1970 Annual Report

VOCATIONAL AGRICULTURE FARM MANAGEMENT PROGRAM

NORTHWESTERN MINNESOTA

REPORT NO. 16

AREA VOCATIONAL TECHNICAL SCHOOL

THIEF RIVER FALLS, MINNESOTA

In Cooperation With

VOCATIONAL DIVISION, MINNESOTA DEPARTMENT OF EDUCATION AND AGRICULTURAL EDUCATION DEPT.

UNIVERSITY OF MINNESOTA

1970 REPORT OF THE FARM MANAGEMENT PROGRAM FOR VOCATIONAL AGRICULTURE IN NORTHWESTERN MINNESOTA

HERE'S WHERE YOU'LL FIND THE INFORMATION

Introduction	-2
Introduction	3
Summary of Farm Inventories	-5
Summary of Farm Receipts (Cash Statement)	6
Summary of Farm Expenses (Cash Statement).	7
Summary of Farm Expenses (Cash Statement)	8
Range in Earnings	9
Household & Personal Expenses & Receipts	10
Not Worth	12
Net Worth	12
Summary of Farm Receipts (Cash Statement) Op. Share	1 <i>/</i>
Summary of Farm Expenses (Cash Statement) Op. Share	7 € 7 ∰
Measures in Farm Organization & Management Efficiency	1.C
Thermometer Chart	7.0
Labor Earnings Correlated With Excelled Factors	
Crop Analysis Introduction	79
Crop Summary	TA
Small Grain	20
Corn, Soybeans	21
Sunflowers, Diverted Acres	22
Forages	23
Seed Crops	24
Livestock Analysis Introduction	25
Hogs Complete	26
Hogs Weaning	27
Hogs Finishing	28
Dairy Cattle	31
Beef Breeding	32
Beef Feeding	33
Sheep	34
Sheep	35
Summary of Farm Earnings by Years	36
Summary of Miscellaneous Items by Years	37
Describing of the outer of a control of the control	
The following tables and enterprises were not included in	the
averages because the number of farms were too limited to p	
vide reliable average information:	
Table X - Sugar Beets, Potatoes, Grass Silage	
Table 16B - Feeder Lambs	
Table 17A - Laying Chickens	
Table 18A - Turkey Laying Flock; and Table 18B - Turk	-C17
Poults	y.
POULUS	

LET'S GET ACQUAINTED

The Vocational Agriculture Farm Management Program in Northwestern Minnesota is prepared by the Thief River Falls Area Vocational - Technical School in cooperation with the Minnesota Department of Education and the Agricultural Education Department of the University of Minnesota. Since the initiation of the program in Thief River Falls in 1955, sixteen annual reports have been prepared.

We congratulate two families, Mr. & Mrs. Arthur Kilen of Greenbush, and Mr. & Mrs. Richard Dvorak of Thief River Falls, for having completed their tenth year in the program.

We further congratulate the following families for having completed their fifteenth year in the program: Mr. & Mrs. Julian Rodahl, Mr. & Mrs. Clyde Christensen, Mr. & Mrs. Harvey Troska, Mr. & Mrs. Ed Timm, all of Thief River Falls, Mr. & Mrs. Gene Nelson, Viking, Mr. & Mrs. Arnold Stanley, Grygla, and Mr. & Mrs. James Efta, Greenbush.

This report is published annually to provide farmers, agriculture instructors, and others with farm record analysis information which will be helpful to them in studying farming operations. The report is set up to show each cooperating farmer's individual figures for his farm, and comparisons with the averages, the top twenty per cent and the bottom twenty per cent of the farms in the analysis. The report presents each farmer with figures showing his earnings, increase or decrease in net worth, financial standing and a number of efficiency factors on his various enterprises.

The analysis of the records and the preparation of the reports for Northwestern Minnesota are done under the direction of Ed Sisler of Area Vocational-Technical School at Thief River Falls. A special thank you is awarded the clerical staff for their patience, perserverence, and dedication to the project. The staff this year is: Phyllis Moum, Marie Sorensen, Roberta Kosel, Marlys Swanson, Shirley Koop, Betty Ueland, Fay Gullickson, Fern Hedlund, Bonnie Haglund and Marcella Lemmon. Gladys Narverud prepared the manuscript.

The Farm Management Program is supervised locally by Lloyd Johnson, Superintendent of Thief River Falls Public Schools and Arnt Aune, Director of the Area Vocational-Technical School, Thief River Falls, Minn. Mr. Paul Day of the State Department of Education, Dr. Ed Persons of the University Department of Agricultural Education, and Dr. T.R. Nodland of the Agricultural Economics Department have been available as consultants.

This analysis center utilizes the Agricultural Records Cooperative's automatic data processing facilities to streamline its operation.

While 323 records were included in the averages, 385 records were processed.

This report deals with farmers enrolled in twenty six schools in Northwestern Minnesota. The following tabulation shows the number of farmers submitting 1970 farm records for analysis, the schools cooperating and the names of the Vo-Ag instructors from these schools.

School No. of Cooperators Instructor								
Ada 6								
Ashby John Meagher								
Barnsville David Bakken								
Battle Lake								
Detroit Lakes								
33 Duane Lemmon								
Fergus Falls								
Fertile								
Fosston								
Frazee Albert Byram								
Goodridge								
Greenbush								
Hallock Jerry Seibold								
Halstad Lannis Bergsgaard								
Hawley John Hest								
Henning								
Humboldt								
Karlstad								
Moorhead								
Pelican Rapids Elvin Andrews								
Plummer, Red Lake Falls & Oklee 34 Harry Oen								
Roseau								
Thief River Falls Don Johnsen								
46 Verne Spengler								
Twin Valley Marvin Hanson								
Ulen Merlin Skretvedt								
Areas not served by Vo-Ag Depts .ll Ed Sisler								
Vo-Ag Coordinator								

WHY KEEP FARM RECORDS?

Systematic use of records seems to raise the managerial level of the farmers. Once a farmer starts using records to check up on his performance, it is likely that he will continue for some years to improve his position above that of his less systematic neighbor.*

^{*}Britannica Research Service

1970 IN A NUTSHELL

	1969	1970	Average
Labor Earnings (operators share) Return to Capital & Family Labor Net Worth		\$	\$ 2,184 4,892 52,572
Ratio of Current Assets & Machinery to Current Liabilities			2.29
Ratio of Real Estate Assets to Real Estate Liabilities	marathan manar manda		3.02
Ratio of Total Assets to Total Liabilities		AND THE RESIDENCE OF THE PROPERTY OF THE PROPE	2.63
Expenses per Dollar Income	had de la la companya de la companya	Name and report from a consequen-	.93
SIZE	E		
Work Units* - Crops Livestock Other Total			175 174 4 353
Total Farm Capital *One work unit equals one ten hour day	<u> </u>		89,957

FARM EARNINGS

There are three earnings statements contained in this report. Tables 2 and 6 are earnings statements on a cash basis. Table 2 shows the labor earnings to the farm. "Labor Earnings" is the amount that would be left as a salary to the farm operator if he paid hired man's wages for the labor of other members of the family and six per cent interest on all capital used.

The third earnings statement, table 3, is an enterprise or accrual earnings statement. The principle difference between cash earnings statements, table 2 and 6, and the enterprise statement, table 3, is the method of handling the increase or decrease in the value of farm capital. In the cash statement the increase or decrease in farm capital is entered as one item. In the enterprise statement, the net change in the inventory of farm capital has been included in each enterprise in order to compute "total expenses and net decreases" by enterprises.

RETURNS TO CAPITAL

The return to capital and family labor represents the amount the farmer and his family earned with their labor and capital investment. This figure is found in Tables 5 and 6.

WHAT IS THE CAPITAL INVESTMENT PICTURE IN OUR FARM BUSINESS?

Table 1. Summary of Farm Inventories, 197	70			
	Average of	323 1		
Items	Jan. l		Dec. 31	
	560 4			
Size of farm - Total Acres	569.4			
- Tillable Acres	465.3			
Work Units - Crops	175.30			
- Livestock	173.70			
- Other	4.30			
Total size of business in work units	353.30			
Number of workers	1.4			
Farm capital investment per worker	72348			
PRODUCTIVE LIVESTOCK				
Dairy cows	3522		3717	
Other dairy cattle	2127		2361	
Beef breeding cattle	2970		3430	
Beef feeder cattle	1582		1594	
Hogs	722		732	
Sheep (Incl. feeders)	250		275	
Poultry (Incl. turkeys)	149		146	
Other productive livestock	130		88	
Total Productive Livestock	\$ 11452	\$		
TOTAL LICENSCRIPE BIVODOGE	7	•		
CROP, SEED AND FEED	7599		6873	
POWER, MACHINERY AND EQUIPMENT				
Auto and truck (farm share)	1785		1960	
Power and machinery	10286		10770	
Livestock equipment	1310		1417	
Total Power, Machinery and Equipment	\$ 13381	Ś	14147	
TOTAL FOWER, PROTEITHERY WAS ENGAPHERE	4 10001	τ		
LAND	46386		47450	
BUILDINGS, FENCES, ETC.	8371		9144	
TOTAL FARM CAPITAL	\$ 87189	\$	89957	

Table 1. Summary of Farm Inventories, 1	970	<u>,</u>	i i i i i i i i i i i i i i i i i i i	
	64 Higi	Farms	64 Low	
Items	Jan.l	Dec.31	Jan.1	Dec.31
				•
Size of farm - Total Acres	658.4		705.9	
- Tillable Acres	504.7		607.0	
Work units - Crops	212.00		214.16	
- Livestock	313.04		103.46	
- Other	4.10		7.65	
Total size of business in work units	529.14		325.27	
Number of workers	1.7		1.3	
Farm Capital Investment per Worker	74499		94001	•
Least Cooper and Later and				
PRODUCTIVE LIVESTOCK				
Dairy cows	8000	8732	854	775
Other dairy dattle	4765	5541	760	576
Beef breeding cattle	3362	4097	3955	5065
Beef feeder cattle	1235	932	3098	
Hogs	270	299	986	1244
Sheep (incl. feeders)	63	93	257	269
Poultry (incl. turkeys)	153	170	16	20
Other productive livestock			•	. *
Office broadcasts and an area				
Total Productive Livestock	\$ 17848	\$ 19864	\$ 9926	\$ 11063
TOCAL LICANOMIC TOCAL				
CROP, SEED AND FEED	\$ 8259	\$ 9149	\$ 12601	\$ 9503
POWER, MACHINERY AND EQUIPMENT				
Auto and truck (farm share)	2030		2373	
Power and machinery	11675		15470	
Livestock equipment	3156	3215	644	840
Total Power, Machinery and equipment	\$ 16861	\$ 17576	\$ 18487	\$ 19203
1000a 1000a y 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
LAND	48968	51893	61606	62704
delle de la con				
BUILDINGS, FENCES, ETC.	13054	14445	10018	10720
, , , , , , , , , , , , , , , , , , , ,				4
TOTAL FARM CAPITAL	\$104990	\$112927	\$112638	\$113193
The second secon				

Table 2A. Whole Farm Summary of Cash Rec	A	verage		4 Most	64	Least
		f 323	-	prof.		prof.
Items		farms		farms		farms
SALE OF LIVESTOCK AND LIVESTOCK PRODUCTS						
Dairy cows	\$	1105		2375	\$	382
Dairy products		7294		18493		996
Other dairy cattle		991		1919		493
Beef breeding cattle		1075		798		1277
Beef feeder cattle		2379		2415		4843
Hogs complete		689		355		775
Hogs finishing		258		20		924
Hogs producing weaning pigs		598		222		932
Sheep and wool, farm flock		200		68		112
Sheep and wool, feeder lambs		21				
Chickens (incl. hens and broilers)		174		149		463
Turkeys		482				705
Eggs		535		675		85
Other productive livestock		149		1		
TOTAL SALES OF PRODUCTIVE LIVESTOCK	\$	15950	\$	27490	\$	11987
SALE OF CROPS				1. 		
Corn		235		513		440
Soybeans, flax, sunflowers		798		1012		954
Wheat, oats, barley, rye		5616		5598		9325
Potatoes, sugar beets, other crops		515		375		553
Hay, silage and other crops		407		424		297
Diverted acre payment		386		867		431
TOTAL SALES FROM CROPS	\$	7957	\$	8789	\$	12000
Capital assets sold		254		189		201
Gas tax refund		140		177		117
Income from work off the farm		250		197		528
Patronage refunds		325		574		337
Miscellaneous farm income		1676		1471		2611
TOTAL FARM SALES (1)	\$	26552	\$	38887	\$	27781
Increase in farm capital (2)	\$	2771	\$	7939	\$	555
Family living from the farm (3)		337	•	519	•	223
TOTAL FARM RECEIPTS (1)+(2)+(3)	\$	29660	\$	47345	\$	28559

