1964 Annual Report

FARM MANAGEMENT PROGRAM NORTHEASTERN MINNESOTA

Iron Range Resources and Rehabilitation Commission

In Cooperation with

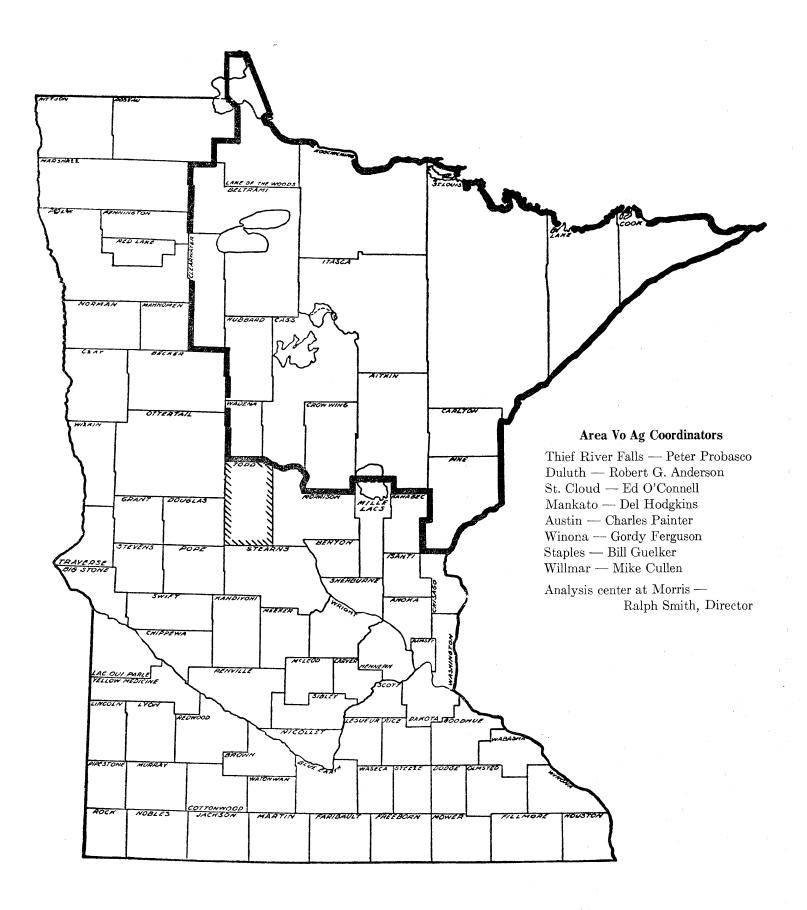
Minnesota Department of Education Vocational Division

and

University of Minnesota Institute of Agriculture

and

Area Vocational – Technical School Duluth, Minnesota



1964 REPORT OF THE VOCATIONAL AGRICULTURE FARM MAMAGEMENT PROGRAM IN MORTHEASTERN MINNECOTA

ROBERT G. ANDERSON Duluth Area Vocational School

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<u>STATE OF MINHESOTA</u>

DEPARTMENT OF IRON RANGE RUSOURCES AND RUHABILITATION

> 67 State Office Building Saint Paul 1, Minnesota

FOREWORD

This report is a summary of the ninth straight year of the Farm Management Program study for Northeastern Minnesota sponsored by Iron Range Resources and Rebabilitation in cooperation with the Minnesota Department. of Education, Vocational Division, University of Hinnesota, Institute of Agriculture, and the Area Voc tional-Technical School of Duluth, Minnesota.

We hope that a study of this type will make it possible for people engaged in farming to improve their present programs and increase production and annual income. This study encoura es the use of farm land for farm wood lot management for additional income through the sale of forest products.

The value of this service is in the continuous operation of the program over a veried of years. This being the ninth straight year of the program makes the present study of great importance. It also emphasizes the need for the continuation of the project in future years. I have recommended additional funds for the continuation of the project for the next fiscal year and would encourage a summary of all previous studies at some future date.

We wish to commend Mr. Robert G. Anderson, Area Vocational Agriculture Coordinator, Area Vocational-Technical School, Duluth. His interest in this project, which demands extra time and effort on his part, in addition to his regular duties, has made this project possible. We hope the people in the area who will benefit from the studies appreciate his efforts.

The success of the project is possible because of the fine cooperation given to Mr. Anderson by the participating farmers, by the vocational agriculture instructors, instructors of veterans agriculture, county agents, and county rural development agents.

This report is offered with the best vishes of this department and with the hope that it will be of some help to formers of the area toward a more efficient, successful, and prosperous agriculture program.

Copies of this report will be available to anyone interested at no charge.

A. N. DeYCANNES, Commissioner

INTRODUCTION

The Duluth Area Vocational Tachnical School, in cooperation with the University of Minnesota and the Vocational Division of the Minnesota State Department of Education, is charged with the responsibility for operation and raintenance of the Vocational Agriculture Farm Management Program in Northcastern Minnesota. This 1964 report represents the minth annual report for the area.

The main purposes of the program of farm record analysis are: (1) To provide case study materials that can be used by farmers and farm groups in the study of farm management problems, (2) To aid individual formers in the study of their farm business through analysis reports, (3) To provide information related to the edeptability and success of various form enterprises in the area, (4) To provide a basis for determining the possibilities of encouracing or discouraging new agricultural enterprises for the area, (5) To secure information on farm randoment practices that tend to increase farm income, and (6) To provide a profile of agricultural production and income in the area.

The report and analysis of records were completed under the direction of Robert G. Anderson, Area Vo Ag Coordinator at the Duluth Area Vocational Technical School. Clerical assistance was provided by Mrs. Sandy Wrenfrow. Financial assistance has been obtained from Iron Range Resources and Rehabilitation Cormission.

Directing locally in a supervisory capacity wore: Dr. L. V. Rasmussen, Superintendent of Duluth Public Schools and Mr. Harold Hill, Director of the Duluth Area Vocational Technical School.

Cooperating agencies were represented by: Mr. G. R. Cochran, Mr. S. K. Wick and Mr. Robert Van Tries of the Vocational Division, State Department of Education, and Dr. Milo J. Peterson and Dr. Paul Marvin and Mr. Edgar Persons of the Agricultural Education Department of the University of Minnesota. Special acknowledgement is made of the excellent professional assistance rendered by Dr. Truman Medland of the University Agricultural Economics Department.

We are thankful for and indebted to the Iron Range Resources and Rehabilitation for their interest and financial assistance in the farm management program. We wish to express also, our appreciation to Mr. Arthur Vieira, Printing Instructor, Duluth Public Schools, and to his class for their help in the publishing of this report.

Special thanks are also extended to William Guelker, Vo Ag Coordinator from Staples.

This report deals with farmers enrolled in adult programs of schools and county agent programs shown below. Sixty records were pubmitted for analysis with averages of fifty two farms included in this report.

1964 records for analysis were received from:

Robert Johnson, Vo Ag Instructor, Barnum Dalton Seeling, Vo Ag Instructor, Bemidji Donald Barstad, Vo Ag Instructor, Clarissa Anthony Grebenc, Vo Ag Instructor, Cook Lennen Naley, Vo Ag Instructor, Eagle Bend Ed Takala, Vo Ag Instructor, Embarrass Sulo Ojakangas, Vo Ag Instructor, Hibbing Wilho Kemp, Vo Ag Instructor, Little Fork Donald Larsen, Vo Ag Instructor, Meadowlands Paul Jourdan, Vo Ag Instructor, Northome Martin Klingenberg, Vo Ag Instructor, Park Rapids Chris Back, Vo Ag Instructor, Staples Erv Prachar, Vo Ag Instructor, Willow River

County Agents:

John Eix, Park Rapids (Hubbard) Otto Lee, Baudette (Lake of the Woods)

The cooperating centers submitted records from 12 counties for analysis with some centers having participating farmers in more than one county. The number of farm records submitted from each county is shown below.

Becker	3	Koochiching	4
Beltrami	4	Lake of the Woods	3
Carlton	, 1	Pine	3
Cass	5	St. Louis	9
Hubbard	12	Todd	14
Ttasca	ייי <i>די</i> ן	Wadena	1
ilabla	<u>.</u>	TOTAL	6)

Records this year, for the first time, were analyzed by electronic data processing with the work being done at Madison, Wisconsin. Many problems need to be resolved using these procedures, but the future looks bright for this electronic method.

The records submitted included farm inventories, cash receipts, and expenses. Also included were feed consumed by the various classes of livestock, family living 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 \$5,698 to \$120,566. The average investment for all farms included in this report and for the one-fourth high and the one-fourth low in operators' labor earnings is shown in Table I.

FARM EARNINGS

Operators' earnings are a measure of 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 and family labor. There are two methods of computing labor earnings. Table II shows the earnings statement on a cash basis while Table III shows the earnings on an enterprise or accrual tasis. The principal difference in the two statements is in the method of handling the net increase or decrease in 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.

FORESTRY INCOME

A portion of the farm income in Northeastern Minnesota is obtained from the sale of forestry products. Nine farms out of those represented in this report indicated some form of forestry income ranging from a low of \$135 to a high of \$2629 per farm. The average forestry income per farm (average of all 60 farms) amounted to \$120, or 1.0% of the total farm income received. Forestry income is included as farm income in this report.

NON_FARM INCOME

Numerous Northeastern Minnesota farmers, in addition to their regular farm income are earning additional income in full or part time work not related to farming. Records submitted for this report cannot be considered as completely reliable in respect to non-farm income as this entry can be frequently omitted from the farm account books. However, 26 farms in this report showed outside income ranging from a low of \$6 to a high of \$5632 per farm involved. Non-farm income is not included in this report as farm labor earnings.

BEEF INCOME

There is much interest in beef production in Northeastern Minnesota and beef cattle numbers are on the increase. Eleven of the records submitted indicated beef as one of the major enterprises, or in some cases beef was the only livestock enterprise. Animal units of beef on these ll farms averaged 31.7. The average return per cwt. of beef produced was \$9.25. The range of earnings was (minus) -\$4,277 through \$5,283. It appears that there is a place for beef cattle in this area, especially for the maintaining of a beef cow herd to raise feeders for corn belt farmers. Good management in the saving of a large percentage of the beef calves is a very vital part of any success in the beef business.

