1968 Annual Report

FARM MANAGEMENT PROGRAM NORTHEASTERN MINNESOTA

In Cooperation with

Minnesota Department of Education Vocational Division

and

Agricultural Education Department University of Minnesota Institute of Agriculture

and

Duluth Area Institute of Technology Duluth, Minnesota

April, 1969

1968 REPORT OF THE VOCATIONAL AGRICULTURE FARM MANAGEMENT PROGRAM IN NORTHEASTERN MINNESOTA

Rodger Palmer -- Vocational Agriculture Program Coordinator

TABLE OF CONTENTS

TABLE NO.

	Introduction	1,2,3
1	Farm Inventories	
2 A	Farm Earnings for Whole Farm: Receipts	7
2 B	Farm Earnings for Whole Farm: Expenses	8
3	Enterprise Earnings Statement	9
4	Household Expense	10
5	Net Worth Statement	11
6Λ	Operator's Share of Cash Receipts	12
6В	Operator's Share of Cash Expense	13
7	Explanation of Work Units & Average Prices	14
8	Measures of Farm Organization & Efficiency	15,16
	Thermometer Chart	17
	Range in Labor Farnings	18
	Labor Earnings Correlated With Excelled Factors	19
9	Crop Production, Acres and Yields	20,21
10	Crop Data, Individual Crops	
`ll C	Costs and Return from Producing Meaning Pigs	28
12	Dairy Cows	29
13	Other Dairy	30
14	All Dairy	31
15 A	Beef Breeding Cattle	32
16	Sheep Flock	33
	Summary of Barnings, 1963 - 1968	34
	"Capsule" of Data: 1964 - 1968	35

INTRODUCTION

The Duluth Area Institute of Technology, in cooperation with the University of Hinnesota and the Vocational Division of the Hinnesota State Department of Education, is charged with the responsibility for operation and maintenance of the Vocational Agriculture Farm Management Frogram in Northeastern Minnesota. This 1968 report represents the thirteenth annual report for this area.

The main purposes of the program of farm record analysis are; (1) To aid individual farmers in the study of their farm business through analysis reports; (2) To provide case study materials that can be used by farmers and farm groups in the study of farm management problems; (3) To provide information related to the adaptability and success of various farm enterprises in the area; (4) To provide a basis for determining the possibilities of encouraging or discouraging new agricultural enterprises for the area; (5) To secure information on farm management 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 Rodger Palmer, Area Vo Ag Coordinator at the Duluth Area Institute of Technology. Clerical assistance was provided by Judy Anderson, Barbara Floodstrom, and Dair Nichols, and his clerical class.

Directing locally in a supervisory capacity were: Dr. L.V. Rasmussen, Superintendent of Duluth Fublic Schools and Mr. Robert Bergstrom, Director of the Duluth Area Institute of Technology, and Mr. Wayne Little, Assistant Director.

Cooperating agencies were represented by: Mr. G. R. Cochran and Mr. Robert Van Tries of the Vocational Division, State Department of Education, and Dr. Milo J. Peterson and Dr. 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 Nodland of the University Agricultural Economics Department.

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. Freliminary analysis work was done at Staples again this year on a number of account books from the Staples area.

Special thanks also, to Robert Anderson, former Vo Ag Coordinator at Duluth, for his help in the completion of this report.

This report deals with farmers enrolled in adult programs of schools and county agent programs shown below. Fifty-five (55) records were submitted for analysis with averages of forty-eight (48), included in a this report. Several books came in too late for the analysis.

1968 Records for analysis were received from:

Ed Takala, Vo Ag Instructor, Embarrass Martin Klingenberg, Vo Ag Instructor, Park Rapids Albert Wanous, Adult Ag Instructor, Pine City Chris Back, Adult Ag Instructor, Staples Lennen Naley, Adult Ag Instructor, Staples Ken Östlund. Adult Ag Instructor, Bagley Bill Ladwig, Adult Ag Instructor, Bagle Bend Robert Boremardt, Vo Ag Instructor, Baudette

County Agents:

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

The cooperating centers submitted records from eight (8) 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	Lake of Woods	3
Cass	3	Pine	12
Clearwater	7	St. Louis	2
Hubbard	10	Todd	15
		Total	55

Records this year, for the 5th year, were analyzed by electronic data processing with the work being done by Agricultural Records Cooperative at Madison, Wisconsin.

Very little change was made in the analysis form this year. The electronic processing is near perfect. The two main sources of errors in arriving at an analysis for a farmers account book fall in these areas; (1) Improper copying at the record center from the book to the computer work sheets, and (2) Improper information or missing information in the account book.

The records submitted included farm inventories, cash receipts, and expenses. Also included were feed consumed by 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.

- 2 -

FARM INVENTORIES

The average capital investment per farm varied from \$7500 to \$166,000. The average investment for all farms included in this report and for the high and low groups operators labor earnings is shown in Table 1.

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. Tables 2A and 2B show the earnings statement on a cash basis while Table 3 shows the earnings on an enterprise or accrual basis. 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.

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 24 farms in the report showed outside income ranging from a low of \$6 to a high of \$2506 per farm involved. Non-farm income is not included in this report as a part of farm labor earnings.

FINANCIAL POSITION OF ANNUAL REPORT

The annual report from the Duluth area has been financed in the past, with exception of one year, by the Iron Range Resources and Rehabilitation Commission. They chose not to fund this report in 1968.

We are now in the position of having to charge each cooperating farmer for his enalysis and annual report. The charge involves processing costs at the Agricultural Records Cooperative, clerical help at the records center, supplies and materials used in making up the annual report and the cost of printing the report.

One-third of the original projection for number of records in this report were submitted for analysis. It was unfortunate that the other two-thirds who did not submit records could not have been notified earlier of the pending situation. However, we are confident that the number of cooperating farmers will grow in the coming years under the instruction of the many fine Vo Ag Instructors and County Agents serving them.

TA	BLE 1 SUMMARY OF FAPM INVENTORIES, 1968		rA)	verage 48 Farms)
1 2 3 4 5 6 7 4 7 4	Size of Farm - Total Acres - Tillable Acres Work Units - Crops - Livestock - Other TOTAL SIZE OF BUSINESS IN WORK UNITS Number of Workers Farm Capital Investment Per Worker	5	383.1 209.2 94.19 249.02 9.25 352.46 1.5 28682	
			Jan. 1	Dec. 31
8 9 10 11 12 13 14 15 16 17	PRODUCTIVE LIVESTOCK Dairy Cows Other Dairy Cattle Beef Breeding Cattle Hogs Sheep (incl. feeders) Poultry (incl. turkeys) Other Productive Livestock TOTAL PRODUCTIVE LIVESTOCK	\$	6065 3009 1068 190 429 46 30	6070 3306 1213 1486 281 64 24 11444
18	Crop, Seed and Feed		4720	5358
19 20 21 22 23	POWER, MACHINERY AND EQUIPMENT Auto and Truck (farm share) Power and Machinery Livestock Equipment TOTAL POWER, MACHINERY & EQUIPMENT	\$	879 5948 1833 8660	1081 6528 2107 9716
24 25	Land Buildings-Fences-etc.		14028 6611	14472 7085
26	TOTAL FARM CAPITAL	\$	44856	48075

TABLE 1 (conti	nued)		8 Most P	rofitable
1 Size of Farm	n - Total Acres		375.9	
2	- Tillable Acres		244.9	
3 Work Units 4	- Crops		114.26	
	- Livestock		332.69	
5 6 TOTAL	- Other		18.05	
	SIME OF BUSINESS IN WORK U	INITS	465.00	
7 Number of We			1.6	
7A rarm capita	l Investment Per Worker		34412	
			Jan l	Dec. 31
8 TRODUCTIVE J	IVESTOCK			
9 Dairy Cow			8725	8318
	ry Cattle		3657	4024
1. Beef Bree	ding Cattle		2460	3011
2 Beef Feed	er Cattle			1173
3 Hogs			342	168
	cl. feeders)			
	incl. turkeys)			
	ductive Livestock			
(101AL	PRODUCTIVE LIVESTOCK	\$	15184	16694
8 Crop, Seed a	nd Fead		11030	11480
9 POWER, MACHI				12,000
, , , , , , , , , , , , , , , , , , , ,	NERY AND EQUIPMENT Fruck (farm share)		-	
	Machinery		620	1131
- en oli otilot	Equipment		10533	11879
	POWER, MACHINERY & EQUIPME	tim di	4150	4081
	WIN, MACHINIAI & F-OIPME	4T \$	15303	17091
+ Land			25901	26060
5 Building-Fend			11014	10918

- 5 -

TABLE 1 (continued)& Least Profitable

1 2 3 4	Size of Farm - Total Acres - Tillable Acres Work Units - Crops - Livestock		340.6 150.0 59.43 163.86	
5 6 7 7A	- Other TOTAL SILL OF BUSINESS IN YORK UNITS Number of Vorkers Farm Capital Investment Per Worker		2.35 230.64 1.2 27921	
			Jan 1	Dec. 31
8 9 10 11 12	PRODUCTIVE LIVESTOCK Dairy Cows Other Dairy Cattle Beef Breeding Cattle Beef Feeder Cattle		3919 2456 1.077	3970 2343 1.226
13 14 15 16	Hogs Sheep (incl. freders) Poultry (incl. turkeys) Other Productive Livestock		295 5 2	317 86
17	TOTAL PRODUCTIVE LIVESTOCK	\$7. }	7754	7948
18	Crop, Seed and Feed		2393	2691
19 20 21 22 23.	POWER, MACHINERY AND EQUIPMENT Auto and Truck (farm share) Power and Machinery Livestock Equipment TOTAL POWER, MACHINERY AND EQUILMENT	\$	1348 4878 1085 7311	1200 4914 1363 7 ¹ 477
24 25	Land Buildings-Fences-ect.		10408 5922	10771 5657
26	TOTAL FARM CAPITAL	44	33788	34544

۰.

<u>T</u> 4	ABLE 2A WHOLE FARM SUMMARY OF CASH RECEIPTS - 1968	Average of 46 Farms	8 High	8 Low
7				
1 2	SALE OF LIVESTOCK AND LIVESTOCK PRODUCTS Dairy Cows	\$ 1789	3244	624
3	Dairy Products	Φ 1709 12420	21564	6622
4	Other Dairy Cattle	1038	1756	1265
5	Beef Breeding Cattle	420	631	785
6	Beef Feeder Cattle	189	249	10)
7A		56	58	
7E		24	20	
70		616	453	702
8A		70		6
8e				
9	Chickens (Incl. Hens and Broilers)	19		
10	Turkeys			
11	Eggs	128		
12	Other Productive Livestock			
12A	TOTAL SALES OF PRODUCTIVE LIVESTOCK	\$16769	27955	10004
13	SALE OF CROPS	-		
14	Corn	37	90	
15	Soybeans, Flax, Sunflowers	125	57	
16	Wheat, Oats, Barley, Rye	735	2307	70
17	Potatoes, Sugar Beets, Canning & Other Crops A&B	1		6
18	Hay, Silage and Other Crops	651	2609	113
19	Diverted Acre Payment	134		55
19A	TOTAL SALES FROM CROPS	\$ 1683	5063	244
20	Capital Assets Sold	64	16	30
21	Gas Tax Refund	95	119	78
22	Income From Work Off The Farm	333	641	51
23	Patronage Refunds	86	94	26
24	Miscellaneous Farm Income	124	50	154
25	TOTAL FARM SALES	\$19154	33938	10587
26	Increase in Farm Capital	3427	3781	1295
27	Family Living From The Farm	380	262	463
28	TOTAL FARM RECEIPTS (25)+(26)+(27)	\$22961	37981	12345
29	Adjusted Total Farm Sales (25)-(20)	19090	33922	10557
30	Total Cash Farm Operating Expense	10119	16302	6496
31	Net Cash Operating Income	\$ 8971	17620	4061