-7of Cash Expense

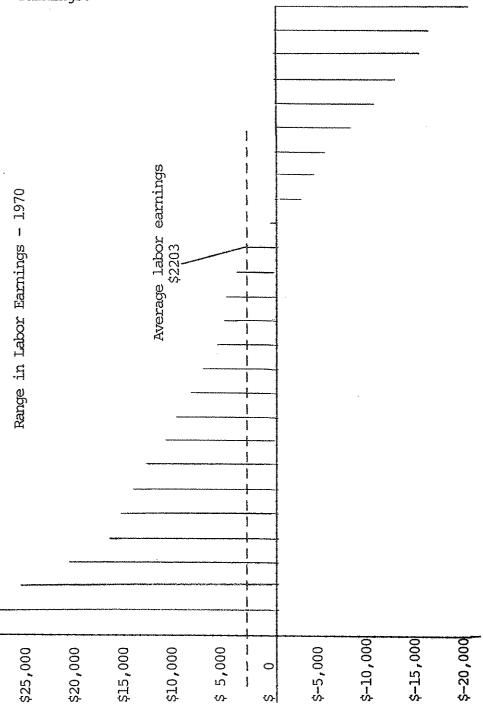
Table 2B, Whole Farm Summary of Cash Expense	es,	1970				
	A	verage	6	4 Most	64	Least
	0	£ 323		prof.		prof.
Items		farms	···	farms		farms
DIRECTIA CIE. CIE. I TUTECHIOCIU						
PURCHASE OF LIVESTOCK	\$	264	\$	482	\$	161
Dairy cows	÷	192	Ą	380	÷	59
Other dairy cattle						974
Beef breeding cattle		330		53		
Beef feeder cattle		931		864		2323
Hogs complete		53		30		163
Hogs finishing		120		40		311
Hogs producing weaning pigs		69		18		181
Sheep, farm flock		18		40		3
Sheep, feeder lambs						
Chickens (incl. hens and broilers)		141		90		90
Turkeys		124				239
Other productive livestock		46				
Miscellaneous livestock expense		593		1060		531
Feed bought		2733		3944		2817
Fertilizer		1445		1507		2143
Chemicals		200		320		182
Other crop expense		1444		1560		2324
Custom work hired		785		1333		585
Rep. & upkeep of livestock equipment		221		388		144
Rep. & upkeep of farm real estate		275		336		330
Gas, oil, grease bought (farm share)		1302		1472		1593
Rep. & oper. of mach., tractor, truck, auto (f.s	Ň			1745		1878
	• /	962		1593		1205
Wages of hired labor		860		1026	•	1124
Personal property & real estate taxes		424	•	584		537
General farm expense		94		116		106
Telephone expense (farm share)						
Electricity expense (farm share)		298		465		258
TOTAL CASH OPERATING EXPENSE	\$	15401	\$	19446	\$	20261
Power, crop & gen. machinery bought (f.s.)	\$	3239	\$	3698	\$	3820
Livestock equipment bought		357		521		311
New real estate & improvement		2604		5433		3017
TOTAL FARM PURCHASES	\$	21601	\$	29098	\$	27409
Interest on farm capital		5314		6537		6774
Unpaid family labor		347		293		229
Labor charge for partners & other operators		139		426		111
Board furnished hired labor		57		106		72
TOTAL FARM EXPENSE	\$	27458	\$	36460	\$	34595
Labor earnings (whole farm)	\$	2202	\$	10885	\$	-6036
Number of operators		1		1		1

WHAT IS THE VALUE PRODUCED BY EACH ENTERPRISE?

	Average	64 Most	64 Least
	of 323	prof.	prof.
Items	farms	farms	farms
RETURNS AND NET INCREASES			
Productive livestock			
Dairy cattle	\$ 7683	\$ 19313	\$ 1051
Other dairy cattle	2063	4872	435
Beef breeding cattle	1618	1696	2050
Feeder cattle	1094	1049	2004
Complete hog enterprise	640	323	931
Hog finishing enterprise	203	32	547
Producing weaning pigs	496	195	807
Farm flock of sheep	223	59	122
Feeder lambs	5		
Chickens (incl. hens and broilers)	488	753	465
Turkeys	437		466
Other productive livestock	61	1	
ALL PRODUCTIVE LIVESTOCK	\$ 15011	\$ 28293	\$ 8878
Value of feed fed to livestock	7472	11894	6830
Return over feed from livestock	7539 2553	16399	2048
Crop, seed and feed	8757	13978	8232
Income from labor off the farm	86	82	153
Cooperative patronage refunds	325	574	337
Miscellaneous farm income	1676	1471	2611
TOTAL RETURNS AND NET INCREASES	\$ 18383	\$ 32504	\$ 13381
EXPENSES AND NET DECREASES	•		
Truck and auto (farm share)	\$ 1683	\$ 2287	\$. 1669
Tractors and crop machinery	3907	4838	5023
Electricity	298	465	258
Livestock equipment	462	840	251
Buildings, fences and tiling	959	1340	1416
Misc. livestock expense	593	1060	531
Labor	1448	2099	1616
Labor charge for other operator (s)	139	426	111
Property tax	860	1026	1124
General farm expense and telephone	518	700	643
Interest on farm capital	5314	6537	6774
TOTAL EXPENSES AND NET DECREASES	\$ 16192	\$ 21618	\$ 19416
Labor earnings	\$ 2202	\$ 10886	\$ -6036
Number of farm operators	1.	1	1

RANGE IN EARNINGS

Every study of farm earnings shows a wide variation in earnings among farmers in a given year (Fig. 1). The average labor earnings of those farmers ranking in the upper 20 per cent was \$11,262 and of those in the lower 20 per cent was \$-6,130. This is a range of \$17,392. Some of the causes for these differences, such as weather, may be beyond the control of the individual farmer. Other factors are within his control. The more important management factors affecting earnings are as follows: (1) crop yield, (2) returns from livestock, (3) amount of livestock, (4) size of business, (5) work units per worker, (6) control over expenses. These factors vary from year to year in their relative influence on earnings.



\$30,000

HOUSEHOLD AND PERSONAL EXPENSES AND RECEIPTS

Household and personal accounts are important if the family is to manage its financial affairs wisely. The household and personal expenses and receipts are presented in Table 4.

Table 4. Household and Personal Expenses, 1970.

Table 4. Household and Personal Expenses,	1970.		
	Average	33 Most	33 Least
	of 184	prof.	prof.
Items	farms	farms	farms
	:		
Number of persons - family	5	6	5
Number of adult equivalent - family	4.0	4.4	3.9
Church and welfare	\$ 198	\$ 300	\$ 226
Medical care and health insurance	593	716	624
Food and meals bought	1271	1422	1440
Operating expense and supplies	365	428	411
Furnishings and equipment	320	482	245
Clothing and clothing materials	427	589	437
Personal care, personal spending	233	220	209
Education	264	294	219
Recreation	3		16
Gifts and special events	167	185	198
Personal share truck & auto expense	213	259	188
Operators share upkeep on dwelling	166	223	271
Personal share telephone & electricity exp.	152	170	151
TOTAL CASH LIVING EXPENSES	\$ 4372	\$ 5288	\$ 4635
Personal share new truck and auto	179	274	168
New dwelling bought	313	846	260
Taxes and other deductions	530	713	650
Life ins., other savings & investments	444	680	505
TOTAL HOUSEHOLD AND PERSONAL	\$ 5838	\$ 7801	\$ 6218
TOTAL FAMILY LIVING FROM THE FARM	367	547	259
TOTAL CASH AND NON-CASH EXPENSES	\$ 6205	\$ 8348	\$ 6477
•		'	
FAMILY LIVING FROM THE I	FARM	L	
Milk and cream	98	181	36
Beef	208	318	158
Pork	25	13	59
Lamb	1		5
Poultry	. 2		1
Eggs	3	2	
Veg., fruit, spuds, & fuel-also other prod.	31	34	
TOTAL FAMILY LIVING FROM THE FARM	\$ 368	\$ 548	\$ 259
	,		

NET WORTH

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

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

Table 5. Net Worth Statement, Operator,		Average for	323 F	arms
Items	************	Jan. l		Dec. 31
Total productive livestock	\$	11291	\$	12169
Crop, seed and feed	Τ.	7341	Ţ	6640
Notal power, machinery and equipment		13005		13784
Land		28387		29253
Buildings, fences, etc.		7981		8774
Notal Farm Capital	•	68005		70620
Non-farm assets		7026°		7469
Dwelling		6322		6805
TOTAL ASSETS	\$	81353	\$	84894
Real estate mortgages		14115		14854
Chattel mortgages		11319		12538
Notes		3236		3514
Accounts payable		1271		1416
TOTAL LIABILITIES	\$	29941	\$	32322
FARMERS NET WORTH	\$	51412	\$	52572
GAIN OR (LOSS) IN NET WORTH			\$	1160
SUPPLEMENTARY MANAGEMENT INFORMATION				
Operators labor earnings	\$	2184		
Return to capital and family labor Non-farm income		4892		
Outside investment income		14		
Other personal income & income tax refu	nd	2106		
TOTAL NON-FARM INCOME	\$	2120		
Notal money borrowed	· ·	14213		
Notal paid on debt (principal)		11873		
Total household & personal cash expense		4627		
Ratio total farm exp. to total farm recei	pts	.928		
Ratio total assets to total liabilities	Jar	n. 2.717	Dec.	
Ratio Non-real est. assets-non-real est.	Liab.	. 2.44		2,29
Ratio real estate assets to real estate 1	iab.	3.02		3.02
Ratio net worth to total liabilities		1.72		1.63

^{*}Adjusted total farm sales does not include sale of capital assets

.70

*Ratio cash operating exp. to adj. total farm sales

Table	52	Not-	Worth	Statement.	1970
TODIE	-344	TVC L			J. 2 / U

Table 5A. Net Worth Statement, 1970							
		64 Hic	h	Farms		64 Low	Farms
Items		Jan. 1	·	Dec. 31		Jan. 1	Dec. 31
Total productive livestock	\$	17629	Ś	19807	s	10091	\$ 11335
Crop, seed and feed	7	8271	Ψ	9125	Ŧ	13324	10124
Total power, machinery and equipment		17424		18060		19099	19856
Land		28330		30427		41646	42781
Buildings, fences, etc.		11986		13375		10267	
Total Farm Capital		83640		90794		94427	95082
a document of the second of th				,		, , ,	*
Non-farm assets		8488		9719		10219	10245
Dwelling		7643		8156		8486	8966
TOTAL ASSETS	\$	99771	\$	108669	\$	113132	114293
Real estate mortgages		15698		16875		20563	22224
Chattel mortgages		15186		17004		17848	19088
Notes		3568		3337		5669	6579
Accounts payable		1015		861		2445	2897
TOTAL LIABILITIES	\$	35467			\$		** * * * * * * * * * * * * * * * * * * *
FARMERS NET WORTH	\$	64304			\$		\$ 63505
	,				•		·
GAIN OR (LOSS) IN NET WORTH			\$	6288			\$ (-3102)
SUPPLEMENTARY MANAGEMENT INFORMATION							
Operators labor earnings	\$	11262			Š	(-6130)	
Return to capital and family labor	•	14476			•	(-2644)	· ·
Non-farm income							
Outside investment income		3					•
Other personal income & income tax refun	d	611				4825	
TOTAL NON-FARM INCOME	\$	614				4825	
Total money borrowed		15579				25130	
Total paid on debt (principal)		12990				20815	•
Total household & personal cash expense		6211				4444	
Ratio total farm exp. to total farm rec.		.755		0.054		1.188	0.050
Ratio total assets to total liabilities		2.813		2.854		2.432	2.250
Ratio non-real est. assets-non-real est.li				2.67		2.03	1.81
Ratio real estate assets to real est. liab		3.06		3.08		2.94	2.82
Ratio net worth to total liabilities		1.81		1.85 .60		1.43	1.25
*Ratio cash oper. exp. to adj. total farm	Si	TGS		.00			. 86