TABLE I. SUMMARY OF FARM INVENTORIES, 1964

Items	(divetmente		ge 52 farms
	Adjustments	Jan. 1	Dec. 31
Size of farm (acres) Size of business (work units)			409 449
Dairy cattle Other dairy cattle Beef cattle (incl. feeders) Hogs Sheep (incl. feeders) Poultry (incl. turkeys) TOTAL PRODUCTIVE LIVESTOCK		\$ 3,055 1,555 3,597 235 98 57 \$ 8,597	1,605 4,121 332 107 55
Crops (seed and feed)		\$ 3,488	\$ 3,199
Auto and truck (farm share) Fractors and motors Crop and general machinery Livestock equipment TOTAL MACHINERY AND EQUIPME	NT	856 1,663 2,669 1,089 \$ 6,277	2,817
Land Buildings - fences - etc.		\$ 11,135 5,192	\$ 11,135 5,324
TOTAL FARM CAPITAL		\$ 34,689	\$ 35,261

Items	-	t profitable Dec.,31	13 least p Jan. l	
Size of farm (acres) Size of busimess (work units)		503 621	446 477	
Dairy cattle Other dairy cattle Beef cattle (incl. feeders) Hogs Sheep (incl. feeders) Poultry (incl. turkeys) TOTAL PRODUCTIVE LIVESTOCK S	\$ 3,958 2,158 4,634 87 <u>10</u> \$ 10,847	\$ 3,990 2,463 6,027 115 \$ <u>17</u> \$ <u>12,612</u>	1,270	\$ 3,175 1,128 6,217 210 305 158 \$ 11,193
Crops (seed and feed)	6,041	\$ 5,681	\$ 3,354	\$ 3,041
Auto and truck (farm share) Tractors and motors Crop and general machinery Livestock equipment TOTAL MACHINERY AND EQUIPMEN	943 2,094 3,755 1,831 VT\$8,623	1,034 2,045 4,218 1,794 \$ 9,091		960 2,461 3,461 1,158 \$,040
Land § Buildings - fences - etc.	18,610	\$ 18,610 8,099	\$ 10,255 <u>5,217</u>	\$ 10,255 4,926
TOTAL FARM CAPITAL \$	51,551	\$ 54,093	\$ 37,419	\$ 37,455

BLE II. SUMMARY OF FARM EARNINGS (CA	Lunn an	ENT), 1964	13
	Average of 52	most	least
	farms	profitable	profitable
iems	1 31 110	prozition	
RM RECEIPTS	§ 1,008	\$ 1,184	\$ 820
Daily carbord	6,031	9,531	5,109
Dairy products	943	1,116	1,449
Beef cattle (incl. feeders)	511	299	296
Hogs	97		212
Sheep and wool	20		59
Poultry (incl. turkeys)	20 40		86
Eggs	28	33	50
Corn	417	1,244	207
Small grain	846	2,352	190
Other crops		166	161
Mach.&equip.sold&gas tax refund	157 rr4	848	234
Income from work off the farm	556	679	456
Miscellaneous farm income	591		\$ 9,329
(1) Total farm sales	\$11,245	\$17,452 2,542	36
(2) Increase in farm capital	572		395
(3) Family living from the farm	358	\$ <u>20,370</u>	\$ 9,760
(4) Total farm receipts(1)+(2)+(3)	\$12,175	\$20,570	4 /1/00
ARM EXPENSES			
Dairy cattle bought	\$ 69	\$ 98	\$ 40
Beef cattle bought (incl. feeders)	165	65	519
Hogs bought	21	25	30
	3		11
Sheep bought Poultry bought (incl. turkeys)	1.3		40
Miscellaneous livestock expense	360	459	434
	1,419	1,464	1,205
Feed bought	467	858	565
Fertilizer	429	738	449
Other crop expense	606	759	588
Custom work hired	679	790	731
Gas, oil, grease bo't (farm share)			
Repairs for tractors, trucks,	385	549	349
and autos (farm share)	106	104	88
Repair & upkeep of real estate	239	269	2.66
Repair & upkeep crop-gen. mach.	85	131	102
Repair & upkeep livestock equip.	340	779	332
Wages of hired labor	216	289	180
Electricity expense	518	693	591
Pers. prop. & real estate taxes	/	267	172
Telephone and general farm expense	2 <u>100</u>	\$ 8,337	\$ 6,692
(5) Total cash operating expense	\$ 6,306 .	692	731
(6) Mech.power bought (farm share)) 533	1,451	717
(7) Crop & gen. machinery bought	703	200	389
(8) Livestock equipment bought	208 504	1,185	342
(a) New real estate improvements	536		\$ 8,871
(10) Total farm purchases (5) to (9)\$ 8,286	\$11,865	$\varphi \cup \varphi \cup \varphi$
(11) Decrease in farm capital		o (10	1,872
(12) Interest on farm capital	1,749	2,641	£,072 617
(13) Unpaid family labor	452	302	134
(1) Doord furnished hired 1400r	80	108	
(14) Board Farm expense (10) to (1 (15) Total farm expense (10) to (1	4)\$10,568	\$14,916	\$11,494 \$ 1,734-
(16) Labor earnings $(4) - (15)$	\$ 1,607	\$ 5,454	T 1. / 34-

TABLE II. SUMMARY OF FARM EARNINGS (CASH STATEMENT), 1964

	Lverage	STATEMENT), 1 13 most	13 least
	of 52	profitable	profitable
	farms	farms	farms
RETURNS AND NET INCREASES			
Dairy cattle	\$ 6,235	\$ 9,838	\$ 5,253
Other dairy cattle	1,144	1,586	924
Beef breeding cattle	937	1,380	1,236
Feeder cattle	351	1,078	150
Hogs	607	311	343
Sheep	103	-	223
Turkeys	3	8	7
Chickens	55		111
ALL PRODUCTIVE LIVESTOCK	\$ 9,435	\$14,201	\$ 8,247
Value of feed fed to livestock	5,986	7,522	6,621
Return over feed from livestock	\$ 3,449	\$ 6,679	\$ 1,626
Crop, seed and feed	4,614	7,613	4,548
Income from labor off the farm	460	802	205
Agricultural conservation payments	466	563	419
Miscellaneous	124	116	37
(1) Total returns & net increases	\$ 9,113	\$15,773	\$ 6,835
KPENSES AND NET DECREASES	4		
Auto (farm share)	\$ 182	\$ 163	\$ 188
Tractor	457	561	572
	763	950	892
Electric and gas engines Hired power	281	349	344
TOTAL POWER	66	51	79
	\$ 1,749	\$ 2,074	\$ 2,075
Crop and general machinery Livestock equipment	865	1,436	858
Buildings, fencing & tiling	398	495	517
Misc. livestock expense	511	619	722
Labor	360	459	434
Real estate taxes	1,176	1,636	1,328
Personal property tax	342	452	370
Insurance	176	240	222
General farm expense	81	107	76
Interest on farm capital	105	160	96
(2) Total avpareas f mat deamers	1,749	2,641	1,872
(2) Total expenses & net decreases	φ 7,512	\$10,319	\$ 8,570
(3) LABOR ELENINGS (1) - (2)	\$ 1,601	é e heh	¢ 7 707
	Ψ L OUL	\$ 5,454	\$ 1,735-

TABLE III. SUMMARY OF FARM EXPENSES (ENTERPRISE STATEMENT), 1964

* 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.

		G acot
	÷	7 least
of 34	-	
farms		farms
5.4		. /
3.9	4.	.0 4.6
 769 153 139 272 84 193 79 328 155 150 24 \$ 2,473 50 40 136 47 \$ 2,747 394 \$ 3,140 	 \$ 870 208 290 444 150 294 109 404 299 203 37 \$ 3,449 69 74 197 164 \$ 3,953 437 \$ 4.390 	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
	5.4 3.9 \$ 769 153 139 272 84 193 79 328 155 150 24 \$ 2,473 50 40 136 47 \$ 2,747	of 34 profitable farms farms 5.4 5. 3.9 4. \$ 769 \$ 870 153 208 139 290 272 444 84 150 193 294 79 109 328 404 155 299 150 203 24 37 \$ 2,473 \$ 3,449 50 69 40 74 136 197 47 164 \$ 2,747 \$ 3,953 394 437

TABLE IV. CASH HOUSEHOLD AND PERSONAL EXPENSES FOR THOSE FARMS WHICH KEPT COMPLETE ACCOUNTS OF THESE EXPENSES, 1964

TABLE V. NET WORTH STATEMENT FOR THOSE FARMERS WHO KEPT A COMPLETE RECORD OF ALL ASSETS AND LIABILITIES, 1964 (OPERATOR'S SHARE)

OF ALL ADDITO AND DIA	Owners 46 farms		Part Cwne 5 farms	ers
	Jan. 1	Dec. 31	Jan. 1	Dec. 31
Total farm capital Auto (personal share) Dwelling Other personal assets TOTAL ASSETS	\$35,357 434 4,145 <u>3,236</u> \$43,171	\$36,017 ,434 3,956 3,364 \$43,771	\$32,682 201 6,245 4,616 \$43,745	\$32,535 130 6,215 4,702 \$43,581
Real estate mortgages Chattel mortgages Notes Accounts payable TOTAL LLABILITIES	\$ 5,472 3,142 1,260 <u>678</u> \$10,552	\$ 5,890 3,200 1,117 623 \$10,833	\$ 7,044 3,714 985 739 \$12,482	\$ 6,932 3,489 1,047 <u>1,312</u> \$12,780
Farmer's net worth	\$32,620	\$32,941	\$31,263	\$30,801
GAIN IN NET WORTH		\$ 322		\$ 461 -

* Includes any partners' share in the farm business.

(Continued) TABLE V.

