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UNIVERSITY OF MINNESOTA Department of Agriculture

and

UNITED STATES DEPARTMENT OF AGRICULTURE

Bureau of Agricultural Economics

and

Farm Security Administration Cooperating

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Report

of the

FARM MANAGEMENT SERVICE

for

FARMER-BORROWERS

of

Rural Rehabilitation Division of The Farm Security Administration

For the Year 1936

(For tenant-operated farms with crop-share and cash leases -- Northern Minnesota)

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University Farm
St. Paul, Minnesota
October 1937

Report of the Farm Management Service for Farmer-Borrowers of the Rural Rehabilitation Division

(For tenant-operated farms with crop-share and cash leases--Northern Minnesota)

Prepared by W. P. Ranney and G. A. Pond

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INTRODUCTION

The analysis of the records and preparation of this report were under the direction of W. P. Ranney and G. A. Pond of the Division of Agricultural Economics, University of Minnesota. The records had been kept and closed under the general supervision of S. H. Rutford, former state director, and Lloyd I. Nelson, present state director, and the state personnel of the Rural Rehabilitation Division of the Farm Security Administration, with counsel and aid from S. B. Cleland and J. B. McNulty of the Division of Agricultural Extension, University of Minnesota. The above parties were aided in the closing and summarization of the records by the Division of Rural Sociology of the University of Minnesota and the Bureau of Agricultural Economics, United States Department of Agriculture.

The Tural Rehabilitation Division has made loans to several thousand farmers in Minnesota, who, on account of the recent depression and droughts, were having difficulty in obtaining and maintaining credit from other sources. Many of the farmers would not have been able to continue farming without the credit secured from Rural Rehabilitation. The latter organization has required their borrowers to keep a system of farm records as a means of helping them to increase their incomes and control their expenses in order that their debts may be liquidated. To further this purpose the Farm Security Administration arranged to have these records summarized and analyzed in order that they may be made more useful to these farmer-borrowers. The several divisions of the University of Minnesota mentioned previously and the Bureau of Agricultural Economics at Washington have cooperated in the summarization, analysis, and interpretation of these records, realizing that this is an opportunity to aid directly a large group of worthy farmers, and to obtain valuable information for research, teaching and extension purposes, thereby being enabled to serve many farmers in this state.

Note: Completion of this project was made possible by workers supplied on Works Progress Administration Project Number 4841, Sub-Project Number 420B, and Federal Students' Work Project Number 41-100.

Sponsor: University of Minnesota.

The records included in this report were kept by tenant-operators who gave a share of the crop as rent and in most cases paid some cash rent in addition. These farms were located in the northern part of Minnesota in the following counties:

No. of		No. of		No. of
County Farms	County	Farms	County	Farms
Aitkin 2	Itasca	3	Otter Tail	26
Anoka 1	Kanabec	8	Pennington	2
Becker 12	Kittson	2	Pine	1
Beltrami 3	Koochiching	5	Polk	10
Cass 6	Lake of the Wo	ods 2	Red Lake	5
Clay 10	Mahnomen	5	Roseau	1
Clearwater 11	Marshall	3	Sherburne	3
Crow Wing 2	Mille Lacs	6	Todd	4
Douglas 8	Morri son	ô	Wadena	8
Hubbard 5	Norman	1	Wilkin	10

Although the predominant type of farming is not the same in all of the above counties, the system of farming did not vary greatly among the farms included in this report. Every farmer sold some dairy products, mostly in the form of cream for manufacture into butter. A few farms had special whole milk or retail cream markets. On nearly every farm there were, besides the dairy cows, young dairy cattle, and a few hogs and chickens, and on some farms there were sheep. The proportion of total receipts that came from sales of livestock, and livestock products, varied from farm to farm. As all of these farms were affected by the severe drought of 1936, receipts from the sale of crops were much less than normal and purchases of feed above normal.

