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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 owner-operated farms in Northern Minnesota)

Name: _____

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Division of Agricultural Economics
University Farm
St. Paul, Minnesota
October 1937

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

(For owner-operated farms in 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 Rural 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 farm operators who owned all or part of their farms. These farms were located in the northern part of Minnesota in the following counties:

County	No. of Farms	County	No. of Farms	County	No. of Farms
Aitkin	9	Isanti	1	Ottertail	9
Anoka	2	Itasca	13	Pennington	1
Becker	7	Kanabec	8	Pine	2
Beltrami	24	Kittson	3	Polk	5
Carlton	4	Koochiching	15	Red Lake	1
Chisago	2	Lake of the Woods	3	Roseau	6
Clay	1	Mahnomen	5	Sherburne	2
Clearwater	21	Marshall	2	St. Louis	27
Douglas	7	Mille Lacs	6	Wadena	2
Hubbard	3	Norman	2	Wilkin	1

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 \$248. The lowest is \$-1426, and the highest is \$1518. 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 194 farmers included in this report, the average of 40 farmers highest in operator's labor earnings, and the average of 40 farmers lowest in operator's labor earnings. Each farm 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

Items	Your budget (RA-RR-14)	Your farm	Average of 194 farms	40 Most profitable farms	40 Least profitable farms
Cash Farm Expenses					
Operating					
Tractor	_____	_____	\$ 6	\$ 5	\$ 7
Auto (farm share) and truck	_____	_____	37	43	31
General machinery and equipment	_____	_____	16	18	16
Buildings, fencing, tiling	_____	_____	9	14	7
Machinery & horse work hired	_____	_____	0	1	0
Hired labor	_____	_____	20	20	27
Feed for livestock	_____	_____	134	119	183
Veterinary	_____	_____	0	0	0
Other expense for livestock	_____	_____	8	8	10
Seed	_____	_____	13	12	25
Fertilizer	_____	_____	0	0	0
Threshing	_____	_____	6	12	4
Twine	_____	_____	2	2	3
Other crop expense	_____	_____	13	11	7
Cash rent	_____	_____	8	5	10
Taxes	_____	_____	33	33	38
Insurance	_____	_____	5	4	5
Interest	_____	_____	25	25	43
General farm	_____	_____	5	6	4
Money loaned out*	_____	_____	0	0	1
Total cash farm oper. exp.	_____	_____	\$340	\$338	\$421
Capital Goods					
Tractor	_____	_____	\$ 3	\$ 12	\$ 1
Auto (farm share) and truck	_____	_____	18	26	23
General machinery and equipment	_____	_____	33	50	41
Buildings, fencing, tiling	_____	_____	44	92	16
Horses	_____	_____	37	38	54
Cows	_____	_____	64	87	84
Other cattle	_____	_____	4	8	3
Hogs	_____	_____	6	6	5
Sheep	_____	_____	10	12	21
Poultry	_____	_____	9	11	9
Payments on debts (Rural Rehab.)	_____	_____	38	67	34
Payments on debts (other)	_____	_____	112	117	129
Total cash farm cap. pay.	_____	_____	\$378	\$526	\$420
(1) Total cash farm expenses	_____	_____	\$718	\$864	\$841
(2) Decrease in net farm capital	_____	_____	-	-	107
(3) Board for hired labor	_____	_____	9	12	11
(4) Total farm expenses (to page 4)	_____	_____	\$727	\$876	\$959
% actual expenses were of farm budget (Form RA-RR-14)		No. of Farms:	131 ^x	25 ^x	27 ^x
Total cash farm operating expenses	_____	_____	98%	98%	112%
Total cash farm capital payments	_____	_____	100%	107%	111%

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

^xNumbers 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.

