incl. feeders)	21	27	43
Horses bought	4		end .
Bees bought	29	100	***
Poultry bought	26	33	11
Turkeys bought	35	119	,
Misc. livestock expense	195	287	182
Feed bought	696	1201	461
Fertilizers	295	427	231
Other crop expense	573	592	779
Custom work hired	390	447	456
Gas, oil & grease bot.(farm share)	800	917	704
Rep. of mechanical power (f. share)	313	331	369
Rep. and upkeep of real estate	86 -	750	52
Rep. & upkeep of crop & gen. mach.	220	265	203
Rep. & upkeep of livestock equip.	. 47	80	31
Wages of hired labor	444	468	634
Electricity expense (farm share)	137	191	111
Real estate & pers. prop. taxes	345	368	359
Pulp expense	64	en.	204
General farm expense	100	121	98
(5) Total cash operating expense	5238	6610	5185
(6) Cap.purchases-mech. pow.(f.share)	421	845	135
(7) " -crop & gen. mach.	863	1306	1038
(8) " -livestock equip.	61	54	25
(9) " -bldgs. & fencing	254	416	208
(10) Total farm purchases (5) to (9)	6837	9231	6591
(11) Decrease in farm capital			965
(12) Interest on farm capital	1234	1418	1196
(13) Unpaid family labor	199	140	291
(14) Board furnished hired labor	72	126	54
(15) Total farm expenses (10) - (14)	8342	10915	9097
(16) Labor earnings (4) - (15)	2091	4628	134

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Table 3. Summary of Farm Earnings (Enterprise Statement) 1956*

Items	Your farm	Average of 60 farms	l5 most profitable farms	15 least profitable farms
RETURNS AND NET INCREASES Dairy and dual-purpose cows Other dairy & dual-purpose cattle Beef breeding herd Feeder cattle Hogs Sheep-farm flock Sheep-feeders Turkeys Chickens All productive livestock Value of feed fed to livestock Return over feed from livestock		\$ 2627 885 213 20 361 271 144 308 4830 2615 2215	\$ 3917 1129 564 17 550 241 3 488 471 7382 3672 3710	\$ 1559 569 60 - 338 408 - - 83 3017 1834 1183
Crops, seed and feed Forestry products Income from labor off the farm Bees Agricultural conservation payments Miscellaneous (1) Total returns & net increases EXPENSES AND NET DECREASES		5187 124 194 41 179 84 8024	7124 49 187 141 217 95 11521	4401 172 160 142 123 6181
Horses Truck Auto (farm share) Tractor Elec. & gas engine exp.(f. share) Hired power Total power Crop and general machinery Livestock equipment Buildings, fencing, and tiling Misc. productive livestock exp. Labor Real estate taxes Personal property tax Insurance General farm		\$ 271 306 947 1819 1819 1893 1893 1895 1996 1988 1998 1998 1998 1998 1998 1998	\$ 7 305 318 1153 198 174 2155 1050 1443 287 908 199 169 57 65 1418	\$ 2 389 231 867 123 147 1759 920 75 333 182 1127 209 150 56 42
Interest on farm capital (2) Total expenses & net decreases	***************************************	1233 5933	6893	1196 6047
(3) Operator's earnings (1) - (2)	***************************************	2091	4628	134

^{*} Cash receipts and expenses are adjusted for changes in inventory for each enterprise and for each item of expense in order to show total receipts and net increases, and total expenses and net decreases. The operator's earnings are the same as those on page 4.

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FAMILY LIVING FROM THE FARM

The family living from the farm is the estimated value of the farm products used in the house and shelter furnished the farmer and his family by the farm. It is a part of the income of the farm and a part of the expenses of operating the household even though cash transactions are not involved. The omission of the farm produce used in the home results in an incomple record of both farm income and personal expense.

The value of the family living as shown in Table 4 amounts to 2.7 per cent of the total farm receipts on these farms. The values assigned are a conservative market price on the farm. If these products had been purchased, the amount paid out would have been considerably higher.

Table 4. Family Living from the Farm, 1956

Items	Your farm	Average 40 farms	Your farm	Average 40 farms
Adult equiv family - others		3.1 1.5		
Whole milk Skim milk Cream Beef Hogs Poultry Eggs Potatoes Vegetables & fruit Fuel		1314 qts. 306 qts. 156 pts. 572 lbs. 185 lbs. 56 lbs. 88 doz. 1 bu.		\$ 92 6 37 82 29 15 28 1 62 11 363

HOUSEHOLD AND PERSONAL EXPENSES AND RECEIPTS

Household and personal accounts are important if the family is to manage its financial affairs wisely. The household and personal expenses and receipts are presented in Table 5. These farmers spent an average of \$170 per month for family living in addition to the food, fuel and housing furnished by the farm.