^{*}Adjusted total farm sales does not include sale of capital assets

Table 6A. Operator's Share of Cash Receipts,	19					
	Ā	Average		64 High	64 Low	
	32	3 Farms		Farms		Farms
SALE OF LIVESTOCK AND LIVESTOCK PRODUCTS						
Dairy cows	\$	1078	\$	2444	\$	387
Dairy products	т	7192	т	18012	*	1112
Other dairy cattle		963		1961		442
Beef breeding cattle		1064		831		1499
Beef feeder cattle		2355		1749		4687
Hogs complete		683		420		741
		256		45		855
Hogs finishing		583				
Hogs producing weaning pigs				218		1026
Sheep and wool, farm flock		183		68		111
Sheep and wool, feeder lambs		21		1.40		460
Chickens (incl. hens and broilers)		174		149		463
Turkeys		482				705
Eggs		535		675		85
Other productive livestock		149		1		
TOTAL SALES OF PRODUCTIVE LIVESTOCK	\$	15718	\$	26573	\$	12113
SALE OF CROPS						
Corn		216		556		393
Soybeans, flax, sunflowers		699		945		895
Wheat, oats, barley, rye		5189		5538		9374
Potatoes, sugar beets, other crops		447		314		1089
Hay, silage and other crops		369		386		315
Diverted acre payment		358		802		420
TOTAL SALES FROM CROPS	\$	7278	\$	8541	\$	12486
Capital assets sold		238		164		62
Gas tax refund		140		178		128
Income from work off the farm		248		222		544
Patronage refunds		320		551		359
Miscellaneous farm income		1636		1556		2601
TOTAL FARM SALES	\$	25578	\$	37785	\$	28293
Increase in farm capital Family living from the farm		2615 337		7153 528		655
				340		228
TOTAL FARM RECEIPTS	\$	28530	\$	45466	\$	29176
Adjusted total farm sales		25340		37621		28231
Total cash farm operating expense	:	17671		22498		24281
Net cash operating income	\$	7669	\$	15123	\$	3950
1	7	, 002	٣		Y	JJJ0 -

Table 6B. Operators Share of Cash Expense		Average		64 High		64 Low
	32.	3 Farms		Farms		Farms
PURCHASE OF LIVESTOCK						
Dairy cows	\$	264	\$	489	\$	170
Other dairy cattle	,	192	•	498	•	53
Beef breeding cattle		330		135		996
Beef feeder cattle		927		438		2283
Hogs complete		53		39		107
Hogs finishing		120		74		308
Hogs producing weaning pigs		69		18		190
		18		40		170
Sheep, farm flock		141		90		90
Chickens		124		90		239
Turkeys		46				233
Other productive livestock				ocor		540
Miscellaneous livestock expense		590		1038		
Feed bought		2713		3789		2762
Fertilizer		1399		1483		2190
Chemicals		194		323		232
Other crop expense		1418		1525		2473
Custom work hired		771		1305		588
Repair & upkeep of livestock equipment		221		378		146
Repair & upkeep of farm real estate		271		305		330
Gas, oil, grease bought (farm share)		1293		1524		1641
Repair & oper. of mach., tractor, truck, auto	(f.s)			1821		1980
Wages of hired labor		957		1667		1379
Personal property & real estate taxes		676		766		965
Cash rent		811		1302		1203
General farm expense		420		596		549
Telephone expense (farm share)		93		116		105
Electricity expense (farm share)		294		447		260
Interest expense		1798		2294		2499
TOTAL CASH OPERATING EXPENSE	\$	17672	\$	22500	\$	24278
Power, crop & general mach. bought (f.s.)		3206		3772		3930
Livestock equipment bought		357		485		421
New real estate & improvements		2348		4112		3113
TOTAL FARM PURCHASES	\$	23583	\$	30869	\$	31742
Interest on farm capital		2361		2939		3187 299
Unpaid family labor		347		274		
Board furnished hired labor		57		121	4.	77
TOTAL FARM EXPENSE	\$	26348	\$	34203	\$	35305
Labor earnings (operators share)	\$	2184	\$	11262		(-6130)
Return to capital and family labor	\$	4892	\$	14475	\$	(-2644)

Table 8. Measures of Farm Organization, 19	970					
		Average		64 High		64 Low
	32	23 Farms		Farms		Farms
Labor earnings	\$	2202	\$	10886	Ś	(-6036)
Crop yields - index	۲	99	٣	121	Y	83
Percent tillable land in H.R. crops		,,,				00
Gross return per tillable A. (excl. pasture))	30.25		37.73		24.21
Return for \$100 to prod. livestock - index	•	99		104		84
Livestock units per 100 acres*		16.0		17.4		17.3
Size of business - work units		353.3		529.1		325.2
Work units per worker		286.1		337.4		277.6
Power mach., equip., bldg., exp. per work uni	է\$	25.49	\$	18.83	\$	43.33
Farm capital investment per worker	\$	72348	\$	74499	\$	94001
INDEX OF RETURN FOR \$100 FEED FROM						
Complete hog enterprise		100		105		116
Hog finishing enterprise		100				79
Producing weaning pigs		100		120		89
Dairy cattle		100		106		61
Other dairy		100		103		94
All dairy and dual purpose cattle		100		106		67
Beef breeding cattle		100		101		87
Beef feeder cattle		100		105		87
Sheep farm flock		100		49		59
Feeder lambs		100		0.0		100
Chickens-laying flock		100		93		106
Chickens-broilers		100		124		90
Turkeys-laying flock		100				റാ
Turkey-poults		100				82
Number of animal units		58.5		77.8		63.8
WORK UNITS						
Crops		175.3		212.0		214.2
Productive livestock		173.7		313.0		103.4
Other productive work units		4.3		4.1		7.6
EXPENSES PER WORK UNIT						
Tractor and crop machinery expense	\$	13.45	\$	9.48	\$	
Farm share of auto and truck expense		6.23		4.63		10.06
Farm share of electricity expense		1.08		.89		1.84
Livestock equipment expense		1.25		1.39		1.06
Building, fencing and tiling expense		3.46		₹ 2.4 3		7.49
Tractor and crop mach. exp. per crop acre**		11.31		11.24		8.73

^{*}Acres include all tillable land, non-tillable hay and pasture **Acres include all tillable land plus acres in wild hay

THERMOMETER CHART

Your standing with respect to the various measures of farm organization and management efficiency are indicated in the thermometers below. The averages for the 323 farmers included in this summary are located between the dotted lines across the center of this page.

· · · · · · · · · · · · · · · · · · ·		<u> </u>		Gros: Ret.	S	Ret. from		Prod Lvst				Work Units	 3	Pw. M Ea. &	ach. Bldg.
Labor		Crop		Per		Prod		Unit		Worl	ζ.	Per	-	Exp.	
Earning	ទ្រុ	Yiel	ds.	Till	.A	. Lvstl	۲.	100 .	Α.	Uni	LS	Worker	<u>-</u>	Work	
\$17,000	-	150	_	50	-	140	-	26	CHT. ALL COUNTED COCKE	600		472		5	
\$14,000	_	140	_	46		132	-	24	emicochesticum-sur-	550	-	435		9	
\$11,000		130	_	42		124	(A) company (A)	22	-	500	_	390		13	· H
\$ 8,000		120	-	38	_	116	To the second se	20	-	450		355	Н	17	
\$ 5,000		110	_	34	and the same of th	108		18	The state of the s	400	_	320		21	
\$ 2,202		100	_	30	-	100	*	16	-	353		286		25	. -
\$-1,000		90		26	-	92	-	14	Becommender	300	_	250		29	•
\$-4,000		80		22	_	84	-	12	T A THE REAL PROPERTY.	250		215		33	
\$-7,000		70		18		. 76	-	10	No. of the last of	200	_	175		37	
-10,000	-	60	-	14	-	68	rtermetiskus/stationer	8		150	_	140		41	
13,000	H	50)	U	10		60		6		100		100		45	

LABOR EARNINGS CORRELATED WITH EXCELLED FACTORS

Studies of earnings of farmers in this area show that there are seven major management factors causing variations in earnings among farmers within a given year. These seven factors are: (1) crop yields, (2) gross return per acre on crops, (3) returns from livestock, (4) amount of livestock, (5) size of business, (6) work accomplishments per worker, and (7) control over expenses. The combined or cumulative influence of these seven management factors on earnings is shown in table below.

No. of factors in which farmers	No. of	<u> </u>	WHOLE FARM	LABOR EARNI	INGS	inang kanan dan menjada pengangan pengangan pengangan pengangan pengangan pengangan pengangan pengangan pengan
excelled	farms	-\$2,000	\$2,000	\$6,000	\$10,000	\$14,000
0 or 1	53					-1499
2 or 3	136	[[[[[]]]]]	7			366
4 or 5	94	<i>[[[[[]]</i>]]]	///////////////////////////////////////	7		4535
6 or 7	32	[[]][][]	///////////////////////////////////////	///////////////////////////////////////	<u> </u>	11007

This table indicates that it may be worth while for each cooperator to carefully study his ranking on pages 15 and 16 and learn his standing with respect to each of the above factors and the elements of strength and weakness in his farm business.

CROP ANALYSIS

The following crop analysis represent an attempt to show the comparable return to labor, management and capital per acre from each crop. The costs charged against each crop are:

- (1) the power and machinery costs, gas, oil, repairs, and depreciation
 - (2) fertilizer
- (3) other costs: seed, chemicals, twine, seed treatment and hail insurance
- (4) land cost: the sum of 6%X land value plus tillable acre taxes
- (5) hired labor for such specialized crops as sugar beets and potatoes
 - (6) miscellaneous costs such as irrigation charges
 - (7) custom work hired

Table 9. Crop Production, 1970			
	1.		Yield
	Unit	Acres	per Acre
Oats and mixtures	Bus	120.1	40.8
Oats silage	Ton	.6	4.3
Wheat	Bus	29.2	25.4
Barley	Bus	32.5	36.9
Flax	Bus	17.6	11.3
Rye	Bus	18.0	35.8
TOTAL SMALL GRAIN		218.0	
Corn grain and seed corn	Bus	9.5	50.5
Soybeans - grain	Bus	3.4	17.1
Corn and cane silage	Ton	14.5	7.6
Potatoes	Cwt	2.0	99.0
Sugar beets	Ton	.7	12.9
Sunflowers	Cwt	8.2	8.4
TOTAL CULTIVATED CROPS		38.3	
Alfalfa hay	Ton	56.2	2.3
Other legume hay and mixtures	Ton	11.4	1.8
Tame grass hay	Ton	. 4	1.6
Annual hay	Ton	2.3	1.7
Legume seed	Lbs	3.5	264.6
Grass seed	Lbs	4.2	240.4
TOTAL HAY		78.0	
Alfalfa and mixed pasture		19.1	
Other legume pasture			
Other tillable pasture		7.8	
TOTAL TILLABLE PASTURE		26.9	
Diverted acres income	\$	86.5	4.49
Other tillable land idle	•	9.3	
TOTAL TILLABLE LAND	4	457.0	
Wild hay	\$	2.7	.37
Non-tillable pasture		41.8	
Timber	\$	18.4	.05
Roads and waste		33.7	
Farmstead		9.3	
TOTAL ACRES IN FARM		562.9	
SUPPLEMENTARY MANAGEMENT INFORMATION			
Percent land tillable			81.4
*Fertilizer cost per acre			3.31
*Crop chemicals per acre			.46
*Seed and other costs per acre			3.31
*Gas, oil, grease bought per acre, cro	p machinery		2.05