a (ק	LE 2B - WHOLE FARM SUMMARY OF CASH EXPENSE - 1968	Average of Farms	8 High	8 Lov
1.711.	IS 25 - BRUEFFARM SUPPART OF GASH MAPEMOE - 1900	rariib	1:48:1	
1	PURCHASE OF LIVESTOCK			
2	Dairy Cows	\$ 200	147	
3	Other Dairy Cattle	160	20	2
3 4	Beef Breeding Cattle	59	50	38
5	Beef Feeder Cattle	130	745	2
бA	Hogs Complete	2		
	Logs Finishing	1		
	Hogs Producing Weaning Pigs	27		17
7A	Sheep, Farm Flock			46
7B	Sheep, Feeder Lambs			
8	Chickens (incl. hens and broilers)	16		l
9	Turkeys	т. С		
10	Other Productive Livestock			
11		727	1556	480
12	Miscellaneous Livestock Expense	3049	4550	1914
	Feed Bought	800	1710	313
13	Fertilizer	140	267	22
14	Chemicals	439	631	393
15	Other Crop Expense		1356	700 700
16	Custom Work Hired	903	153	47
17	Repair + Upkeep of Livestock Equip.	101 186	412	169
18	Repair + Upkeep of Farm Real Estate			691
19	Gas, Oil, Grease Bought (farm share)	835	1013	
20	Repair + Oper of Mach, Tractor, Truck, Auto (F.S.)	902	1490	776
21	Wages of Hired Labor	451	674	129 269
22	Personal Property + Real Estate Taxes	381 264	693	
23	General Farm Expense	264	389 88	158 61
24	Telephone Expense (farm share)	69		242
25	Electricity Expense (farm share)	268	358	
26	TOTAL CASH OPER TING EXEENSE	\$ 10119	16302	6496
27	Power, Crop and General Mach Bought (farm share)	2131	3317	1360
28	Livestock Equipment Bought	626	421	485
29	New Real Estate + Improvement	1346	1521	597
30	TOTAL FARM FURCHASES (26) THRU (29)	\$ 14222	21561	893
31	Decrease In Farm Capital	325	43	540
32	Interest On Farm Capital	2311	4015	1708
33	Unpaid Family Labor	613	758	47
34	Labor Charge For Partners + Other Operators	98		
35	Board Furnished Hired Labor	Ĺ ₊ L ₊	96	1
36	TOTAL FARM EXPENSE (30) THRU (35)	\$ 17613	26473	11678
37	Labor Earnings (whole farm) (2A/28)-(36)	\$ 5350	11507	668
11	Number of Operators	1	1	-

	P	lverage of 46	8	8
TAPLE 3 - ENTERPRISE STATEMENT - 1968		Farms	High	Low
1 RETURNS AND NET INCREASES				
2 PRODUCTIVE LIVESTOCK				
3 Dairy Cattle	\$	12651	21708	6821
4 Other Dairy Cattle		3143	5358	2271
5 Beef Breeding Cattle		700	1150	306
5 Beef Breeding Cattle 6 Feeder Cattle		113	267	
7 Complete Hog Enterprise		21		
8 Hog Finishing Enterprise		2		
9 Producing Weaning Pigs		519	358	719
10 Farm Flock of Sheep		79		40
11 Feeder Lambs				
12 Chickens (incl. hens and broilers)		129		7
13 Turkeys				
14 Other Productive Livestock				
15 ALL PRODUCTIVE LIVESTOCK	\$	17357	28841	10766
16 Value of Feed Fed to Livestock		8345	12647	6042
17 Return Over Feed From Livestock		901.2	16194	4724
18 Crop, Seed and Feed		6055	10853	3709
19 Income From Labor Off the Farm		193	361	47
20 Cooperative Patronage Refunds		86	94	26
21 Miscellancous Farm Income		124	50	154
				- ,
22 TOTAL RETURNS AND NET INCREASES	\$	15470	27552	8660
23 EXPENSES AND NET DECREASES				
24 Truck and Auto (farm share)	\$	1114	1502	1200
25 Tractors and Crop Machinery	Ψ	2225	2903	2075
26 Electricity		268	358	242
27 Livestock Equipment		516	643	255
28 Buildings, Fences and Tiling		873	1857	666
29 Bare Land		(-155)	13	0000
30 Misc. Livestock Expense		727	1556	480
31 Labor		1439	2027	875
32 Labor Charge for Other Operator (s)		98		015
33 Property Tax		381	693	269
34 General Farm Expense and Telephone		333	477	222
35 Interest on Farm Capital		2311	4015	1708
J) interest on raim capitar		ـــدر ٢	4019	T100
36 TOTAL EXPENSES AND NET DECREASES	\$	10130	16044	79 92
37 Labor Earnings	\$	5350	11508	668
38 Number of Farm Operators	Ψ	1	11/00	1
Condition of Land obergroups			*	

TABLE 4 - HOUSEHOLD EXPENSE - 1968 1. Number of Persons - Family 2. Number of Adult Equivalent - Family	Average of 35 Farms 6 3.8	' R <u>Hig'ı</u> 6 4.0	7 Low 6 4.1
 Number of Addit Equivalent - Family Church and Welfare Medical Care and Health Insurance Food and Heals Bought Operating Expense and Supplies Furnishings and Equipment Clothing and Clothing Materials Personal Care, Personal Spending Education Recreation Gifts and Special Events Pers. Share Truck and Auto Exp. Oper. Share Upkeep on Dwelling Pers. Share Tel. and Elect. Exp. TOTAL CASH LIVING EXFENSES Pers. Share New Truck and Auto New Dwelling Bought Taxes and Other Deductions Life Insurance and Other Savings and Investments TOTAL HOUSEHOLD AND PERSONAL (16)-(20) TOTAL FAMILY LIVING FROM THE FARM (33) TOTAL CASH AND NON-CASH EXPENSES (21)+(22) 	 \$ 219 \$ 545 1047 300 334 335 103 174 141 195 240 101 153 \$ 3887 129 242 429 614 \$ 5301 352 \$ 5653 	216 562 1252 430 475 518 131 35 264 230 236 328 182 4859 207 316 658 508 6548 306 6854	201 632 920 186 257 38 64 114 282 63 133

FAMILY LIVING FROM THE FARM

24.

25.		\$	OPR. SHARE	OPR. SHARE	OPR. SHARE
26. 27. 28. 29.	Milk and Cream Beef Pork Lamb	•.	135 177 15	142 128 20	90 161 39
30. 31. 32. 33.	Poultry Eggs Veg., Fruit, Spuds, and Fuel-Also Other Produce TCTAL FAMILY LIVING FROM THE FARM	\$	1 2 22 352	16 306	7 20 317