About 2,100 records were submitted by the borrowers of the Rural Rehabilitation Division in Minnesota. Of this number, 862 are included in the reports similar to this one.* The other records were either too incomplete or did not represent a full year's record because the loans were obtained late in the year 1936. Only full twelve months' records are included in these reports. The majority were started March 1, 1936, but many started February first and April first, and a few on January first.

There are three phases of the analysis on the following pages: (1) The farm receipts, expenses, and earnings (only the operator's share is included); (2) The non-farm income and household and personal expenses; (3) The farmer's net worth and financial progress. All are somewhat interrelated, and dependent on each other. The data show that in all of these matters there are wide differences among farms. For example, the average operator's labor earnings for the farms in this report are \$365. The lowest is \$-1224, and the highest is \$2478. There is a similar range for household and personal expenses, for net worth, and for financial progress (change in net worth).

The data have been compiled so as to show the average figures for all of the 171 farmers included in this report, the average of 34 farmers highest in operator's labor earnings, and the average of 34 farmers lowest in operator's labor earnings. Each farmer included herein received a report with his own figures copied in the "your farm" column, and his estimated budget also copied. He can compare his own figures with the averages of all farms and the most successful and least successful groups.

^{*}See Footnote, page 11.

SUMMARY OF FARM EARNINGS

	budget A-RR-14)	farm	of 171 farms		34 Least profit. farms
ash Farm Expenses					
Operating					
Tractor			\$ 12	\$ 12	\$ 24
Auto (farm share) and truck			4 9	5 0	4 5
General machinery and equipmen	.t		25	27	29
Machinery and horse work hired			0	0	O
Hired labor			25	37	2 6
Feed for livestock			127	116	130
Veterinary			1	_	2
Other expense for livestock			8	10	3
Seed.			16	13	15
Fertilizer			0	0	0
Threshing			9	12	10
Twine			4	5	4
Other crop expense			8	10	8
Cash rent			51	5 6	6 7
Taxes			5	5	5
*			4	6	5
Insurance			6	9	1
Interest			5	5	11
General farm			2	5	7.7
Money loaned out*					
Total cash farm oper. exp.			\$358	\$378	\$390
Capital Goods				*	
Tractor			\$ 1	\$ 0	\$ l
Auto (farm share) and truck			16	20	15
General machinery and equipmen	2t		71	116	7 8
Horses			68	69	56
Cows	**************************************	 _	73	116	63
Other cattle		 -	6	9	1
Hogs			9	10	$\frac{\tilde{4}}{4}$
Sheep			3	10	8
·-			10	16	13
Poultry	\- 				
Payments on debts (Rur. Rehab.	· /		94	112	101
Payments on debts (other)			81	<u>65</u>	78
Total cash farm capital paymen	nts		\$432	\$534	\$416
1) Total cash farm expenses			\$7 90	\$912	\$806
2) Decrease in net farm capital			-	-	113
3) Board for hired labor		 	12	16	14
4) Total farm expenses (to page 4)	•	*******	\$802	\$928	\$933
actual expenses were of farm budget		No. of Farms:	13 7 ×	26 ^x	28 ^x
(Form RA-RR-14)	_		3 72 EA	000	7777 A.A
Total cash farm operating expenses Total cash farm capital payments	3		175% 92%	89 % 88 %	3 74% 123 %

^{*}Includes amount to offset credit sales, and amount of premiums paid on insurance for future years.

^{*}Numbers specify how many farms are included in these groups. Only those farms are included for which Forms RA-RR-14 were provided. These numbers of farms apply also for the following pages where "per cent of budget" is considered.