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Rousehold and personal accounts are important if the family is to manage ics financial affairs wisely. The household and perconal-expenses and rebeilted are presented in Table 5, "Their targers spect on everage of \$170 per worth for tannly living in addition to the fact, fuel and housing furnished by the farm

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Table 5. Household and Personal Expenses for Those Farms which kept Complete

Accounts of These Expenses, 1956

ACCOUNTS	or These	Expenses, 1		
		Average	15 most	15 least
Items	Your	of 40		profitable
Shight with the format the work of the wor	***************************************	farms	farms	farms
Markey of respond fordity		4.3	4.1	3 . 8
Number of persons - family			2,9	2.8
Number of adult equiv family		3.1 3.5	2.8	1.6
other*	mengens. It his disamble decides or mid-brake	1.5	2.0	3. ø O
Food and meals bought		\$ 702	\$ 805	\$ 409
Operating and supplies	11-4-1-4-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	173	196	79
Furnishings and equipment		137	183	33
Clothing and clothing material	**************************************	207	239	133
Personal care, personal spending	ar _maginizas/phindude-Magining.co.dabhaifaiM	60	49	61
Education, recreation & development		101	9 4	49
		84	99	24
Gifts and special events	***************************************	181	233	86
Medical care and health insurance		106	153	23
Church, welfare		138	100	80
Personal share of auto & tr. exp.	···	52	74	4
Operator's sh. of upkeep on dwelling			7 + 96	
Household sh. of electric & Tele. ex	p.	101 \$ 2042		\$ 1054
Total Cash living expense	المنشقات بدرستس دا میست به بیدر و میسید	••	\$ 2321 44	
Social Security		27		15
H.H. & pers. share of new auto		70	100	37
New dwelling		54	48	73
Taxes and other deductions		26	28	7
Life insurance		32	7	20
Other savings and investments		37	_85	1
Total household & personal cash ex	.p.	2288	2633	1207
Matal family living from the form		363	338	195
Total family living from the farm		<u>2651</u>	<u>338</u> 2971	1402
Total cash exp. & perquisites	deposits on his buildings, a destruction of the other	2071	ころして	1. T ∨ €
Receipts:				
Return to capital & family labor		3173	5761	1219
Income from investments	***************************************	104	145	164
Sale of outside investments		4	13	***
Miscellaneous income	**************************************	173		169
LITOCATTAMEOND THOOME		±1.7	-	/

^{*} Hired help or others boarded.

NET WORTH

A net worth statement includes a listing of all the assets and liabilities as of a given date. The difference between the farmer's total assets and his liabilities is his net worth. A net worth statement is presented in Table 6. Both the farm and personal assets and liabilities are included.

The difference between the operator's net worth at the beginning and at the end of the year shows the gain in net worth. It represents the financial progress that has been made during the year.

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Table 6. Net Worth Statement for Those Farmers Who Kept a Complete Record

Items	Your farm			60	farms	,
**************************************	Jan.	l Dec	31	Jan. l	Dec. 31	
Total acres in farm				377		
Total farm capital				\$23483	\$24246	
Stocks and bonds				541	542	
Life Insurance				299	271	
Accounts receivable				4	32	
Shares in Mktg. organizations		****	WHITE AND MAKES	333	387	
Outside real estate		,		111	147	
Cash on hand and in bank		the state of the s		551	668	
Household goods and clothing				1464	1534	
Pers. share of auto & truck		metalen men		300	261	
Dwelling				2393	2383	
Total non-farm assets				5996	6225	
TOTAL ASSETS				29479	30471	
Federal Land Bank mortgage				484	484	
FHA Real Estate mortgage				842	815	
Other mortgage on land operated				2469	2319	
Production Credit Association				390	242	
FHA Chattel mortgage				214	302	
Crop loans				215	415	
Other chattel mortgages				1492	1428	
Notes payable				396	456	
Accounts payable				820	<u>656</u>	
TOTAL LIABILITIES				7322	7117	
Farmer's net worth				22157	23354	
Gain or decrease in net worth					1197	

EXPLANATION OF "WORK UNITS"

The total "work units" for any one farm is a measure of the size of that farm business. A work unit as used in this report is the average accomplishment of a farm worker, in a ten hour day, working on crops and productive livestock at an average efficiency. The number of work units for each class of livestock and each acre of crop are presented in Table 7. Days of work off the farm for pay are not included in work unit computations in this report.