				45 Farms	9			3 Low
7	Total Linesterly			Dec. 31	Jan. 1	Dec. 31		
	Total Livestock	\$		11617	14833			
	Crop, Seed & Feed		4877	5564	10312		2519	3019
	. Total Power, Machinery			9822	14365		5761	
	Land		13316	13718	25023			10644
	Buildings, Fences, etc.			6812	10709			5780
ь.	TOTAL FARM CAPITAL	Ş	44133	47533	75242	7892 7	32293	34906
	Non-Farm Assets		5254	6497	6442	8869	3403	
	Dwelling		3602	3712	3006	3089	5228	5253
9.	TOTAL ASSETS	\$	52989	57742	84690	90885	40924	43831
LO.	Real Estate Mortgages		8002	8371	18279	16738	3191	3059
11.	Chattel Mortgages		6898	7085	12481	11677	3426	4220
2.	Notes		2291	2365	2638	1826	994	1700
3.	Accounts Payable		849	782	1054	698	664	603
	TOTAL LIABILITIES	\$		18603	34452	30939	8275	9582
.5.	FARMERS NET WORTH	\$	34949	39139	50238	59946	32649	34249
						4		1000
.6.	GAIN, OR LOSS IN NET WORTH		\$	4190		\$ 97 0 8	Ş	1600
	GAIN, OR LOSS IN NET WORTH SUPPLEMENTARY MANAGEMENT INH	FORM		5 4190		\$ 97 0 8	Ş	1900
.7.			ATION	\$ 4190	11074	Ş 97 0 8		1900
.7. .8.	SUPPLEMENTARY MANAGEMENT IN Operators Labor Earnings Ret. to Capital & Family Lab	\$	ATION 4859	5 4190		Ş 97 0 8	\$ 83 2597	1000
.7. .8. .9.	SUPPLEMENTARY MANAGEMENT IN Operators Labor Earnings Ret. to Capital & Family Lab Non-Farm Income	\$	ATION 4859 6965	5 4190	11074 14380	Ş 97 0 8	83 2597	1000
.7. .8. .9. 0. 1.	SUPPLEMENTARY MANAGEMENT INH Operators Labor Earnings Ret. to Capital & Family Lah Non-Farm Income Outside Investment Income	\$	ATION 4859 6965 95	5 4190	11074 14380 181	\$ 97 0 8	83 2597 37	1900
.7. .8. .9. 1. 2.	SUPPLEMENTARY MANAGEMENT IN Operators Labor Earnings Ret. to Capital & Family Lab Non-Farm Income Outside Investment Income Other Personal Income	\$ oor	ATION 4859 6965 95 1020	5 4190	11074 14380 181 463	\$ 97 0 8	83 2597 37 2186	1600
8. 9. 1. 2.	SUPPLEMENTARY MANAGEMENT INH Operators Labor Earnings Ret. to Capital & Family Lah Non-Farm Income Outside Investment Income	\$ oor	ATION 4859 6965 95	5 4190	11074 14380 181	Ş 97 0 8	83 2597 37	1900
.7. .8. .9. 0. 1. 2. 3.	SUPPLEMENTARY MANAGEMENT INH Operators Labor Earnings Ret. to Capital & Family Lah Non-Farm Income Outside Investment Income Other Personal Income TOTAL NON-FARM INCOME Total Money Borrowed	\$ >or \$ \$	ATION 4859 6965 95 1020 1115 4566	5 4190	11074 14380 181 463 644 2519	Ş 97 0 8	83 2597 37 2186 2223 1503	1600
.7. .8. .9. 0. 1. 2. 3. 4.	SUPPLEMENTARY MANAGEMENT INH Operators Labor Earnings Ret. to Capital & Family Lah Non-Farm Income Outside Investment Income Other Personal Income TOTAL NON-FARM INCOME Total Money Borrowed Total Paid on Debt (Principa	\$ por \$ \$ 1)	ATION 4859 6965 95 1020 1115 4566 4205	5 4190	11074 14380 181 463 644	Ş 97 0 8	83 2597 37 2186 2223	1900
.7. .8. .9. 0. 1. 2. 3. 4. 5. 6.	SUPPLEMENTARY MANAGEMENT INF Operators Labor Earnings Ret. to Capital & Family Lab Non-Farm Income Outside Investment Income Other Personal Income TOTAL NON-FARM INCOME Total Money Borrowed Total Paid on Debt (Principa Total Household & Pers. Expe	\$ oor \$ \$ al)	ATION 4859 6965 95 1020 1115 4566 4205 4911	5 4190	11074 14380 181 463 644 2519	Ş 97 0 8	83 2597 37 2186 2223 1503	1600
.7. .8. .9. 1. 2. 3. 4. 5. 6. 7.	SUPPLEMENTARY MANAGEMENT INF Operators Labor Earnings Ret. to Capital & Family Lab Non-Farm Income Outside Investment Income Other Personal Income TOTAL NON-FARM INCOME Total Money Borrowed Total Paid on Debt (Principa Total Household & Pers. Expe Ratio Farm Exp. to Farm Rece	\$ oor \$ \$ al)	ATION 4859 6965 95 1020 1115 4566 4205 4911	5 4190	11074 14380 181 463 644 2519 5776	Ş 97 0 8	83 2597 37 2186 2223 1503 1743	1600
7. 8. 90. 1. 2. 3. 4. 5. 6. 7. 8.	SUPPLEMENTARY MANAGEMENT INH Operators Labor Earnings Ret. to Capital & Family Lah Non-Farm Income Outside Investment Income Other Personal Income TOTAL NON-FARM INCOME Total Money Borrowed Total Paid on Debt (Principa Total Household & Pers. Expe Ratio Farm Exp. to Farm Rece Ratio Assets to Liabilities	\$ por \$ \$ al) ense ipts	ATION 4859 6965 95 1020 1115 4566 4205 4911	3 . 104	11074 14380 181 463 644 2519 5776 7287	\$ 97 0 8 2 . 938	83 2597 37 2186 2223 1503 1743 3809	4.574
.7. .8. .9. 1. 2. 3. 4. 5. 6. 7. 8.	SUPPLEMENTARY MANAGEMENT INH Operators Labor Earnings Ret. to Capital & Family Lab Non-Farm Income Outside Investment Income Other Personal Income TOTAL NON-FARM INCOME Total Money Borrowed Total Paid on Debt (Principa Total Household & Pers. Expe Ratio Farm Exp. to Farm Rece Ratio Assets to Liabilities Ratio Non-Real Est. Assets -	\$ por \$ \$ al) ense ipts	ATION 4859 6965 95 1020 1115 4566 4205 4911 5.793		11074 14380 181 463 644 2519 5776 7287 .697		83 2597 37 2186 2223 1503 1743 3809 .994	
.7. .8. .9. 0. 1. .3. 4. .5. .6. .7. .8. .9.	SUPPLEMENTARY MANAGEMENT INH Operators Labor Earnings Ret. to Capital & Family Lab Non-Farm Income Outside Investment Income Other Personal Income TOTAL NON-FARM INCOME Total Money Borrowed Total Paid on Debt (Principa Total Household & Pers. Expe Ratio Farm Exp. to Farm Rece Ratio Assets to Liabilities Ratio Non-Real Est. Assets - Non-Real Est. Liabilities	\$ por \$ \$ al) ense ipts	ATION 4859 6965 95 1020 1115 4566 4205 4911 5.793		11074 14380 181 463 644 2519 5776 7287 .697		83 2597 37 2186 2223 1503 1743 3809 .994	
.7. .8. .9. 0. 1. .3. 4. .5. .6. .7. .8. .9.	SUPPLEMENTARY MANAGEMENT INF Operators Labor Earnings Ret. to Capital & Family Lab Non-Farm Income Outside Investment Income Other Personal Income TOTAL NON-FARM INCOME Total Money Borrowed Total Paid on Debt (Principa Total Household & Pers. Expe Ratio Farm Exp. to Farm Rece Ratio Assets to Liabilities Ratio Non-Real Est. Assets - Non-Real Est. Liabilities Ratio Real Estate Assets To	\$ por \$ \$ al) ense ipts	ATION 4859 6965 95 1020 1115 4566 4205 4911 5.793 2.937	3.104	11074 14380 181 463 644 2519 5776 7287 .697 2.458	2.938	83 2597 37 2186 2223 1503 1743 3809 .994 4.945	4.574
7. 8.901. 2.3. 4.5. 6.7. 8.9. 0.	SUPPLEMENTARY MANAGEMENT INH Operators Labor Earnings Ret. to Capital & Family Lah Non-Farm Income Outside Investment Income Other Personal Income TOTAL NON-FARM INCOME Total Money Borrowed Total Paid on Debt (Principa Total Household & Pers. Expe Ratio Farm Exp. to Farm Rece Ratio Assets to Liabilities Ratio Non-Real Est. Assets - Non-Real Est. Liabilities Ratio Real Estate Assets To Real Estate Liabilities	\$ \$ \$ \$ sipts	ATION 4859 6965 95 1020 1115 4566 4205 4911 5.793 2.937	3.104	11074 14380 181 463 644 2519 5776 7287 .697 2.458	2.938	83 2597 37 2186 2223 1503 1743 3809 .994 4.945	4.574
7. .8. .9. 0. 1. 2. 3. 4. 5. 6. 7. 8. 9. 0.	SUPPLEMENTARY MANAGEMENT INH Operators Labor Earnings Ret. to Capital & Family Lah Non-Farm Income Outside Investment Income Other Personal Income TOTAL NON-FARM INCOME Total Money Borrowed Total Paid on Debt (Principa Total Household & Pers. Expe Ratio Farm Exp. to Farm Rece Ratio Assets to Liabilities Ratio Non-Real Est. Assets - Non-Real Est. Liabilities Ratio Real Estate Assets To Real Estate Liabilities Ratio Net Worth To Total Lia	\$ \$ \$ shl) ense sipt:	ATION 4859 6965 95 1020 1115 4566 4205 4911 5.793 2.937 2.937	3.104 3.27	11074 14380 181 463 644 2519 5776 7287 .697 2.458 2.84	2.938 3.66	83 2597 37 2186 2223 1503 1743 3809 .994 4.945 3.84	4.574 3.40
-7. .8. .9. .0. 1. 2. 3. 4. 5. 6. 7. 8. 9. 0. 1. 2. .0. 1. 2. .0. 1. 2. .0. 1. .0. .0. 1. .0. .0. .0.	SUPPLEMENTARY MANAGEMENT INH Operators Labor Earnings Ret. to Capital & Family Lah Non-Farm Income Outside Investment Income Other Personal Income TOTAL NON-FARM INCOME Total Money Borrowed Total Paid on Debt (Principa Total Household & Pers. Expe Ratio Farm Exp. to Farm Rece Ratio Assets to Liabilities Ratio Non-Real Est. Assets - Non-Real Est. Liabilities Ratio Real Estate Assets To Real Estate Liabilities	\$ \$ \$ shl) ense sipt:	ATION 4859 6965 95 1020 1115 4566 4205 4911 5.793 2.937 2.97 2.90	3.104 3.27 2.90	11074 14380 181 463 644 2519 5776 7287 .697 2.458 2.84 2.12	2.938 3.66 2.32	83 2597 37 2186 2223 1503 1743 3809 .994 4.945 3.84 6.71	4.574 3.40 7.09

TABLE 5 - NET WORTH STATEMENT - OPERATOR - 1968

*ADJUSTED TOTAL FARM SALES DOES NOT INCLUDE SALE OF CAPITAL ASSETS

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TAB	LE 64 OPERATORS SHIRE OF CLSH REJEIPTS - 1968		Average of 44 Farms	9 High	S Low
	SALE OF LIVESTOCK AND LIVESTOCK PRODUCTS Dairy Cows Dairy Products Other Dairy Cattle Beef Breeding Cattle Hogs Complete Hogs Finishing Hogs Producing Weaning Pigs Sheep and Wool, Farm Flock Sheep and Wool, Feeder Lambs Chickens (Incl. Hens and Broilers) Turkeys Eggs Other Productive Livestock	\$	1770 12087 1063 378 197 59 13 543 36 20 134	3037 20917 1695 561 221 52 403	1083 6271 591 698 85 827 5 31 348
J.S.V	TOTAL SALES OF PRODUCTIVE LIVESTOCK	\$	16300	26886	9939
13 14 15 16 17 18 19 19A	SALE OF CROPS Corn Soybeans, Flax, Sunflowers Wheat, Oats, Barley, Rye Potatoes, Sugar Beets, Canning, Other Crops Hay, Silage and Other Crops Diverted Acre Payment TOTAL SALES FROM CROPS	A+. \$	4 101 731 B 1 530 134 1501	80 51 2053 2319 44 4547	(-107) 15 4 5 (-191) 202 72-
20 21 22 23 24 25	Capital Assets Sold Gas Tax Refund Income From Work Off the Farm Patronage Refunds Miscellaneous Farm Income TOTAL FARM SALES	\$	57 90 347 87 120 18502	14 119 751 122 44 32483	88 109 461 34 165 10724
26 27 28	Increase in Farm Capital Family Living From the Farm TOTAL FARM RECEIPTS (25)+(26)+(27)	63	3505 371 22378	3722 287 36492	2541 318 135 ⁸ 3
29 30 31	Adjusted Total Farm Sales (25)-(20) Total Cash Farm Operating Expense Net Cash Operating Income	\$	18445 10959 7486	32469 17090 15379	10636 7281 3355

TABI	LE 6B OPERATORS SHARE OF CASH EXPENSES - 1968		Average of 44 Farms	9 High	9 Low
	PURCHASE OF LIVESTOCK Dairy Cows Other Dairy Cattle Beef Breeding Cattle Beef Foeder Cattle Hogs Complete Hogs Finishing Hogs Producing Weaning Pigs Sheep, Farm Flock	\$	209 141 62 135 2 1 18 8	131 51 44 662	50 7 75 41
7B 8 9	Sheep, Feeder Lambs Chickens Turkeys		17		14
10 11 M 12 H 13 H 14 C 15 C 16 C 17 H 18 H 19 C 20 H 23 C 24 C 25 H 26 H	Other Productive Livestock Miscellaneous Livestock Expense Feed Bought Fertilizer Chemicals Other Crop Expense Custom Work Hired Repair + Upkeep of Livestock Equip. Repair + Upkeep of Farm Real Estate Gas, Oil, Grease Bought (farm share) Repair + Oper. Mach., Tractor, Auto, Truck (F Mages of Hired Labor Personal Property + Real Estate Taxes Cash Rent General Farm Expense Telephone Expense (farm share) Electricity Expense (farm share) Interest Expense TOTAL CASH OPERATING EXPENSE	•.S.)	707 2904 789 140 440 897 103 187 808 890 452 377 319 256 65 266 764 10957	1416 4314 1622 251 608 1325 152 369 1006 1439 813 683 184 370 83 345 1222 17090	473 1854 439 71 441 553 52 193 796 909 233 239 108 193 58 213 270 7282
30 I	Power, Crop and General Mach. Bought (farm sh Livestock Equipment Bought New Real Estate + Improvements TOTAL FARM PURCHASES (28) THRU (31)	are)	2066 652 1367 15042	3131 374 1392 21987	2187 675 439 10583
34 I 35 T	Decrease in Farm Capital Interest on Farm Capital Jnpaid Family Labor Board Furnished Hired Labor TOTAL FARH EXPENSE (32) THRU (37)	ţ 3	339 1479 621 41 17522	38 2632 673 88 25418	439 1306 1011 16 13355
	Labor Earnings (Operators Share) (6A/28)-(38) Return to Capital and Family Labor	() ()	4 853 6953	11074 14379	230 2547

EXELATION OF MORE 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 work units values in Table 7 below were changed in 1968 to make this a more realistic measure.

TABLE 7 WORK UNITS FOR CROPS, LIVESTOCK, AND WORK OFF THE FARM*

Item	No. of Work Units	Item	No. of Work Units/Acre
Dairy Cows	7.0/cow	Barley,Wheat,Oats,Rye	.30/acre
Other Dairy Cattle	1.2/head		.30/acre
	,	Canning Peas	
Beef Breeding Cows	1.5/head	Oat Silage	.40/acre
Beef Feeders	.12/cwt.	Canning Corn	.40/acre
Hogs-Complete	.12/cwt.	Corn for Grain	•55/acre
Hogs-Finishing	.06/cwt.	Soybeans	. 45/acre
Hogs-Wean. Pigs	1.4/litter	Corn & Cane Silage	.80/acre
Sheep, Farm Flock	.60/ewe	Alfalfa Hay	.60/acre
Lambs, Feeders	.30/cwt.	0. Leg. & Mix. Hay	.40/acre
Chickens, Lay.Flock	5.0/100	Tame Grass Hay	.20/acre
Broilers	.20/cwt.	Annual Hay	. 30/acre
Turkeys, Lay.Flock	25.0/100	Leg. & Grass Silage	.40/acre
Turkey Poults	.12/cwt.	Legume & Grass Seed	.40/acre
Labor Off the Farm	1.0/\$20	Summer Fallow Tilled	.40/acre
Diverted Acres	.20/acre	Wild Hay	.20/acre

* See page 15 for explanation of change in work unit values.