-4SUMMARY OF FARM EARNINGS (continued)

Items			You bude (RA-R	get f a	rm o	ver. f 171 arms	34 Most profit.	34 Least profit.
Cash Farm Receipt	\$							
Horses		•			\$	8	\$ -	\$ 7
Cows						33	44	2 2
Dairy product	S					319	392	266
Other cattle						28	3 5	18
Hogs						66	78	55
Sheep				······································		5	7	8
Wool						2	2	1
Poultry						25	32	26
Eggs						26	20	1 6
Small grain						28	47	22
Corn			· · · · · · · · · · · · · · · · · · ·			1	0	_
Hay						11	8	21
Root crops			· 			12	9	4
Other crops						15	33	19
Miscellaneous			·			13	16	8
Machinery and		s hired o	11 t			2	5	
Income from w					~	119	167	92
AAA adjustmen						17	19	27
Payments from						5	5	9
Money borrowe			`			167	138	206
Money borrowe			<i></i>			9 3	135	110
	•	•						
(5) Total cash fa				·- 		\$995	\$1242	\$937
(6) Increase in n		m capitai				127	436	
(7) Farm perquisi		, , ,	5) (3)	. (*)	 .	2 5 5	282	237
(8) Total farm re				& (7)		1377	1960	1174
(4) Total far						802	928	933
(9) Ret. to cap.				4)		575	1032	241
10) 5% interest of						23	18	30
(11) Family labor			nus (10)	-		552	1014	. 211
(12) Umpaid family						187	138	392
(13) Operator's la	bor ea	rnings (1	1) minus	(12)		36 5	876 	-181
% actual total ca						2256	7 4 4 6	1026
budget for cash	larm			KK-14)	****	117%	144%	103%
_			antities				Value	
Summary of	Your	Average		34 Least				
Farm		of 171	profit.	profit.	farm		-	
Perquisites	*******	farms	farms	farms		farms		<u>farms</u>
Whole milk, ats.		697	701	6 58 _	 	_ \$ 32	\$ 37	\$ 26
Skim milk, qts.		34	38	73			_	1
Cream, pts.		221	214	213		_ 28	28	26
Farm made butter,	Tps.		75	105		_ 24	28	35
Eggs, doz.		73	72	6 4		_ 15	14	12
Poultry, number		31	21	18 _	 	_ 8	_ 3	7
Cattle, lbs.		145	192	195		_ 7	10	7
Hogs, 1bs.		276	294	281		_ 26	27	25
Sheep, lbs.		l	0	_4			0	1
Potatoes, bu.		20	26	18		_ 16	16	14
Vegetables 1 frui	.t	-	-			14	16	8
Fuel, cds.		8	9	5 .	,.,	22	22	17
House rental				<i>⊶</i> ,		<u>63</u>	<u> 76</u>	<u>58</u>
Total value o	of farm	ı p erquisi	.tes			\$25 5	\$282	\$237
*Includes amou				hases.			· · · · · · · · · · · · · · · · · · ·	

^{*}Includes amount to offset credit purchases.