	Owners 12 farms		
12 most profitable farms	Jan, 1	Dec. 31	
Total farm capital Auto (personal share) Dwelling Other personal assets TOTAL ASSETS	\$ 54,678 648 6,379 4,485 \$ 66,189	\$ 57,428 636 6,571 <u>4,766</u> \$ 69,402	
Real estate mortgages Chattel mortgages Notes Accounts payable TOTAL LIABILITIES	\$ 7,720 3,483 1,633 302 \$ 13,138	\$ 9,706 3,057 1,225 <u>453</u> \$ 14,442	
Farmer's net worth	\$ 53,051	\$ 54,960	
GAIN IN NET WORTH		\$ 1,909	

	Owners Part]] farms 11 fa	Owners rms
11 least profitable farms	Jan. 1 Dec. 31 Jan.	1 Dec. 31
Total farm capital Auto (personal share) Dwelling Other personal assets TOTAL ASSETS	\$ 37,869 \$ 38,435 \$ 34,94 374 428 26 2,959 2,834 7,33 <u>3,699 3,863 3,44</u> \$ 44,901 \$ 45,559 \$ 45,98	0 147 0 7,470 4 3,44 <u>5</u>
Real estate mortgages Chattel mortgages Notes Accounts payable TOTAL LIABILITIES	$\begin{array}{c} \$ & 4,805 & \$ & 4,411 & \$ & 8,80\\ 3,606 & 4,777 & 5,35\\ 711 & 767 & 38\\ 756 & 805 & 1,33\\ \$ & 9,879 & \$ & 10,759 & \$ & 15,86\end{array}$	0 4,739 3 460 1 1,767
Farmer's net worth	\$ 35,022 \$ 34,800 \$ 30,1]	.5 \$ 27,554
GAIN IN NET WORTH	\$ 222 -	\$ 2,561-

* Includes any partners' share in the farm business

Items Adjustments	47	5
_tems <u>Adjustments</u> FARM RECEIPTS	Owners	Partners
	4	
Dairy and dual purpose cattle	\$ 1,013	\$ 921
Dairy products	6,034	6,003
Beef cattle (incl. feeders)	945	930
Hogs	392	1,634
Sheep and wool (incl. feeders)	106	6
Poultry (incl. turkeys)	22	-
Eggs	1+24	
Jorn	31	
Small grain	457	36
Other crops		-
Machinery & equipment sold	925	100
Income from work off the farm	161	113
	576	360
fiscellaneous	622	296
(1) Total farm sales	\$11,328	\$10,399
(2) Increase in farm capital	647	
(3) Family living from the farm	355	382
(4) Total Farm Receipts (1)+(2)+(3)	\$12,330	\$10,781
PARM EXPENSES		
Dairy and dual purpose cattle bo't	\$ 77	
Beef cattle bought (incl. feeders)		\$ 160
logs bought	165	•
Sheep bought (incl. feeders)	23	2
	3	
Poultry	15	
lisc. livestock expense	361	350
reed	1,385	1,733
Fertilizers	465	490
Other crop expense	421	507
Custom work hired	591	749
las-oil-grease	675	712
Fractor-truck-auto repairs (f. share)	387	357
Real estate repairs	112	
Crop & gen. machine repairs		52
	230	333
livestock equipment repairs	85	80
Jages of hired lebor	368	74
llectricity expense (farm share)	214	238
leal estate & pers. property taxes	514	549
lash rent	93	193
eneral farm expenses	186	179
Interest paid	484	624
TOTAL CASH OPERATING EXPENSES	\$ 6,854	\$ 7,380
lechanical power bought (farm share)	555	333
rop & general machinery bought	748	281
ivestock equipment bought	208	204
lew real estate improvements		
	<u>+ 437</u>	1,472
5) Total farm purchases	\$ 8,802	\$ 9,670
6) Decrease in farm capital		147-
7) Interest on farm capital	1,277	1,007
8) Unpaid family labor	421	755
9) Board furnished hired labor	84	40
.) Total Farm Expenses (5)+(6)+(7)+(8)+(9)	\$10,584	\$11,019
1) Labor Earnings (4) - (10)	1,745	837-

TABLE VI	SUMMARY	OF	FARM	EARNINGS	BY	TENURE.	1	<u> 964 (</u>	(OPERATOR'S	SHARE))
----------	---------	----	------	----------	----	---------	---	---------------	-------------	--------	---

* Includes any partner's share that may be in this classification.

(Continued) TABLE VI.

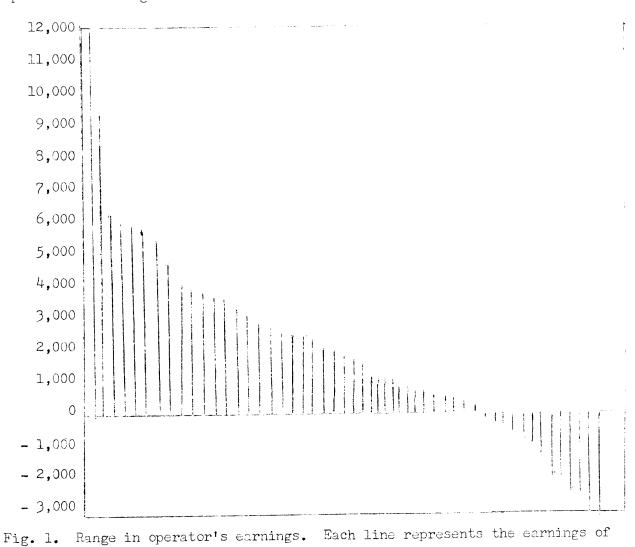
TABLE VI.	13 most	13 least	
	profitable-	profitable-	
Items	13 Owners	11 Owners	2 Partners-
FARM RECEIPTS	& <u>1</u> 104	\$ 744	↓ 1 , 150
Dairy and dual purpose cattle	\$ 1,184	φ 744 4,719	7,254
Dairy products	9,531 1,116	1,712	1,-)
Beef cattle (incl. feeders)	299	253	533
Hogs	L))	248	15
Sheep and wool (incl. feeders)		70	
Poultry (incl. feeders)		102	
Eggs Corn	33	59	a a
Small grain	1,244	229	90
Other crops	2,352	221	19
Machinery & equipment sold	166	174 244	91 178
Income from work off the farm	848		170
Miscellaneous	\$ 17.451	\$ <u>536</u> \$ <u>9,311</u>	\$ 9.345
(1) Total farm sales	\$ <u>17,451</u> 2,542	566	
(2) Increase in farm capital	375	430	206
(3) Family living from the farm $(1) + (2) + (3)$	\$ 20,368	\$10,307	\$ 9,551
(4) Total Farm Receipts (1)+(2)+(3)	φ	·	
FARM EXPENSES			
Dairy and dual purpose cattle bo't	\$ 98	\$ 47	
Beef cattle bought (incl. feeders)	65	613	
Hogs bought	25	36	
Sheep bought (incl. feeders)		13	
Poultry	1.50	47	400
Misc. livestock expense	459	440 1,281	783
Feed	1,464 858	533	466
Fertilizers Other crop expense	738	441	494
Custom work hired	759	524	941
Gas-oil-grease	790	699	908
Tractor-truck-auto repairs (f. share)	549	349	351
Real estate repairs	104	101	17
Crop & gen. machine repairs	269	·251	347
Livestock equipment repairs	131	107	76
Wages of hired labor	779	372	110 243
Electricity expense (farm share)	289	168	614
Real estate & pers. property taxes	693	587 64	150
Cash rent	193 263	173	163
General farm expenses Interest paid	635	535	894
TOTAL CASH OPERATING EXPENSES	\$ 9,160	\$ 7,434	\$ 6,957
Mechanical power bought (farm share)	692	864	
Crop & general machinery bought	1,451	848	1.07
Livestock equipment bought	200	370	491
New real estate improvements	1,185	<u> 300 </u> <u> 300 </u> <u> 300 </u> <u> 301 </u> <u> 300 </u> () <u> 300 </u> () () () () () () ())	<u>\$ 575</u>
(5) Total Farm Purchases	\$ 12,688	\$ 9,816	\$ 8,022 2,878-
(6) Decrease in farm capital	0.000	1,372	782
(7) Interest on farm capital	2,007	483	
(8) Unpaid family labor	302 108	151	40
(9) Board furnished hired labor(10) Total Farm Expenses (5)+(6)+(7)+(8)	(9) + (9) + $(5,105)$	\$11,822	\$13,072
(11) Labor Earnings $(4) = (10)$	5.264	1,515	- 3,522-
$(1, \alpha)$ $(1, \beta)$ $(1, \beta)$ $(1, \beta)$ $(1, \beta)$	(11) 7 572	340	1,390-
* Includes any partner's share that	t may be in th	is classifica	tion
<u> </u>	2.0		

The return to capital and family labor represents the amount available to the operator for living expenses, payment on indebtedness, and savings.

RANGE IN EARNINGS

Every study of farm earnings shows a wide variation in earnings among farmers in a given year. The average operator's earnings of farmers ranking in the upper fourth of the range according to earnings was \$5454 and of those in the lower fourth was \$-1734. This is a range of \$7188 between the average earnings of these two groups. Some of the causes for these differences in carnings, 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.					Return from livestock
4.	Amount of livestock	5.	Size of business	6.	Work units per worker
7.	Control over expenses				



Operator's Earnings:

one farmer.

^{1/} See Pond, G. A. "Why Farm Earnings Vary". Minn. Agri. Experimental Station. Duluth 386, June 1945.

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, or ten hours of work off the farm for pay. The number of work units for each class of livestock and each acre of crop are presented in Table VII below.