^{*}Tillable land minus pasture

Table 10. Crop Data for Oats and M	Average	146 High	146 Low
	293 Farms	Farms	Farms
	Per Acre	Per Acre	Per Acre
7	132.0	122 6	120.0
Acres		132.6	132.2
Yield per acre	40.8	53.0	28.7
Value per unit	.56	.57	.54
Gross return	22.85	30.21	15.50
SUPPLEMENTAL COSTS			
Fertilizer	4.35	4.56	4.14
Chemicals	.38	.44	.33
Seed and other	2.69	2.87	2.50
Hired labor	.08		.14
Custom work	.35	.41	.27
TOTAL SUPPLEMENTAL COSTS	7.85	8.28	7.38
Return over supplemental costs	15.00	21.93	8.12
Recurr over supprementar costs	10.00	<i>د د و خد</i> ک	0.12
ALLOCATED COSTS			
Power and crop machinery expense		7.8 3	8.10
Land cost	7.19	8.53	5.84
TOTAL ALLOCATED COSTS	14.81	16.36	13.94
TOTAL LISTED COSTS	22.66	24.64	21.32
Per unit cost	•55	.47	.74
RETURN OVER TOTAL LISTED COSTS	.19	5.57	(-5.82)
Table 10. Crop Data for Oats Silag	e 1970		
Table 10. Clop 2444 for 6445 51149	Average	4 High	4 Low
	8 Farms	Farms	Farms
	Per Acre	Per Acre	Per Acre
Acres	18.1	21.5	14.8
Yield per acre	4.3	5.2	2.8
Value per unit	5.25	5.25	5.25
Gross return	22.58	27.30	14.70
GIOSS LECULII	22.50	2/*50	1.4.70
SUPPLEMENTAL COSTS			
Fertilizer	4.09	4.88	2.97
Chemicals	.28	. 47	
Seed and other	3.15	3.72	2.36
TOTAL SUPPLEMENTAL COSTS	7.52	9.07	5.33
Return over supplemental costs	15.06	18.23	9.37
ALLOCATED COSTS			
Power and crop machinery expense	10.16	10.44	10.80
And the second s	0 57	0.07	77 077

8.57

18.73

26.25

(-3.67)

6.17

8.97

19.41

28.48

(-1.18)

5.52

7.97

18.77

24.10

8.49 (-9.40)

RETURN OVER TOTAL LISTED COSTS

TOTAL ALLOCATED COSTS

Per unit cost

TOTAL LISTED COSTS

Land cost

-20-			
Table 10. Crop Data for Wheat, 19	70		
	Average	113 High	113 Low
	227 Farms	Farms	Farms
	Per Acre	Per Acre	Per Acre
Acres	41.6	43.9	38.9
Yield per acre	25.4	31.6	18.5
Value per unit	1.78	1.75	1.81
Gross return	45.21	55.30	33.49
SUPPLEMENTAL COSTS		5.00	
Fertilizer	5.65	6.29	4.86
Chemicals	. 87	1.21	.51
Seed and other	4.71	5.19	4.11
Custom work	.43	.50	.39
TOTAL SUPPLEMENTAL COSTS	11.66	13.19	9.87
Return over supplemental costs	33.55	42.11	23.62
ALLOCATED COSTS			
Power and crop machinery expense	7.62	7.83	8.10
Land cost	9.08	10.48	7.28
TOTAL ALLOCATED COSTS	16.70	18.31	15.38
TOTAL LISTED COSTS	28.36	31.50	25.25
Per unit cost	1.12	1.00	1.36
RETURN OVER TOTAL LISTED COSTS		23.80	8.24
		23.000	

Table 10. Crop Data for Barley, 19	270		
	Average	71 High	71 Low
	143 Farms	Farms	Farms
	Per Acre	Per Acre	Per Acre
7	65.1	60.0	61.0
Acres	36.9	69.9	61.0 26.6
Yield per acre	.91	45.8	
Value per unit		.92	.90
Gross return	33.58	42.14	23.94
SUPPLEMENTAL COSTS			
Fertilizer	5.24	5.58	4.82
Chemicals	. 89	1.22	.52
Seed and other	3.07	3.26	2.85
Custom work	.38	.49	.23
TOTAL SUPPLEMENTAL COSTS	9.58	10.55	8.42
Return over supplemental costs	24.00	31.59	15.52
un ==			

7.83

10.39

18.22

28.77

.63

13.37

8.10

7.79

15.89

24.31

.91

(-.37)

7.62

9.19

16.81

26.39 .72 7.19

ALLOCATED COSTS

Land cost

Power and crop machinery expense

RETURN OVER TOTAL LISTED COSTS

TOTAL ALLOCATED COSTS

TOTAL LISTED COSTS Per unit cost

Table 10. Crop Data for Flax, 197	Average	32 High	32 Low
	64 Farms Per Acre	Farms Per Acre	Farms Per Acre
Acres	64.5	84.5	44.5
Yield per acre	11.3	14.3	5.5
Value per unit	2.26	2.31	2.21
Gross return	25.54	33.03	12.16
SUPPLEMENTAL COSTS			
Fertilizer	2.53	2.78	2.04
Chemicals	.82	1.02	.47
Seed and other	3.74	3.70	3.80
Custom work	.40	.36	.49
TOTAL SUPPLEMENTAL COSTS	7.49	7.86	6.80
Return over supplemental costs	18.05	25.17	5.36
ALLOCATED COSTS			
Power and crop machinery expense	7.62	7.83	8.10
Land cost	8.68	8.90	8.27
TOTAL ALLOCATED COSTS	16.30	16.73	16.37
TOTAL LISTED COSTS	23.79	24.59	23.17
Per unit cost	2.11	1.72	4.21
RETURN OVER TOTAL LISTED COSTS	1.75	8.44	(-11.01)
Table 10. Crop Data for Rye, 1970			
	Average	19 High	19 Low
	38 Farms	Farms	Farms
	Per Acre	Per Acre	Per Acre
Acres	63.4	73.6	53.3
Yield per acre	28.0	38.1	14.1
Tralua nor imit	92	84	1 00

	Average 38 Farms Per Acre	Farms Per Acre	Farms Per Acre
Acres	63.4 28.0	73.6 38.1	53.3 14.1
Yield per acre Value per unit	.92	.84	1.00
Gross return	25.76	32.00	14.10
SUPPLEMENTAL COSTS			
Fertilizer	2.95	3.63	1.99
Chemicals	.27	.42	.06
Seed and other	2.27	2.30	2.25
Custom work	.27	.15	.45
TOTAL SUPPLEMENTAL COSTS	5.76	6.50	4.75
Return over supplemental costs	20.00	25.50	9.35
ALLOCATED COSTS			
Power and crop machinery expense	7.62	7.83	8.10
Land cost	7.78	8.86	6.29
TOTAL ALLOCATED COSTS	15.40	16.69	14.39
TOTAL LISTED COSTS	21.16	23.19	19.14
Per unit cost	.76	.61	1.36
RETURN OVER TOTAL LISTED COSTS	4.60	8.81	(-5.04)

Table 10. Crop Data for Corn for	Average	32 High	32 Low
	65 Farms	Farms	Farms
	Per Acre	Per Acre	Per Acre
Acres	36.8	45.8	28.2
Yield per agre	50.5	59.8	35.7
Value per unit	1.19	1.18	1.19
Gross return	60.10	70.56	42.48
SUPPLEMENTAL COSTS			
Fertilizer	9.21	9.37	8.84
Chemicals	3.04	3.56	2.17
Seed and other	4.63	4.74	4.38
Custom work	1.15	.70	1.92
TOTAL SUPPLEMENTAL COSTS	18.03	18.37	17.31
Return over supplemental costs	42.07	52.19	25.17
ALLOCATED COSTS			
Power and crop machinery expense	13.97	14.36	14.85
Land cost	10.52	10.79	10.21
TOTAL ALLOCATED COSTS	24.49	25.15	25.06
TOTAL LISTED COSTS	42.52	43.52	42.37
Per unit cost	.84	.73	1.19
RETURN OVER TOTAL COSTS	17.58	27.04	.11
		· acuriquos communication in the communication of t	
Table 10. Crop Data for Soybeans -			
	Average 21 Farms	10 High Farms	10 Low Farms

Table 10. Crop Data for Soybeans -	Grain, 1970	·	
	Average	10 High	10 Low
·	21 Farms	Farms	Farms
	Per Acre	Per Acre	Per Acre
A min m	49.3	63.3	34.6
Acres			
Yield per acre	17.1	19.0	13.8
Value per unit	2.47	2.53	2.42
Gross return	42.24	48.07	33.40
SUPPLEMENTAL COSTS			
Fertilizer	1.14	1.31	.98
Chemicals	.99	1.52	.20
Seed and other	4.48	4.44	4.57
	.18	.30	2001
Custom work			c 75
TOTAL SUPPLEMENTAL COSTS	6.79	7.57	5.75
Return over supplemental costs	35.45	40.50	27.65
ALLOCATED COSTS			
Power and crop machinery expense	11.43	11.75	12.15
Land cost	13.22	15.50	9.19
TOTAL ALLOCATED COSTS	24.65	27.25	21.34
TOTAL LISTED COSTS	31.44	34.82	27.09
Per unit cost	1.84	1.83	1.97
		W-1/	
RETURN OVER TOTAL LISTED COSTS	10.80	13.25	6.31

Table 10. Crop Data for Sunflowers, 1970

TOTAL DOLLAR TOTAL DOLLAR TOWARD	S, 1970		
	Average	11 High	11 Low
	22 Farms	Farms	Farms
	Per Acre	Per Acre	Per Acre
Acres			
	115.2	96.8	133.5
Yield per acre	8.4	9.9	7.4
Value per unit	4.54	4.68	4.40
Gross return	38.14	46.33	32.56
SUPPLEMENTAL COSTS			
Fertilizer	4.13	2.02	
Chemicals	.47	3.03	4.94
Seed and other		.67	.32
Custom work	2.88	2.60	3.09
TOTAL SUPPLEMENTAL COSTS	1.46	2.24	.89
	8.94	8.54	9.24
Return over supplemental costs	29.20	37.79	23.32
ALLOCATED COSTS			
Power and crop machinery expense	13.97	14 20	7.4.00
Land cost	8.46	14.36	14.85
TOTAL ALLOCATED COSTS	22.43	8.25	8.63
TOTAL LISTED COSTS		22.61	23.48
Per unit cost	31.37	31.15	32.72
RETURN OVER TOTAL LISTED COSTS	3.71	3.15	4.42
TOTAL OVER TOTAL LISTED COSTS	6.77	15.18	(16)

Table 10. Crop Data for Corn and	Cane Silage,	1970	
	Average	71 High	71 Low
	142 Farms	Farms	Farms
	Per Acre	Per Acre	Per Acre
Acres	33.0	31.1	35.0
Yield per acre	7.6	10.0	5.5
Value per unit	5.95	5.88	6.01
Gross return	45.22	58.80	33.06
SUPPLEMENTAL COSTS Fertilizer Chemicals Seed and other Custom work TOTAL SUPPLEMENTAL COSTS Return over supplemental costs	6.00	6.78	5.31
	1.82	2.15	1.51
	3.73	3.73	3.71
	1.36	1.80	1.00
	12.91	14.46	11.53
	32.31	44.34	21.53
ALLOCATED COSTS Power and crop machinery expense Land cost TOTAL ALLOCATED COSTS TOTAL LISTED COSTS Per unit cost RETURN OVER TOTAL LISTED COSTS	8.45 28.77 41.68 5.48	20.88 8.52 29.40 43.86 4.39 14.94	21.60 8.34 29.94 41.47 7.60 (-8.41)

Table 10. Crop Data for Diverted Acres, 1970

Table IV. Crop Data for Diverted Acres, I		
	Average	1000
	253 Farms	
	Per Acre	
		
Acres	109.7	
Yield per acre	4.49	
Value per unit	1.00	
Gross return	4.49	
		•
SUPPLEMENTAL COSTS		
Fertilizer	.07	
Seed and other	.06	
TOTAL SUPPLEMENTAL COSTS	.13	
Return over supplemental costs	4.36	
ALLOCATED COSTS		
Power and crop machinery expense	10.16	
Land cost	6.94	
TOTAL ALLOCATED COSTS	17.10	
TOTAL LISTED COSTS	17.23	
Per unit cost	3.83	
RETURN OVER TOTAL LISTED COSTS	(-12.74)	
	• •	

