

1969 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

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1969 REPORT OF THE VOCATIONAL AGRICULTURE FARM MANAGEMENT
PROGRAM IN NORTHEASTERN MINNESOTA

Rodger Palmer -- Vocational Agriculture Program Coordinator

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INTRODUCTION

The Duluth Area Institute of Technology, in cooperation with the University of Minnesota and the Vocational Division of the Minnesota State Department of Education, is charged with the responsibility for operation and maintenance of the Vocational Agriculture Farm Management Program in Northeastern Minnesota. This 1969 report represents the fourteenth annual report for this area.

The main purpose 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 Pat Meierhofer, Barbara Floodstrom, and Dair Nichols, and his clerical class.

Directing locally in a supervisory capacity were: Dr. Donald H. Peckenpaugh, Superintendent of Duluth Public School and Mr. Robert Bergstrom, Director of the Duluth Area Institute of Technology, and Dr. James Flis, Assistant Director, Adult Education.

Cooperating agencies were represented by: Mr. Odell Barduson 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. Preliminary analysis work was done at Staples again this year on account books from the Staples area.

capital.

and receipts, and the operators liabilities and assets other than farm inventock, family living from the farm, household and personal expenses expenses. Also included were feed consumed by various classes of The records submitted farm inventories, cash receipts, and

account book.

sheets, and (2) Improper information or missing information in the proper copying at the record center from the book to the computer work at an analysts for a farmers account book fall in these areas: (1) Improper processing is near perfect. The two main sources of errors in arriving processes is Little change was made in the analysts form this year. The electronic processing is with the work being done by Agriculture records Cooperative

records this year, for the 6th year, were analyzed by electronic data processing with some centers having participated in more than one at Madison, Wisconsin.

	Total	81
Wadene	3	
Lake of Woods	2	26
Todd	2	12
Cleawater	2	4
Glass	16	4
Bellrami	14	14
Cuttertail	2	2

below:

The number of farm records submitted from each county is shown county. The number of some centers having participated in more than one analysis with some centers having participated in more than one county. The cooperatives centers submitted records from nine (9) counties for

School	No. of Farmers	Instructors
Wadene	7	John Grenier
Steples	13	Lenneen Nalley, Wayne Hagelin, Tom Kajer
Fine City	16	Al Anous
Memberass	2	Ed Takala
Bagle Bend	15	Bill Ladwig
Baudette	2	Otto Lee (County Agent), Robert Borchorst
Blackduck	14	Leo Fenske (MDA Instructor)
Bagley	12	Ken Ostlund

1969 Records for analysts were received from:

several books came in too late for an analysts.

for analysts with averages of seventy-four (74) included in this report. This report deals with farmers enrolled in adult programs of schools and county agent programs shown below. Sixty-one (81) records were submitted

FARM INVENTORIES

The average capital investment per farm varied from \$6,000 to \$173,000. 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 50 farms in the report showed outside income ranging from a low of \$9 to a high of \$17,531 per farm involved. Non-farm income is not included in this report as a part of farm labor earnings.

1.	Size of farm -	Total acres	342.6				
2.	Work units -	Available acres	185.1				
3.	Work units - crops	77.58	221.66				
4.	Work units - Livestock	14.05	- Other				
5.	Work units -	313.23	Number of workers				
6.		14.05	Total size of business in work units				
7.		34082	Farm Capital Investment per worker				
8.	PRODUCTION LIVESTOCK						
9.	Dairy Cows						
10.	Other Dairy cattle	1004	Beef Breeder cattle				
11.		395	Sheep (incl. feeders)				
12.		297	Hogs				
13.		273	Beef Feeder cattle				
14.		72	Poultry (incl. turkeys)				
15.		5	Sheep (incl. feeders)				
16.		56	Other productive livestock				
17.		61	Total productive livestock				
18.	Crop, Seed and Feed	4229					
19.	POWER, MACHINERY AND EQUIPMENT	1045	Auto and Truck (farm share)	945	Power and Machinery	5825	22.
20.		6350		6350	Livestock equipment	1915	21.
21.		1915		1915	Total Power, Machinery & Equipment	1769	20.
22.		13555		13555	Land Buildings-Fences-etc.	12532	24.
23.		7780		7780	TOTAL FARM CAPITAL	42970	26.
24.		47200 *		47200 *			