TABLE VII. NUMBER OF WORK UNITS FOR EACH CLASS OF LIVESTOCK AND CROP ACRE

Item	No. of Work Units
Item Dairy and dual purpose cows Other dairy and dual purpose cattle Beef breeding herd Feeder Cattle Sheep - farm flock Sheep - feeders Hogs Turkeys Hens Canning peas Soybeans for grain Potatoes Small grain Sugar beets Sweet corn Corn, husked Corn, shredded Corn silage Corn, hogged Corn fodder Silage, other than corn Green chop Alfalfa hay	<pre>10.0 per cow 3.5 per animal unit* 3.5 per animal unit* 3.5 per animal unit* .25 per cwt. 1.5 per cwt. .2 per cwt. .5 per cwt. 20.0 per 100 hens .5 per acre .5 per acre .5 per acre .5 per acre .5 per acre .5 per acre .7 per acre .7 per acre .7 per acre .5 per acre .6 per acre .6 per acre .6 per acre</pre>
Soybean hay Other hay crops Pasture	.8 per acre .4 per acre .2 per acre

*Animal unit represents one dairy cow or bull, two other dairy cattle, l_4^{\pm} beef cows or bull, 1 feeder steer or heifer, 3 1/3 other beef cattle, 7 sheep, 14 lambs, $2\frac{1}{2}$ hogs, 5 pigs, 50 hens, or 1,100 lbs. of turkeys produced.

TABLE VIII. MEASURES OF FARM ORGANIZATION AN	Average	13 most	13 least e/profitable
Measures used in chart on page 14	farms	farms	farms
Labor earnings	¢1,607	\$5,454	\$1,734-
(l) Crop yielas *	100	113	99
(2) Per cent tillable land in high return crops	43.1	43.8	45.5
Gross roturn per acre	28.21	32.60	27.33
(3) Return for \$100 feed to productive livestock*	100	118	84
<pre>(4) Productive livestock units per 100 acres**</pre>	20.3		
(5) Size of business - work units	449	621	476
(6) Work units per worker	251.1	270.9	285.3
(7) Power, machinery, equipment & building expense per work unit	\$ 7.94	\$ 7.45	\$ 8.76
Items Related to Some of the Above Measures: (3) Index of return for \$100 feed from: Dairy cattle (see pp. 20 & 21) Beef cattle - breeding herd (see p. 22) Beef cattle - feeders (see p. 22) Hogs (see pp. 18 & 19) Sheep - farm flock (see p. 23)	100 100 106 98 100	113 127 128 110	85 71 524 82 125
(4) Number of animal units	54.0	71.5	64.1
(5) Work units on crop Work units on productive livestock	146 297	221 400	129 347
(6) Power expense per work unit	\$ 3.95	\$ 3.34	¢ 4 . 36
Crop machinery expense per work unit	\$ 1.95	\$ 2.31	\$ 1. 80
Livestock equip. expense per work unit	\$.90	\$.80	\$ 1.08
Building & fence expense per work unit	\$ 1.15	\$ 1. 00	\$ 1 . 52

TABLE VIII. MEASURES OF FARM ORGANIZATION AND MANAGEMENT EFFICIENCY, 1964

* Given as a percentage of the average.

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

Using your figures from page 13, locate your standing with respect to the various measures of farm organization and management efficiency. The averages for the farms included in this summary are located between the dotted lines across the center of the page.

across the		er ol	<u>une p</u>				turr		Pr.L			Work units	<u>Р.М.Е.</u> В. ехр.
	Labor earn -	Cr	OT.		High ret.		om r ctiv	oro- 7e	units per		ork	per	per
	ings		elds-		eroj			Sock	100 4		nits		W. U.
9077		190		79		199		38		1043		548	1.64
8247		186		75		188		36		977		515	2.34
7417		170		71		177		34		911		482	3.04
6587		160		67		166		32		845		449	3•74
5757		150		63		155		30		779		416	4.144
4927		140		59		144		28		713		383	5.14
4097		130		55		133		26		647		350	5.84
3267		120		51		122		24		581		317	6.54
2437		110		47		111		22		515		284	7.24
1607		100		43		 100	 	20		449	- -	251	7.94
 777		 90	·	 39		 89		 18		383	- -	218	8.64
- 53		80		35		78		16	,	317		185	9•34
- 883		70		31		67		14		251		152	10.04
-1713		60		27		56		12		185		119	10.74
-2543		50		23		45		10		119		86	11.44
-3373		40		19	<u> </u>	34		8		53	_{	53	12.14
(\bigcirc) (

	ust- Crop	Number	Avg. acres	Average	
Items men-			of 52 farms	yield	
Oats - and mixtures	С	41	24.6	39.7	
Oats silage	В	4	2.5	4.2	
Canning peas					
Wheat	С	6	4.0	22.9	
Barley	С	4	3.4	23.3	
Flax	С	5	3.9	8.6	
TOTAL SMALL GRAIN AND PEAS	5		38.4		
Canning corn	,				
Corn grain and seed corn	B/D	21	9•9	44.7	
Soybeans - grain	С	1	•3	40.6	
Corn silage	В	29	18.6	6.1	
Corn and cane fodder	\mathbf{D}	2	•3	1.7	
Other cultivated crops		7	6.3	282.5	
TOTAL CULTIVATEL CROPS			35.4		
Alfalfa hay	$\mathbf{A}^{(n)}$	31	33.1	1.7	
Other legumes and mixtures	В	39	56.8	1.2	
Misc. hay and seed	D	18	9.7	70.6	
TOTAL NAY			99.6		
Alfalfa Pasture	Λ	4	1.6		
Other legume pasture	В	12	9.7		
Other tillable pasture	D	19	13.4		
TOTAL TILLABLE PASTURE			24.7		
Government program	В	14	14.5	15.23	аў.
Tillable land idle	D	10	7.1		
TOTAL TILLABLE LAND			219.7		
Wild hay		19	8.0		
Non-tillable pasture		47	80.8		
Timber		42	65.5		
Roads and waste		48	29.5		
Farmstead		52	5.4		
TOTAL ACRES IN FARM			408.9		
Per cent of land tillable			53•7		
Per cent in high return crop	S		41.3		

TABLE	IX.	DISTRIBUTION	OF	ACRES	AND	YIELD.	1964
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* Some crops were grouped because acreages for each were less than one acre. Included are legumes for seed and timothy for seed and emergency hay crops.