-4-
SUMMARY OF FARM EARNINGS (continued)

Items	Your budget (RA-RR-14)	Your farm	Average of 194 farms	40 Most profitable farms	40 Least profitable farms
Cash Farm Receipts					
Horses	_____	_____	\$ 6	\$ 8	\$ 3
Cows	_____	_____	28	26	32
Dairy products	_____	_____	249	308	243
Other cattle	_____	_____	39	47	26
Hogs	_____	_____	25	23	32
Sheep	_____	_____	17	31	31
Wool	_____	_____	6	8	10
Poultry	_____	_____	27	41	29
Eggs	_____	_____	49	36	57
Small grain	_____	_____	18	21	20
Corn	_____	_____	1	0	0
Hay	_____	_____	6	4	12
Root crops	_____	_____	17	28	4
Other crops	_____	_____	55	87	25
Miscellaneous	_____	_____	21	29	25
Machinery and horses hired out	_____	_____	4	8	2
Income from work off the farm	_____	_____	164	248	112
AAA adjustment payments	_____	_____	5	7	6
Payments from old debts	_____	_____	3	2	2
Money borrowed (Rural Rehab.)	_____	_____	122	194	147
Money borrowed (elsewhere)*	_____	_____	104	124	105
(5) Total cash farm receipts	_____	_____	\$956	\$1280	\$923
(6) Increase in net farm capital	_____	_____	77	341	-
(7) Farm perquisites	_____	_____	245	275	242
(8) Total farm receipts (sum of (5), (6) & (7))	_____	_____	1278	1896	1165
(4) Total farm exp. (from page 3)	_____	_____	727	876	959
(9) Ret. to cap. & fam. labor (8) minus (4)	_____	_____	551	1020	206
(10) 5% interest on net farm capital	_____	_____	65	59	77
(11) Family labor earnings (9) minus (10)	_____	_____	486	961	129
(12) Unpaid family labor	_____	_____	238	130	509
(13) Operator's labor earnings (11) minus (12)	_____	_____	248	831	-380
% actual total cash farm receipts were of the budget for cash farm receipts (Form RA-RR-14)			114%	145%	101%

Summary of Farm	Quantities				Values			
	Your farm	Aver. of 194 farms	40 Most profit. farms	40 Least profit. farms	Your farm	Aver. of 194 farms	40 Most profit. farms	40 Least profit. farms
Perquisites	_____	_____	_____	_____	_____	_____	_____	_____
Whole milk, qts.	_____	902	888	892	_____	\$ 42	\$ 39	\$ 42
Cream, pts.	_____	234	297	223	_____	31	37	31
Farm made butter, lbs.	_____	92	122	64	_____	30	36	21
Eggs, doz.	_____	73	82	75	_____	15	15	16
Poultry, number	_____	23	32	17	_____	9	11	9
Cattle, lbs.	_____	163	197	184	_____	9	13	10
Hogs, lbs.	_____	245	229	284	_____	23	23	27
Sheep, lbs.	_____	4	0	0	_____	1	0	0
Potatoes, bu.	_____	22	22	26	_____	21	23	27
Vegetables & fruit	_____	-	-	-	_____	25	33	16
Fuel, cds.	_____	19	15	12	_____	39	45	43
Total value of farm perquisites					_____	\$245	\$275	\$242

*Includes amount to offset credit purchases.