TABLE I SUMMARY OF FARM INVESTMENT, - 1969 (AVERAGE 74 Farms)

		14 High	14 Low
		Jan 1	Dec 31
1	Acreage Utilized		
2	Size of Farm - Total Acres	415.1	263.9
2	- Tillable Acres	234.8	136.5
3	Work Units - Crops	104.4	49.6
4	- Livestock	283.7	124.9
5	- Other	4.2	7.9
6	Total Size of Holdings in Work Units	392.3	182.5
7	Number of Workers	1.4	1.2
7A	Per Capita Capital Investment Per Worker	50109	22772
8	Productive Livestock		
9	Dairy Cows	7635	3524
10	Other dairy cattle	3438	1780
11	Beef breeding cattle	2466	350
12	Beef feeder cattle	518	54
13	Hogs	113	388
14	Sheep (incl. feeders)		244
15	Poultry (incl. turkeys)		261
16	Other productive livestock		225
17	PRODUCTIVE LIVESTOCK	\$ 14170	18465
18	Grain, seed and feed	6512	7484
19	Buildings, Equipment & Equipment		
20	Automobiles, truck (farm share)	1510	1377
21	Tractor and machinery	8161	8461
22	Furniture equipment	2642	2680
23	BUILDINGS, MACHINERY & EQUIPMENT	\$ 12313	12518
24	Land	19908	23196
25	Less fixtures, etc.	8268	9406
26	LAND LESS FIXTURES	\$ 61171	71069
	Capital		
		25943	29190

TABLE 2A WHOLE FARM SUMMARY OF CASH RECEIPTS - 1969						
	Average OF 74 Farms	High 14	Low 14	Farms	High	Low
1 SALE OF LIVESTOCK AND LIVESTOCK PRODUCTS	\$ 1548	2238	844	Dairy Cows		
2 Dairy Products	11663	16789	6441	Other Dairy Cattle		
3	1191	1721	860	Beef Breeding Cattle		
4	309	742	132	Beef Finishing		
5	527	1006	58	Hogs Completing		
6	6	29	5	Hogs Finishing		
7A	12	29	5	Hogs Production Weanling Pigs		
7B	87	456	360	Hogs Farm Flock		
7C	8	722	337	Hogs Production Weanling Pigs		
8A	4	4	5	Sheep And Wool, Farm Flock		
8B	4	4	5	Sheep And Wool, Feeder Lambs		
9	4	4	5	Chickens (Incl. Hens and Broilers)		
10	26	26	2	Turkeys		
11	2	2	2	Eggs		
12	1	1	1	Other Productive Livestock		
13 SALE OF CROPS	9045	22981	9045	TOTAL SALES OF PRODUCTION LIVESTOCK		
14 Corn	62	41	15	Soybeans, Flax, Sunflowers		
15	43	53	241	Wheat, Oats, Barley, Rye		
16	424	1220	241	Potatoes, Sugar Beets, Cannning & Other Crops As Is		
17	590	1880	205	Hay, Silage and Other Crops		
18	266	345	117	Divereted Acre Payment		
19	1880	1880	1880	Total Sales From Crops		
19A	478	3539	3539	Capital Assets Sold		
20	464	74	36	Gas Tax Refund		
21	72	115	43	Gas Tax From Work Off The Farm		
22	294	233	205	Income From Farm		
23	121	80	44	Partonage Refunds		
24	202	193	128	Miscellaneous Farm Income		
25	27215	18719	9977	Total Farm Sales		
26	9900	454	3341	Increase In Farm Capital		
27	405	451	230	Familly Living From The Farm		
28	37566	37568	13548	Total Farm Receipts (25)+(26)+(27)		