Table 7. Number of Work Units for each Class of Livestock and Each Acre of Crop

•	No. of		No. of
Item	work units	Item	work units
Dairy & dual-purpose cows	10.0 per cow	Small grain	.7 per acre
Other dairy & du. pur. cattle	3.5 per an. unit*	Corn husked	1.1 per acre
Beef breeding herd	3.5 per an. unit*	Corn, silage	1.7 per acre
Feeder cattle	.25 per 100 lbs.	Corn, fodder	1.0 per acre
Sheep - farm flock	1.5 per an. unit*	Alfalfa hay	.9 per acre
Sheep - feeders	.3 per 100 lbs.	Other hay crops	.6 per acre
Hogs	.2 per 100 lbs.	Legume seed	1.0 per acre
Hens	20.0 per 100 hens	Grass silage	1.0 per acre
Potatoes	3.8 per acre		

^{*} Animal unit represents one dairy cow or bull, two other dairy cattle, 1 1/4 beef cows or bull, 1 feeder steer or heifer, 3 1/3 other beef cattle, 7 sheep, 14 lambs, 2 1/2 hogs, 5 pigs, 50 hens or 1,100 pounds of turkeys produced.

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RANGE IN EARNINGS

Every study of farm earnings shows a wide variation in earnings among farmers in a given year (figure 1). The average operator's earnings of those farmers ranking in the upper 25 per cent of the range according to earnings was \$4628 and of those in the lower 25 per cent was \$.134. This is a range of \$4494 between the average earnings of these two groups. Some of the causes for these differences in earnings, such as weather, may be beyond the control of the individual farmer. Other factors are within his control. The more important management factors affecting earnings are as follows: These factors vary from year to year in their relative influence on earnings. 1/

- 1. Crop Yields
- 2. Choice of Crops
- 3. Return from Livestock
- 4. Amount of Livestock
- 5. Size of Business
- 6. Work Units per Worker
- 7. Control over Expenses

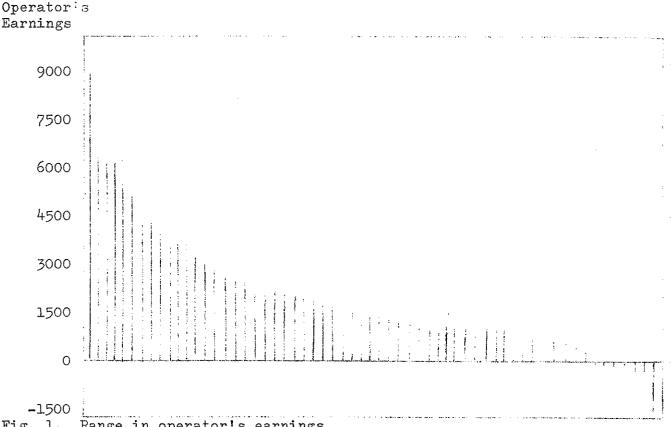


Fig. 1. Range in operator's earnings. $E_{\rm a}$ ch line represents the earning of one farmer.

1/ See Pond, G. A. "Why Farm Earnings Vary". Minn. Agri. Expt. Sta. Bul. 386, June, 1945.
Nodland, T. R. and Pond, G. A. "Some Factors Affecting the Earnings of Farmers in Southwestern Minnesota". Univ. of Minn., Dept. of Ag. Econ., Report No. 219, November, 1954.

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Modland, Tl Br. and Pond, G. A. Those factors liferving the farmings of Farsers in Southwestern Minnesota^R, Univ. of Minn., Dopt. of Ag. Room., Pepott Mg. 219, November, 1954.

Table 8. Measures of Farm Organiza	ation and M	anagement E	fficiency,	1956
Measures used in chart on page ll	Your farm	Average of 51 farms	15 most	15 least profitable farms
Operator's earnings	\$	\$ 2091	\$ 4628	\$ 134
(1) Crop yields*	t-months and the same of the s	100	118	88
(2) Per cent tillable land in high return crops**		54.7	54.6	53,6
(3) Ret. for \$100 feed to prod. livestock***	Mark and hand hand to hand hand processing to depo	100	115	92
(4) Prod. livestock units per 100 A.****	held will remark to make the still space	16.5	14.9	22,6
(5) Size of business - work units	Secretary of the second	385	455	371
(6) Work units per worker	processing to the section of the	269	314	264
(7) Pow., mach., equip., & bldg. exp. per work unit	\$	\$8.30	\$8.42	\$8.59
Items related to some of the above	measures:			And the state of the second state of the sta
(3) Index of ret. for \$100 feed from Dairy cattle (see pages 15 & Beef cattle-breeding herd(p.)	16)	100 100	116 116	89 119
Hogs (see page 19) Sheep - farm flock (see pg. 1	17)	100 100	94 136	120 88
Chickens (see page 18)	THE PROPERTY SECTION AND THE PROPERTY AN	100	86	90
(4) Number of animal units	demander in the latest and the lates	29.1	34.9	26.6
(5) Work units on crops Work units on prod. livestock		197 182	231 224	208 162
(6) Number of family workers Number of hired workers Total number of workers		1.2 .2 1.4	1.2 .3 1.5	1.2
(7) Power expense per work unit Crop mach.exp. per work unit Livestock equip.exp. per work unit Bldgs.& Fencing exp. """	\$ unit	\$4.80 2.18 .29 1.11	\$4.77 2.34 .33 .98	\$5.02 2.23 .27 1.36
man record to a contract of the contract of th		and the second of the second of the second		