SUMMARY OF HOUSEHOLD AND PERSONAL EXPENSES AND RECEIPTS

	Your budget (RA-RR-14)	Your farm	Aver. of 194 farms	40 Most profitable farms	40 Least profitable farms
<u>Number of persons in family</u>					
Total number of persons in family			5.0	5.2	5.4
Total adult equiv. members of family			3.7	3.8	4.1
Total no. of other persons in h.h.			.1	.1	.1
Total adult equiv. of other pers. in h.h.			.1	.1	.1
<u>Cash Expenses (other than savings, etc.)</u>					
Food			\$183	\$194	\$195
Operating and supplies			18	19	20
Furnishings and equipment			18	22	18
Clothing and materials			60	71	66
Health			19	17	26
Development and recreation			14	19	11
Personal			14	12	10
Personal share of auto expense			19	21	11
Personal share of auto, new			2	9	1
Housing expense			5	11	3
(16) Total cash exp. (other than svgs., etc.)			\$352	\$395	\$361
% actual (16) of budget (RA-RR-14)			136%	143%	127%
<u>Non-cash items of expense</u>					
(17) Food furnished by the farm			\$206	\$230	\$199
(18) Fuel furnished by the farm			39	45	43
Interest and deprec. on auto (pers. share)			2	2	1
Interest and deprec. on house			40	42	58
(19) Total non-cash expenses			\$287	\$319	\$301
(20) Total expenses (16) + (19)			\$639	\$714	\$662
(21) Tot. exp. less board of hired labor (20)-(3)			630	702	651
<u>Other cash expenditures</u>					
Life insurance and savings			\$ 5	\$ 7	\$ 5
New housing			5	11	0
Payments on notes and old bills			29	45	30
(22) Total other cash expenditures			\$39	\$63	\$35
(23) Total cash exp. (16) + (22) + (1)			\$1109	\$1322	\$1237
(24) Total of all exp. (20) + (22) + (1) + (2)			1396	1641	1645
<u>Household and personal cash receipts</u>					
(25) Grants, rel., o. age asst., ⁵⁰¹ bonus, sur. com.			\$ 89	\$ 63	\$ 106
Net income from outside investments			7	1	25
Gifts (inc. rec. from sons in CCC camps)			11	17	5
Misc. (sale of old clothes, furn., etc.)			7	10	4
Money borrowed (to offset cr. pur.)			10	15	7
(26) Total H. and Pers. cash receipts			\$ 124	\$ 106	\$ 147
(27) Rental value of house			58	60	76
(28) Total cash receipts (26) + (27)			\$1080	\$1386	\$1070
(29) Total of all income (26) + (27) + (8)			1460	2062	1388
(30) Net cash receipts (28) minus (1)			362	522	229
(31) Net income (29) minus (4)			733	1186	429
(32) % Gov. asst. is of cash rec., % (29) of (30)			43%	15%	50%
(33) % Food & fuel is of H.&P. exp., % (17) + (18) is of (21)			40%	42%	38%

SUMMARY OF INVENTORIES AND NET WORTH STATEMENT

	Your Farm	Average	40 Most	40 Least
	Beginning	of 194	profitable	profitable
	Inventory	farms	farms	farms
		(Ending	Inventory)	
Farm Inventories				
Land		\$1232	\$1235	\$1382
Farm buildings		560	559	796
Machinery and equipment		230	219	304
Tractors		21	17	38
Trucks		11	8	14
Auto (farm share)		43	50	45
Gas engine		4	4	6
Electric equipment		3	6	6
Miscellaneous supplies		14	4	9
Feeds and seeds		83	107	67
Horses		230	225	245
Cows		309	363	316
Other cattle		89	128	75
Hogs		20	19	26
Sheep and wool		34	71	47
Poultry		29	39	24
Accounts and notes rec.		1	0	3
Other farm assets		21	4	2
(34) Total farm assets		\$2934	\$3058	\$3405
Farm Liabilities				
Real estate mortgages		\$ 941	\$1060	\$1105
Chattel mtgs. & crop liens		63	73	45
Rural Rehabilitation loans		493	479	604
Other debts		136	110	201
(35) Total farm liabilities		\$1633	\$1722	\$1955
(36) Net farm capital (34) - (35)		\$1301	\$1336	\$1450
Personal Assets				
House		\$ 565	\$ 587	\$ 735
Auto (personal share)		21	28	12
Cash on hand and in bank		36	83	1
Household goods		119	117	142
Cash surrender value of life ins.		16	19	3
Miscellaneous		3	4	0
(37) Total personal assets		\$ 760	\$ 838	\$ 893
(38) Total personal liabilities		35	27	34
(39) Total assets (34) + (37)		\$3694	\$3896	\$4298
(40) Total liabilities (35) + (38)		1668	1749	1989
Farmer's net worth (39) - (40)		\$2026	\$2147	\$2309
Change in net worth during the year		\$ 458	\$4442	\$-280
% R.R. loan is of total liabilities(end inv.)		44%	48%	45%
% Total liabilities are of total assets (end inv.)		43%	41%	43%
Age of proprietor, yrs.		42.0	43.0	42.3
Formal schooling of proprietor, yrs.		8.0	8.2	7.7

EFFECT OF FARM EARNINGS ON FINANCIAL PROGRESS ON THESE FARMS

The data on page 6 indicate that the 40 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 40 most profitable farms was \$831, and for the 40 least profitable farms \$-380. The difference between the averages of these two groups was \$1211. 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, machinery, and building 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 54 farmers who excelled in 5 or more of the 8 factors had earnings of \$461 above the average of 54 farmers who did not excel in more than 2 factors.