TABLE 21 - AVERAGE FARM SUMMARY OF CASH EXPENSES - 1969

		Average of 74 Farms	14 High	14 Low
1	PURCHASE OF LIVESTOCK			
2	Dairy Cows	\$ 694	1140	1451
3	Other Dairy Cattle	317	690	226
4	Beef Breeding Cattle	47	85	101
5	Beef Feeder Cattle			4
6A	Hogs Complete	1		
6B	Hogs Finishing	2		
6C	Hogs Producing Weaning Pigs	41	104	10
7A	Sheep, Farm Flock	21		105
7B	Sheep, Feeder Lambs			5
8	Chickens (incl. hens and broilers)	10		
9	Turkeys	4		10
10	Other Productive Livestock	742	1083	482
11	Miscellaneous Livestock Expense	2437	3317	1435
12	Feed Bought	648	1009	432
13	Fertilizer			
14	Chemicals	127	225	115
15	Other Crop Expense	344	429	210
16	Custom Work Hired	957	1282	514
17	Repair + Upkeep of Livestock Equip.	137	130	105
18	Repair + Upkeep of Farm Real Estate	199	169	117
19	Gas, Oil, Grease Bought (farm share)	732	973	536
20	Repair + Oper of Mach, Tractor, Truck, Auto (F.S.)	838	1160	596
21	Wages of Hired Labor	341	334	234
22	Personal Property + Real Estate Taxes	397	574	255
23	General Farm Expense	253	378	155
24	Telephone Expense (Farm Share)	65	82	54
25	Electricity Expense (Farm Share)	271	356	205
26	Total Cash Operating Expense	\$ 9630	13520	7357
27	Power, Crop and General Mach Bought (Farm Share)	2197	2072	1768
28	Livestock Equipment Bought	496	466	680
29	New Real Estate + Improvement	2876	4610	2264
30	Total Farm Purchases (26) Thru (29)	\$ 15199	20663	12069
31	Decrease In Farm Capital	324		94
32	Interest On Farm Capital	2705	3967	1654
33	Unpaid Family Labor	685	528	411
34	Labor Charge For Partners + Other Operators	273	714	36
35	Board Furnished Hired Labor	33	29	49
36	Total Farm Expense (30) Thru (35)	\$ 19219	25906	14363
37	Labor Earnings (Whole Farm) (2A/28)-(36)	\$ 4458	11660	(-816)
38	Number of Operators	1	1	1

I (-918)	I 11660	\$ 4458	RENTAL, REPAIRS, AND MEET DUES/FEES RENTAL OF BOATS AND EQUIPMENT	16 17
9059	13937	\$ 10965	GENERAL PAYMENTS AND MEET DUES/FEES	16
1654	3967	2705	TRANSPORTATION ON THE TELEPHONE	16
228	1460	323	SERIALIZED PAPER, ENVELOPES AND TELEPHONE	16
255	574	397	PERIODICALS AND	16
86	724	273	TELEPHONE CALL FOR OTHER OPERATOR (S)	16
982	1405	273	TELEPHONE	16
482	1083	742	MOTOR INSURANCE EXPENSE	16
(-50)	(-30)	\$ 1021	RESTAURANT EXPENSE	16
1065	861		MEAL EXPENSE AND DRINKING	16
414	552		LADIES' NIGHT INCL.	16
205	356		TELEGRAM EXPENSE	16
3141	2495		TRANSPORTATION EXPENSE (FUEL, TAXIS, ETC.)	16
139	3267		TRANSIT OF PERSONNEL (TRAVEL EXPENSE)	16
5	1282		TRAVEL EXPENSE AND AIRFARE	16
			TOOK CARE OF CHILDREN, MARRIED CHILDREN	16
			TRAVEL EXPENSE AND AIRFARE	16
	25597	\$ 15423	TRAVEL EXPENSE AND AIRFARE	16
	202	193	LEASED HOME FOR PERSONNEL INCOME	16
128	80	101	DRUGSTORE BILL PAYMENT FOR PERSONNEL REFUND	16
46	84	281	COST OF PERSONNEL CALL TO HOME	16
155	9288	5257	MEAL EXPENSE FOR PERSONNEL READ	16
2777	15952	9582	RETURN OF BOOKS PURCHASED FROM LIBRARY	16
4133	9928	7611	AMOUNT PAID TO PERSONNEL FOR LEAVING POSITION	16
4587	25880	\$ 17193	CHARGE TO PERSONNEL FOR LIVING IN TOKYO	16
8720		3	TRANSPORTATION EXPENSE	16
5			CHARGES FOR PERSONNEL'S WIFE, HENS AND PIGTIES	16
			PERIODICALS FOR PERSONNEL	16
21		32	CHARGE FOR PERSONNEL'S SON OF SHEEP	16
		4	PORCUPINE, CAT, DOG, ETC., FOR PERSONNEL	16
261	69	887	TRANSPORTATION EXPENSE PERSONNEL'S SON	16
378	4	5	CHARGE FOR PERSONNEL'S SON	16
21		6	TRANSPORTATION EXPENSE PERSONNEL'S SON	16
136	130	207	CHARGE FOR PERSONNEL'S SON	16
1430	5822	547	TRANSPORTATION EXPENSE PERSONNEL'S SON	16
6465	17969	\$ 11971	TRANSPORTATION EXPENSE PERSONNEL'S SON	16