AVERAGE PRICES OF FEED AND OTHER PRICES USED IN 1968 REPORT

SMALL GRAIN & CORN	PASTURE PER HEAD PER MONTH
Corn \$1.05/Bu. Oats .60/Bu. Soybeans 2.40/Bu. Wheat 1.65/Bu. Rye 1.05/Bu. Barley 1.00/Bu. Flaxseed 3.00/Bu.	Dairy cows, Beef cows \$1.75 Other dairy & beef 1.00 Hogs .20 Pigs .10 Sheep .25 Lambs .12
ROUGHAGES	PRODUCTS USED IN THE HOME
Alf. Hay\$22.00O.Leg. & Nix.18.00Annual & Tame14.00Wild Hay10.00Corn Silage7.00Oats Silage5.00	Whole milk \$.09/qt. Cream .70/qt. Whole milk fed 4.00/cwt. Skimmilk fed .80/cwt. UNPAID FAMILY LABOR
Leg. & Grass Sil. 6.00	Per Day \$7.50

LAND COST used on Table 10 was considered to be the rental value of land on each farm. While this figure varied from farm to farm the normal range was \$7.00 to \$10.00 per acre.

MEASURES OF FARM ORGANIZATION AND EFFICIENCY

The following explanations and definitions are for use in interpreting Table δ on page 16 and the Thermometer Chart on page 17.

1. <u>LABOR EARNINGS</u> - The basis for comparing the relationship between selected farm management factors and farm profit. "Labor Earnings" represents that share of the total farm income that is credited to the operator's labor and management. It is a whole farm figure taking into account all income and expense, cash and non-cash, including a charge for the use of farm capital. Tables 2B and 3 show two methods of determining labor earnings. The operator's share of labor earnings is shown on Table 6B and may be different from Whole Farm Labor Earnings.

2. <u>CROP YIELD INDEX</u> - A measure of the crop yield level for all crops produced. It is expressed as a percentage of the average; the average being 100%.

3. <u>PERCINT OF TILLABLE LAND IN HIGH RETURN CROPS</u> - A measure of crop selection based on a rating of individual crops. Ratings are on Table 9.

4. GROSS RETURN per ACRE - Reflects both crop selection and crop yield.

5. <u>RETURN per \$100 FLED FLD TO PRODUCTIVE LIVESTOCK</u> - A measure of the general level of efficiency for all livestock. It is expressed as a percentage with 100% representing average efficiency.

6. <u>LIVESTOCK UNITS per 100 ACRES</u> - A measure of livestock density or population, particularily important for farms with limited cropland.

7. <u>SIZE OF BUSINESS - WORK UNITS</u> ** - A measure of the total work load. A Work Unit represents the average accomplishment of a worker in one 10-hour day. Work Unit values are assigned to each class of livestock, each crop, and to other tasks utilizing farm labor.

8. WORK UNITS per WORKER - A measure of labor efficiency. It is determined by dividing the work units by the total number of workers.

9. POWER, MACHINERY, EQUIPMENT AND BUILDING EXPENSE per WORK UNIT ** - A measure pense control. It is the total cost of items 24 through 28 in Table 3 winded by the number of Work Units.

10. PARM CAPITAL INVESTMENT PER WORKER - Another indication of size of business.

** WORK UNIT values have been changed this year based on a study by the Department of Agricultural Economics, University of Minnesota. This study was undertaken because of increased mechanization in farming. As an example it reduced the Dairy Cow Work Units from 10 to 7 per cow. In attempting to compare data from this report where Work Units are involved, to reports from prior years, this change in Work Units should be remembered.

- 15 -

TABLE 8 - MEASURES OF FARM ORGANIZATION - 1968	Average of 48 Farms	8 High	8 Low	
 LABOR EARNINGS CROP YIELDS-INDEX PERCENT TILL. LAND IN H.R. CROPS GROSS RETURN PER TILL. ACRE (EXCL. PASTURE) RETURN FOR \$100 TO PROD. LIVESTOCK-INDEX LIVESTOCK UNITS FER 100 ACRES* SIZE OF BUSINESS - WORK UNITS WORK UNITS PER WORKER POWER MACH., EQUIP., BLDG. PER WORK UNIT FARM CAPITAL INVESTMENT PER WORKER 	\$ 46.67 100 23.6 352.4 234.5	123 47.5 61.50 108 32.7 465.0 229.8 14.86	76 48.8 38.39 86 20.6 230.6 193.4 21.29	
 11 INDEX OF RETURN FOR \$100 FEED FROM 12 COMPLETE HOG ENTERPRISE 13 HOG FINISHING ENTERPRISE 14 PRODUCING WEANING PIGS 15 DAIRY CATTLE 16 OTHER DAIRY 17 ALL DAIRY AND DUAL PURPOSE CATTLE 18 BEEF BREEDING CATTLE 19 BEEF FEEDER CATTLE 20 SHEEP FARM FLOCK 21 FEEDER LAMBS 22 CHICKENS-LAYING FLOCK 23 CHICKENS-BROILERS 24 TURKEYS-LAYING FLOCK 25 TURKEY-POULTS 26 OTHER PRODUCTIVE LIVESTOCK 	101 101 102 100 101 101 100	107 121 109	93	
27 NUMBER OF ANIMAL UNITS	55.2	72.5	40.9	
28 WORK UNITS 29 CROPS 30 PRODUCTIVE LIVESTOCK 31 OTHER PRODUCTIVE WORK UNITS		114.3 332.6 18.1	168.8	
 EXPENSES PER WORK UNIT TRACTOR AND CROP MACHINERY EXPENSE FARM SHARE OF AUTO AND TRUCK EXPENSE FARM SHARE OF ELECTRICITY EXPENSE LIVESTOCK EQUIPMENT EXPENSE BUILDING, FENCING, AND TILING EXPENSE TRACTOR AND CROP MACH. EXPENSE PER CROP ACRE** 		3.31 .77 1.37 3.81	1.09 1.02 3.10	

39 *ACRES INCLUDE ALL TILLABLE LAND, NON-TILLABLE HAY AND PASTURE

40 **ACRES INCLUDE ALL TILLABLE LAND PLUS ACRES IN WILD HAY

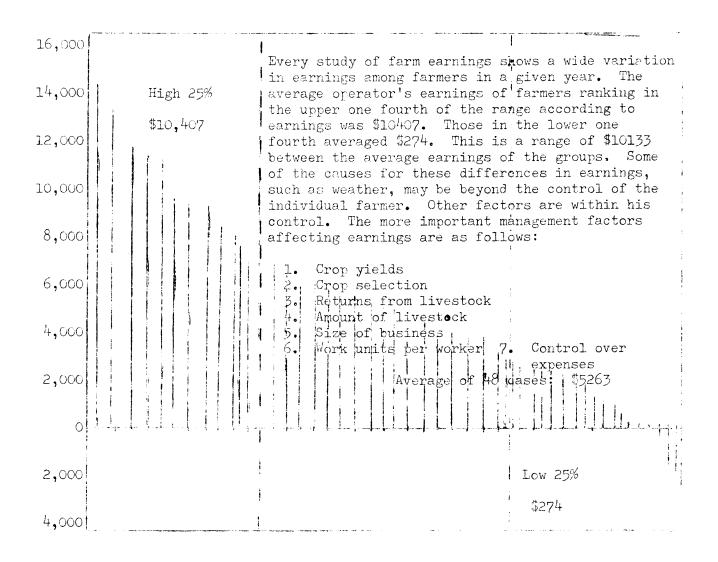
THERMOMETER CHART

Using your figures from Table 8, 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.

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	Labo: earn- ings		Crop ield	s	High Ret. Crop	fr du	turn om P ctiv vest	ro- e	Pr.L unit per 100	ts ŀ I	Jork Jnits	pe	its	B. per		Invest ment k per Worken	
\$20,000		180		82		180		48		720	Į,	450		3.00		63,000	
18,000	[]	170		78		170		45		670		420		4.50		58,500	
16,000		160		74		160		42		620		-390		6.00		54,000	
14,000		150	L	70		150	<u> </u>	39		570		360		7.50		49,500	
12,000		140		66		140		36		520		330		9.00		45,000	
10,000		130		62		130	Ì	33		470		300		10.50		40,500	
8,000		120	ļ	58		120		30		420		270		12.00		36,000	
<u>6,000</u>		110_		<u>5</u> 4_		110		27		370		240		13.50	<u> </u>	31,500	
5,263		100		<u>50</u>	· · · · · · · · · · · · · · · · · · ·	100		24		<u>352</u>		234		14.74		28,682	
4,000		90		46		90		21		320		210		15.00		27,000	
2,000		80		42		80		18		270		180		16.50		22,500	
0		70		38		70		15		220		150		18.00		18,000	
-2,000		60		34		60		12		170		120		19.50		13,500	
-4,000		50		30		50		9		120		90		21.00		9,000	
-6,000		- 40		26		40		6		70		60		22.50		4,500	
-8,000		30		22		30		3		20		30		24.00) o	

RANGE IN LABOR EARNINGS



Each line represents the labor earnings of one farm with a total of 48 farms in all.

- 18 -

The thermometer chart shows eight major management factors that influence farm earnings within a given year. These eight factors are:

- 1. Crop yields
- 2. Crop selection
- 3. Returns from livestock
- 4. Amount of livestock
- 5. Size of business
- 6. Work units per worker
- 7. Control over power & machinery expenses
- 8. Farm Capital Investment Per Worker

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

No. of Facors in which farmers excelled	No. of farms	0 1000 2000 3000 4000 5000 6000 7000 8000
0 or 1	4	652
2 or 3	17	3873
4 or 5	16	5941
6 or 7	11	8100

This table should be studied along with the tables on <u>Measures of Farm</u> <u>Organization and Management Efficiency</u> and the <u>Thermometer Chart</u>. The importance of these three tables to determine the financial "heart beat" of a farm operation cannot be over emphasized.

PAST FIVE (5) YEARS AVERAGE OF LABOR EARNINGS CORRELATED WITH EXCELLED FACTORS 1963-1967

No. of Facotrs in which farmers	Total No. of farms	LABOR EARNINGS								
excelled		0 1000 2000 3000 4000 5000 6000 7000 8000								
0 or 1	87	<u>*621 (</u>								
2 or 3	192	2079								
4 or 5	393	3342]								
6 or 7	55	44491								

TABLE 9 - CROP PRODUCTION - 1968

	Crop Rating	Number Growing	Acres	Yield Per Acre
1 Oats and Mixtures	C	40	31.4	53.2 Bu.
2 Oats Silage	В	4	1.6	5.01.
3 Canning Peas		_		,
4 Wheat	С	8	6.6	24.2 Bu.
5 Barley	С	2	1.6	33.1 Bu.
6 Flax	С	2	1.9	8.4 Fu.
7 Rye				
8 TOTAL SMALL GRAIN AND PEAS			43.1	
9 Canning Corn				6 0
10 Corn Grain and Seed Corn	B/D	28	14.8	68.0 Bu.
ll Soybeans-Grain	С	3	1.9	6.3 Bu.
12 Corn and Cane Silage	В	36	22.4	8.8 T.
13 Corn and Cane Fodder				
14 Potatoes				
15 Sugar Beets				
16 Sunflowers				
17 Other Cultivated Crops - A				
18 Other Cultivated Crops - B				
19 TOTAL CULTIVATED CROPS			45.7	
20 Alfalfa Hay	А	28	30.9	2.5 T.
21 Other Legume Hay and Mixtures	В	24	35•7	1.9 T.
22 Tame Grass Hay	C	9	5•7	•9 T•
23 Annual Hay	D	4	• 4	
24 Legume and Grass Silage				6
25 Legume Seed	D	3	9.9	276.7 Lbs.
26 Grass Seed	D	. 3	3•9	493.1 lbs.
27 TOTAL HAY			87.3	
28 Alfalfa and Mixed Pasture			2.2	
29 Other Legume Pasture			•9	
30 Other Tillable Pasture			17.1	
51 TOTAL TILLABLE PASTURE			20.2	
32 Diverted Acres Income	A	10	6.5	31.38
33 Summer Fallow - Tilled			6.1	
34 Other Tillable Land			•4	
35 TOTAL TILLABLE LAND			209.3	70
36 Wild Hay			5.7	• 35
37 Non-Tillable Pasture			71.8	<i>m</i> 1,
38 Timber			55•7	•74
39 Roads and Waste			34.4	
40 Farmstead			6.4	
41 TOTAL ACRES IN FARM			383•3	
42 SUPPLEMENTARY MANAGEMENT INFOR	MATION			54.6
43 Percent Land Tillable				54.0 46.8
44 Percent in High Return Crops				40.0
45 *Fertilizer Cost Per Acre				
46 *Crop Chemicals Per Acre				•79
47 *Seed and Other Costs Per Acre				2.37
48 *Gas, Oil, Grease Bought Per Ad	cre			2.87