Your budget (RA-RR-14)	Your farm	Aver. of 171 farms	34 Most profit.	34 Least profit. farms
Number of persons in family		1 arms	<u> </u>	Larms
Total number of persons in family		4.7	5.0	5.0
Total adult equiv.members of family		3.4	3.5	4.0
Total no. of other persons in h.h.		,1	.2	.2
Total adult equiv.of other pers. in h.h.		.1	.2	.2
Cash Expenses (other than savings, etc.)		<u> </u>	±	
Food		\$179	\$ 19 5	\$197
Operating and supplies		29	36	29
Furnishings and equipment		2 6	35 70	18
Clothing and materials		5 9	70	52
Health		21	24	19
Development and recreation		18	25	14
Personal		15	18	12
Personal share of auto expense		14	15	13
Personal share of auto, new		3	1	3
Housing expense		2	1	3
(16) Total cash exp. (other than svgs., etc.)		\$3 66 1 4 6%	\$420 1 7 9%	\$360 122%
on-cash items of expense		\$170	\$134	\$162
17) Food furnished by the farm			•	φ102 17
18) Fuel furnished by the farm		22	22	3
Interest & deprec.on auto(pers. share)		1 63	1 7 6	58
Rental value of house		\$ 25 6	\$283	\$240
19) Total non-cash expenses		·	·	
20) Total expenses (16) plus (19)		\$622	\$703	\$ <u>600</u>
21) Tot.exp.less board of hired labor(20)-(3)		\$610	\$ 68 7	\$5 86
Other cash expenditures		\$ 6	\$ 7	\$ 4
Life insurance and savings		φ 6 14	17	ψ 1 11
Payments on notes and old bills				
22) Total other cash expenditures		\$ 20	\$24	\$ 15
23) Total cash exp.(16) + (22) + (1) (24) Total of all exp.(20) + (22) + (1) + (2)		\$1176 \$1432	\$1356 \$1639	\$1181 \$1534
Soucehold and personal cash receipts			· · · · · · · · · · · · · · · · · · ·	
(25) Grants, rel., o.age asst., sol. bomus, sur.com.		\$ 91	\$ 61	\$ 83
Net income from outside investments		_	0	0
Gifts (inc.rec.from sons in CCC camps)		5	4	4
Misc.(sale of old clothes, furn., etc.)		. 3	2	4
Money borrowed (to offset cr. pur.)		13	16	16
(26) Total H. & Pers. cash receipts	· · · · · · · · · · · · · · · · · · ·	\$112	\$ 83	\$107
(28) Total cash receipts (26) + (5)		\$1107	\$1325	\$1044
(29) Total of all income (26 + (27) + (8)		1489	2043	1281
(30) Net cash receipts (28) mimus (1)		317	413	238
(31) Net income (29) minus (4)		687	1116	348
(32) % Gov. asst. is of net cash rec., %(29) of (3	50)	60%	27%	42%
(33) % Food & fuel of H.& P.exp., %(17) + (18) i	. \$	•		· .
of (21)		. 34%	31%	44%

SUMMARY OF INVENTORIES AND NET WORTH STATEMENT

	Your	Farm	Average	34 Most	34 Least
	Beginning	Ending	of 171	profitable	profit.
	Inventory	Inventory	farms	farms	farms
Farm Inventories				nding Inven	
Machinery and equipment		**************************************	\$ 278	\$ 284	\$ 374
Tractors		-	28	3 7	67
Trucks		·- 	5	5	5
Auto (farm share)			54	67	47
Gas engine			9	8	15
Electric equipment			1	1	5
Miscellaneous supplies			4	6	1
Feeds and seeds			98	168	57
Horses			334	324	3 7 3
Cows			3 89	42 3	412
Other cattle			109	129	117
Hogs			40	62	31
Sheep and wool	n		15	12	28
Poultry			32	38	33
Accounts and notes rec.	······································	· · · · · · · · · · · · · · · · · · ·	5	19	3
			8	ž	4
Other farm assets					<u>_</u>
(34) Total farm assets			\$14 09	\$1585	\$1572
Farm Liabilities					4
Chattel mtgs. & crop liens			\$ 93	\$ 158	\$ 17 7
Resettlement loans			712	798	806
Past due cash rent			11	12	7
Other debts			<u>. 86</u>	<u>70</u>	<u> </u>
(35) Total farm liabilities			\$ 902	\$1038	<u>\$1049</u>
(36) Net farm capital (34) - (35)			\$ 507	\$ 547	\$ 52 3
Personal Assets			A 15		d 3.0
Auto (personal share)			\$ 15	\$ 16	\$ 16
Cash on hand and in bank	***************************************		35	41	10
Household goods			109	1.44	7 8
Cash surrender value of life in	ns.		18	61	0
Miscellaneous			8	11	18
(37) Total personal assets			\$ 18 5	\$ 273	\$ 122
(38) Total personal liabilities			47	43	φ 122 65
(39) Total assets (34) plus (37)			\$1594	\$185 8	\$1694
(40) Total liabilities (35) plus (38)		949	1081	1114
Farmer's net worth (39) minus (40)	<u> </u>		\$ 645	\$ 777	\$ 580
Change in net worth during th	e Venr		\$+182	\$ 443	\$-187
% R.R. loan is of total liabili			Ψ1	41-10	Ψ ±0.
	inventory)		77%	72%	79%
% Total liabilities are of tota (end	l assets inventory)		61%	56%	70%
Age of proprietor, yrs.			37.:	3 34.5	43.5
Formal schooling of proprieto	r, yrs.	*	7.8		

EFFECT OF FARM EARNINGS ON FINANCIAL PROGRESS ON THESE FARMS

The data on page 6 indicate that the 34 farmers highest in earnings managed to increase their net worth, while those with the lowest earnings were worth less at the end of the year than at the beginning. Hence, the wide range in operator's labor earnings has a great significance.