CHART I. Relation of Earnings to Number of Factors in which Farmer is Above Average

<u>No. of factors in which farm excels</u>	<u>No. of farms</u>	<u>Your farm</u>	<u>The length of the shaded lines are in proportion to the average operator's labor earnings.</u>	<u>Average operator's earnings</u>
5 or more	54	_____	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	\$519
3 or 4	86	_____	XXXXXXXXXXXX	204
2 or less	54	_____	XX	48

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 194 farms	40 Most profitable farms	40 Least profitable farms
Operator's labor earnings			\$ 248	\$ 831	\$-380
(1) Pounds of butterfat per cow			172	188	160
(2) Ret. per a.u. (pr. lvst. other than cows)*			\$ 78	\$ 82	\$ 76
(3) Pr. lvst. units per 100 acres			9.3	8.9	9.9
(4) Crop yields**			100.0	121.0	88.0
(5) % of tillable land in high ret. crops***			33%	37%	31%
(6) Size of business--days of pr. work****			269	314	282
(7) Days of prod. work per worker			194	245	160
(8) Power & eq. exp. per day of prod. work*****			\$.73	\$.55	\$.91

Other related measures

Gross returns per cow			\$ 66.58	\$ 71.27	\$ 58.10
" " " head of other cattle			24.38	24.43	24.39
" " " litter pigs raised			69.92	78.31	80.18
" " " cwt. hogs produced			9.10	9.44	9.15
" " " head of sheep			6.22	6.94	6.43
" " " hen			2.57	2.28	2.34
Number of pigs raised per litter			6.3	7.0	6.4
Number of eggs laid per hen			106	104	90
Number of cows per worker			4.2	5.0	3.4
Crop acres per horse			25.7	30.1	29.2
Power exp. per day of productive work			\$.31	\$.20	\$.37
Machinery exp. per day of " "			.19	.15	.26
Building " " " " " "			.23	.20	.28
Days of productive work on crops			72	76	95
" " " " " prod. lvst.			143	161	149
" " other productive work			54	77	38
Number of workers, total			1.5	1.3	1.9
" " " , family			1.4	1.2	1.9
" " " , hired			.1	.1	.0