49 *Tillable Land Minus Pasture

	High in			Low in			
	Crop	Labo	or Earnings		or Earnings		
1 Oats and Mixtures	<u>Rating</u> C	$\frac{\text{Acres } F}{37.8}$	verage Yield		Average Yield		
2 Oats Silage	B	57.0	73.7 Bu.		53.2 Bu.		
3 Canning Peas	Ľ			6.9	3.3 T.		
4 Wheat	С	13.6	20 2 5.	0.1			
5 Barley	C	TO O	29.3 Bu.	2.1	16.7 Bu.		
6 Flax	C	2.5	0 0 0.				
7 Rye	C	2.5	9.2 Bu.				
8 TOTAL SMALL GRAIN & PEAS	Ũ	53,9		37.6			
9 Canning Corn							
10 Corn Grain and Seed Corn	B/D	28.6	82.9 Bu.	2.0	75.0 Bu.		
11 Soybeans-Grain	С						
12 Corn and Cane Silage 13 Corn and Cane Fodder	В	35.9	9.2 T.	13.5	5.0 T.		
14 Potatoes	D						
15 Sugar Beets				.3			
15 Sugar Beets 16 Sunflowers							
				1.1			
17 Other Cultivated Crops $-A$.1			
18 Other Cultivated Crops - B 19 TOTAL CHLTIVATED CROPS							
19 TOTAL CULTIVATED CROPS 20 Alfalfa Hay		64.5		17.0			
2) Other Logure Has 6 Miles	A	19.0	2.6 T.	41.1	2.6 T.		
21 Other Legume Hay & Mixtures 22 Tame Grass Hay	B	38.8	2.9 T.	14.8	1.6 T.		
23 Annual Hay	С	• 4	2.5 T.	.3	3.3 T.		
24 Legume and Grass Silage	D	• 3	З.З Т.	.3			
25 Legume Seed							
26 G r ass Seed	D	38.8	240.2 Lbs.		48.5 Lbs.		
7 TOTAL HAY	D	10.3	998.9 Lbs.	4.4			
8 Alfalfa & Mixed Pasture	0	107.6		62.2			
9 Other Legume Pasture	A			.8			
0 Other Tillable Pasture	B			2.9			
1 TOTAL TILLABLE PASTURES	D	2.5		26.1			
2 Diverted Acres Income	6	2.5		29.8			
3 Summer Fallow - Tilled	A			2.0 \$	27.50		
4 Other Tillable Land Idle	С	16.0		1.6			
5 TOTAL TILLABLE LAND		.5					
5 Wild Hay		245.0		150.2			
7 Non-Tillable Land		2.8		• 8			
B Timber		74.9		80.1			
P Roads and Waste		7.8		83.9 \$	1.26		
) Farmstead		40.8		19.9			
L TOTAL ACRES IN FARM		4.8		6.0			
		376.1		340.9			
2 SUPPLEMENTARY MANAGEMENT INFO	RMATION						
Percent Land Tillable			65.2		44.0		
Percent in High Return Crops			36.0		48.0		
*Fertilizer Cost Per Acre			7.05		2.60		
*Crop Chemicals Per Acre			1.10		.18		
*Seed and Other Costs Per Acr	é		2.60		3.27		
Gas, Oil, Grease Bought Per	Acre		2.69		2.83		

TABLE 9 (continued)

49 *Tillable Land Minus Pasture

- 21 -

	OATS AND MIXTURES - 40 F.	RMS	TOTIL	FER J.CRE
].	Acres		37.6	
	Yield/Acre			53.3
	Value/Unit			.60
	Gross Return		1259.60	33.50
	SUPPLEMENTAL COSTS			
	Fertilizer			1.76
	Chemicals Seed and Other			.13 2,58
	Hired Labor			2.90
	Custom Work			.27
	TOTAL SUPPLEMENTAL COSTS		178.22	4.74
	RETURN OVER SUPFLEMENTAL COSTS		1081.38	28.76
	ALLOCATED COSTS Power and Crop Machinery Expense			6.96
	Land Cost			7.15
	Miscellaneous Costs			ر ـــ • ،
	TOTAL ALLOCATED COSTS		530.54	14.11
		Per Unit		0.0
	TOTAL COSTS	• 35	708.76	18.85
	RETURN OVER TOTAL COSTS		550.84	14.65
	RETURN OVER TOTAL COSTS BLE 10 - CROP DATA FOR WHEAT - 1968	8 FARMS	550.84	14.65
<u>A]</u>	BLE 10 - CROP DATA FOR WHEAT - 1968	8 FARMS		14.65
A	BLE 10 - CROP DATA FOR WHEAT - 1968 Acres	8 FARMS	550.84 39.5	
Al	BLE 10 - CROP DATA FOR WHEAT - 1968	8 FARMS		24.3
Al	BLE 10 - CROP DATA FOR WHEAT - 1968 Acres Yield/Acre	8 FARMS		24.3 1.65
<u>A</u>]	BLE 10 - CROP DATA FOR WHEAT - 1968 Acres Yield/Acre Value/Unit	8 FARMS	39.5	24.3 1.65
	BLE 10 - CROP DATA FOR WHEAT - 1968 Acres Yield/Acre Value/Unit Gross Return SUPPLEMENTAL COSTS Fertilizer	8 FARMS	39.5	24.3 1.65 35.89 4.99
Al	BLE 10 - CROP DATA FOR WHEAT - 1968 Acres Yield/Acre Value/Unit Gross Return SUPPLEMENTAL COSTS Fertilizer Chemicals	8 FARMS	39.5	24.3 1.65 35.89 4.99 .28
<u>A</u>]	BLE 10 - CROP DATA FOR WHEAT - 1968 Acres Yield/Acre Value/Unit Gross Return SUPPLEMENTAL COSTS Fertilizer Chemicals Seed and Other	8 FARMS	39.5	24.3 1.65 35.89 4.99 .28
Al	BLE 10 - CROP DATA FOR WHEAT - 1968 Acres Yield/Acre Value/Unit Gross Return SUPPLEMENTAL COSTS Fertilizer Chemicals Seed and Other Hired Labor	8 FARMS	39.5	24.3 1.65 35.89 4.99 .28 2.58
<u>A</u>]	BLE 10 - CROP DATA FOR WHEAT - 1968 Acres Yield/Acre Value/Unit Gross Return SUPPLEMENTAL COSTS Fertilizer Chemicals Seed and Other Hired Labor Custom Work	8 FARMS	39.5 1417.66	24.3 1.65 35.89 4.99 .28 2.58 .15
Al	BLE 10 - CROP DATA FOR WHEAT - 1968 Acres Yield/Acre Value/Unit Gross Return SUPPLEMENTAL COSTS Fertilizer Chemicals Seed and Other Hired Labor	8 FARMS	39.5	24.3 1.65 35.89 4.99 .28 2.58 .15 8.00
<u>A1</u>	BLE 10 - CROP DATA FOR WHEAT - 1968 Acres Yield/Acre Value/Unit Gross Return SUPPLEMENTAL COSTS Fertilizer Chemicals Seed and Other Hired Labor Custom Work TOTAL SUPPLEMENTAL COSTS RETURN OVER SUPPLEMENTAL COSTS ALLOCATED COSTS	8 FARMS	39.5 1417.66 316.00	24.3 1.65 35.89 4.99 .28 2.58 .15 8.00 27.89
	BLE 10 - CROP DATA FOR WHEAT - 1968 Acres Yield/Acre Value/Unit Gross Return SUPPLEMENTAL COSTS Fertilizer Chemicals Seed and Other Hired Labor Custom Work TOTAL SUPPLEMENTAL COSTS RETURN OVER SUPPLEMENTAL COSTS ALLOCATED COSTS Power and Crop Machinery Expense	8 FARMS	39.5 1417.66 316.00	24.3 1.65 35.89 4.99 .28 2.58 .15 8.00 27.89 6.96
<u>A1</u>	BLE 10 - CROP DATA FOR WHEAT - 1968 Acres Yield/Acre Value/Unit Gross Return SUPPLEMENTAL COSTS Fertilizer Chemicals Seed and Other Hired Labor Custom Work TOTAL SUPPLEMENTAL COSTS RETURN OVER SUPPLEMENTAL COSTS ALLOCATED COSTS Power and Crop Machinery Expense Land Cost	8 FARMS	39.5 1417.66 316.00	24.3 1.65 35.89 4.99 .28 2.58 .15 8.00 27.89 6.96
<u>A</u>]	BLE 10 - CROP DATA FOR WHEAT - 1968 Acres Yield/Acre Value/Unit Gross Return SUPPLEMENTAL COSTS Fertilizer Chemicals Seed and Other Hired Labor Custom Work TOTAL SUPPLEMENTAL COSTS RETURN OVER SUPPLEMENTAL COSTS RETURN OVER SUPPLEMENTAL COSTS ALLOCATED COSTS Power and Crop Machinery Expense Land Cost Miscellaneous Costs	8 FARMS	39.5 1417.66 316.00 1101.66	1.65 35.89 4.99 .28 2.58 .15 8.00 27.89 6.96 6.96
<u>A</u>]	BLE 10 - CROP DATA FOR WHEAT - 1968 Acres Yield/Acre Value/Unit Gross Return SUPPLEMENTAL COSTS Fertilizer Chemicals Seed and Other Hired Labor Custom Work TOTAL SUPPLEMENTAL COSTS RETURN OVER SUPPLEMENTAL COSTS ALLOCATED COSTS Power and Crop Machinery Expense Land Cost	8 FARMS Per Unit	39.5 1417.66 316.00	24.3 1.65 35.89 4.99 .28 2.58 .15 8.00 27.89 6.96
<u>A</u>]	BLE 10 - CROP DATA FOR WHEAT - 1968 Acres Yield/Acre Value/Unit Gross Return SUPPLEMENTAL COSTS Fertilizer Chemicals Seed and Other Hired Labor Custom Work TOTAL SUPPLEMENTAL COSTS RETURN OVER SUPPLEMENTAL COSTS RETURN OVER SUPPLEMENTAL COSTS ALLOCATED COSTS Power and Crop Machinery Expense Land Cost Miscellaneous Costs		39.5 1417.66 316.00 1101.66	24.3 1.65 35.89 4.99 .28 2.58 .15 8.00 27.89 6.96 6.96

TABLE	10	_	RETURMS	AFOVE	ALL	COSTS	FER	Ā.	ОN	CROFS	_	1968

			TOTAL	PER ACRE
1 2	Acres Yield/Acre		53.0	2.5
3 4	Value/Unit Gross Return		2868.36	21.57 54.12
5 6	SUPFLEMENTAL COSTS Fertilizer			2.66
7 3 9	Chemicals Seed and Other Hired Labor			2.72
10 11 12	Custom Work TGTAL SUPILEMENTAL COSTS RETURN OVER SUPILEMENTAL COSTS		310.05 2558.31	.47 5.85 48.27
13 14 15 16	ALLCCATED COSTS Power and Crop Machinery Expense Land Cost Miscellaneous Costs			13.92 9.06
17	TOTAL ALLOCATED COSTS	Per Unit	1217.94	22.98
18 19	TOTAL COSTS RETURN OVER TOTAL COSTS	11.58	1527.99 1340.37	28.83 25.29
TA	BLE 10 CROP DATA FOR CORN AND CANE S	ILAGE - 1968	36 Farn	15
1 2	Acres Yield/Acre		29.9	8.8 7.00
3 4	Value/Unit Gross Return		1865.16	62.38
5 6 7 8	SUPPLEMENTAL COSTS Fertilizer Chemicals Seed and Other			9.13 2.88 3.11
9 10 11 12	Hired Labor Custom Work TOTAL SUPPLEMENTAL COSTS RETURN OVER SUPPLEMENTAL COSTS		515.18 1349.98	2.11 17.23 45.15
13 14 15	ALLOCATED COSTS Power and Crop Machinery Expense Land Cost Miscellaneous Costs			18.56 9.50
16 17	TOTAL ALLOCATED COSES	Pər Unit	838,99	28.06
18 19	TOTAL COSTS RETURN OVER TOTAL COSTS	-23-	1354.17 510.99	45.29 17.09