EFFECT OF WELL-BALANCED EFFICIENCY ON FARM EARNINGS

On page 4 it was shown that the average operator's labor earnings for the 34 most profitable farms was \$876, and for the 34 least profitable farms \$-181. The difference between the averages of these two groups was \$1057. Some of the causes for these differences in earnings may be beyond the control of the farmer. It is significant, however, that the data in this report indicate that there are several factors which show definite relationship with operator's labor earnings and which suggest opportunities for increased earnings. The more important of these factors are the following:

- 1. Butterfat production per cow.
- 2. Returns from other productive livestock.
- 3. Productive livestock units per 100 acres.
- 4. Crop yields.
- 5. Percentage of tillable acres in high return crops.
- 6. Size of business.
- 7. Amount of work accomplished per worker.
- 8. Control of power and machinery expense.

Size of business tends to be a disadvantage to those who show a loss, for greater size is a factor serving to increase the loss. However, for those who excel in most of the other factors and received some return for their labor and management, the latter tends to be increased by size of business. Likewise, it is an advantage to have more livestock per hundred acres when the stock shows a profit and a disadvantage when it shows a loss. Hence, a high-balanced standing in the above eight factors is quite essential in order to secure the highest possible earnings.

In Chart I is shown the effect of the number of these eight factors in which the farmer excels on his labor earnings. The 48 farmers who excelled in 5 or more of the 8 factors had earnings of \$349 above the average of 46 farmers who did not excel in more than 2 factors.

CHART I. Relat	ion of E	arni ngs	to Number of Factors in which Farmer	is Above Average
No. of factors	No. of	Your	The length of the shaded lines	Average
in which	farms	farm	are in proportion to the aver-	operator's
farm excels			age operator's labor earnings.	earnings
5 or more	48		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	\$580
3 or 4	7 7		XXXXXXXXXX	311
2 or less	4 6		XXXXXXXX	231

The array in Chart I suggests that it will be worth-while for each cooperator to study carefully his ranking on pages 8 and 9, and learn through his standing in respect to each of the above factors the elements of strength and weakness in his farm business.

MEASURES OF FARM ORGANIZATION AND MANAGEMENT EFFICIENCY

Measures used in chart on page 9.	Your budget (RA-RR-14)	Your farm	Average of 171 farms	34 Most profit. farms	34 Least profit.
Operator's labor earnings			\$365	\$87 6	\$- 181
(1) Pounds of butterfat per (2) Ret.per a.u.(pr.lvst.othe	er than cows)*		171 \$ 77	184 \$ 89	152 \$ 64
(3) Pr. lvst. units per 100 a (4) Crop yields**	cres		7.2 100	6.9 12 7	6.0 75
(5) % of tillable land in his (6) Size of business-days of	pr.work***		1 7% 350	20 % 39 7	13 % 395
(7) Days of prod.work per wor (8) Power & eq. exp. per day	ker of prod.work***	**	251 \$.52	290 \$.41	215 \$.61
Other related measures		<u></u>			
Gross returns per cow			\$ 62.12	\$ 69.56	\$ 53.35
" head of oth			26.71	27.30	24.40
" " litter pigs			69.76	96.51	57.81
" " cwt. hogs p			9.08	9.42	9.03
" " head of she	еер		5.66 2.13	3.85 2.39	6.34 1.64
Number of pigs raised per lit	ter		6.3 79	7.0 75	5.8 81
Number of cows per worker Crop acres per horse			5.1 34.4	5.6 39.4	4.0 38.6
Power exp. per day of prod. we Machinery exp." " " "	vork u		\$.30 .22	\$.21 .20	\$.36 .25
Days of productive work on con in in in in in productive work on con in in in productive work on continuous productive work productive work on continuous productive work on continuous productive work on continuous productive work productive	cops cod. lvst.		143 16 7 40	157 182 58	195 169 <i>3</i> 1
Number of workers, total " " , family " , hired			1.4 1.3	1.4 1.3	1.9 1.8