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

**Given as a percentage of the average.

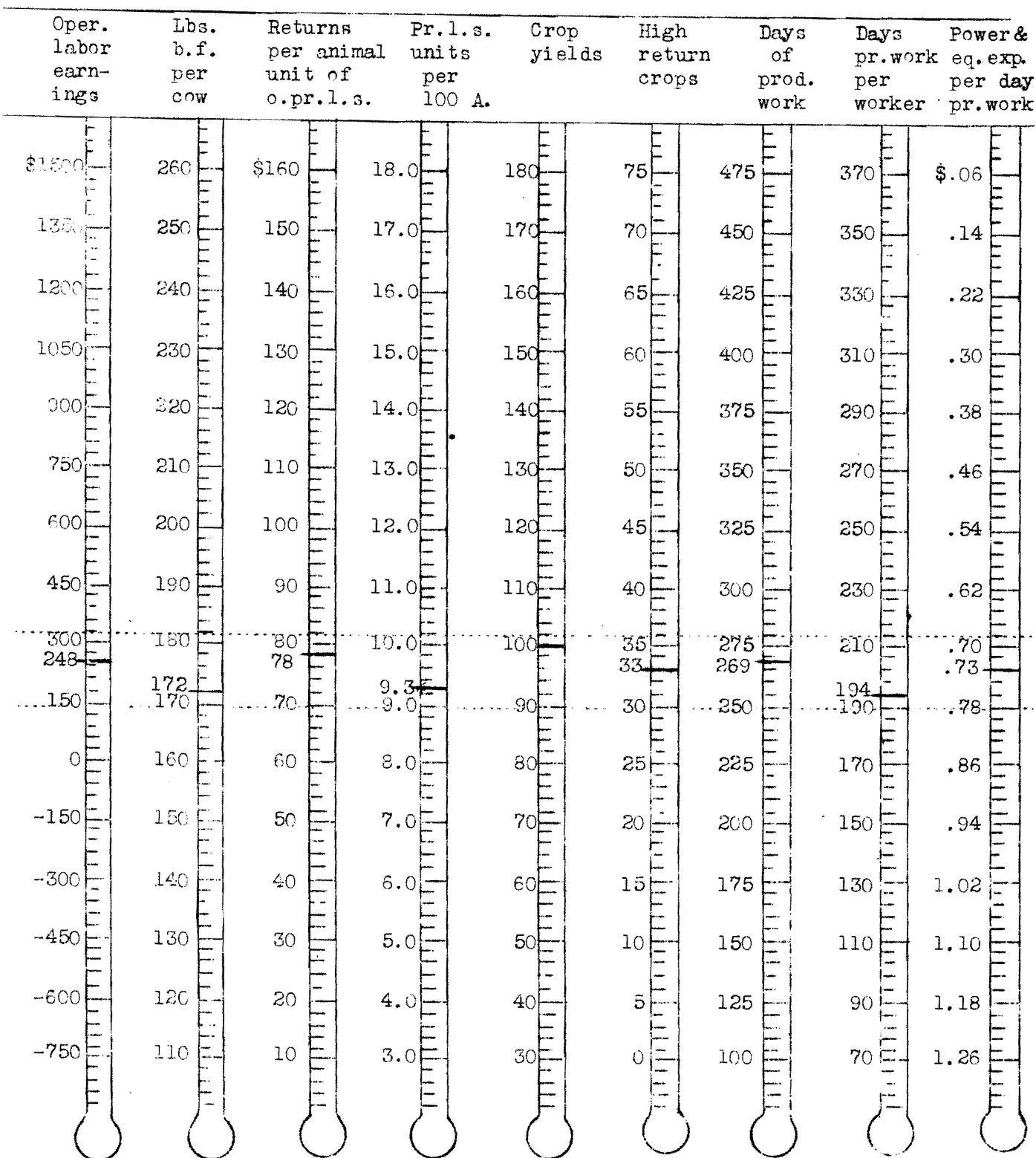
***High return crops include legumes (hay, seed and pasture), potatoes and truck crops.

****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; sweet corn, 8.0; potatoes, 6.0; truck crops, 10.0.

*****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.

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 194 farms included in this summary are located between the two dotted lines across the center of this page.