Table 10. Crop Data for Alfalfa Hay, 1970

	Average	125 High	125 Low
	251 Farms	Farms	Farms
	Per Acre	Per Acre	Per Acre
Acres	72.0	63.0	81.0
	2.3	3.0	1.7
Yield per acre	15.17	15.75	14.59
Value per unit	34.89	47.25	24.80
Gross return	34.09	47.23	24.00
SUPPLEMENTAL COSTS			
Fertilizer	2.10	2.98	1.43
Chemicals			.01
Seed and other	1.95	2.56	1.49
Custom work	.24	.27	.22
TOTAL SUPPLEMENTAL COSTS	4.29	5.81	3.15
Return over supplemental costs	30.60	41.44	21.65
ALLOCATED COSTS			
Power and crop machinery expense	15.24	15.66	16.20
Land cost	6.64	7.94	5.65
TOTAL ALLOCATED COSTS	21.88	23.60	21.85
TOTAL LISTED COSTS	26.17	29.41	25.00
Per unit cost	11.63	9.80	14.89
RETURN OVER TOTAL LISTED COSTS		17.84	(20)
As because come but the \$ 1 to \$1 dead to \$ 100 to the contract contract contract contract the besides of the \$100 \$100 \$100 \$100 \$100 \$100 \$100 \$10	~		(/

Table 10. Crop Data for Other Legu	me Hay and Mix	ctures, 1970	
	Average	34 High	34 Low
	69 Farms	Farms	Farms
	Per Acre	Per Acre	Per Acre
		A	
Acres	53.5	47.6	60.5
Yield per acre	1.8	2.4	1.3
Value per unit	13.77	14.06	13.41
Gross return	24.79	33.74	17.43
SUPPLEMENTAL COSTS			
Fertilizer	1.61	2.31	1.06
Seed and other	1.52	2.23	.97
Hired labor		.02	• 5 /
	.17	.15	.18
Custom work			
TOTAL SUPPLEMENTAL COSTS	3.30	4.71	2.21
Return over supplemental costs	21.49	29.03	15.22
ALLOCATED COSTS			
Power and crop machinery expense	10.16	10.44	10.80
Land cost	6.74	7.16	6.38
	16.90	17.60	17.18
TOTAL LISTED COSTS	20.20	22.31	19.39
Per unit cost	11.50	9.32	15.44
RETURN OVER TOTAL LISTED COSTS		11.43	(-1.96)

	Average 12 Farms Per Acre	6 High Farms Per Acre	6 Low Farms Per Acre
	FO 3	OF F	22.2
Acres	59.3	85.5	33.2
Yield per acre	1.7	2.2	.5
Value per unit	11.50	12.83	10.17
Gross return	19.55	28.23	5.09
SUPPLEMENTAL COSTS			
Fertilizer	.31		1.11
Seed and other	.58	.43	.93
Hired labor	.92	1.25	*
Custom work	.19	11 (EU.)	.65
TOTAL SUPPLEMENTAL COSTS	2.00	1.68	2.69
Return over supplemental costs	17.55	26.55	2.40
ALLOCATED COSTS			
Power and crop machinery expense	e 7.62	7.83	8.10
Land cost	8.46	9.05	6.87
TOTAL ALLOCATED COSTS	16.08	16.88	14.97
TOTAL LISTED COSTS	18.08	18.56	17.66
Per unit cost	10.41	8.44	32.57
RETURN OVER TOTAL LISTED COSTS		9.67	(-12.57)
Table 10. Crop Data for Tame Gras	ss Hay, 1970	Average 6 Farms	
Table 10. Crop Data for Tame Gras	ss Hay, 1970	_	
Table 10. Crop Data for Tame Gras Acres	ss Hay, 1970	6 Farms Per Acre 22.3	
Acres	ss Hay, 1970	6 Farms Per Acre	
Acres Yield per acre	ss Hay, 1970	6 Farms Per Acre 22.3	
Acres	ss Hay, 1970	6 Farms Per Acre 22.3 1.6	
Acres Yield per acre Value per unit Gross return	ss Hay, 1970	6 Farms Per Acre 22.3 1.6 12.50	
Acres Yield per acre Value per unit Gross return SUPPLEMENTAL COSTS	ss Hay, 1970	6 Farms Per Acre 22.3 1.6 12.50 20.00	
Acres Yield per acre Value per unit Gross return SUPPLEMENTAL COSTS Fertilizer	ss Hay, 1970	6 Farms Per Acre 22.3 1.6 12.50 20.00	
Acres Yield per acre Value per unit Gross return SUPPLEMENTAL COSTS Fertilizer Seed and other	ss Hay, 1970	6 Farms Per Acre 22.3 1.6 12.50 20.00 1.61 .94	
Acres Yield per acre Value per unit Gross return SUPPLEMENTAL COSTS Fertilizer Seed and other TOTAL SUPPLEMENTAL COSTS	ss Hay, 1970	6 Farms Per Acre 22.3 1.6 12.50 20.00 1.61 .94 2.55	
Acres Yield per acre Value per unit Gross return SUPPLEMENTAL COSTS Fertilizer Seed and other	ss Hay, 1970	6 Farms Per Acre 22.3 1.6 12.50 20.00 1.61 .94	
Acres Yield per acre Value per unit Gross return SUPPLEMENTAL COSTS Fertilizer Seed and other TOTAL SUPPLEMENTAL COSTS Return over supplemental costs ALLOCATED COSTS		6 Farms Per Acre 22.3 1.6 12.50 20.00 1.61 .94 2.55 17.45	
Acres Yield per acre Value per unit Gross return SUPPLEMENTAL COSTS Fertilizer Seed and other TOTAL SUPPLEMENTAL COSTS Return over supplemental costs		6 Farms Per Acre 22.3 1.6 12.50 20.00 1.61 .94 2.55 17.45	
Acres Yield per acre Value per unit Gross return SUPPLEMENTAL COSTS Fertilizer Seed and other TOTAL SUPPLEMENTAL COSTS Return over supplemental costs ALLOCATED COSTS		6 Farms Per Acre 22.3 1.6 12.50 20.00 1.61 .94 2.55 17.45	
Acres Yield per acre Value per unit Gross return SUPPLEMENTAL COSTS Fertilizer Seed and other TOTAL SUPPLEMENTAL COSTS Return over supplemental costs ALLOCATED COSTS Power and crop machinery expense		6 Farms Per Acre 22.3 1.6 12.50 20.00 1.61 .94 2.55 17.45	
Acres Yield per acre Value per unit Gross return SUPPLEMENTAL COSTS Fertilizer Seed and other TOTAL SUPPLEMENTAL COSTS Return over supplemental costs ALLOCATED COSTS Power and crop machinery expense Land cost TOTAL ALLOCATED COSTS		6 Farms Per Acre 22.3 1.6 12.50 20.00 1.61 .94 2.55 17.45 5.08 3.09 8.17	
Acres Yield per acre Value per unit Gross return SUPPLEMENTAL COSTS Fertilizer Seed and other TOTAL SUPPLEMENTAL COSTS Return over supplemental costs ALLOCATED COSTS Power and crop machinery expense Land cost		6 Farms Per Acre 22.3 1.6 12.50 20.00 1.61 .94 2.55 17.45 5.08 3.09	

Table 10. Crop Data for Legume Seed, 1970		
	Average	
•	25 Farms	
	Per Acre	
Acres	28.9	
Yield per acre	264.6	
Value per unit	.22	
Gross return	58.21	
SUPPLEMENTAL COSTS		
Fertilizer	2.25	
Chemicals	.14	
Seed and other	1.97	
Custom work	1.04	
TOTAL SUPPLEMENTAL COSTS	5.40	
Return over supplemental costs	52.81	
incutii over supplications on as	<i></i>	
ALLOCATED COSTS		
Power and crop machinery expense	10.16	
Land cost	7.34	
TOTAL ALLOCATED COSTS	17.50	
TOTAL LISTED COSTS	22.90	
Per unit cost	.09	
RETURN OVER TOTAL LISTED COSTS	35.31	
Table 10. Crop Data for Grass Seed, 1970	Average 25 Farms Per Acre	
Acres	54.6	
Yield per acre	240.4	
Value per unit	.14	
Gross return	33.66	
Gloss recuri	33.00	
SUPPLEMENTAL COSTS		
Fertilizer	3.44	
Chemicals	.42	
Seed and other		
seed and other	2.18	
Custom work	2.18 1.08	
Custom work	1.08	
Custom work TOTAL SUPPLEMENTAL COSTS Return over supplemental costs	1.08 7.12	
Custom work TOTAL SUPPLEMENTAL COSTS Return over supplemental costs ALLOCATED COSTS	1.08 7.12 26.54	
Custom work TOTAL SUPPLEMENTAL COSTS Return over supplemental costs ALLOCATED COSTS Power and crop machinery expense	1.08 7.12 26.54	
Custom work TOTAL SUPPLEMENTAL COSTS Return over supplemental costs ALLOCATED COSTS Power and crop machinery expense Land cost	1.08 7.12 26.54 10.16 6.19	
Custom work TOTAL SUPPLEMENTAL COSTS Return over supplemental costs ALLOCATED COSTS Power and crop machinery expense Land cost TOTAL ALLOCATED COSTS	1.08 7.12 26.54 10.16 6.19 16.35	
Custom work TOTAL SUPPLEMENTAL COSTS Return over supplemental costs ALLOCATED COSTS Power and crop machinery expense Land cost TOTAL ALLOCATED COSTS TOTAL LISTED COSTS	1.08 7.12 26.54 10.16 6.19 16.35 23.47	
Custom work TOTAL SUPPLEMENTAL COSTS Return over supplemental costs ALLOCATED COSTS Power and crop machinery expense Land cost TOTAL ALLOCATED COSTS	1.08 7.12 26.54 10.16 6.19 16.35	

TOTAL FEED COSTS AND RETURNS FROM YOUR LIVESTOCK ENTERPRISES

The total "return over feed costs" for each class of livestock is shown in Tables II through 18. This differs from the "return over feed" shown in the enterprise statement in that it is the total for each class of livestock instead of a return from all classes of livestock. These data indicate the relative importance of different classes of livestock as a source of income and as a market for feed. The total return is the same as the returns and net increases shown on page 8. The return over feed is not a net return, but rather the amount available, after feed costs, to cover the costs for hired labor, power, equipment, taxes, insurance, interest and veterinary bills and to provide a return for the use of family labor and capital.

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

Supplemental costs have been included in the computer analysis of all livestock enterprises to more nearly reflect total costs of livestock production.