T. BLT 10 CROP DATA FOR ALFALFA HAY - 1968 ---- 28 Farms

	PLE 10 CROP DATA FOR OTHER LEGUM		TOTAL		
			10171	CEN ACIE	
1	Acres		- - - -	na a ramana na shekara ngana ka nganar nganan kata na fanganan ngana na sana na sana na sana na sana na sana na	
	Yield/Acre		71.5		
	Value/Unit			1.9	
				17.83	
4	Gross Return		2651.94	37.09	
5	SUPPLEMENTAL COSTS				
6	Fertilizer			1.51	
7	Chemicals			1 • 1 th	
8	Seed and Other			2.00	
	Hired Labor			2.00	
	Custom Work				
	TOTAL SUPPLEMENTAL COSTS			.08	
	REPRISE OVER CUDE EMENIAL COSTS		256.69	- / /	
чĊ	RETURN OVER SUPPLEMENTAL COSTS		2395.25	33.50	
	ALLOCATED COSTS				
14	Power and Crop Machinery Exper	ise		9.28	
15	Land Cost			8.71	
16	Miscellan éo us Costs			0.11	
17	TOTAL ALLOCATED COSTS]286.29		
•		Per Unit]200.29	17.99	
8	TOTAL COSTS				
		11.26		21.58	
		11.26		15.51	
L9	RETURN OVER TOTAL COSTS		1108.96	15.51	
.9			1108.96 1968	15.51	
9	RETURN OVER TOTAL COSTS		1108.96 1968	15.51	
L9 <u>'A</u> E	RETURN OVER TOTAL COSTS		1108.96 1968	15.51	
L9 <u>'A</u> E	RETURN OVER TOTAL COSTS BLE 10 CROP DATA FOR TAME GRASS H Acres		1108.96 1968	15.51	
.9 'AE	RETURN OVER TOTAL COSTS BLE 10 CROP DATA FOR TAME GRASS H Acres Yield/Acre		1108.96 - 1968 TOTAL	15.51	
-9 "AF	RETURN OVER TOTAL COSTS BLE 10 CROP DATA FOR TAME GRASS H Acres Yield/Acre Value/Unit		1108.96 - 1968 TOTAL	15.51 MS PER ACRE .8	
-9 "AF	RETURN OVER TOTAL COSTS BLE 10 CROP DATA FOR TAME GRASS H Acres Yield/Acre		1108.96 <u>1968</u> TOTAL 30.2	15.51 MS PER ACRE .8 14.00	
L9 [AF	RETURN OVER TOTAL COSTS BLE 10 CROP DATA FOR TAME GRASS E Acros Yield/Acre Value/Unit Gross Return		1108.96 - 1968 TOTAL	15.51 MS PER ACRE .8	
L9 [AF	RETURN OVER TOTAL COSTS BLE 10 CROP DATA FOR TAME GRASS E Acros Yield/Acre Value/Unit Gross Return		1108.96 <u>1968</u> TOTAL 30.2	15.51 MS PER ACRE .8 14.00	
L9 <u>'AE</u>	RETURN OVER TOTAL COSTS BLE 10 CROP DATA FOR TAME GRASS H Acres Yield/Acre Value/Unit		1108.96 <u>1968</u> TOTAL 30.2	15.51 MS PER ACRE .8 14.00 15.82	
L9 <u>TAF</u>	RETURN OVER TOTAL COSTS BLE 10 CROP DATA FOR TAME GRASS H Acres Yield/Acre Value/Unit Gross Return SUPPLEMENTAL COSTS Fortilizer		1108.96 <u>1968</u> TOTAL 30.2	15.51 MS PER ACRE .8 14.00	
L9 TAF	RETURN OVER TOTAL COSTS BLE 10 CROP DATA FOR TAME GRASS IN Acres Yield/Acre Value/Unit Gross Return SUPPLEMENTAL COSTS Fortilizer Chemicals		1108.96 <u>1968</u> TOTAL 30.2	15.51 MS PER ACRE .8 14.00 15.82 .60	
19 CAF	RETURN OVER TOTAL COSTS BLE 10 CROP DATA FOR TAME GRASS H Acres Yield/Acre Value/Unit Gross Return SUPPLEMENTAL COSTS Fertilizer Chemicals Seed and Other		1108.96 <u>1968</u> TOTAL 30.2	15.51 MS PER ACRE .8 14.00 15.82	
L9 "AF	RETURN OVER TOTAL COSTS BLE 10 CROP DATA FOR TAME GRASS H Acres Yield/Acre Value/Unit Gross Return SUPPLEMENTAL COSTS Fortilizer Chemicals Seed and Other Hired Labor		1108.96 <u>1968</u> TOTAL 30.2	15.51 MS PER ACRE .8 14.00 15.82 .60 .66	
L9 TAE	RETURN OVER TOTAL COSTS BLE 10 CROP DATA FOR TAME GRASS H Acres Yield/Acre Value/Unit Gross Return SUPPLEMENTAL COSTS Fortilizer Chemicals Seed and Other Hired Labor Custom Work		1108.96 - 1968 TOTAL 30.2 477.76	15.51 MS PER ACRE .8 14.00 15.82 .60 .66 .36	
0 1	RETURN OVER TOTAL COSTS BLE 10 CROP DATA FOR TAME GRASS H Acres Yield/Acre Value/Unit Gross Return SUPPLEMENTAL COSTS Fortilizer Chemicals Seed and Other Hired Labor Custom Work TOTAL SUPPLEMENTAL COSTS		1108.96 - 1968 TOTAL 30.2 477.76	15.51 MS PER ACRE .8 14.00 15.82 .60 .66 .36 1.62	
.9 'AF	RETURN OVER TOTAL COSTS BLE 10 CROP DATA FOR TAME GRASS H Acres Yield/Acre Value/Unit Gross Return SUPPLEMENTAL COSTS Fortilizer Chemicals Seed and Other Hired Labor Custom Work		1108.96 - 1968 TOTAL 30.2 477.76	15.51 MS PER ACRE .8 14.00 15.82 .60 .66 .36	
0 12	RETURN OVER TOTAL COSTS BLE 10 CROP DATA FOR TAME GRASS H Acres Yield/Acre Value/Unit Gross Return SUPPLEMENTAL COSTS Fortilizer Chemicals Seed and Other Hired Labor Custom Work TOTAL SUPPLEMENTAL COSTS RETURN OVER SUPPLEMENTAL COSTS		1108.96 - 1968 TOTAL 30.2 477.76	15.51 MS PER ACRE .8 14.00 15.82 .60 .66 .36 1.62	
19 TAE 0 1 2 3	RETURN OVER TOTAL COSTS BLE 10 CROP DATA FOR TAME GRASS H Acres Yield/Acre Value/Unit Gross Return SUPPLEMENTAL COSTS Fortilizer Chemicals Seed and Other Hired Labor Custom Work TOTAL SUPPLEMENTAL COSTS RETURN OVER SUPPLEMENTAL COSTS ALLQCATED COSTS		1108.96 - 1968 TOTAL 30.2 477.76	15.51 MS PER ACRE .8 14.00 15.82 .60 .60 .66 .36 1.62 14.20	
19 TAE 0 1 2 3	RETURN OVER TOTAL COSTS BLE 10 CROP DATA FOR TAME GRASS H Acres Yield/Acre Value/Unit Gross Return SUPPLEMENTAL COSTS Fortilizer Chemicals Seed and Other Hired Labor Custom Work TOTAL SUPPLEMENTAL COSTS RETURN OVER SUPPLEMENTAL COSTS ALLQCATED COSTS Power and Crop Machinery Expense		1108.96 - 1968 TOTAL 30.2 477.76	15.51 MS PER ACRE .8 14.00 15.82 .60 .60 .66 .36 1.62 14.20 4.64	
L9 TAT 0 1 2 3 4 5	RETURN OVER TOTAL COSTS BLE 10 CROP DATA FOR TAME GRASS H Acres Yield/Acre Value/Unit Gross Return SUPPLEMENTAL COSTS Fortilizer Chemicals Seed and Other Hired Labor Custom Work TOTAL SUPPLEMENTAL COSTS RETURN OVER SUPPLEMENTAL COSTS RETURN OVER SUPPLEMENTAL COSTS ALLQCATED COSTS Power and Crop Machinery Expension		1108.96 - 1968 TOTAL 30.2 477.76	15.51 MS PER ACRE .8 14.00 15.82 .60 .60 .66 .36 1.62 14.20	
CAE 0 12 34 56	RETURN OVER TOTAL COSTS BLE 10 CROP DATA FOR TAME GRASS H Acres Yield/Acre Value/Unit Gross Return SUPPLEMENTAL COSTS Fortilizer Chemicals Seed and Other Hired Labor Custom Work TOTAL SUPPLEMENTAL COSTS RETURN OVER SUPPLEMENTAL COSTS ALLQCATED COSTS Power and Crop Machinery Expension Land Cost Mis~ellaneous Costs		1108.96 - 1968 TOTAL 30.2 477.76 48.92 428.84	15.51 MS PER ACRE .8 14.00 15.82 .60 .60 .66 .36 1.62 14.20 4.64	
CAF 0 12 34 5	RETURN OVER TOTAL COSTS BLE 10 CROP DATA FOR TAME GRASS H Acres Yield/Acre Value/Unit Gross Return SUPPLEMENTAL COSTS Fortilizer Chemicals Seed and Other Hired Labor Custom Work TOTAL SUPPLEMENTAL COSTS RETURN OVER SUPPLEMENTAL COSTS RETURN OVER SUPPLEMENTAL COSTS ALLQCATED COSTS Power and Crop Machinery Expension Land Cost Miscellaneous Costs TOTAL ALLOCATED COSTS	se	1108.96 - 1968 TOTAL 30.2 477.76	15.51 MS PER ACRE .8 14.00 15.82 .60 .60 .66 .36 1.62 14.20 4.64	
L2 CAE 0 12 34 56 7	RETURN OVER TOTAL COSTS BLE 10 CROP DATA FOR TAME GRASS H Acres Yield/Acre Value/Unit Gross Return SUPPLEMENTAL COSTS Fertilizer Chemicals Seed and Other Hired Labor Custom Work TOTAL SUPPLEMENTAL COSTS RETURN OVER SUPPLEMENTAL COSTS RETURN OVER SUPPLEMENTAL COSTS ALLQCATED COSTS Power and Crop Machinery Expension Land Cost Miscellaneous Costs TOTAL ALLOCATED COSTS		1108.96 - 1968 TOTAL 30.2 477.76 48.92 428.84	15.51 MS PER ACRE .8 14.00 15.82 .60 .66 .36 1.62 14.20 4.64 6.89	
CAE 0 1 2 3 4 5 6	RETURN OVER TOTAL COSTS BLE 10 CROP DATA FOR TAME GRASS H Acres Yield/Acre Value/Unit Gross Return SUPPLEMENTAL COSTS Fortilizer Chemicals Seed and Other Hired Labor Custom Work TOTAL SUPPLEMENTAL COSTS RETURN OVER SUPPLEMENTAL COSTS RETURN OVER SUPPLEMENTAL COSTS ALLQCATED COSTS Power and Crop Machinery Expension Land Cost Miscellaneous Costs TOTAL ALLOCATED COSTS	se	1108.96 - 1968 TOTAL 30.2 477.76 48.92 428.84	15.51 MS PER ACRE .8 14.00 15.82 .60 .66 .36 1.62 14.20 4.64 6.89	