(Continued) TABLE IX. 13 most profitable farms

Cats - and mixtures C 12 33.2 46.2 Cats silare B 2 6.6 4.6 Canning peas C 2 12.6 24.7 Barley C 2 10.7 26.0 Flax C 2 10.7 26.0 Flax C 2 10.7 26.0 Flax C 2 7.5 10.4 TOTAL SMALL GRAIN AND PEAS 70.6 70.6 70.6 Canning corn C 2 7.5 10.4 Corn silage B 6 14.4 8.1 Corn and cane fodder D 1 .2 6.0 Other cultivated crops 4 21.7 318.1 TOTAL CULTIVATED CROPS 51.8 71.8 Alfalfa hay A 6 34.7 1.8 Other legumes and mixtures B 10 102.2 1.1 Misc. hay and seed D 3 11.9 202.8 TOTAL HAY T45.8 7.9 10.50 11.4 <tr< th=""><th>Items</th><th>Adjust- ments</th><th>Crop rating</th><th>Number Growing</th><th>Acres</th><th>Average yield</th></tr<>	Items	Adjust- ments	Crop rating	Number Growing	Acres	Average yield
Canning peas Theat C 2 12.6 24.7 Flax C 2 10.7 26.0 Flax C 2 7.5 10.4 TOTAL SMALL GRAIN AND PEAS 70.6 Canning corn Corn grain and seed corn B/D 5 15.5 57.2 Soybeans - grain C C 2 2.7 5 57.2 Corn silage B 6 14.4 8.1 Corn and cane fodder D 1 2 6.0 Other cultivated crops 4 21.7 318.1 TOTAL CULTIVATED CROPS 51.3 Alfalfa hay A 6 34.7 1.8 Other legumes and mixtures B 10 102.2 1.1 Misc. hay and seed D 3 11.9 202.8 TOTAL HAY 11.9 202.8 TOTAL TILLABLE PASTURE 3.3 Government program B 1 7.9 16.50 TOTAL TILLABLE LAND 3 121.8 Non-tillable pasture 13 121.8 Non-tillable pasture 12 31.0 Farmstead 13 4.7 TOTAL ACRES IN FARM 502.6 Fer cent of land tillable 60.4	Oats - and mixtures			the set of		46.2
dheatC212.624.7BarleyC210.726.0FlaxC27.510.4TOTAL SMALL GRAIN AND FEAS70.670.6Canning corn $2/D$ 515.5Corn grain and seed corn $3/D$ 515.5Soybeans - grainC6Corn and cane fodderD12Corn and cane fodderD12Corn and cane fodderD12Other cultivated crops421.7318.1TOTAL CULTIVATED CROPS51.37.3Alfalfa hayA634.71.8Other legumes and mixturesB10102.21.1Misc. hay and seedD311.9202.8TOTAL HAYTATAS7.916.50Covernment programB17.9TOTAL TILLABLE PASTURED316.2TOTAL TILLABLE LAND305.6305.6Wild hay65.5Non-tillable pasture13121.8Timber1136.0Roads and waste1231.0Farmstead134.7TOTAL ACRES IN FARM502.6Per cent of land tillable60.4	Oats silage		В	2	6.6	4.6
BarleyC210.726.0FlaxC27.510.4TOTAL SMALL GRAIN AND PEAS70.510.4Conn grain and seed cornB/D515.5Soybeans - grainC0Corn silageB614.4Corn and cane fodderD12COther cultivated crops421.7TOTAL CULTIVATED CROPS311.9Alfalfa hayA6Other legumes and mixturesB10Misc. hay and seedD3TOTAL HAY7.9Alfalfa PastureAOther legume pastureD3TOTAL TILLABLE PASTURE3.0Government programB1TOTAL TILLABLE LAND303.6Wild hay65.5Non-tillable pasture13TABER11Stade and waste12Farmstead13Hober13Corn Lillable60.4	Canning peas					
FlaxC2 7.5 10.4TOTAL SMALL GRAIN AND PEAS 70.6 10.4Canning cornC 70.6 10.4Corn grain and seed corn B/D 515.557.2Soybeans - grainCC10.48.1Corn silageB614.48.1Corn and cane fodderD1.26.0Other cultivated crops421.7318.1TOTAL CULTIVATED CROPS5.135.6Alfalfa hayA634.7Other legumes and mixturesB10102.2TOTAL HAYD311.9Alfalfa PastureA0Other legume pastureB1Other legume pastureD3TOTAL TILLABLE PASTURE 37.9 Government programB1TOTAL TILLABLE LAND3Wild hay65.5Non-tillable pasture13TIMber11Sodas and waste12Farmstead13UTAL ACRES IN FARM502.6Per cent of land tillable60.4						
TOTAL SNALL GRAIN AND PEAS70.6Canning corn Soybeans - grainB/D515.557.2Corn silageB614.48.1Corn silageB614.48.1Corn and cane fodderD1.26.0Other cultivated crops421.7318.1TOTAL CULTIVATED CROPS51.851.8Alfalfa hayA634.71.8Other legumes and mixturesB10102.21.1Misc. hay and seedD311.9202.8TOTAL HAYTATAL HAY148.8749.8Alfalfa PastureA037.9TOTAL TILLABLE PASTURE81.4Other tillable pastureD316.2TOTAL TILLABLE PASTURE303.6303.6Vild hay65.5Non-tillable pasture13121.8Timber1136.0Reads and waste1231.0Farmstead134.7TOTAL ACRES IN FARM502.6Per cent of land tillable60.4	0					
Corn grain and seed corn B/D 515.557.2Soybeans - grainCC6Corn silageB614.48.1Corn ad cane fodderD1.26.0Other cultivated crops421.7318.1TOTAL CULTIVATED CROPS515.557.2Alfalfa hayA634.71.8Other legumes and mixturesB10102.21.1Misc. hay and seed'D311.9TOTAL HAYA634.71.8Alfalfa PastureA010.21.1Other legume pastureB1.4Other tillable pastureD31.6TOTAL TILLABLE PASTURES:350.6Sovernment programB17.9Fillable land idleD316.2Total TILLABLE LAND503.650.6Wild hay65.5Non-tillable pasture1231.0Farmstead134.7TOTAL ACRES IN FARM502.6Per cent of land tillable60.4		AND PEAS	С	2		10.4
Corn grain and seed corn B/D 515.557.2Soybeans - grainCC6Corn silageB614.48.1Corn ad cane fodderD1.26.0Other cultivated crops421.7318.1TOTAL CULTIVATED CROPS515.557.2Alfalfa hayA634.71.8Other legumes and mixturesB10102.21.1Misc. hay and seed'D311.9TOTAL HAYA634.71.8Alfalfa PastureA010.21.1Other legume pastureB1.4Other tillable pastureD31.6TOTAL TILLABLE PASTURES:350.6Sovernment programB17.9Fillable land idleD316.2Total TILLABLE LAND503.650.6Wild hay65.5Non-tillable pasture1231.0Farmstead134.7TOTAL ACRES IN FARM502.6Per cent of land tillable60.4	Canning corn					
Soybeans - grainCCorn silageB614.48.1Corn and cane fodderD1.26.0Other cultivated crops D 1.26.0TOTAL CULTIVATED CROPS 31.7 318.1Alfalfa hayA634.71.8Other legumes and mixturesB10102.21.1Misc. hay and seedD311.9202.8TOTAL HAYTOTAL HAYT45.8202.8Alfalfa PastureA037.9Other legume pastureB1.4Other legume pastureD37.9TOTAL TILLABLE PASTURES.3305.6305.6Sovernment programB17.9Fillable land idleD316.2TOTAL TILLABLE LAND13121.8Wild hay65.5Non-tillable pasture1331.0Farmstead134.7TOTAL ACRES IN FARM502.6Per cent of land tillable60.4		orn	B/D	5	15.5	57.2
Corn and cane fodderD1.26.0Other cultivated crops421.7318.1TOTAL CULTIVATED CROPS51.351.3Alfalfa hayA634.71.8Other legumes and mixturesB10102.21.1Misc. hay and seedD311.9202.8TOTAL HAYTOTAL HAY145.3202.8Alfalfa PastureA634.71.8Other legume pastureB1.4Other tillable pastureD37.9TOTAL TILLABLE PASTURE8.3316.2Government programB17.916.50Fillable land idleD316.2TOTAL TILLABLE LAND303.6303.6Wild hay65.5Non-tillable pasture13121.8Timber1331.0Roads and waste1231.0Farmstead134.7TOTAL ACRES IN FARM502.6Fer cent of land tillable60.4	Soybeans - grain		•	-	2 2	
Uther cultivated crops TOTAL CULTIVATED CROPS421.7 51.8318.1Alfalfa hay Other legumes and mixturesA634.7 1.81.8Other legumes and mixturesB10102.2 1.11.1Misc. hay and seed TOTAL HAYD311.9 145.8202.8Alfalfa Pasture Other legume pastureA-4-4Other legume pasture TOTAL HAYB1.4Other tillable pasture TOTAL TILLABLE PASTURED37.9 7.9Government program TOTAL TILLABLE LANDB17.9 8.3Wild hay Non-tillable pasture65.5 13121.8 11 36.0Wild hay Roads and waste12 1331.0 12 31.04.7 502.6Fer cent of land tillable60.4	Corn silage		В	6	14.4	8.1
TOTAL CULTIVATED CROPSJunctionAlfalfa hayA634.71.8Other legumes and mixturesB10102.21.1Misc. hay and seed'D311.9202.3TOTAL HAYId8.8148.8202.3Alfalfa PastureAA6Other legume pastureB1.4Other tillable pastureD37.9TOTAL TILLABLE PASTURE8.316.50Government programB17.9TOTAL TILLABLE LAND316.2Wild hay65.5Non-tillable pasture13121.8Timber1136.0Roads and waste1231.0Farmstead134.7TOTAL ACRES IN FARM502.6Per cent of land tillable60.4	Corn and cane fodder		D	1	.2	6.0
Alfalfa hay Other legumes and mixturesA634.71.8Misc. hay and seed TOTAL HAYD311.9202.8Misc. hay and seed TOTAL HAYD311.9202.8Alfalfa Pasture Other legume pastureA	Other cultivated crops	5		4	21.7	318.1
Other legumes and mixturesB10102.21.1Misc. hay and seed TOTAL HAYD311.9 202.8202.8Alfalfa PastureA148.8202.8Other legume pastureB1.4Other tillable pastureD37.9 8.3TOTAL TILLABLE PASTUREB1.4Government programB17.9 8.3Fillable land idle TOTAL TILLABLE LANDD316.2 303.6Wild hay Roads and waste65.5 13121.8 11Farmstead1231.0 4.731.0 502.6Fer cent of land tillable60.4	TOTAL CULTIVATED (CROPS			51.8	
Misc. hay and seed TOTAL HAYD311.9 143.3202.8Alfalfa Pasture Other legume pastureA B1.4 0 37.9 7.9 7.3Other tillable pasture TOTAL TILLABLE PASTURED37.9 7.3Government program TOTAL TILLABLE LANDB17.9 8.3Wild hay Non-tillable pasture Timber Roads and waste65.5 13 121.8 11 36.0 12 31.0 1316.2 303.6TOTAL ACRES IN FARM502.6Per cent of land tillable60.4	Alfalfa hay					1.8
TOTAL HAYATOTAL HAYIII.9Alfalfa PastureAOther legume pastureBOther tillable pastureDTOTAL TILLABLE PASTURE3Government programBTOTAL TILLABLE LANDDWild hay6Non-tillable pasture13Timber11Roads and waste12Farmstead13UTAL ACRES IN FARM502.6					102.2	
Alfalfa PastureAOther legome pastureB1.4Other tillable pastureD37.9TOTAL TILLABLE PASTUREB17.9Government programB17.9Fillable land idleD316.2TOTAL TILLABLE LAND0316.2Wild hay65.5Non-tillable pasture13121.8Timber1136.0Roads and waste1231.0Farmstead134.7TOTAL ACRES IN FARM502.6Per cent of land tillable60.4	Misc. hay and seed	1	D	3		202.8
Other legume pastureB1.4Other tillable pastureD37.9TOTAL TILLABLE PASTUREB17.9Government programB17.9Fillable land idleD316.2TOTAL TILLABLE LAND0316.2Wild hay65.5Non-tillable pasture13121.8Timber1136.0Roads and waste1231.0Farmstead134.7TOTAL ACRES IN FARM502.6Per cent of land tillable60.4	TOTAL HAY				148.8	
Other tillable pasture TOTAL TILLABLE PASTURED37.9 8.3Government programB17.9 8.316.50Fillable land idle TOTAL TILLABLE LANDD316.2 303.6Wild hay Non-tillable pasture65.5 13121.8 11Timber Roads and waste1231.0 134.7TOTAL ACRES IN FARM502.660.4	Alfalfa Pasture			2	,	
TOTAL TILLABLE PASTURE3.3Government programB17.916.50Fillable land idleD316.2TOTAL TILLABLE LAND05.5303.6Wild hay65.513121.8Non-tillable pasture13121.811Timber1136.01231.0Roads and waste1231.0134.7TOTAL ACRES IN FARM502.660.460.4						
Government programB17.916.50Fillable land idleD316.2TOTAL TILLABLE LAND0316.2Wild hay65.5Non-tillable pasture13121.8Timber1136.0Roads and waste1231.0Farmstead134.7TOTAL ACRES IN FARM502.6Per cent of land tillable60.4			D	3		
Fillable land idleD316.2TOTAL TILLABLE LAND0316.2Wild hay65.5Non-tillable pasture13121.8Timber1136.0Roads and waste1231.0Farmstead134.7TOTAL ACRES IN FARM502.6Per cent of land tillable60.4	TOTAL TILLABLE PAS	STURE			8.3	
Fillable land idleD316.2TOTAL TILLABLE LAND033Wild hay65.5Non-tillable pasture13121.8Timber1136.0Roads and waste1231.0Farmstead134.7TOTAL ACRES IN FARM502.6Per cent of land tillable60.4	Government program		В	l	7.9	16.50
Wild hay65.5Non-tillable pasture13121.8Timber1136.0Roads and waste1231.0Farmstead134.7TOTAL ACRES IN FARM502.6Per cent of land tillable60.4	Tillable land idle		D	3	16.2	
Non-tillable pasture13121.8Timber1136.0Roads and waste1231.0Farmstead134.7TOTAL ACRES IN FARM502.6Per cent of land tillable60.4	TOTAL TILLABLE LAN	٧D			303.6	
Timber1136.0Roads and waste1231.0Farmstead134.7TOTAL ACRES IN FARM502.6Per cent of land tillable60.4	Wild hay					
Roads and waste1231.0Farmstead134.7TOTAL ACRES IN FARM502.6Per cent of land tillable60.4	Non-tillable pasture					
Farmstead134.7TOTAL ACRES IN FARM502.6Per cent of land tillable60.4	Timber					
TOTAL ACRES IN FARM502.6Per cent of land tillable60.4						
Per cent of land tillable 60.4	Farmstead			13	4.7	
	TOTAL ACRES IN FAI	RW			502.6	
	Per cent of land tills	able			60.4	
					40.2	