Given as percentage of the average

Crops are marked in table 9 as (A), (B), (C), and (D). All of the acres in (A) crops, one half of acres in (B) crops, and one fourth of the acres in (C) crops are used in calculating per cent of tillable land in high return crops.

An index weighted by the animal units of livestock.

^{****} Acres in timber not pastured, roads, waste and farmstead were not included.

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THERMOMETER CHART

Using your figures from page 10, locate your standing with respect to the various measures of farm organization and management efficiency. The averages for the 60 farms included in this summary are located between the dotted lines across the center of this page.

Lab ear ing	n- Crop		n ductiv	ro- unit ve per	ts r Work		Pow.,Mach. eq.,& bldgs. exp. per work unit
\$5700	145	81	145	36 . 0	615	410	\$1.75
5300	1.40	78	140	34.0	590 E	395	2.50
4900	135	75	135	32.0	565 E	380	3.25
4500	130	72	130	30.0	540	365	4.00
4100	125	69	125	28.0	515	350	4.75
3700 <u> </u>	120	66	120	26.0=	490	335	5.50
3 30 0 <u> </u>	115	63	115	24.0	465	320	6.25
2900	110	60	110	22.	440	305	7.00
2500	1.05	57	105	20.4	415	290	7.75
51.00	100	• • 54	100	· 18.0	390	• •275	·8.50
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1300	90=	48	90	14.0	340	245	10.00
900	85	45	85	12.0	31.5	230	10.75
500	80	42 -	80 = 1	10.0	290	215	11.50
100	75	39	75	8.0	265	200	12.25
-300	70	36	70	6.0	240	185	13.00
-700	65	33	65	4.0	215	170	13.75
-1100 E	60	30	60	2.0	190	155	14.50
-1500	55	27	55	. [165	140	15.25

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Table 9. Distribution of Acres in Farm. 1956

Table 9. Distribution of Acres in Farm,	Crop ratings*	Your farm	Average of 60 farms
Flax Barley Wheat Oats & oat mixtures Rye, millet Soybeans Total small grain	A B B C D		48.6 22.9 17.5 51.7 2.1 .1 142.9
Potatoes Corn grain Corn fodder Corn silage Total cultivated crops	A C D C		4.3 .2 .4 6.9 11.8
Grass silage Alfalfa and Alfalfa mixture Alfalfa seed Red or alsike clover hay Red or alsike clover seed Blue grass seed Sweet clover seed Other legumes and legume mixture hay Brome and timothy grass seed Brome or timothy hay Wild hay Annual hay Total tillable land in hay	A B B C C C D D D		1.2 43.8 .1 3.9 6.8 3.9 3.7 2.1 2.9 2.5
Alfalfa pasture Other legumes and mixtures Other tillable pasture Total tillable land in pasture	A C D		5.5 6.0 10.1 21.6
Tillable land not cropped Total tillable land	D	***************************************	24.2 272.6
Wild hay Non-tillable pasture Timber (not pastured) Roads and waste Farmstead Brush Lake Total acres in farm			7.4 23.3 36.8 14.7 8.6 11.3 2.1 376.8
Percent land tillable Percent tillable land in high return crop	s		72.0 54.3

^{*} The crops are classified as A, B, C, or D crops on the basis of their average net returns per acre.

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Table 10. Crop Yields Per Acre, 1956