^{*}Returns are calculated by subtracting beginning inventory and purchases from the sum of end inventory, sales of animals and their products, and value of homeused animals and animal products. Animal unit represents one cow, one bull, two head of young cattle, seven sheep, fourteen lambs, five hogs, ten pigs and one hundred hens.

*****The expense for any one item, as machinery, is calculated by subtracting the sum of end inventory, sales, and hire from the sum of beginning inventory, purchases, repairs, fuel, and interest charge.

^{**}Given as a percentage of the average.

^{***}High return crops include legumes (hay, seed and pasture), potatoes and truck crops.

^{****}The total "days of productive work" for any one farm is a measure of size of that farm business. The average number of "ten-hour days" of man labor is as follows per animal unit: cows, 18.5; other cattle, 7.2; sheep, 3.0; hens, 30.0; per 100 lbs. hogs produced, .9; per acre of crops: alfalfa, 1.75; other hay and seed crops, 1.0; small grain, 1.3; corn husked, 2.6; corn silage, 3.1; corn fodder, 2.3; potatoes, 6.0; truck crops, 10.0.

THERMOMETER CHART

Using your figures from page 8, locate your standing with respect to the various measures of farm organization and management efficiency. The averages for 171 farms included in this summary are located between the two dotted lines across the center of this page.

la ea	per. abor arn- ngs	b.f.		nimal uni	.l.s. its er O A.	Crop yiel		Days of prod. work	Days pr.work per worker	Power & eq. exp. per day pr.work
\$1650		300	\$160	16.0		180	37.5	550	420	\$.10
15 00		285	150	15.0		170	35.0	525	400	.15
1350		270	140	14.0	-	160 =	32.5	500	380	.20
1200		255	130	13.0		150	30.0	475	360	.25
1050		240	120	12.0		140	27.5	450	340	.30
900		225	110	11.0		130	25.0	425	320	.35
750		210	100	10.0		120	22.5	400	300	.40
600		195	90 =	9.0		110	20.0	375	280	.45
450 365		180	80	8.0	-	100	17.5 17.0	350	260	.50
300		165	70	7.0		. 90 -	15.0	325	-240	55
150		150	60	6.0		80	12.5	300E	220 E	•60 E
0		135	50	5.0	•	70	10.0	275	S 00	.65
-150		120	40	4.0		60	7.5	250	180	.70=
-300	E	105	30 =	3.0	-	50	5.0	225	160	.75
-450		90 =	20 =	2.0	-	40	2, 5	200	140	.80=
~600		75	10	1.0		30	.0	175	120	.85
) [) [) [}		5	5		