(Continued) TABLE IX. 13 least profitable farms

	Adjust-	Crop	Number		Average
Items	ments	rating		Acres	yield
Oats - and mixtures		C	9	23.1	34.7
Oats silage		В	2	3.3	3.3
Canning peas		2	0		00.0
Wheat		С	2	1.8	20.0
Barley		С	2 2	2.9	13.2
Flax TOTAL SMALL GRAIN	AND PEAS	С	2	4.8	5.0
Canning corn			٣	0.0	7 7 7
Corn grain and seed co	rn	B/D	5 1	8.2 1.2	51.1 40.6
Soybeans - grain		C B	1 9	⊥•2 27•3	15.5
Corn silage Corn and cane fodder		D	7	4(•)	·)•)
Other cultivated crops		Ċ,	1	.8	200.0
TOTAL CULTIVATED C	ROPS		Ŧ	37.5	
Alfalfa hay		A	9	43.8	1.6
Other legumes and mixt	ures	В	11	53.3	1.5
Misc. hay and seed		D	4	6.4	19.8
TOTAL HAY				103.5	
Alfalfa Pasture		Â			
Other legume pasture		В	3 5	20.7	
Other tillable pasture		D	5	12.3	
TOTAL TILLABLE PAS	TURE			33.0	
Government program		В	4	11.0	20.31
Tillable land idle		D	2	6.7	
TOTAL TILLABLE LAN	D			227.6	
Wild hay			4	11.9	
Non-tillable pasture			12	67.1	
Timber			11	105.0	
Roads and waste			12	28.2	
Farmstead			13	6.3	
TOTAL ACRES IN FAR	M			446.1	
Per cent of land tilla	ble			51.0	
Per cent in high retur				45.2	
0	-				

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-17-

nin waar ni kulaan kulaan maaa yayaan yaan maana kula ji kulaan kula maya kula maala kula kula kula kula kula k

TOTAL FEED COSTS AND RETURNS FROM YOUR LIVESTOCK EMTERPRISES

The total "return over feed costs" for each class of livestock is shown in Table X. 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 lbs". 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 p. 6. 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 X. TOTAL FEED COSTS AND RETURNS FROM YOUR LIVESTOCK ENTERPRISES, 1964

		dual purpose		Beef
	Cows	Other	All	Breeding
Total returns				
Total feed cost				
Total return over feed				ter ver ander op in det en der ver
	Hogs	Sheep	Chickens	
Total returns				
Total feed cost				
Total return over feed		10-10-10-10-10-10-10-10-10-10-10-10-10-1		

Feed is the largest single item of cost for all classes of livestock. However, the proportion of the total cost represented by feed varies between classes of livestock. Feed makes up approximately 45 per cent of the total costs of maintaining dairy cattle and poultry, 50 per cent for 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.

HOGS

The return over feed cost per cwt. of hogs produced varied from \$2.74 for those farmers in the lower one-fourth in feeding efficiency to a return of \$10.35 for those in the highest one-fourth. Responsible factors affecting return over feed were:

- 1. Quantity of feed required to produce 100 pounds of pork.
- 2. Price received.
- 3. Mumber of pigs born per litter
- 4. Number of pigs weaned per litter.

Adjustments		100	6 forms For in return a- boys feed
nced - 1bs.			
	. 408	151	614
			72
		78	$\frac{50}{736}$
			16
S	<i>2</i>)	20	10
produced:	\$12.00	10 43	\$ 17.37
rage « miss./			.17
	\$14.10	\$ TO.52	\$ 17.5A
	\$20.46	. 20.93	\$ 20.28
	\$ 6.36	\$ 10.35	\$ 2.74
)	\$145.11	\$197.83	\$115.62
, hogs sold	\$19.85	\$ 22.21	§ 18.61
bwed	20	21	19
r litter	8.9	9 . 7	8.0 · 7.1
ber iltter	(•••	0.)	
_	12,709	11,768	12,315
	Adjustments heed - 1bs. s produced: rage & misc.) er cwt. roduced PER CWT. PRODUCED) hogs sold pwed r litter per litter D	of 10 Adjustments farms aced - 1bs. 408 104 61 573 s 23 produced: rage & mise.) \$13.99 $\frac{11}{$14.10}$ er cwt. roduced \$20.46 PER CWT. PRODUCED \$6.36 \$145.11 hogs sold \$19.85 20 childen \$20.46 per litter \$8.9 7.8	AdjustmentsAverage of 10high in return a- bove foodaced - lbs. 408 151 104 158 61 78 573 337 s 23 30 produced: rage & misc.) $produced:$ rage & misc.) $$13.99$ $$13.99$ $$10.43$ $.11$ $.15$ $$174.16$ $$10.57$ er cwt. roduced $$20.46$ $$20.46$ $$20.93$ PER CWT. PRODUCED $$6.36$ $$145.11$ $$197.83$. hogs sold $$19.85$ $$22.21$ $$20$ 21 $$20$ 21 $$11ter$ 8.9 $$9.7$ $$20$ 21 $$20$ 8.5

TABLE XT. FEED COSTS AND RETURNS FROM HCGS. 1964

This table includes animals sold as feeder pigs. This accounts for the average price of \$19.85 per cwt.

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Items	Adjustmenta	Average ^f 38 farms	highest ret. over feed cost	
Pounds of butterfat per cow		360 9,621	402 10,892	30 8 8,230
Pounds of milk per cow Per cent of butterfat in milk		3.7	3.7	3.7
Price per pound of butterfat sol Price per hundred pounds milk so	d ld ¢	96.4 2.79	102.6 \$ 2.63	88.8 \$ 3.14
Feed per cow - pounds: Corn Small grain Commercial feeds		1,289 1,089 1,059	967 1,448 1,274	1,609 631 * 682 ~
Legume hay Other hay		3,065 2,677	2,757 3,222	3,860 1,115
TOTAL CONCENTRATES TOTAL DRY ROUGHAGE TOTAL SILACE		3,437 5,742 8,200	3,689 5,979 5,252	2,922 4,975 9,832
Feed cost per cow: Concentrates Roughages Pasture TOTAL FEED COSTS		\$ 81.71 74.50 6.43 \$ 162.64	\$ 84.00 66.97 <u>6.38</u> \$157.35	\$ 68.56 76.02 <u>7.67</u> \$152.25
Value of produce per cow: Butterfat sales Dairy products used in home Milk fed to livestock Net increases in value of cow TOTAL VALUE PRODUCED	15	\$ 332.24 5.04 7.31 2.23- \$ 342.36	\$401.51 5.98 3.89 2.32 \$413.70	\$253.48 4.62 10.67 <u>5.09</u> - \$263.68
RETURN ABOVE FEED COST PER COW		\$ 179.72	\$256.35	\$111.43
RETURNS FOR \$100 OF FEED		\$ 210.50	\$262 . 9)	\$173.10
Feed cost per 1b. of butterfat	(¢)	45.2	39.1	49.4
NUMBER OF CONS		24.7	22.9	29.8