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		Average
	""	of farms
Can	Your	growing
Crop	farm	each crop
Flax, bu.		7.9
Barley, bu.	White has been designed and the second and the seco	26.4
Wheat, bu.		26.2
Oats, bu:	All markets and the second and the s	47.6
Rye, bu.	Mindle Courses are to descript out of the course out of the course of the course of the course out o	
Soybeans, bu.	Results (angle modes notes a representation of control control to	16.5
Potatoes, bu.	- Per-make-matter contribution of the property and the party of the pa	10.0
	"a" his film might common symmilly abstracts using data transportations.	149.7
Corn Grain, bu.	Bridden von Affreche graften unt der von der von der der der	27.0
Corn Fodder, tons		6.1
Corn silage, tons		5.4
Alfalfa Hay, tons	And State of the Control of the Cont	1.7
Alfalfa seed, lbs.		267.5
Red or alsike clover hay, tons		1.5
Red or alsike clover seed, lbs.		119.5
Bluegrass seed, lbs.		87.5
Sweet clover seed, lbs.	Problems in the Same - who maked in a Basic object properties.	56.4
Other legumes and legume mixture	hay, tons	1.4
Brome or timothy seed, lbs.		154.1
Brome or timothy hay, tons	The second secon	1.4
Wild hay, tons	The state of the s	•5
Annual hay, tons	hammed anno deducation of the state of the s	.8
Grass silage, tons	######################################	3.6
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POWER AND MACHINERY EXPENSE

Power and machinery expense per crop acre is an indication of the economy with which capital is invested in these **items**. The crop acres per farm ranged from 53 to 670 with an average of 236 (Table 11). The expenses are high on the farms with a small acreage. In some cases, low expenses for labor might be offset by high power and equipment costs. The farmer is interested in operating at the lowest cost for power, machinery and labor combined.

Table 11. Power and Machinery Expenses Per Crop Acre, 1956

Items	Your farm	Average of 51 farms	15 most profitable farms	15 least profitable farms,
Crop acres per farm Tractor expense per crop acre Crop & gen. mach. exp. per crop a	ıcre	236 \$4.39 3.77	291 \$4.23 3.92	214 \$4.55 3.90

AMOUNT OF LIVESTOCK

The farmers cooperating in this study are predominantly livestock farmers. 86% of these farmers maintained dairy cattle, 43% poultry, 20% raised sheep, 12% kept beef cattle and 30% raised one or more hogs.

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Table 11. . Poser and Machinery Expenses For Orop tore, 1936 :

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the fermers scoperaring in this study are predominably lipering. Services. Services. Services. Services. Services dairy cattle, 13% pountry, 26% cattle though the kept beef cattle and 30% cattle one or more togs.

Table 12. Amount of Livestock, 1956

	Your	Average of 60	15 most profitable	15 least profitable	
	farm	farms	farms	farms	
Number of milk cows		13.4	17.5	12.9	
Number of other dairy cattle		16.2	18.3	17.9	
Number of beef cattle (incl.feeders)		4.8	9.6	1.2	
Number of ewes		13.9	9.2	25.0	i
Number of hens		6 5	31	6	;
Litters of pigs raised		1.8	2.2	2.5	
Pounds of hogs produced		1990	3146	1873	

TOTAL FEED COSTS AND RETURNS FROM YOUR LIVESTOCK ENTERPRISES

The total "return over feed costs" for each class of livestock is shown in Table 13. This differs from the "return over feed" shown in the enterprise statement in that it is the total for each class of livestock instead of a return "Per head" "per unit" or "per 100 pounds". These data indicate the relative importance of different classes of livestock as a source of income and as a market for feed. The total return is the same as the returns and net increases shown on page 5. The value of milk consumed by calves is included in the total returns from dairy or dual purpose cows and in the total feed cost for other dairy or other dual purpose cattle. The value of milk consumed by calves is not included in either the total returns or the feed cost of "all dairy" or "all dual purpose" cattle. The return over feed is not a net return, but rather the amount available from the gross income, after paying the feed bill, to cover the outlay for hired labor, power, equipment, taxes, insurance, interest and veterinary bills and to provide a return for the use of family labor and capital.

Table 13. Total Feed Costs & Returns From Your Livestock Enterprises, 1956 Beef Dairy or dual purpose cattle breeding Other All herd Cows Total returns Total feed cost Total return over feed FEEDER Farm flock of sheep Chickens cattle Hogs Total returns Total feed cost Total return over feed

Feed is the largest single item of cost for all classes of livestock. However, the proportion of the total cost represented by feed varies considerably between classes of livestock. Feed makes up approximately 45 per cent of the total cost of maintaining dairy cattle and poultry, 50 per cent in the case of a farm flock of sheep, and 75 to 90 per cent for hogs, feeder cattle and feeder lambs. Consequently, it is necessary to secure a relatively higher return over feed from dairy cattle and poultry than from the other livestock enterprises in order to be able to cover all the costs other than feed.

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end of relate lands. Cancequestly, it is accessory to secure a relatively higher
socks over five from dairy cattle and youltry than from the ciner lavestock.

end are related to be able to cover the costs other than feed.