-10-DISTRIBUTION OF ACRES IN FARM

Crop	No. of farms growing this crop	Your budget (RA-RR-14)	Your farm	Aver. of 171 farms	34 Most profit. farms	34 Least profit. farms
Winter wheat	15			3.0	3.7	3.3
Spring wheat	55			8.2	10.8	10.5
Oats	83			18.0	18.1	28.8
Barley	78			9.7	14.4	10.5
Rye	22			2.3	.7	1.5
Flax	27			3.9	6.8	5.3
Wheat and oats	5			9	.0	2.7
Oats and barley	2			.3	.0	.0
Miscellaneous	3			.1	.0	.1
Total grain and peas	<u> </u>			46.4	54.5	62.7
Corn, grain	19			2.8	2.9	4.9
Corn, silage	12			1.2	2.7	1.0
Corn, fodder	78			6.8	5.0	6.9
Potatoes	94			1.6	1.7	1.1
Mi scellaneous	5			.4	1.3	.2
Total cultivated crops				12.8	13.6	14.1
Alfalfa	4 8			4.1	6.7	5.3
Red clover	7			1.0	•0	, 9
Other legumes & mix.	2 6			3.0	2.6	2.3
Timothy	21			3.0	2.3	3.9
Annual hay	7 8			12.0	10.5	10.2
Miscellaneous hays & seed crops	16			1.4	3.8	•6
Phalaris (non-tillable land)	1			.2	.0	• 0
Wild hay (non-tillable land)	89			27.7	23.4	39.0
Total hay				52.4	49.3	62.2
Total crop acreage				111.6	117.4	139.0
Sweet clover pasture				.6	.9	1.6
Alfalfa pasture		****		1.0	.0	•0
Other tillable pasture				1.8	3.1	3.2
Non-tillable pasture				44.9	40.6	57.3
Total pasture				47.3	44.6	62.1
Tillable land not cropped		And the state of t		4.3	4.4	10.5
Timber (not pastured)				10.7	12.9	15.2
Roads and waste				9.5	9.0	8.8
Farmstead	all at antion day, where are no produce property are			3.8	3.9	4.1
Total acres in farm				187.2	192.2	239.7
% of tillable land in high retu				17%	20%	13%

-11-CROP YIELDS

Yield of Crops per Acre	Your budget (RA-RR-14)	Your farm	Average of 171 farms	34 Most profitable farms	34 Least profitable farms
Winter wheat, bu.			5.3	3.7	9.1
Spring wheat, bu.			5.1	6.2	4.4
Dats, bu.			7.1	9.6	5.3
Barley, bu.			4.6	6.4	4.1
Rye, bu.			4.4	4.6	7.1
Flax, bu.			1.9	2.3	1.6
Wheat and oats, bu.			7.2	-	9,5
Oats and barley, bu.			3.3	·	***
Corn, grain, bu.			6.3	5.8	3.8
Corn, silage, tons			2.3	2.5	2.2
Corn, fodder, tons			1.7	1.6	1.6
Potatoes, bu.			30.0	28.4	19.1
Alfalfa, tons			.9	1,1	.6
Red clover, tons			1.3	_	1.6
Clover and timothy, tons	 _		1.1	.4	.3
Timothy, tons		***************************************	.9	•6	.7
Timony, vons					
Wild hay, tons			.9	.9	.7
Annual hay, tons			.6	.4	.6
Alfalfa seed, lbs.			105.3	81.6	84.5
Clover seed, lbs.			127.5	98.9	231.7
Miscellaneous					
	SUMMARY OF L	IVESTOCI	ζ.		
Number of horses			3.2	3.1	3.9
" " colts			.2	.2	•3
n n coms			7.0	7.5	7.1
Head of other cattle			4.7	5. 3	5.1
Litters of pigs raised			1.2	1.2	1.2
Pounds of hogs produced			1012	1304	846
Head of sheep (2 lambs equal 1	head)		1.8	1.5	2.8
Number of hens			33	33	31
Total a.u. of productive livest	ock		10.8	11.8	11.2
% of total that are cows			65.7%	6 5. 3 %	65 . 0%
% " " " other cat	tle		22.3%	23.3%	22.3%
# " " hogs			6.7%	7.0%	6 .5%
% " " " " hogs % " " " sheep % " " " hens		·	2.1%	1.6%	2.9%
% " " " hens			3.2%	2.8%	3.3%

Footnote: The remainder of the records that were summarized are included in the following reports:

- No. 88, Owner-operated farms--Southern Minnesota
- No. 89, Tenant-operated farms--cash leases--Southern Minnesota
- No. 90, Tenant-operated farms--cash-crops and cash leases--Southern Minnesota
- No. 91, Owner-operated farms--Northern Minnesota
- No. 92, Tenant-operated farms--cash leases--Northern Minnesota
- No. 94, A general and comprehensive summary and analysis of all the records included in the above reports.