DISTRIBUTION OF ACRES IN FARM

Crop	No. of farms growing this crop	Your budget (RA-RR-14)	Your farm	Aver. of 194 farms	40 Most profit. farms	40 Least profit. farms
Wheat	33	_____	_____	2.9	2.2	4.4
Oats	55	_____	_____	5.8	5.7	10.0
Barley	46	_____	_____	3.6	3.1	6.3
Rye	9	_____	_____	.4	.4	.8
Flax	18	_____	_____	1.9	1.2	2.5
Wheat and oats	3	_____	_____	.1	.4	.2
Oats and barley	2	_____	_____	.1	.0	.0
Miscellaneous	4	_____	_____	.1	.4	.0
Total grain		_____	_____	14.9	13.4	24.2
Corn, grain	13	_____	_____	1.0	.9	1.3
Corn, silage	8	_____	_____	.4	.1	1.6
Corn, fodder	56	_____	_____	2.2	1.9	2.7
Potatoes	132	_____	_____	1.3	1.3	1.2
Miscellaneous	12	_____	_____	.4	.4	.6
Total cultivated crops		_____	_____	5.3	4.6	7.4
Alfalfa	61	_____	_____	3.6	5.0	4.9
Red clover	10	_____	_____	.6	1.8	.1
Other legumes & mix.	54	_____	_____	4.9	6.9	4.2
Timothy	48	_____	_____	7.0	9.3	5.0
Annual hay	70	_____	_____	4.9	5.0	3.3
Miscellaneous hays & seed crops	44	_____	_____	2.5	3.1	2.0
Wild hay (non-tillable land)	94	_____	_____	14.9	15.6	20.4
Total hay		_____	_____	38.4	46.7	39.9
Total crop acreage		_____	_____	58.6	64.7	71.5
Sweet clover pasture		_____	_____	.3	.1	.6
Other tillable pasture		_____	_____	1.4	.2	2.0
Non-tillable pasture		_____	_____	44.3	53.6	37.3
Total pasture		_____	_____	46.0	53.9	39.9
Tillable land not cropped		_____	_____	1.5	.8	1.8
Timber (not pastured)		_____	_____	17.6	22.4	9.8
Roads and waste		_____	_____	7.3	5.6	5.9
Farmstead		_____	_____	2.3	2.7	2.5
Total acres in farm		_____	_____	133.3	150.1	131.4
% of tillable land in high return crops		_____	_____	33%	37%	31%

CROP YIELDS

Yield of Crops per Acre	Your budget (RA-RR-14)	Your farm	Average of 194 farms	40 Most profitable farms	40 Least profitable farms
Wheat, bu.	_____	_____	6.3	10.0	7.3
Oats, bu.	_____	_____	10.6	13.6	7.6
Barley, bu.	_____	_____	7.0	8.2	5.1
Rye, bu.	_____	_____	7.4	10.6	5.7
Flax, bu.	_____	_____	4.8	2.3	9.2
Wheat and oats, bu.	_____	_____	17.0	28.1	15.0
Oats and barley, bu.	_____	_____	9.9	-	-
Corn, grain, bu.	_____	_____	22.5	25.3	19.0
Corn, silage, tons	_____	_____	1.7	5.0	1.0
Corn, fodder, tons	_____	_____	1.8	3.6	.8
Potatoes, bu.	_____	_____	39.9	49.2	31.3
Alfalfa, tons	_____	_____	1.2	1.1	1.0
Red clover, tons	_____	_____	1.2	.9	2.0
Clover and timothy, tons	_____	_____	1.0	1.8	.8
Timothy, tons	_____	_____	.9	.9	.8
Annual hay, tons	_____	_____	1.3	2.5	.6
Wild hay, tons	_____	_____	1.2	2.0	.7
Alfalfa seed, lbs.	_____	_____	60.9	110.0	29.4
Clover seed, lbs.	_____	_____	124.7	140.9	121.6

SUMMARY OF LIVESTOCK

Number of horses	_____	2.2	2.1	2.3
Number of colts	_____	.2	.2	.1
Number of cows	_____	5.9	6.5	6.0
Head of other cattle	_____	4.1	5.5	3.9
Litters of pigs raised	_____	.5	.3	.7
Pounds of hogs produced	_____	519.0	496.0	636.6
Head of sheep (2 lambs equal 1 head)	_____	4.5	8.3	7.0
Number of hens	_____	37.7	38.0	46.0
Total a.u. of productive livestock	_____	9.5	11.0	10.1
% of total that are cows	_____	63.2%	58.6%	61.5%
% of total that are other cattle	_____	23.2%	26.0%	20.5%
% of total that are hogs	_____	4.0%	3.3%	4.7%
% of total that are sheep	_____	5.2%	8.4%	7.8%
% of total that are hens	_____	4.4%	3.7%	5.5%

Footnote: The remainder of the records that were summarized is 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--crop-share and cash leases--Southern Minnesota
- No. 92, Tenant-operated farms--cash leases--Northern Minnesota
- No. 93, Tenant-operated farms--crop-share and cash leases--Northern Minnesota
- No. 94, A general and comprehensive summary and analysis of all the records included in the above reports.