DAIRY AND DUAL PURPOSE CATTLE

The quantity of feed consumed, value of feeds and returns from dairy cattle are presented in Tables 14, 15, & 16. The return over feed cost per cow varied from \$9.46 to \$237.95 among the 46 herds covered by this study. Some of the important factors that affected the return over feed were:

- 1. Rate of production (pounds butterfat per cow)
- 2. Price received for butterfat
- 3. Feeding efficiency
- 4. Quality of ration
- 5. Economy of ration (Feed cost per pound butterfat)

Table 14. Factors of Cost and Returns from Dairy Cows. 1956

Table 14. Factors of Cost and Ret	urns from	Dairy Cows,	1956	
Items	Your farm	Average of 46 farms	15 farms highest in butterfat per cow	15 farms lowest in butterfat per cow
Pounds of butterfat per cow Price rec. per lb. B.F. sold (createrice rec. per lb. B.F. sold (milk		2 5 4 \$.63 .90	313 \$.63 .94	185 \$.64 .78
Feeds per cow, lbs.: Corn Small grain Commercial feeds		10 1250 355	10 1872 519	2 620 185
Legume hay Other hay Fodder and stover		6190 1184 161	5666 1470 -	6317 1228 545
Total concentrates Total dry roughage Silage		1615 7394 4006	2401 7136 4020	807 7614 4216
Feed cost per cow: Concentrates Roughages Pasture TOTAL FEED COSTS		\$34.56 48.59 7.84 90.99	7.38	\$16.17 44.30 8.10 68.57
Value of produce per cow: Butterfat sales Dairy produce used in house Milk to livestock Net increase in value of cows TOTAL VALUE PRODUCED		\$193.16 7.14 7.75 <u>-14.06</u> 193.99	\$276.24 5.27 3.66 -17.42 267.75	\$112.81 8.40 12.18 -19.09 114.30
RETURNS ABOVE FEED COST PER COW	\$	\$ 103	\$157.77	\$ 45.73
RETURNS FOR \$100 OF FEED	hanness of the section of the sectio	\$ 213	\$243	\$167
Feed cost per lb. B.F. (cents) Number of cows	***************************************	\$.36 14.8	\$.35 18.2	\$.37 13.4

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Foed cour per to. 8. Number of cows	(epsep) (i :.	e per commence de la	8, p. 3	88. \$ 5.80	
			•	• • •	, '}

Table 15. Feed Costs and Returns from Other Dairy & Dual Purpose Cattle, 1956

rabic 17. Teed costs and nevaring			15 farms	15 farms	
		Average	highest in	lowest in	
Items	Your	of 46	butterfat	butterfat	
white any particular and the control of the control	farm	farms	per cow	per cow	
Feeds per head, lbs.:					
Concentrates		225	407	93	
Hay and fodder		2593	2663	2758	
Silage		805	961	946	
Skim milk		637	113	1050	
Whole milk		161	97	279	
Feed cost per head:			,		
Concentrates	\$	\$6 . 32	\$12. 59	\$2.33	
Roughages		15.28	17.65	14.76	
Milk		6.81	3.58	10,42	
Pasture	Water-drawn and a second	4.54	<u>4.85</u>	4.68	
TOTAL FEED COSTS PER HEAD	-heelin medana commun	32.95	38.67	32.19	
Net inc. in value of other cattle		54.78	68.08	50.40	
·	****			,	
RETURNS ABOVE FEED COST PER HEAD		21.83	29.39	18.21	
RETURNS FOR \$100 OF FEED		\$166	\$176	\$157	
Number of head of other cattle	Processing and Secretary of the Park of th	17.9	18.3	17.9	

Table 16. Feed Costs & Returns fro	m All	Dairy & D	ual Purpose	e Cattle, 1956
Items	Your farm		butterfat	n lowest in
Feeds per animal unit, lbs.: Concentrates Hay and fodder Silage		1186 6703 3051	1871 6709 3321	589
TOTAL FEED COSTS PER ANIMAL UNIT \$_		\$76.18	\$96.41	\$58.48
Value of produce per animal unit: Dairy products Net inc. in val.of dairy cattle TOTAL VALUE PRODUCED		\$124.97 32.66 157.63	\$187.61 33.84 221.45	\$ 72.68 <u>29.46</u> 102.14
RETURNS ABOVE FEED PER ANIMAL UNITS	t de la constante de la consta	81.45	125.04	43.66
RETURNS FOR \$100 OF FEED \$_		\$207	\$230	\$175
Animal units of cattle		23.7	27.4	22.4