.			TOTAL	PER ACRE
1,	Acres		25.3	<u> </u>
2,				68.2
3.				1.05
4.	Gross Return		1761.39	
5.	SUPPLEMENTAL COSTS			
6.	Fertilizer			10.67
7.	Chemicals			3.72
8.	Seed and Other			3.99
9.	Hired Labor			
10.	Custom Work			.91
11,	TOTAL SUIPL.MENTAL COSTS		488.04	
12.	RETURN OVER SUPPLIMENTAL COSTS		1273.35	
13.	ALLOCATED COSTS			
14.	Power and Crop Machinery Expense			12.76
15.	Land Cost			10.79
16.	Miscellaneous Costs		0	
17.	TOTAL ALLOCATED COSTS		595.82	23.55
		FER UNIT		
18.	TOTAL COSTS	.63	1083.86	
19.	RETURN OVER TOTAL COSTS		677.53	26.78
1.	Acres Yield/Unit		38 . 5	32•7
3.	Value/Unit			1.00
4.	Gross Return		1411.03	36.65
5.	SUPPLEMENTAL COSTS			
6.				5.51
7.	Chemicals			. 47
8.	Seed and Other			1.51
9.	Hired Labor			
10.	Custom Work			.05
11.	TOTAL SUPPLIMENTAL COSTS		290.29	
12.	RETURN OVER SUPPLEMENTAL COSTS		1120.74	29.11
13.	ALLOCATED COSTS			
14.	Power and Crop Machinery Expense			6.96
15.	Land Cost			6.75
16.	Miscellaneous Costs			- • (2
17.	TOTAL ALLOCATED COSTS		527.84	13.71
I •		PER UNIT		
18.	TCTAL COSTS	.65	818.13	21.25
19.	RETURN OVER TOTAL COSTS	• • • /	592.90	15.40
-/*	مساعية مريحا المراجع والمريح		2700	

TABLE 10 CROP DATA FOR CONN FOR GRAIN - 1968 ---- 28 Farms

.

TABLE 19 CROP DATA FOR ANNUAL HAY - 1968 4 Farms

			TOTAL	PER ACRE
1	Acre		4.3	
2	Yield/Acre			1.4
3	Value/Unit			12.00
4	Gross Return		74.82	17.40
5	SUPPLEMENTAL COSTS			
6	Fertilizer			
7 8	Chemicals			
	Seed and Other			•93
. 9	Hired Labor			
10	Custom Work			
11 12	TOTAL SUPPLEMENTAL COSTS		4.00	•93
14	RETURN OVER SUPPLEMENTAL COSTS		70.82	16.47
13	ALLOCATED COSTS			
14	Power and Crop Machinery Expense			6.96
15	Land Cost			11.40
16	Miscellaneous Costs			
17	TOTAL ALLOCATED COSTS		78.95	18.36
18		Per Unit	0.5.5.5	
10	TOTAL COSES	13.83	82.95	19.29
エフ	RETURN OVER TOTAL COSTS		(-8.13)	(-1.89)

TABLE 10 CROP DATA FOR OATS SILAGE - 1968 4 Farms

			TOTAL	PER ACRE
1	Acres		19.3	*****
2	Yield/Acre		-/-/	4.8
3	Value/Unit			5.00
4	Gross Return		636.90	33.00
5	SUPPLEMENTAL COSES			
6	Fertilizer			
7	Chemicals			
8	Seed and Other			2.38
9	Hired Labor			
10	Custom Work			
11	TOTAL SUPPLEMENTAL COSTS		45.93	2.38
12	RETURN OVER SU. PLEMENTAL COSTS		590.97	30.62
13	ALLOCATED COSTS			
14	Power and Crop Machinery Expense			9.28
15	Land Cost			5.44
16	Miscellaneous Costs			
17	TOTAL ALLOCATED COSTS	Per Unit	284.10	14.72
18	TOTAL COSTS	3.55	330.03	17.10
19	RETURN OVER FOT L COSTS	~ ~ //	(306.87)	(15.90

	TOTAL	PER ACRE
L Acres	27.4	
2 Yield/Acre		35.80
3 Value/Unit		1.00
Gross Return	1041.75	38.02
5 SUPPLEMENTAL COSTS		
5 Fertilizer Chemicals 8 Seed and Other		•29
Seed and Other		•04
Hired Labor		
) <u>Custom Work</u>	10 11	•04
TOTAL SUPPLEMENTAL COSTS	10.14	• 37
RETURN OVER SUPPLEMENTAL COSTS	1031.61	37.65
3 ALLOCATED COSTS Power and Crop Machinery Expense		4.64
5 Land Cost		9.42
6 Miscellaneous Costs		
7 TOTAL ALLOCATED COSTS	385.24	14.06
Per Un 3 TOTAL COSTS •4		14.43
•	0 395.38 646.37	23.59
RETURN OVER TOTAL COSTS	040.77	
TABLE 10 CROP DATA FOR SOYBEANS-GRAIN - 1968	General Starms	
	TOTAL	PER ACRE
Acres	29.7	()
2 Yield/Acre		6.2
3 Value/Unit		2.40
Gross Return	465.70	15.68
5 SUPPLEMENTAL COSTS		
Fertilizer		
Chemicals		
Seed and Other		2.32
Hired Labor		
Custom Work		
TOTAL SUPPLEMENTAL COSTS	68.90	2.32
RETURN OVER SUPPLEMENTAL COSTS	396.80	13.36
ALLOCATED COSTS		
Power and Crop Machinery Expense		10.44
Land Cost		6.46
Miscellaneous Costs		
TOTAL ALLOCATED COSTS	501.93	16.90
Per Un		10.00
TOTAL COSTS 3.0 RETURN OVER TOTAL COSTS	9 570.83 (-105.13)	19.22 (-3.54)
DENTION AVED JOAT AVED	(_1()5 (3)	

TABLE 10 CROP DATA FOR DIVERTED ACRES - 1968 ----- 10 Farms

<i>1'F</i>	ABLE 11C - COSTS AND RETURNS FR.I.	PRODUCIA	<u>IG MEANENG</u>	_PIGS - 1968	
		Average	e 7 Farms	2 High	2 Low
		Herd	Per	Herd Per	Herd Per
		Total	Litter	Total Litter	Total Litter
1	Number of Litters Farrowed	29		44	26
2	Total Value Produced		106.41	4262 96.86	2447 94.12
3 4	Pounds of Feed Fed				
	Corn		573,0	105.0	607.8
5	Small Grain		666.3	110.9	1007.4
5 6	Protein, Salt and Mineral		173.4	±±000	676.2
7	Complete Ration		731.0	1136.4	569.2
8	TOTAL CONCLIMINATES		2143.7	1352.3	2860.6
Ċ,	TOTAL CONCENTRATES		$\mathcal{L}^{+}\mathcal{I}^{+}\mathcal{I}^{+}\mathcal{I}^{+}$	L)/(-)	2000-0
9	Forages				
/	1010665				
10	Feed Cost				
11	Concentrates and Forages		59.17	52.05	60.35
12	Pasture		•67	JC•0)	• 56
13	TOTAL FEED COSTS	\$ 1735	•07 59•84	2290 52.05	1584 60.91
±)	IOLAH FERD COSTS	¢ ±700	29.04	2290 92.0)	1.)0+ 00.91
14	RETURN OVER FEED COST	1351	46.57	1972 44.31	863 33.21
± ,	HEIOHN OVIM FEID 0001		40.07	1974 44.01	
15	Supplemental Costs				
16	Miscellaneous Livestock Expense	_	1.28	1.84	1.27
17	Veterinary Expense	5	.83	•11	2.23
18	Custom Work		•0) 3.83	5.61	
19	TOTAL SUPPLEMENTAL COSTS	\$ 172	5.94°	333 7.56	91 3.50
19	IUIAL SUPPLEMENTAL (USTS	\$ 1/C	2.94	$\mathcal{I} \mathcal{I} \mathcal{I} \mathcal{I} \mathcal{I} \mathcal{I} \mathcal{I} \mathcal{I} $	91 J.JU
20	RETURN OVER FEED AND SUPPLEMENTAL	1 1170	40 63	1639 37.25	772 29.71
20	COSTS	10 II/9	40.00	$LOJ = J(\bullet L)$	(() = (-
	00515				
21	SUPPLIMENTARY MANAGEMENT INFORMAT	TON			
22		110N 177,87		186.11	154.48
23	Average Price Rec. For Fig Sold			17.25	18.83
24					140
	Number of Pigs Produced	197		270	
25	Number of Pigs Born Per Litter		χ	8.2	8.5
26	Number of Pigs Weaned Per Litte			6.2	5.5
27	Per Cent Dealth Loss	19.9		22.3	26.5
28	Price Per Cwt. Concentrate Fedg	2.81		3.85	2.28
29	Feed and Suppl. Costs Per Pig	9.68		9.71	11.96
	Produced				

TABLE 11C - COSTS AND RETURNS FR.I. PRODUCING WEANING PIGS - 1968

TA	BLE 12 - DAIRY COWS - 1968	Average of 41 Farms	14 Farms High in Return Above Feed	Return
		Per Cow	Per Cow	Per Cow
1 2 3 4	Average Number of Cows Founds of Milk Pounds of Butterfat Per Cent of Butterfat in Milk	30.2 11130 401.9 3.6	43.1 19 12347 459.1 3.7	•5 9518 321.7 3.4
5 6 7 8 9 10	<u>Value of Produce</u> Dairy Products Sold Dairy Products Used in Home Hilk Fed to Livestock Net Increases in Value of Cows TOTAL VAIUE PRODUCED	475.33 4.93 7.91 (-3.87) \$ 484.30	551.79 3.36 4.50 (-1.37) 558.28	386.51 7.03 11.23 (-6.67 380.10
11 12 13 14 15	Pounds of Feed Fed Corn Small Grain & Complete Dairy Ration Protein, Salt & Lineral TOTAL CONCENTR THS	1560.6 2661.6 157.9 4380.1	2279.2 2151.8 317.2 4748.2	694.1 2667.8 10.7 3372.6
16 17 18	Legume Hay Other Hay and Dry Rougha _S e Silage	4196.1 1907.8 12002.4	3630.1 2063.3 13840.6	5495.2 1522.0 10476.2
19 20 21 22 23	Feed Costs Concentrates Roughages Pasture TOTAL FEED COSTS	113.05 89.21 6.22 \$ 208.48	121.83 93.55 5.57 220.95	85.28 86.26 6.67 178.21
24	RETURN OVER FEED COST	÷ 275.82	337.33	201.89
25 26 27 28 29	Supplemental Costs Miscellaneous Livestock Expense Veterinary Expense Custom Work TOTAL SUPPLEMENTAL COSTS	19.54 6.56 23.31 \$ 49.41	26.08	4.51
30	RETURN OVER FEED AND SUPPLEMENTAL COSTS	\$ 226.41	277.14	163.90
31 32 334 356 37	SUPPLEMENTARY MANAGEMENT INFORMATION Return for \$100 Feed Fed Feed Cost Per Cwt. Milk Feed Cost Per Pounds of Butterfat Grain Fed Per Pound of Milk Average Price Per Cwt. Milk Sold Average Price Per Pound of Butterfat	<pre>\$ 232.31 \$ 1.87 \$.519 \$ 2.541 \$ 4.41 \$ 1.22</pre>		1.87 •554 2.822 4.15