25 Farms Farms Farms Per Lit. Per Lit.	Table 11 A. Costs and Returns From Co	Average	8 High	8 Iow
Per Lit. Per Lit. Per Lit. Per Lit.				
Pounds of hogs produced \$17.35 \$18.13 \$14.60 Pounds of Feed Fed Corn 164.0 148.4 174.1 177.3 147.3 230.9 177.3 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9				, , , ,
Total value produced \$ 17.35 \$ 18.13 \$ 14.60 Pounds of Feed Fed Corn 164.0 148.4 174.1 177.3 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 23.9 264.8 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9		104 446	FCT TILLS	EGT TITE
Total value produced \$ 17.35 \$ 18.13 \$ 14.60 Pounds of Feed Fed Corn 164.0 148.4 174.1 177.3 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 147.3 230.9 23.9 264.8 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9	Pounds of hogs produced	45200	60764	23126
Pounds of Feed Fed Corn 164.0 148.4 174.1 Small grain 177.3 147.3 230.9 Protein, salt and mineral 43.7 50.7 64.8 Complete ration 70.0 28.1 79.5 Total Concentrates 454.0 374.5 549.3 Forages 9.9 3.2 25.9 Feed Cost Concnetrates and forages 12.57 9.81 15.42 Pasture Total Feed Costs \$12.57 \$9.81 \$15.42 RETURN OVER FEED COST \$4.78 \$8.32 \$(82) Supplemental Costs Miscellaneous livestock expense .39 .26 .38 Veterinary expense .20 .10 .31 Custom work .29 .15 .47 Total Supplemental Costs .88 .51 1.16 RETURN OVER FEED AND SUPPLEMENTAL COSTS 3.90 \$7.81 \$(-1.98) SUPPLEMENTARY MANAGEMENT INFORMATION Return for \$100 feed fed \$138.01 \$184.82 \$94.70 Price received per cwt. \$22.49 \$23.39 \$20.62 Number of litters farrowed 27 28 13 Number of pigs born per litter 9.7 9.9 10.7 Number of pigs weaned per litter 7.7 8.1 8.2 Per cent death loss 15.0 13.0 16.2 Average weight of hogs sold 224.5 243.7 231.4 Price per cwt. concentrate fed \$1.15 \$2.61 \$2.77				
Corn Small grain 174.1 Small grain 177.3 147.3 230.9 Protein, salt and mineral 43.7 50.7 64.8 Complete ration 70.0 28.1 79.5 Total Concentrates 454.0 374.5 549.3 Forages 9.9 3.2 25.9 Feed Cost Concnetrates and forages 12.57 9.81 15.42 Pasture Total Feed Costs \$12.57 \$9.81 \$15.42 RETURN OVER FEED COST \$4.78 \$8.32 \$(82) Supplemental Costs Miscellaneous livestock expense .39 .26 .38 Veterinary expense .20 .10 .31 Custom work .29 .15 .47 Total Supplemental Costs .88 .51 1.16 RETURN OVER FEED AND SUPPLEMENTAL COSTS \$3.90 \$7.81 \$(-1.98) SUPPLEMENTARY MANAGEMENT INFORMATION Return for \$100 feed fed \$138.01 \$184.82 \$94.70 Price received per cwt. \$22.49 \$23.39 \$20.62 Number of litters farrowed 27 28 13 Number of pigs born per litter 9.7 9.9 10.7 Number of pigs weaned per litter 7.7 8.1 8.2 Per cent death loss 15.0 13.0 16.2 Average weight of hogs sold 224.5 243.7 231.4 Price per cwt. concentrate fed \$1.15 \$2.61 \$2.77		+ m., 100	7 40.43	4 T4.00
Small grain 177.3 147.3 230.9	Pounds of Feed Fed	•		
Small grain	Corn	164.0	148.4	174.1
Protein, salt and mineral	Small grain			
Complete ration 70.0 28.1 79.5 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.	Protein, salt and mineral	•		
Total Concentrates		and the second s		
Forages 9.9 3.2 25.9 Feed Cost	Total Concentrates	454.0		
Feed Cost	•			
Teed Cost Concnetrates and forages 12.57 9.81 15.42 Pasture Total Feed Costs \$ 12.57 \$ 9.81 \$ 15.42 RETURN OVER FEED COST \$ 4.78 \$ 8.32 \$ (82) \$ Supplemental Costs Miscellaneous livestock expense .39 .26 .38 Veterinary expense .20 .10 .31 Custom work .29 .15 .47 Total Supplemental Costs .88 .51 1.16	Forages	9.9	3.2	25.9
Concentrates and forages 12.57 9.81 15.42 Pasture		•		
Pasture Total Feed Costs	· · · · · · · · · · · · · · · · · · ·		•	
### Total Feed Costs		12.57	9.81	15.42
RETURN OVER FEED COST \$ 4.78 \$ 8.32 \$ (82) Supplemental Costs Miscellaneous livestock expense .39 .26 .38 Veterinary expense .20 .10 .31 Custom work .29 .15 .47 Total Supplemental Costs .88 .51 1.16 RETURN OVER FEED AND SUPPLEMENTAL COSTS \$ 3.90 \$ 7.81 \$ (-1.98) SUPPLEMENTARY MANAGEMENT INFORMATION Return for \$100 feed fed \$138.01 \$184.82 \$ 94.70 Price received per cwt. \$ 22.49 \$ 23.39 \$ 20.62 Number of litters farrowed .27 .28 .13 Number of pigs born per litter .9.7 9.9 10.7 Number of pigs weaned per litter .7.7 8.1 8.2 Per cent death loss .15.0 13.0 16.2 Average weight of hogs sold .224.5 243.7 231.4 Price per cwt. concentrate fed \$ 1.15 \$ 2.61 \$ 2.77				
Supplemental Costs Miscellaneous livestock expense .39 .26 .38 Veterinary expense .20 .10 .31 Custom work .29 .15 .47 Total Supplemental Costs .88 .51 l.16 RETURN OVER FEED AND SUPPLEMENTAL COSTS \$ 3.90 \$ 7.81 \$ (-1.98) SUPPLEMENTARY MANAGEMENT INFORMATION Return for \$100 feed fed \$138.01 \$184.82 \$ 94.70 Price received per cwt. \$ 22.49 \$ 23.39 \$ 20.62 Number of litters farrowed .27 .28 .13 Number of pigs born per litter .9.7 .9.9 .10.7 Number of pigs weaned per litter .7.7 8.1 8.2 Per cent death loss .15.0 .13.0 .16.2 Average weight of hogs sold .224.5 .243.7 .231.4 Price per cwt. concentrate fed \$ 1.15 \$ 2.61 \$ 2.77	Total Feed Costs	\$ 12.57	\$ 9.81	\$ 15.42
Supplemental Costs Miscellaneous livestock expense .39 .26 .38 Veterinary expense .20 .10 .31 Custom work .29 .15 .47 Total Supplemental Costs .88 .51 l.16 RETURN OVER FEED AND SUPPLEMENTAL COSTS \$ 3.90 \$ 7.81 \$ (-1.98) SUPPLEMENTARY MANAGEMENT INFORMATION Return for \$100 feed fed \$138.01 \$184.82 \$ 94.70 Price received per cwt. \$ 22.49 \$ 23.39 \$ 20.62 Number of litters farrowed .27 .28 .13 Number of pigs born per litter .9.7 .9.9 .10.7 Number of pigs weaned per litter .7.7 8.1 8.2 Per cent death loss .15.0 .13.0 .16.2 Average weight of hogs sold .224.5 .243.7 .231.4 Price per cwt. concentrate fed \$ 1.15 \$ 2.61 \$ 2.77				
Miscellaneous livestock expense .39 .26 .38 Veterinary expense .20 .10 .31 Custom work .29 .15 .47 Total Supplemental Costs .88 .51 .16 RETURN OVER FEED AND SUPPLEMENTAL COSTS \$ 3.90 \$ 7.81 \$ (-1.98) SUPPLEMENTARY MANAGEMENT INFORMATION Return for \$100 feed fed \$138.01 \$184.82 \$ 94.70 Price received per cwt. \$ 22.49 \$ 23.39 \$ 20.62 Number of litters farrowed .27 .28 .13 Number of pigs born per litter .9.7 9.9 10.7 Number of pigs weaned per litter .7.7 8.1 8.2 Per cent death loss .15.0 13.0 16.2 Average weight of hogs sold .224.5 .243.7 231.4 Price per cwt. concentrate fed \$ 1.15 \$ 2.61 \$ 2.77	RETURN OVER FEED COST	\$ 4.78	\$ 8.32	\$ (82)
Miscellaneous livestock expense .39 .26 .38 Veterinary expense .20 .10 .31 Custom work .29 .15 .47 Total Supplemental Costs .88 .51 .16 RETURN OVER FEED AND SUPPLEMENTAL COSTS \$ 3.90 \$ 7.81 \$ (-1.98) SUPPLEMENTARY MANAGEMENT INFORMATION Return for \$100 feed fed \$138.01 \$184.82 \$ 94.70 Price received per cwt. \$ 22.49 \$ 23.39 \$ 20.62 Number of litters farrowed .27 .28 .13 Number of pigs born per litter .9.7 9.9 10.7 Number of pigs weaned per litter .7.7 8.1 8.2 Per cent death loss .15.0 13.0 16.2 Average weight of hogs sold .224.5 .243.7 231.4 Price per cwt. concentrate fed \$ 1.15 \$ 2.61 \$ 2.77	Charles I amount of Court of			* -
Veterinary expense .20 .10 .31 Custom work .29 .15 .47 Total Supplemental Costs .88 .51 1.16 RETURN OVER FEED AND SUPPLEMENTAL COSTS \$ 3.90 \$ 7.81 \$ (-1.98) SUPPLEMENTARY MANAGEMENT INFORMATION \$ 138.01 \$ 184.82 \$ 94.70 Price received per cwt. \$ 22.49 \$ 23.39 \$ 20.62 Number of litters farrowed 27 28 13 Number of pigs born per litter 9.7 9.9 10.7 Number of pigs weaned per litter 7.7 8.1 8.2 Per cent death loss 15.0 13.0 16.2 Average weight of hogs sold 224.5 243.7 231.4 Price per cwt. concentrate fed \$ 1.15 \$ 2.61 \$ 2.77				
Custom work Total Supplemental Costs				
Total Supplemental Costs .88 .51 1.16 RETURN OVER FEED AND SUPPLEMENTAL COSTS \$ 3.90 \$ 7.81 \$ (-1.98) SUPPLEMENTARY MANAGEMENT INFORMATION Return for \$100 feed fed \$138.01 \$184.82 \$ 94.70 Price received per cwt. \$ 22.49 \$ 23.39 \$ 20.62 Number of litters farrowed 27 28 13 Number of pigs born per litter 9.7 9.9 10.7 Number of pigs weaned per litter 7.7 8.1 8.2 Per cent death loss 15.0 13.0 16.2 Average weight of hogs sold 224.5 243.7 231.4 Price per cwt. concentrate fed \$ 1.15 \$ 2.61 \$ 2.77				
RETURN OVER FEED AND SUPPLEMENTAL COSTS \$ 3.90 \$ 7.81 \$ (-1.98) SUPPLEMENTARY MANAGEMENT INFORMATION Return for \$100 feed fed \$138.01 \$184.82 \$ 94.70 Price received per cwt. \$ 22.49 \$ 23.39 \$ 20.62 Number of litters farrowed 27 28 13 Number of pigs born per litter 9.7 9.9 10.7 Number of pigs weaned per litter 7.7 8.1 8.2 Per cent death loss 15.0 13.0 16.2 Average weight of hogs sold 224.5 243.7 231.4 Price per cwt. concentrate fed \$ 1.15 \$ 2.61 \$ 2.77				
SUPPLEMENTARY MANAGEMENT INFORMATION Return for \$100 feed fed \$138.01 \$184.82 \$ 94.70 Price received per cwt. \$ 22.49 \$ 23.39 \$ 20.62 Number of litters farrowed 27 28 13 Number of pigs born per litter 9.7 9.9 10.7 Number of pigs weaned per litter 7.7 8.1 8.2 Per cent death loss 15.0 13.0 16.2 Average weight of hogs sold 224.5 243.7 231.4 Price per cwt. concentrate fed \$ 1.15 \$ 2.61 \$ 2.77	Total Supplemental Costs	.88	•51	1,16
SUPPLEMENTARY MANAGEMENT INFORMATION Return for \$100 feed fed \$138.01 \$184.82 \$ 94.70 Price received per cwt. \$ 22.49 \$ 23.39 \$ 20.62 Number of litters farrowed 27 28 13 Number of pigs born per litter 9.7 9.9 10.7 Number of pigs weaned per litter 7.7 8.1 8.2 Per cent death loss 15.0 13.0 16.2 Average weight of hogs sold 224.5 243.7 231.4 Price per cwt. concentrate fed \$ 1.15 \$ 2.61 \$ 2.77	DETITION OVER EFET AND CLIDELEMENTIAL COCHE	ė 2 00	ć 7 O3	6/3 00
Return for \$100 feed fed \$138.01 \$184.82 \$ 94.70 Price received per cwt. \$22.49 \$23.39 \$20.62 Number of litters farrowed 27 28 13 Number of pigs born per litter 9.7 9.9 10.7 Number of pigs weaned per litter 7.7 8.1 8.2 Per cent death loss 15.0 13.0 16.2 Average weight of hogs sold 224.5 243.7 231.4 Price per cwt. concentrate fed \$ 1.15 \$ 2.61 \$ 2.77	METORIA CVER FEED AND SUPPLIENTAL COSTS	\$ 3.90	\$ \'8T	\$(⊶T.98)
Return for \$100 feed fed \$138.01 \$184.82 \$ 94.70 Price received per cwt. \$22.49 \$23.39 \$20.62 Number of litters farrowed 27 28 13 Number of pigs born per litter 9.7 9.9 10.7 Number of pigs weaned per litter 7.7 8.1 8.2 Per cent death loss 15.0 13.0 16.2 Average weight of hogs sold 224.5 243.7 231.4 Price per cwt. concentrate fed \$ 1.15 \$ 2.61 \$ 2.77	SIDDIEMENTARY MANACEMENT THEODMATTON		•	
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Number of litters farrowed 27 28 13 Number of pigs born per litter 9.7 9.9 10.7 Number of pigs weaned per litter 7.7 8.1 8.2 Per cent death loss 15.0 13.0 16.2 Average weight of hogs sold 224.5 243.7 231.4 Price per cwt. concentrate fed \$ 1.15 \$ 2.61 \$ 2.77				
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Number of pigs weaned per litter 7.7 8.1 8.2 Per cent death loss 15.0 13.0 16.2 Average weight of hogs sold 224.5 243.7 231.4 Price per cwt. concentrate fed \$ 1.15 \$ 2.61 \$ 2.77				' '."
Per cent death loss 15.0 13.0 16.2 Average weight of hogs sold 224.5 243.7 231.4 Price per cwt. concentrate fed \$ 1.15 \$ 2.61 \$ 2.77	Number of pigs weamed per litter			
Average weight of hogs sold 224.5 243.7 231.4 Price per cwt. concentrate fed \$ 1.15 \$ 2.61 \$ 2.77				·
Price per cwt. concentrate fed \$ 1.15 \$ 2.61 \$ 2.77				
	Pounds of pork purchased	1393	1065	1071