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Feeds per besi, des: Concessass day and fedder Allege Edda milk Viole milk		And the second s	11. See Asid		A SECTION OF THE SECT
Foed, ocal par head: Craventrates Water What Pastare		The Majoriton and the	\$6.32 6,31 4,31	95\CIX 50.NI 50.NI 50.A	68.88 89.84 38.66 38.84
TOTAL TEER COLES PER SEAD			29.SX	\$\$.\$\$	€ 4.5€
Net the saller of order	elicapo reda	*1.500.90.811101 505.1	94.78	80.88	0 4 .68
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30.5% 28.86 103.18		V6.44.14 36.55 70.700	value of produce per suimal anit: Relegate product to describe to describe which the value of the value of the property and
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Table 17. Feed Costs and Returns from a Farm Flock of Sheep, 1956

Table 17. Feed Costs and Returns ir	om a rarm	
		Average
	Your	of 10
Items	farm	Farms
773		
Feeds per head,* lbs.		0.3
Concentrates		91
Legume hay		597
Other hay	P-0	87
fodder & stover	Perhambahn des neuenbereitsmehrens	9
Silage	***************************************	40
Feed cost per head:		
Concentrates	\$	\$ 1.77
Roughages		4.06
Pasture		1.41
TOTAL FEED COSTS	\$	7.24
Value of produce per head:	transmission and brane	,
Wool	\$	\$ 3.49
Net increase in value of sheep	A.	10.85
TOTAL VALUE PRODUCED	4	14.34
TOTAL VALOU INOTOTIO	*	
RETURNS ABOVE FEED COST PER HEAD	\$	\$ 7.10
		, ,
RETURNS FOR \$100 OF FEED	\$	\$ 198
Price per cwt. of lambs sold	\$	\$18.00
Price per lb. of wool sold (cts.)		51.9
Pounds of wool per sheep sheared		8,6
77 - 2 0 2 t - 0 7 2		m a
Number of ewes kept for lambing		71
Per cent lamb crop**	PROPERTY OF THE PROPERTY PROPERTY OF THE PROPE	113
Per cent death loss**	Consideration of the confidence of the confidenc	4.7
Pounds of sheep produced		6204
rounds or smooth bronnoca		V 1 V 1
		·

^{*} Two lambs under six months of age considered as one head.

CHICKENS

Forty per cent of the farmers cooperating in this analysis kept some chickens. In most cases poultry is a very minor enterprise, providing eggs and poultry meat for family consumption plus a small additional amount of cash income.

Some of the important factors that affected the return over feed were:

- 1. Quantity of feed required per hen
- 2. Price received per dozen eggs sold
- 3. Eggs laid per hen
- 4. Percentage death loss of hens

^{**} Lambs which die during month of birth are not included.