7.1

TABLE XIII. FEED COS	TS AND RETURNS FROM OT			1964
tems	Adjustments	Average of 39 farms	10 farms highest ret.over feed cost	10 farms lowest
. UCHD				
'eed per head - pounds	3:	12	12	12
Concentrates		2541	2010	2893
Hay and fodder			4138	6457
Silage		6636	136	337
Whole milk		221		221
Feed cost per head:			t 70.00	÷ ()7
Concentrates		\$ 6.37	\$ 12.93	\$ 6.37
Roughages		27.86	20.97	31.79
Milk		5.63	3.06	6.67
Pasture		3.21	4.22	3.12
		\$ 43.07	\$ \$ 41.18	\$ 47.95
TOTAL FEED COSTS I	PER HEAD	φ 4)•0 /		
Net increase in value	of other cattle	\$ 49.97	\$ 68.01	\$ 27.64
	t and	\$ 6.90	\$ 26.83	\$ 20.31-
Returns above feed co:	st per neau			
Returns above feed co Returns for \$100 of fe		\$116.02	\$165.15	\$ 57.64
	eed		\$165 . 15 29 . 0	\$ 57.64 \$ 36.3
Returns for \$100 of fa	eed er cattle	\$116.02 29.7	29.0	\$ 36.3
Returns for \$100 of fa	eed	\$116.02 29.7	29.0	\$ 36.3 LE, 1964
Returns for \$100 of fa	eed er cattle	\$116.02 29.7 IRY & UUAL F	29.0 PURPOSE CATT 10 farm	\$ 36.3 LE, 1964 IS 10 far
Returns for \$100 of fa	eed er cattle	\$116.02 29.7 IRY & DUAL F Avers	29.0 PURPOST CATT 10 farm age highest	\$ 36.3 LE, 1964 IS 10 far Lowest
Returns for \$100 of fa Number of head of oth TABLE XIV. FEED COSTS	eed er cattle & RETURNS FROM ALL DA	\$116.02 29.7 IRY & UUAL F	29.0 PURPOSE CATT 10 farm age highest 39 ret.ove	\$ 36.3 LE, 1964 IS 10 far lowest er ret.ov
Returns for \$100 of fa	eed er cattle	\$116.02 29.7 IRY & DUAL F Avers of 3	29.0 PURPOSE CATT 10 farm age highest 39 ret.ove	\$ 36.3 TLE, 1964 IS 10 far lowest er ret.ov
Returns for \$100 of fa Number of head of oth TABLE XIV. FEED COSTS Items Food per animal unit	eed er cattle & RETURNS FROM ALL DA Adjustments	\$116.02 29.7 IRY & UUAL F Avers of C farms	29.0 PURPOSE CATT 10 farm age highest 39 ret.ove 5 feed co	\$ 36.3 LE, 1964 IS 10 far lowest ar ret.ov ost feed c
Returns for \$100 of for Number of head of oth TABLE XIV. FEED COSTS Items	eed er cattle & RETURNS FROM ALL DA Adjustments	\$116.02 29.7 IRY & DUAL F Avers of 3 farms 2473	29.0 PURPOSE CATT 10 farm age highest 39 ret.ove 5 feed co 2647	\$ 36.3 LE, 1964 IS 10 far Lowest or ret.ov Dist feed c 2108
Returns for \$100 of for Number of head of oth TABLE XIV. FEED COSTS Items Food per animal unit Concentrates	eed er cattle & RETURNS FROM ALL DA Adjustments	\$116.02 29.7 IRY & DUAL F Avers of 3 farms 2473 5471	29.0 PURPOSE CATT 10 farm age highest 39 ret.ove 5 feed co 2647 5209	\$ 36.3 LE, 1964 IS 10 far lowest er ret.ov ost feed c 2108 5340
Returns for \$100 of for Number of head of oth TABLE XIV. FEED COSTS Items Food per animal unit Concentrates Hay and fodder Silage	eed er cattle & RETURNS FROM ALL DA Adjustments - pounds:	\$116.02 29.7 IRY & DUAL F Avers of 3 farms 2473 5471 6964	29.0 PURPOSE CATT 10 farm age highest 39 ret.ove 5 feed co 2647 5209 4441	\$ 36.3 TLE, 1964 IS 10 far lowest or ret.ov ost feed c 2108 5340 8420
Returns for \$100 of for Number of head of oth TABLE XIV. FEED COSTS Items Food per animal unit Concentrates	eed er cattle & RETURNS FROM ALL DA Adjustments - pounds:	\$116.02 29.7 IRY & DUAL F Avers of 3 farms 2473 5471	29.0 PURPOSE CATT 10 farm age highest 39 ret.ove 5 feed co 2647 5209 4441	\$ 36.3 LE, 1964 IS 10 far. lowest or ret.ov ost feed c 2108 5340
Returns for \$100 of for Number of head of oth TABLE XIV. FEED COSTS Items Food per animal unit Concentrates Hay and fodder Silage TOTAL FEED COSTS	eed er cattle & RETURNS FROM ALL DA Adjustments - pounds: PER ANIMAL UNIT	\$116.02 29.7 IRY & UUAL F Avera of 3 farms 2473 5471 6964 \$137.10	29.0 PURPOSE CATT 10 farm age highest 39 ret.ove 5 feed cc 2647 5209 4441 \$127.11	\$ 36.3 TLE, 1964 15 10 far 10west
Returns for \$100 of for Number of head of oth TABLE XIV. FEED COSTS Items Food per animal unit Concentrates Hay and fodder Silage TOTAL FEED COSTS Value of produce per	eed er cattle & RETURNS FROM ALL DA Adjustments - pounds: PER ANIMAL UNIT	\$116.02 29.7 IRY & UUAL F Avera of 3 farms 2473 5471 6964 \$137.10 \$211.28	29.0 PURPOSE CATT 10 farm age highest 39 ret.ove 5 feed cc 2647 5209 4441 \$127.11 \$251.20	\$ 36.3 LE, 1964 IS 10 far lowest or ret.ov ost feed c 2108 5340 8420 \$132.24 \$151.44
Returns for \$100 of for Number of head of oth TABLE XIV. FEED COSTS Items Food per animal unit Concentrates Hay and fodder Silage TOTAL FEED COSTS Value of produce per Dairy products	eed er cattle & RETURNS FROM ALL DA Adjustments - pounds: PER ANIMAL UNIT animal unit:	\$116.02 29.7 IRY & UUAL F Avera of 3 farms 2473 5471 6964 \$137.10 \$211.28	29.0 PURPOSE CATT 10 farm age highest 39 ret.ove 5 feed cc 2647 5209 4441 \$127.11 \$251.20	\$ 36.3 LE, 1964 IS 10 far lowest ost feed c 2108 5340 8420 \$132.24 \$151.44 20.09
Returns for \$100 of for Number of head of oth TABLE XIV. FEED COSTS Items Food per animal unit Concentrates Hay and fodder Silage TOTAL FEED COSTS Value of produce per Dairy products	eed er cattle <u>& RETURMS FROM ALL DA</u> <u>Adjustments</u> - pounds: PER ANIMAL UNIT animal unit: Lue of dairy cattle	\$116.02 29.7 IRY & UUAL F Avera of 3 farms 2473 5471 6964 \$137.10 \$211.28	29.0 PURPOSE CATT 10 farm age highest 39 ret.ove 5 feed cc 2647 5209 4441 \$127.11	\$ 36.3 LE, 1964 IS 10 far. Iowest r ret.ov ost feed c 2108 5340 8420 \$132.24 \$151.44
Returns for \$100 of fa Number of head of oth TABLE XIV. FEED COSTS Items Food per animal unit Concentrates Hay and fodder Silage TOTAL FEED COSTS Value of produce per Dairy products Net increase in val TOTAL VALUE PRODU	eed er cattle & RETURNS FROM ALL DA Adjustments - pounds: PER ANIMAL UNIT animal unit: Lue of dairy cattle LCED	\$116.02 29.7 IRY & UUAL F Avera of 3 farms 2473 5471 6964 \$137.10 \$211.28	29.0 PURPOSE CATT 10 farm age highest 39 ret.ove 5 feed cc 2647 5209 4441 \$127.11 \$251.20 54.12 \$305.32	\$ 36.3 LE, 1964 15 10 far lowest ar ret.ov 2108 5340 8420 \$132.24 \$151.44 20.09 \$171.53
Returns for \$100 of for Number of head of oth TABLE XIV. FEED COSTS Items Food per animal unit Concentrates Hay and fodder Silage TOTAL FEED COSTS Value of produce per Dairy products Net increase in val	eed er cattle <u>& RETURMS FROM ALL DA</u> <u>Adjustments</u> - pounds: PER ANIMAL UNIT animal unit: Lue of dairy cattle JCED st per unit	\$116.02 29.7 IRY & UUAL F Avers of 3 farms 2473 5471 6964 \$137.10 \$211.28 36.79 \$248.07	29.0 PURPOSE CATT 10 farm age highest 39 ret.ove 5 feed cc 2647 5209 4441 \$127.11 \$251.20 54.12 \$305.32 \$178.21	\$ 36.3 LE, 1964 IS 10 far lowest ar ret.ov st faed c 2108 5340 8420 \$132.24 \$151.44 20.09 \$171.53 \$ 39.29

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TABLE XV. FEED COST AND RETURNS F	adjustments	Average of ll farms		5 farms lowest in B.F. per cow	-
Beef Breeding Herd:					
Feeds per animal unit - pounds: Concentratos Legume bay Silage Other hay		253 1,341 4,275 3,252	359 1,455 3,388 3,167	53 1,124 5,937 3,404	
Feed cost per animal unit: Concentrates Roughages Pasture TOTAL FEED COSTS		\$ 6.00 50.19 11.55 \$ 67.74	<pre>\$ 7.81 45.83 11.75 \$ 65.39</pre>	58.31 11.16	
Net increase in value of animals		\$ 55-95	\$ 72.84	\$ 23.97	
Returns Above Feed Cost Per Anima	al Unit	11.79-	\$ 7.45	\$ 48.08-	
Returns for \$100 of Feed	:	\$ 82.57	\$111.38	\$ 33.27	
Number of cows and bulls Number of animal units in the bea	rd	82 . 8 70 . 9	97.8 85.0	64.8 54.1	
Pounds of beef produced		25,660	38,908	9,763	
Feeding Cattle: Feeds per owt. boef produced - 10 Corn Small grain Commercial feeds Legume hay Other hay and fodder	bs.	Average 4 farms 28 164 33 150 281	of <u>2 farm</u> 197 3 161 224	s 2 farms 148 16 163 100 532	
Total Concentrates Total Hay and Fodder Silage		255 431 105	200 385	327 632 563	
Feed cost per cwt, beef produced Concentrates Roughages Pasture TOTAL FEED COSTS	:	\$ 4.78 4.09 <u>.64</u> \$ <u>9.51</u>	\$ 3.74 3.48 <u>.73</u> \$ 7.95	\$ 9.29 6.76 <u>.24</u> \$ 16.29	
Net increase in value of feeders Returns Above Feed Cost Per Cwt. Return for \$100 of Feed	Beef Pro.	18.76 9.25 \$197.15		12.79 3.50- \$ 78.57	
Price paid cwt beef bought Price received for beef sold Number of animal units Pounds of beef produced		\$ 17.87 31.7 21,447	\$ 19.19 51.3 34,828	\$ 16.55 12.2 8,067	

TABLE XV. FEED COST AND RETURNS FROM BEEF CATTLE, 1964

Items	Adjustments	Average of 6 farms	3 highest	3 lowest
Feeds per ewe (lbs.): Concentrates Legume hay Other hay Silage		72 299 282 384	83 68 773 68	27 293 228 511
Feed cost per ewe: Concentrates Roughages Pasture TOTAL FEED COSTS		$ 1.52 \\ 6.26 \\ 2.68 \\ 10.46 $	$ \begin{array}{c} \$ & 1.56 \\ & 6.65 \\ & 2.42 \\ \$ & 10.63 \end{array} $	 € .73 6.43 2.60 € 9.76
Value of produce per head Wool Net increase in value o TOTAL VALUE PRODUCED		\$ 5.66 <u>8.46</u> \$ 14.12	\$ 4.55 15.32 \$ 19.87	
Returns Above Feed Cost H	Pe r Head	\$ 3.66	\$ 9.24	\$ 1.11
Returns For \$100 of Feed		\$134.97	\$186.81	\$111.36
Price per cwt. of lambs : Price per lb. wool sold Pounds of wool per sheep	(cents)	\$ 19.32 .66 7.4	\$ 22.30 .63 7.2	\$ 18.42 .65 9.0
Number of ewes kept for Per cent lamb crop Per cent death loss		35.2 118.2 29.6	42.3 128.3 16.9	42.7 129.0 36.3
Average number of ewes		36.9	42.2	49.6

TABLE XVI. FEYD COSTS AND RETURNS FROM A FARM FLOCK OF SHEEP, 1964

* Wool return including incentive payment.