Table 11C. Costs and Returns from Producing Weaning Pigs, 1970 Average 9 High 9 Low 26 Farms Farms Farms Per Lit. Per Lit. Per Lit. 49 51 60 Number of litters farrowed \$ 108.02 \$134.23 \$ 74.71 Total value produced Pounds of Feed Fed 272.4 243.0 316.9 Corn 1344.5 1285.6 1494.6 Small grain 330.2 363.2 294.7 Protein, salt and mineral 147.3 324.1 378.0 Complete ration 2304.2 2201.3 Total Concentrates 2289.0 82.2 3.7 204.1 **FORAGES** Feed Cost 74.24 66.90 78.63 Concentrates and forages .45 .65 .33 Pasture \$ 67.55 \$ 78.96 Total Feed Costs 74.69 \$ 66.68 \$(-4.25) 33.33 RETURN OVER FEED COST Supplemental Costs 3.90 4.00 Miscellaneous livestock expense 3.73 3.29 4.03 3.31 Veterinary expense 1.10 1.39 1.55 Custom work 8.57 \$ 9.13 \$ 8.60 Total Supplemental Costs \$(-12.85) RETURN OVER FEED AND SUPPLEMENTAL COSTS \$ 24.76 \$ 57.55 SUPPLEMENTARY MANAGEMENT INFORMATION \$198.72 \$ 94.62 \$ 144.63 Return for \$100 feed fed \$ 18.66 Average price received per pig sold \$ 19.94 \$ 20.62 369 497 305 Number of pigs produced 8.8 9.0 9.4 Number of pigs born per litter 7.3 8.3 6.3 Number of pigs weaned per litter 16.2 9.8 23.9 Per cent death loss \$ 3.59 Price per cwt. concentrate fed 3.26 2.90 Feed and suppl. costs per pig produced 11.51 9.26 14.07

Table 11B. Costs and Returns From Hog 1	Finishing E	nterprise, l	.970
	Average 11 Farms Per Cwt.	5 High Farms Per Cwt.	5 Low Farms Per Cwt.
Average number of pigs on hand Pounds of hogs produced Total value produced	53.2 26707 \$ 13.21	50.9 28780 \$ 16.04	57.8 25179 \$ 10.08
Pounds of Feed Fed Corn Small grain Protein, salt and mineral Complete ration Total Concentrates	9.3 136.5 17.0 183.9 346.7	19.0 184.7 27.7 70.2 301.6	99.9 7.9 283.7 391.5
FORAGES			
Feed Cost Concentrates and forages Pasture Total Feed Costs	\$ 10.17 \$ 10.17	\$ 7.76 \$ 7.76	•
RETURN OVER FEED COST	\$ 3.04	\$ 8.28	\$(-2.26)
Supplemental Costs Miscellaneous livestock expense Veterinary expense Custom work Total Supplemental Costs RETURN OVER FEED AND SUPPLEMENTAL COSTS	.13 .08 .42 \$.63	.15 .13 .53 \$.81	.15 .04 .06 \$.25 \$(-2.51)
RETORN OVER FEED AND SUPPLIENTAL COSTS	4 2.4T	φ /.·•./	ψ(2.5±)
SUPPLEMENTARY MANAGEMENT INFORMATION Return for \$100 feed fed Price received per cwt. Average weight of pigs sold Average price paid per pig bought Average weight per pig bought Number of pigs purchased Pounds of pork purchased Per cent death loss Price per cwt. concentrate fed	\$129.93 \$ 21.23 208.4 \$ 15.80 40.7 124 5051 1.5 \$ 2.93	\$ 206.72 \$ 23.35 208.2 \$ 15.92 39.1 123 4814 1.0 \$ 2.57	\$ 81.65 \$ 17.61 221.1 \$ 15.58 41.7 151 6298 2.1 \$ 3.15

Table 12. Dairy Cows, 1970

	Table 12. Dairy Cows, 1970			
		Average	51 High	51 Low
		154 Farms	Farms	Farms
		Per Cow	Per Cow	Per Cow
	Average number of cows	29.7	33.2	23.9
	Pounds of milk	10917	12784	8364
	Pounds of butterfat	399.2	444.2	288.3
	Per cent of butterfat in milk	3.7	3.5	3.5
	Value of Produce Dairy products sold	503.84	610.93	346.32
	Dairy products used in home	6.06	6.14	7.28
		10.44	12.74	11.05
	Milk fed to livestock	8.01	28.92	(-4.60)
	Net increases in value of cows			
	TOTAL VALUE PRODUCED	\$ 528.35	\$ 658.73	\$ 360.05
	Pounds of feed fed			
	Corn	754.3	1257.0	407.6
	Small grain & complete dairy ration	3185.0	3180.6	3196.2
	Protein, salt and mineral	748.6	790.2	535.9
	TOTAL CONCENTRATES	4687.9	5227.8	4139.7
		maaa <i>a</i>	6400.0	7400 4
	Legume hay	7983.6	8438.3	7490.4
·	Other hay and dry roughage	330.5	53.6	599.7
	Silage	8854.3	11063.1	5114.4
	Feed Costs			
	Concentrates	108.05	123.52	88.70
	Roughages	90.34	97.92	75.15
4	Pasture	4.75	4.19	6.78
	TOTAL FEED COSTS	\$ 203.14	\$ 225.63	\$ 170.63
	TOTAL FIED COSTO	Y ZOOLL'E	¥ 22500	7 2.000
	RETURN OVER FEED COST	\$ 325.21	\$ 433.10	\$ 189.42
	Supplemental Costs			
	Miscellaneous livestock expense	18.45	24.55	9.79
	Veterinary expense	6.80	8.92	4.18
	Custom work	27.68	34.28	
	TOTAL SUPPLEMENTAL COSTS	\$ 52.93		
	RETURN OVER FEED AND SUPPLEMENTAL COSTS	s \$ 272.28	\$ 3 65.35	\$ 156.58
	SUPPLEMENTARY MANAGEMENT INFORMATION			
	Return for \$100 feed fed	\$ 260.10	\$ 291.95	\$ 211.01
i .		•		
	Feed cost per cwt. milk	\$ 1.86	\$ 1.76	\$ 2.04
	Feed cost per pounds of butterfat		\$.508 \$ 2.445 \$ 4.96	\$.592
	Pounds of milk per pound of concent		\$ 2.445	2.020
	Average price per cwt. milk sold		\$ 4.96	\$ 4.38
	Average price per pound of butterfa	t \$ 1.31	\$ 1.43	\$ 1.27
1				

Table 13. Other Dairy Cattle, 1970						
W-10-10-10-10-10-10-10-10-10-10-10-10-10-		Average		19 High	. 4	9 Low
		48 Farms		Farms		Farms
	E	Per Head	Ţ	Per Head	I	Per Head
Number of head		38.5		32.2		42.7
Net inc. in value	\$	111.19	\$	148.26	\$	78.45
Pounds of Feed Fed						
Concentrates		709.0		632.5		763.9
Hay and roughage		2937.3		2724.3		2829.3
Silage		2518.8		1294.2		3761.4
Milk		207.4		263.9		206.1
Feed Cost						
Concentrates		18.42		16.49		20.14
Roughages		30.03		24.75		32.90
Milk		8.10		10.25		7.26
Pasture		2.21		2.33		2.08
TOTAL FEED COST	\$	58.76	\$	53.82	\$	62.38
RETURN OVER FEED COST	\$	52.43	\$	94.44	\$	16.07
Supplemental Costs						
Miscellaneous livestock expense		.08		.28		
Veterinary expense		.03		.06		
Custom work		.13		.50		
TOTAL SUPPLEMENTAL COSTS	\$.24	\$.84		
RETURN OVER FEED AND SUPPLEMENTAL COSTS	\$	52.19	\$	93.60	\$	16.07
SUPPLEMENTARY MANAGEMENT INFORMATION						
Return for \$100 feed fed	\$	189.26	\$	275.48	\$	125.75
Per cent death loss		8.3		6.3		9.3

Table 14. All Dairy and Dual Purpose Cattle, 1970

Table 14. All Dairy and Dual Purpose	Cattle, 1970		
	Average	51 High	51 Low
	154 Farms	Farms	Farms
	Per Cow	Per Cow	Per Cow
Average number of cows	29.7	33.1	27.7
Value of dairy products	\$ 520.34	\$ 616.50	\$ 388.99
Net increase in value	\$ 148.28	\$ 191.09	\$ 107,80
TOTAL VALUE PRODUCED	\$ 668.62	\$ 807.59	\$ 496.79
Pounds of Feed Fed			
Concentrates	5601.8	5997.1	4747.5
Hay and dry roughage	11995.0	12736.0	11470.6
Silage	12009.7	14239.7	8287.7
Feed Cost			
Concentrates	141.45	155.02	115.70
Roughage	127.91	141.45	113.00
Pasture costs	7.51	7.16	8.59
TOTAL FEED COSTS	\$ 276.87	\$ 303.63	\$ 237.29
RETURN OVER FEED COST	\$ 391.75	\$ 503.96	\$ 259.50
Supplemental Costs			
Miscellaneous livestock expense	18.55	24.56	11.95
Veterinary expense	6.80	8.37	4.19
Custom work	27.85	33.99	20.25
TOTAL SUPPLEMENTAL COSTS	\$ 53.20	\$ 66.92	\$ 36.39
RETURN OVER FEED AND SUPPLEMENTAL COSTS	\$ 338.55	\$ 437.04	\$ 223.11
SUPPLEMENTARY MANAGEMENT INFORMATION			
Return for \$100 feed fed	\$ 241.49	\$ 265.98	\$ 209.36

Table 15A. Beef Breeding Cattle, 1970.