T	ABLE 13 - OTHER DAIRY CATTLE - 1968		erage of Farms	Hi Re	Farms gh in turn ove Feed	L R	4 Farm ow in eturn bove Fec
		Pe	er cow	P	er cow	j	Per Cox
	Number of Head	37.7		46.6		38.3	
2	Net Inc, in Value	\$	95.73		113.99		68.64
3	Pounds of Feed Fed						
4	Concentrates		672.3		779.6		677,0
5 6	Hay and Roughage		2416.9		2245.3	ĉ	2549.4
6	Silage		2869.3		2252.9	7	3268.9
7 8	Nilk Feed Cost		237.1		79.5		489.4
9	Concentrates		19.08		21.85		18.49
10	Roughages		30.13		27.15		32.14
11	Milk		6.77		3.48		11.05
12	Pasture		3.29		3.43		2.93
13	TOTAL FLAD COSTS	\$	59.27		55.91		64.61
14	RETURN OVER FLED COST	\$	36.46		58.08		4.03
15 16	Supplement Costs Miscellaneous Livestock Expense		•69		•97		•29
17	Veterinary Expense		:50		.69		.26
18	Custom Work		.98		•02		.81
19	TOTAL SUPPLEMENTAL COSTS	\$	2.17		2.58		1.36
20	RETURN OVER FEED AND SUPPLEMENTAL COSTS	\$	34.29		55.50		2.67
21 22 23	SUPPLEMENTARY MANAGEMENT INFORMATION Return for \$100 Feed Fed Per Cent Death Loss	\$	161.55 7.2		203.92 6.9]	.06.22 6.1

T	ABLE 14 - ALL DAIRY AND DUAL PURPOSE CATTLE - 1968	Average of 42 Farms	l4 Farms High in Return Above Feed	14 Farms Low in Return Above Feed
1	Average Number of Cows	Per Cow	Per Cow	Por Cow
2	Value of Dairy Froducts \$	30.2 486.82	43.1 559.65	19•9 387•79
3	Net Inc. In Value \$	115.43	130.32	106.68
4	TOTAL VALUE PRODUCED \$	602.25	689.97	494.47
5	Pounds of Feed Fed			
6	Concentrates	4994.9	5531.2	4079.9
7	Hay and Dry Roughage	8923.0	8549.2	10840.7
8 9	Silage	15333.0	17602.6	12489.5
9 10	Feed Cost Concentrates			
11	Roughage	144.17	158.35	120.45
12	Pasture Costs	125.86	131.81	119.90
13		9.19	8.24	10.94
	TOTAL FEED COSTS \$	279.22	298.40	251.29
14	RETURN OVER FEED COST \$	323.03	391.57	243.18
15	Supplemental Costs			
16	Miscellaneous Livestock Expense	20.30	26.61	14.52
17	Veterinary Expense	7.15	9.63	4.82
18	Custom Work	24.47	26.84	22.11
19	TOTAL SUPPLEMENTAL COSTS \$	51.92	63.08	41.45
20	RETURN OVER FEED AND SUPPLEMENTAL			
	COSTS	271.11	328.49	201.73
21	SUPPLEMENTARY MANAGEMENT INFORMAT	ION		
22	Return for \$100 Feed Fed \$	215.70	231.23	196.76

TA	BLE 15A - BEEF BREEDING CATTLE - 1968	Average of 6 Farms	2 Farms High in Return Above Feed	2 Farms Low in Return Above Feed
1 2	Average Number of Beef Cows Average Number of Other Beef Animals	44.9	78.9	23.9
-	and Bulls	25.4	38.8	14.3
3	Pounds of Beef Produced	19309	36638	7260
4	Net Increase in Value (Per	Cow) \$ 115.10	115.29	101.72
5	Pounds of Feed Fed	Per Cow	Per Cow	Per Cow
6	Grain	117.8	45.4	
7	Protein, Salt and Mineral	9.4	•5	15.7
8	Legume Hay	2925.0	2839.0	2636.0 3807.5
9 1.0	Other Hay and Dry Roughage Silage	2939•9 705•3	3726.2	5007+5
1.0	Silage	$(0) \bullet ($		
11	Feed Cost			
12	Concentrates	3.14	• 95	• 46
13	Roughages	47.51	49.02 9.54	45.73 14.14
14 15	Pasture TOTAL FEED COSTS	11.50 \$ 62.15	9.54 59.51	60.33
1)	101AG FEED COS15			00.
16	RETURN OVER FEED COST	52.95	55.78	41.39
17	Supplemental Costs			
18	Miscellaneous Livestock Expense	•60	•27	2.05
19	Veterinary Expense	.27	·	
20	Custom Work	2.63	3.17	2
21	TOTAL SUPPLEMENTAL COSTS	\$ 3.50	3.44	2.05
22	RETURN OVER FEED AND SUPPLEMENTAL COST	s \$ 49.45	52.34	39.34
23	SUPPLEMENTARY MANAGEMENT INFORMATION			
24	Return for \$100 Feed Fed	185.17	193.74	168.59
25	Price Per Cwt. Sold	25.16	21.16	25.46
26	Average Weight Per Head Sold	526	850	383
27	Percent Death Loss	2.0	1.8	1.7
28	Percent Calf Crop			

T <i>i</i>	ABLE 164 – SHEEP FLOCK – 1968	Average 4 Farr		2 Farms High in Return Above Fee		<u>ad</u>
1 2 3 4	Average Number of Ewes Pounds of Lamb and Mutton Froduced Pounds of Wool Produced	52.1 2905 331	5	7 7 • 5 5280 454	26.8 530 209	
4 56	Value of Produce Wool (Per Ewe) Net Increase in Value of Animals (Per Ewe)	3.7 ¹ 13.69		3.69 15.45	3.92 8.51	
ن	TOTAL VILUE PRODUCED (Per Ewe)	\$17.43	3	19.14	12.43	
8 9 10 11 12 13	Pounds of Feed Fed Grain Protein, Salt and Mineral Legume Hay Other Hay and Dry Roughage Silage	Per E. 57.2 4.3 230.3 671.6	3	Per Ewe 59.3 5.7 116.1 671.6	Per Ewe 50.7 .3 559.7	
14 15 16 17 18	Feed Cost Concentrates Roughages Pasture TOTAL FEED COSTS	1.54 4.45 1.63 7.60	-	1.68 4.25 1.63 7.56	1.16 5.04 1.60 7.80	
19	RETURN OVER FEED COST	9.83	3	11.58	4.63	
20 21 22 23	Supplemental Costs Hiscellaneous Livestock Expense Veterinary Expense Custom Work	.02		• 46	.04 .63	
24	TOTAL SUPPLEMENTAL COSTS	.54	ł	• 46	.67	
25	RETURN OVER FEED AND SUPPLEMENTAL COSTS	9.29	1	11.12	3.96	
26 27 28 29 30 31 32		\$ 229.29 \$ 24.87 6.9 44 132 16.3	/ \$ 		\$ 159.33 \$ 25.10 7.5 25 132 32.8	

SUMMARY OF FARM EARNINGS, 1963-1968

Items	1963	1964	1965	1966	1967	196
FARM RECEIFTS						
Dairy Cattle	3 1162	1008	1404	1750	1979	282
Dairy Products	5201	6031	5622	7054	8650	1242
Beef Cattle (incl. feeders)	718	943	559	464	894	60
Hogs	739	511	797	901	840	69
Sheep and Wool	100	97	123	104	173	, ,
lorses	8					-
Poultry (incl. turkeys)	6	20	.8	30	6	1
Eggs	29	40	19	83	35	12
Other Productive Livestock					1	
Sorn	434	28	23	41	49	2
Small Grains	140	417	106	238	431	86
Diverted Acre Income			344	309	126	13
	121	846		631	658	65
Other Crops Fas Tax Refunds + Cap. Assets Sold	204	157	190	141	238	15
		±27 556	202	259	405	33
Income From Work Off the Farm	203			186 i	300	12
fiscellaneous Farm Income	<u> </u>	<u>591</u>	209	and the second data and th	the state of the second se	
1 Total Farm Sales	. 9456	11245	10256	12191	14785	1906
2 Increase in Farm Capital	2264	572	1949	4108	3229	342
3 Family Living From the Farm	366	<u> </u>	377	415	345	30
4 Total Farm Receipts 1+2+3	\$12086	12175	12582	16714	18359	2287
FARM EXPENSES						
Dairy Cattle Bought	\$ 271	69	417	753	677	35
Boef Cattle Bought (incl. feeders)	- 590	165	92	74	94	18
logs Bought	24	21	20	84	45	-
Sheep Bought (incl. feeders)	18	3	33	3	13	
Horses Bought	1					
Poultry Bought (incl. turkeys)	5	13	6	24	5]
Other Productive Livestock					2	_
4iscellaneous Livestock Expense	285	360	301	385	481	72
Feed Bought	1310	1419	1593	2004	2284	301
Fertilizer	297	467	412	389	611	30
Other Crop Expense	311	429	355	431	508	5'
Custom Work Hired		606	514	491 560	712	
	529 607					90 85
Gas-Oil-Grease Bought (farm share)	673	679	634	654	740	8
Repair + Oper. of Mach., Tractor, Truck		Col	c ol	(50	1-1	01
and Auto (farm share)	523	624	594	650	636	90
Repair and Upkeep of Farm Real Estate	77	106	91 10	119	149	18
Repair and Upkeep of Livestock Equip.	66	85	68	70	83	10
Mages of Hired Labor	276	340		202	301	45
Electricity Expense (farm share)	206	216	193	214	227	26
Real Estate & Pers. Property Taxes	434	518	453	494	537	- 38
Felophone & General Farm Expense	180	186	176	215	236	3
5 Total Cash Operating Expense	\$ 5876	6306	6151	7325	8341	1011
6 Power, Crop & Gen. Mach. Bought	1002	1236	1197	1548	2039	213
7 Livestock Equipment Bought	407	208	162	405	409	62
8 New Real Estate + Improvements	985	536	913	1081	1473	134
9 Total Farm Purchases 5-8	\$ 8270	8286	8423	10359	12262	1422
10 Decrease in Farm Capital	₩ UZ7U	0200		10,009	425	
	1450	1749	1411	1563		32 170
1] Interast on Form Comital	1400	453	1411 672		1822	231
11 Interest on Farm Capital	1.1>		512	615	498	61
12 Unpaid Family Labor	443	422	076	>		
12 Unpaid Family Labor 13 Labor Charge for Partners + Other	-		072		ד <i>י</i> כ ר	C
12 Unpaid Family Labor	443 49	492 80			127 40	
12 Unpaid Family Labor 13 Labor Charge for Partners + Other Partners 14 Board Furnished Hired Labor	49	80		31	40	4
 12 Unpaid Family Labor 13 Labor Charge for Partners + Other Partners 14 Board Furnished Hired Labor 						9 4 1761 526

1964-1965-1966-1967-1968 IN A CAPSULE

	1964	1965	1966	1967	1968
FAPM SIZE (ACRES)	409	332	295	332	383
SIZE OF BUSINESS (WORK UNITS)*	449	377	368	408	352
RETURN TO CAFITAL & FAMILY LABOR	3443	3366	5356	4536	6953
LABOR EARNINGS	1607	2042	4146	3186	5350
NET WORTH (AVG. JAN. 1 & DEC. 31)	32780	22404	23246	25139	37044
RATIO OF ASSETS TO LIABILITIES	4.10:1	2.94:1	2.60:1	2.47:1	3.02:1
EXPENSES FER DOLLAR INCOME	.87	.84	•75	.83	•77
REFURN PER DOLLAR INVESTED	.10	.07	•13	•09	.12
%OF GROSS RECEIPTS SAVED AS RETUR. TO CAPITAL & FAMILY LABOR	N 28.3%	27.0%	32.1%	24.8%	31.1%
SOURCE OF INCOME					
INCOME FROM LIVESTOCK	77%	83%	85%	85%	87.9%
INCOME FROM CROPS	11%	11%	10%	8.6%	8.8%
MISCELLANEOUS INCOME	12%	6%	5%	6.4%	3.3%

N.E. FILM MANAGEMENT PROGRAM DULUE AREA INSTITUTE OF TECHNOLOGY

*One work unit equals one 10 hour working day.