SHEEP

LABOR EARNINGS CORPELATED WITH EXCELLED FACTORS

The thermometer chart on page 14 shows seven as for management factors that influence farm earnings within a given year. These beyon technology

- 1. Crop yields
- 2. Choice of crops
- 3. Returns from livestock
- 4. Amount of livestock
- 5. Size of business
- 6. Work units per worker
- 7. Control over expenses.

The combined effect of these management factors as related to farm earnings is shown below. Attention is called to the fact that farmers exceeding the average in most of the seven management factors are also those reporting the highest labor earnings.

TABLE XVII

No. of factors	No.		1		t		t			
in which farmers excelled	of farms	0	1	1000	٢	2000	t	3000		i t
0 or 1	13	T							\$ 131	
2 or 3	22				111	-			\$ 1894	
4 or 5	20		117			T			\$ 1857	
6 or 7	2				<u></u>		<u> </u>	7_7_	\$ 3174	
	1									

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Items	1959	1960	1961	1962	1963	
FARM RECEIPTS		- ·				المحمد
Dairy cattle	Ç1.322	\$1077	\$ 977	\$1173	\$1162	4100
Dairy products	5106	4961	506.8	4794	5201	603
Beef cattle (incl. feeders)	65	135	79	1060	718	94
Hogs	941	1117	1673	1313	739	51
Sheep and wool	123	120	84	70	100	9
Horses	8	5		7	8	-
Poultry (incl. turkeys	12	6	3	5	6	2
-	42	62	37	32	29	24
Eggs	240	246	174	181	434	2
Corn	121	136	62	109	140	41
Small grain	232	219	180	259		84
Other crops				145		
Machine equip. sold&gas tax refund	156	155	169			
Income from work off the farm	262	246	202	261	203	55
Miscellaneous	206	166				59 400 57
(l) Total Farm Sales	<u>\$3836</u>				\$9456	- 14 1 1 2 4 E C
(2) Increase in farm capital	682	1560	973	1957	2264	
(2) Remiler living from the form	348	445	425	341	366	35
 (4) Total Farm Receipts (1)+(2)+(3))\$9866	\$10656	\$10397	\$12095	#12086	4LZ17
FARM EXPENSE Dairy cattle bought	\$ 283	\$ 109	\$ 101	\$ 138	\$ 271	\$ 6
Beef cattle bought (incl. feeders)	v 20) 101	15	112	708	390	16
		40	45	40	24	2
Hogs bought	35				18	~
Sheep bought (incl. feeders)	8	58	3	16	10	_
Horses bought	2	1			5	1
Poultry bought	10	8	6	6		
Miscellaneous livestock	229	260	241	285	285	
Feed bought	1305	1225	1468	1678		
Fertilizers	211	267	274	334	297	46
Other crop expenses	304	218	253	308		
Custom work hired	526	522	557	582	529	
Gas-oil-grease bought (farm share)	548	607	585	606	673	67
Repair of mechanical power (f. sha	re)292	286	308	308	328	- 38
Repair & upkeep of real estate	104	47	126	 98	77	
Densin & unknow of granden mech	163	195	180	195	195	
Repair & upkeep of crop&gen.mach.			72	64		
Repair & upkcep of livestock equip	• 57	55	348		/	
Wages of hired labor	265				/	
Electricity expense (f. share)	208		217			
Real estate & pors. property taxes	280		315		-	
General farm expense	138		181	A		
(5) Total Cash Operating Expense	\$ <u>5069</u>					
(6) Cap. purch. mech. power bought	· 501					
(7) Crop & general machinery bough	it 494	684	454	, 732		
(8) Livestock equipment bought	67	134	112	223	407	
(9) New real estate improvements	461					
$(\vec{r}) $	\$6592			-		5 \$82
(10) Total Farm Purchases (5)-(9)		φ0 /0 /	+1 J J C			
(11) Decrease in farm capital	7701) 1303	- 3 145() 17
(12) Interest on farm capital	1104					
(13) Unpaid family labor	413					-
(T) oupara i amero				× /1/	1 LU	-1
(14) Board furnished hired labor						
 (14) Board furnished hired labor (15) Total Farm Expense (10)-(14) (16) Labor Earnings (4)-(15) 	37 \$8146 \$1720	\$8309	\$8768	3 \$1044	5 \$1021	2 \$105

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AVERAGE PRICES USED FOR FEED, 1964

These averages were based on prices received by Minnesota Farmers for 1964. Information was obtained from the Minnesota Crop and Livestock Reporting Service, USDA, 560 State Office Building, St. Paul, Minnesota. (In some cases, adjustments were made to conform to N.E. Minnesota.)

	UNIT	PRICE
Ear Corn	bu.	\$ 1.05
Cats	bu.	.60
Barley	bu.	.85
Alfalfa hay	Τ.	20.00
Red clover	T.	18.00
Alsike clover	T.	18.07
Pea hay	T.	18.00
Clover - Timothy	T.	16.00
Wild hay	Τ.	12.00
Oat hay	Τ.	15.00
Reed Canary	T.	12.00
Corn silage	Τ.	6.00
Grass silage	Τ.	6.00
Green chop	Τ.	5.00
Pasture		<pre>1.75/head/no. (dairy, beef cow) 1.00/head/no. (young cattle) .20/head/no.(hogs l0/head/no.(pigs)</pre>

.10/head/no.(pigs .25/head/no.(ewes

.12/head/no.(lamb

NET INCOME PER ACRE FROM - RETURN TO LAND AND LABOR CROPS

The following summary is an attempt to show the net return per acre from the more important crops grown in this area. The costs charged against each crop are based on: (1) Power and machinery costs and (2) other costs as listed in the account book such as fortilzer, seed, taxes, etc. Power and machinery costs include such items as gas, oil, repairs, custom work hired and depreciation. Since it is necessary to have cooperating farmers "keyout" each of these items in the account book and assign them to each crop, only these books appear in the following table. Twenty-two farms are included in this report.

No. Farms	XVIII. COSTS A	Yield per Acre	Price	Gross Inc.per Acre	Power Mach.Exp. per Acre	Other Expense Per Acre	Total Expense Per Acro	Net por Acre
12	Corn	37.1	\$1.05	\$38.96	\$4.87	\$16.91	\$21.80	\$17.16
	Your farm			-		and the second		
17	Oats	33•3	\$.60	\$19.98	\$3.38	\$ 6.52	\$ 9 .97	\$10.08
	Your farm		an a					
17	Corn silage	4.1	\$6.00	\$24.60	\$6.65	\$13.65	\$20.30	\$ 4.30
	Your farm		والمواد المنافعة المراقي عنها المراقع	and the second secon				And the second
15	Alfalfa hay	1.6	\$20.00	\$32.00	\$3.81	\$ 6.94	\$10.75	\$21.25
	Your farm			analas a substant timi timi				الله الا اليكون معالية المعرب في اليوني.
10	Other hay	1.3	\$16.00	\$20,30	\$2.35	\$ 5.55	\$ 7.90	\$12.90
	Your farm	and the second second		ang taggat make si pangananan				
9	Tillable Pasture			\$14.47			\$ 2.15	\$12.32
	Your farm			and the second secon				ang kanan dinisi dikaningki kan
	Gov't. Programs			\$22,28			\$ 1.37	\$20 . 91
	Your farm						and the second	

The last page in this report, page 28. "Returns From Crops and Livestock", is a form used to indicate returns per acre and per hour for crops raised and then returns per hour as they are fed through various kinds of livestock. A supplementary report will be turned out this summer to show in detail the returns from various crops raised and then returns as they are fed through livestock. Again only "keyed-out" books will be included.

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RETURNS FROM CROPS AND LIVESTOCK

ENTERPRISE

Crops Grown and Raturns from Crops

Crop	Amount	Yield	Acres	Net	Hours	Acres/U.
Corn						
Oats		••••••••••••••••••••••••••••••••••••••	1			
Barley						
Corn Silage						
Oats Silage						
Hay, Legume				1		
Hay, Other					<u> </u>	
Pasture and Green Chop					1	
an a	1	1				Total
Total	}		(A)	(B)	(C)	Avg. ABC
Net Per Acre (B:A)				1	Avg.Net,	/AC
Net/Hour (B+C)		/,			Avg.Net,	/hr·
1000/11002 (0500)		*****	****		James and a second	

Kind of Livestock	mate 7	Size of Enterp Per	Average/Unit
Ltem	Total	rer.	
Value Produced			
Feed Cost			
Miscl. Costs (P, 20-21)			
Repair, Upkeep (P. 43&45)			
Depr. Bldgs. & Equipment			
Real and Pers. Prop. Taxes			
Expenses (P. 38)			
Electricity (P. 47)			
Total Costs			
Returns - Livestock	1		
Labor - Livestock			
Return/Hour Livestock	1		

Peturns:	Grops	+	Livestock	(The	Complete	Enterprise)

Returns: Crops + Livestock	(The Comple	ete Enterprise)	· · · · · · · · · · · · · · · · · · ·
Item	Total	Per/Acre	Average/Unit
Net-crops + Livestock			
Labor-crop + Livestock			
Return/hour			
% of Tetal Work Load	1		1