Table 15A. Beef Breeding Cattle, 1970.						·_ · _ · · · · · · · · · · · · · · · ·
		erage		6 High		26 Low
	79	Farms		arms		Farms
	Per	Cow	E	Per Cow		Per Cow
Arrayana number of boof gave		45.6		39.0		36.5
Average number of beef cows Average number of other beef animals &	hull I			32.4		26.5
	DULL	19504		19907		13320
Pounds of beef produced Net increase in value		139.91		192.18		96.36
Net increase in value		137.71		192.10		20.50
Pounds of Feed Fed						
Grain		335.4		352.7		276.2
Protein, salt and mineral		94.7		146.1		92.4
Legume hay		5409.2		5618.3		5881.6
Other hay and dry roughage		1122.0		1149.9		1418.3
Silage		4340.0		4359.0		5050.9
-						
Feed Cost		0.05		חר כו		0.03
Concentrates		9.85		13.18		8.03
Roughages		54.21		53.26		63.26
Pasture	~	10.22	٠,	9.69	~	9.48
TOTAL FEED COSTS	\$	74.28	\$	76.13	\$	80.77
RETURN OVER FEED COST	\$	65.63	\$	116.05	\$	15.59
Supplemental Costs						
Miscellaneous livestock expense		1.91		2.41		1.32
Veterinary expense		1.95		2.03		.77
Custom work		2.37		2.18		2.11
TOTAL SUPPLEMENTAL COSTS	\$	6.23	\$	6.62	\$	4.20
RETURN OVER FEED AND SUPPLEMENTAL COSTS	s \$	59.40	\$	109.43	\$	11.39
			;			
SUPPLEMENTARY MANAGEMENT INFORMATION				· · · · · · · · · · · · · · · · · · ·		
Return for \$100 feed fed	\$	188.37	\$	252.44	\$	119.30
Price per cwt. sold	\$	28.33	\$	28.59	\$	28.81
Average weight per head sold	•	641	·	711	•	551
Per cent death loss		3.6		2.9		5.7
Per cent calf crop		94				
*						

Table 15B. Feeder Cattle, 1970

Table 15B. Feeder Cattle, 1970						
Managaran da a de la companya de la		verage		6 High		6 Low
	47			Farms		arms
	Pe	r Cwt.	Ъ.	er Cwt.	P	er Cwt.
Average number of beef feeders		58.7		50.5		51.2
Pounds of beef produced		26857		24595		24195
Net increase in value of animals	\$	25.93	\$	30.04	\$	22.72
		,				
Pounds of Feed Fed Grain		455.9		341.3		508.9
Protein, salt and mineral		46.5		18.4		59.3
Legume hay		498.3		500.1		798.8
Other hay and dry roughage		70.0		15.8		105.4
Silage		864.4		686.9		1213.9
		•				
Feed Cost Concentrates		11.04		7.64		12.49
		5.80		4.47		9.12
Roughages Pasture		.39		.51		.13
TOTAL FEED COSTS	\$	17.23	\$		\$	21.74
						00
RETURN OVER FEED COST	\$	8.70	\$	17.42	\$.98
Supplemental Costs						
Miscellaneous livestock expense		.44		.17		.46
Veterinary expense		.43		.58		.64
Custom work		.89	_	1.35		1.05
TOTAL SUPPLEMENTAL COSTS	\$	1.76	\$	2.10	\$	2.15
RETURN OVER FEED AND SUPPLEMENTAL COSTS	\$	6.94	\$	15.32	\$	(-1.17)
SUPPLEMENTARY MANAGEMENT INFORMATION	÷	150.53	ė	237.98	ė	104.52
Return for \$100 feed fed		28.77	ş \$			27.96
Price per cwt. sold	Ÿ	873.8	Y	820.4	Ψ.	840.1
Average weight per head sold Price per cwt. bought	\$		Ś	26.23	\$	
Average weight per head bought	Y	428.0	7	390.3	т	407.3
Number of head bought		43		26		45
Per cent death loss		2.3		1.7		3.5
TOT COLLE WORMT TOOL						

Table 16A. Sheep Flock, 1970

Table 16A. Sheep Flock, 1970						
	A	verage	1	0 High	1	0 Low
	30	Farms		Farms	F	arms
	Pe	r Ewe	P	er Ewe	P	er Ewe
*		90.2		105.2		99.3
Average number of ewes		8053		11598		6650
Pounds of lamb and mutton produced						
Pounds of wool produced		855		1046		837
Wool	_	6.27		6.83		5.11
Net increase in value of animals	\$	19.88	\$	27.42	\$	11.46
TOTAL VALUE PRODUCED	\$	26.15	\$	34.25	\$	16.57
Pounds of Feed Fed						
Grain		141.7		80.7		178.4
Protein, salt and mineral		9.2		5.4		12.4
Legume hay		1026.6		922.1		1381.7
Other hay and dry roughage		126.8		33.3		
Silage		191.3				2000.0
Feed Cost						
Concentrates		2.97		1.75		3.82
Roughages		8.56		7.20		10.06
Pasture		2.32		3.00		1.67
TOTAL FEED COSTS	\$	13.85	\$	11.95	\$	15.55
RETURN OVER FEED COST	\$	12.30	\$	22.30	\$	1.02
Supplemental Costs						
Miscellaneous livestock expense		.40		.53		.32
Veterinary expense		.40		.62		.28
Custom work		1.54		2.17		.99
TOTAL SUPPLEMENTAL COSTS	\$	2.34	\$	3.32	\$	1.59
RETURN OVER FEED AND SUPPLEMENTAL COSTS	\$	9.96	\$	18.98	\$	(57)
SUPPLEMENTARY MANAGEMENT INFORMATION		100 07	بنع	206:62	.	106 54
Return for \$100 feed fed		188.87		286.63		106.54
Price per cwt. lamb and mutton sold	\$		\$		\$	19.77
Pounds of wool per sheep sheared		9.4		10.0		8.5
Number of ewes kept for lambing		87		104		88
Per cent lamb crop		126		139		117
Per cent death loss		9.2		7.5		10.8

Table 24.	Average of	Prices	of	Feed	and	Produce	Used	in	Home,	1970	

Farm Grown Grains Oats \$.57 Barley .85 Wheat 1.55 Oats Mixture .80 Rye 1.00 Corn 1.20 Oats & Peas .70	Hay Alfalfa-Brome Red Clover Wild Hay Sweet Clover Brome Mixed Legume	\$16.00 12.00 8.00 9.00 10.00 14.00
Other Roughages Corn silage \$6.00 per ton Grass silage 5.00 per ton Oats silage 5.00 per ton Haylage 9.00 per ton	Milk for Feed Whole milk-Gr.A. Whole milk-Gr.B Skim milk	\$ 4.85 per cwt. 4.35 per cwt. .90 per cwt.
Pasture \$2.25 an animal unit per month Unpaid family labor \$10.00 per day Board for hired labor \$3.00 per day unless otherwise specified	Home Produce Milk Cream Poultry (Live) Beef (Live) Hogs (Live) Eggs	\$.10 per qt. .26 per pt. .12 per lb. .25 per lb. .22 per lb. .40 per doz.

EXPLANATION OF "WORK UNITS"

The total "work units" for any one farm is a measure of the size of that farm business. A work unit as used in this report is the average accomplishment of a farm worker, in a ten hour day, working on crops and productive livestock at an average efficiency. The number of work units for each class of livestock and each acre of crop are presented in Table 25. Days of work off the farm for pay are not included in work units computations in this report.

Table 25. Number of Work Units for Each Class of Livestock & Acre of Crop.

	No. of		No. of
Item	work units	Item	work units
Dairy cows	7.00 per head	Turkeys, Lay.Flock	25.00 per 100
Other dairy cows	1.20 per head	Bees	.33 per hive
Beef breeding cows	1.50 per head	Small grain	.3 per A.
Feeder cattle	.12 per cwt.	Corn for grain	.55 per A.
Sheep, farm flock	.6 per head	Corn silage	.8 per A.
Lambs, feeders	.30 per cwt.	Alfalfa	.6 per A.
Hogs, complete	.12 per cwt.	Other hay	.4 per A.
Hogs, finishing	.06 per cwt.	Legume seed	.4 per A.
Hogs, weaning pigs	1.40 per lit.	Grass silage	.4 per A.
Chickens, lay.flock	5.00 per 100	Potatoes	3.0 per A.
Chickens, broilers	.20 per cwt.	Sugar beets	2.0 per A.
Turkeys, poults	.12 per cwt.	Fallow	.4 per A.

A joint committee of Agriculture Education and Agricultural Economics have revised the work unit assignments. Generally this has resulted in lower total work units and lower work units per worker.

Summary of Farm Earnings by Years. Years Number of farms FARM RECEIPTS Dairy Dairy products Beef cattle (incl. feeders) Sheep and wool (incl. feeders) Other productive livestock Poultry (incl. turkeys) Eggs Crops Mach. & equip. sold & gas tax refund Income from work off the farm Miscellaneous Total Farm Sales (2) Increase in Farm Capital (3) Family Living From the Farm \$ (4) Total Farm Receipts (1)+(2)+(3)FARM EXPENSES Dairy cattle bought Beef cattle bought (incl. feeders) Hogs bought Sheep bought (incl. feeders) Other productive livestock Poultry bought (incl. turkeys) Miscellaneous livestock expense Feed bought Fertilizers and chemicals Other crop expense Custom work hired Gas, oil and grease bought (f.s.) Rep. & op. mach., tract., & auto (f.s.) Repair & upkeep of real estate Repair & upkeep of livestock equipment Wages of hired labor Electricity expense (f.s.) Real estate & pers. property taxes General farm expense (5) Total Cash Operating Expenses (6) Pow., crop, & gen. mach. bought (f.s.) (7) Livestock equipment bought (8) Buildings & fencing bought (9) TOTAL FARM PURCHASES (5) to (8) (10) Decrease in Farm Capital (11) Interest on Farm Capital (12) Unpaid Family Labor (13) Board Furnished Hired Labor (14) TOTAL FARM EXPENSES (9) to (13) (15) Labor Earnings (4) - (14) (16) NET CASH INCOME (1) - (9)

SUMMARY OF MISCELLANEOUS ITEMS BY YEARS

SUMMARY OF MISCELLANEOUS ITEMS BY YEARS			· · · · · · · · · · · · · · · · · · ·		
Items	1955	1960	1965	1969	1970
SIZE		7			
Work units	389	374	479	353	353
Tillable acres	319	385	491	486	465
Number of milk cows	14	17	26.1	28.2	29.7
Number of litters of pigs	4	6	29	56	51
Pounds of hogs produced	3631	2756	28842	36528	26707
Pounds of feeder cattle produced		18372	25457	24601	26857
Number of ewes	47	84	85	93	90.2
Number of beef cows	14	22	45	51	46
Number of chickens	170	313	2569	2969	
THE ACTION OF TH					
EFFICIENCIES - YIELD PER ACRE	39.8	53.8	53.1	63.2	40.8
Oats	1.6	1.6	1.9	2.2	2.3
Alfalfa	19.9	31.1	43.5	51.0	36.9
Barley		29.3	27.2	31.3	25.4
Wheat	18.4		8.2	12.1	11.3
Flax	7.4	10.8		63.9	50.5
Corn	44.0	54.2	33.3		
Soybeans			12.6	18.3	17.1
Corn silage	6.6	6.6	5.7	8.6	7.6
Rye	31.0	12.5	22.5	30.2	35.8
LIVESTOCK			0.57	202	200
Pounds butterfat per dairy cow	250	331	361	383	399
Pigs weaned per litter	7.2	8.0	8.0	8.0	7.3
Eggs per hen	162	188	221	177	300
Lambing percentage	127	115	106	138	126
RETURNS ABOVE FEED COST PER:					005 03
Dairy cow	97.13	149.93	176.75	303.59	325.21
Cwt. of hogs	1.86	8.02	11.37	10.11	3.04
Ewe.	7.60	5.65	14.60	15.47	12.30
Hen	1.36	1.70	1.71	1.79	
Litter			82.65	114.36	33.33
Owt. of feeder cattle		5.85	8.07	11.74	
Beef cow	3.25	37.92	25.26	71.38	65.63
PRICES RECEIVED PER:					
Pounds of butterfat	.73	.90	.97	1.29	
Cwt. hogs	15.00	17.38	21.16	23.78	21.23
Cwt. feeder cattle		23.42	21.32	27.72	28.77
Cwt. lamb	17.48	18.05	23.28	23.00	22.35
Feeder pig				19.61	19.94
Dozen eggs (¢)	32.5	29.0	28.9	33.0	
Oats, bushel		.54	.54	.55	.56
Alfalfa, ton		12.00	15.33	15.66	15.17
Barley, bushel		.78	1.03	.86	.91
Wheat, bushel		1.85	1.52	1.80	1.78
Flax, bushel		2.55	2.68	2.58	2.26
Corn, bushel			1.05	1.14	
Soybeans, bushel			2.26	2.16	
Corn silage, ton		4.50	5.43	6.09	
Rye, bushel		.85	.96	.88	.92
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THIEF RIVER FALLS AREA VOCATIONAL TECHNICAL SCHOOL

Action Programs For The 70's

Accounting Aircraft and Powerplant Technology Audio Communications Achitectural Drafting Auto Body Repair Auto Mechanics Carpentry Clerical Training Cosmetology Electronics Practical Nursing General Secretarial Legal Secretarial Medical Secretarial Welding Sales & Marketing Agribusiness Operation & Management Farm Management

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