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	***	Average	
tems	Your	of 19	
and you have the	farm	farms	
eed per hen, lbs.: Grain		91	
Commercial feeds	At the Chartest Chart	9± 44	
Total Concentrates		135	
Skim milk and buttermilk	ans a submission paragraph.	3	
OTAL FEED COST PER HEN	\$	\$ 3.40	
Value of Produce per hen:		,	
Eggs sold and used in house	\$	\$ 4.34	
Net inc. in value of chickens	\$	22	
TOTAL VALUE PRODUCED	\$	\$ 4.56	
RETURNS ABOVE FEED COST PER HEN	\$	\$ 1.16	
RETURNS FOR \$100 OF FEED	\$	\$134	
Child a Car Water of Caraca Ca	ं क्रि	₩±ノ 「	
Price rec'd. per doz. eggs sold (cent	s) \$	\$.32	
Eggs laid per hen	*	162	
2		Mk politing glaves	
ive. no. hens on farm during year Per cent death loss of hens	· · · · · · · · · · · · · · · · · · ·	175	
er cent death loss of nens	**************************************	15	
Cable 19. Feed Costs and Returns fro	m Beef Cattle, l Your	956 Average of 6	
Table 19. Feed Costs and Returns fro	m Beef Cattle, 1	956 Average	
Table 19. Feed Costs and Returns fro	m Beef Cattle, l Your	956 Average of 6 farms	***
Table 19. Feed Costs and Returns fro TTEMS Teeds per animal unit, lbs.: Concentrates	m Beef Cattle, l Your	956 Average of 6 farms	
Cable 19. Feed Costs and Returns from TEMS Geeds per animal unit, lbs.: Concentrates Legume	m Beef Cattle, l Your	956 Average of 6 farms 466 3779	
Cable 19. Feed Costs and Returns from TEMS Teeds per animal unit, lbs.: Concentrates Legume Other hay	m Beef Cattle, l Your	956 Average of 6 farms 466 3779 783	
Table 19. Feed Costs and Returns fro ITEMS Feeds per animal unit, lbs.: Concentrates Legume	m Beef Cattle, l Your	956 Average of 6 farms 466 3779	
Legume Other hay Fodder and stover Silage	m Beef Cattle, l Your	956 Average of 6 farms 466 3779 783 34	
Table 19. Feed Costs and Returns from ITEMS Feeds per animal unit, lbs.: Concentrates Legume Other hay Fodder and stover Silage Feed cost per animal unit:	m Beef Cattle, l Your	956 Average of 6 farms 466 3779 783 34 4998	
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Cable 19. Feed Costs and Returns from TTEMS Ceeds per animal unit, lbs.: Concentrates Legume Other hay Fodder and stover Silage Ceed cost per animal unit: Concentrates Roughages Pasture TOTAL FEED COSTS	m Beef Cattle, l Your	956 Average of 6 farms 466 3779 783 34 4998 \$ 12.08 34.15	
Table 19. Feed Costs and Returns from TTEMS Teeds per animal unit, lbs.: Concentrates Legume Other hay Fodder and stover Silage Teed cost per animal unit: Concentrates Roughages Pasture	m Beef Cattle, l Your	956 Average of 6 farms 466 3779 783 34 4998 \$ 12.08 34.15 8.88 55.11	
Cable 19. Feed Costs and Returns from TEMS Teeds per animal unit, lbs.: Concentrates Legume Other hay Fodder and stover Silage Teed cost per animal unit: Concentrates Roughages Pasture TOTAL FEED COSTS Talue of produce per animal unit: Dairy products	m Beef Cattle, l Your	956 Average of 6 farms 466 3779 783 34 4998 \$ 12.08 34.15 8.88 55.11	
Table 19. Feed Costs and Returns from TEMS Teeds per animal unit, lbs.: Concentrates Legume Other hay Fodder and stover Silage Teed cost per animal unit: Concentrates Roughages Pasture TOTAL FEED COSTS Talue of produce per animal unit: Dairy products Net increase in value of animals	m Beef Cattle, l Your	956 Average of 6 farms 466 3779 783 34 4998 \$ 12.08 34.15 8.88 55.11 \$ 10.67 95.00	
Cable 19. Feed Costs and Returns from TEMS Teeds per animal unit, lbs.: Concentrates Legume Other hay Fodder and stover Silage Teed cost per animal unit: Concentrates Roughages Pasture	m Beef Cattle, l Your	956 Average of 6 farms 466 3779 783 34 4998 \$ 12.08 34.15 8.88 55.11	
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Cable 19. Feed Costs and Returns from TTEMS Ceeds per animal unit, lbs.: Concentrates Legume Other hay Fodder and stover Silage Ceed cost per animal unit: Concentrates Roughages Pasture	m Beef Cattle, 1 Your farm \$	956 Average of 6 farms 466 3779 783 34 4998 \$ 12.08 34.15 8.88 55.11 \$ 10.67 95.00 \$105.67 \$ 50.56	
Cable 19. Feed Costs and Returns from TTEMS Teeds per animal unit, lbs.: Concentrates Legume Other hay Fodder and stover Silage Teed cost per animal unit: Concentrates Roughages Pasture TOTAL FEED COSTS Talue of produce per animal unit: Dairy products Net increase in value of animals	m Beef Cattle, 1 Your farm \$	956 Average of 6 farms 466 3779 783 34 4998 \$ 12.08 34.15 8.88 55.11 \$ 10.67 95.00 \$105.67 \$ 50.56	

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20.01 % CO. 01 % CO.		Trems of union one; ice; Concentrates Stiese May Fact our ended units Concentrates Concentrates Roughages Valve of grother estimat unit; Total tarrese in value of suimat Total value of suimat unit; Total value of suimat

Raising hogs is a minor livestock enterprise on most farms in Northwestern Minnesota. The hog enterprise in this area varies in size from raising one or two for home butchering to the raising of a number of litters per year. In most cases the pigs were sold at time of weaning, keeping only two or three to be fed out to slaughter weights.

Table 20. Feed costs and returns from Hogs, 1956

Items	Your farm	Average of 16 farms	
Feed per cwt. hogs produced, lbs.: Corn Small grain Commercial feeds Total concentrates Skim milk and buttermilk Feed cost per cwt. hogs produced: Concentrates		7 338 89 434 625	ant forward on the for a behalf of the second of the secon
Skim milk and buttermilk Pasture TOTAL FEED COST	The state of the s	2.24 .77 \$12.26	
Net increase in val. per cwt. hogs prod.	\$	\$17.10	
RETURNS ABOVE FEED COST PER CWT. HOGS PRODUCED	\$	\$ 4.84	
RETURNS FOR \$100 FEED	\$	\$140	
Price received per cwt. hogs sold	\$	\$ 16	
No. of spring litters raised No. of fall litters raised Total no. of litters raised		3.6 2.1 5.7	
No. of pags born per litter No. of pags weamed per litter		9.5 8.1	
Pounds of hogs produced	-	6345	

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