	Average of 54 Farms	12 High	11 Low
1. Number of Persons - Family	6	6	5
2. Number of Adult Equivalent - Family	4.0	4.1	3.2
3. Church and Welfare	\$ 164	191	187
4. Medical Care and Health Insurance	587	836	458
5. Food and Meals Bought	1123	1077	896
6. Operating Expense and Supplies	269	219	171
7. Furnishings and Equipment	341	350	155
8. Clothing and Clothing Materials	325	289	231
9. Personal Care, Personal Spending	95	79	83
10. Education	99	25	29
11. Recreation	113	155	67
12. Gifts and Special Events	144	97	93
13. Pers. Share Truck and Auto Exp.	210	133	188
14. Oper. Share Upkeep on Dwelling	127	122	248
15. Pers. Share Tel. and Elect. Exp.	157	175	137
16. TOTAL CASH LIVING EXPENSES	\$ 3754	3748	2943
17. Pers. Share New Truck and Auto	180	96	7
18. New Dwelling Bought	517	33	
19. Taxes and Other Deductions	410	412	198
20. Life Insurance and Other Savings and Investments	531	318	154
21. TOTAL HOUSING AND PERSONAL (16)-(20)	\$ 5392	4607	3302
22. TOTAL FAMILY LIVING FROM THE FARM (33)	436	474	309
23. TOTAL CASH AND NON-CASH EXPENSES (21)+(22)	\$ 5828	5081	3611

	FAMILY LIVING FROM THE FARM	\$	CPR. SHARE	OPR. SHARE	OPR. SHARE
24.					
25.					
26. Milk and Cream	151		189		100
27. Beef	206		253		157
28. Pork	19		23		7
29. Lamb					
30. Poultry	2				
31. Eggs	2				
32. Veg., Fruit, Seeds, and Fuel-Also Other Produce	56		8		45
33. TOTAL FAMILY LIVING FROM THE FARM	436		473		309

TABLE 5 - NET WORTH STATEMENT - OPERATOR - 1969									
	Ave. of 72 Farms	14 High	14 Low	Jan. 1	Dec. 31	Jan. 1	Dec. 31	Jan. 1	Dec. 31
1. Total Liwestock	\$ 10727	12380	15280	18899	7898	9087	2484	7693	2666
2. Crop, Seed & Feed	4319	4284	6877	11378	8600	9363	8600	11496	6490
3. Total Power, Machinery	13451	12384	12089	12351	12384	12496	12496	22482	7971
4. Land	8093	7047	7971	7971	7659	7914	6932	9914	6635
5. Buildings, Fences, etc.	33643	42659	47597	59263	42659	70484	42659	70484	5834
6. Non-Farm Assets	6157	6033	6601	5933	4823	5947	4823	57985	52335
7. Dwelling	2373	2320	3537	3787	4538	4488	4538	80919	39212
8. Dwellings	6157	6033	5933	6601	4823	5947	4823	57985	52335
9. TOTAL ASSETS	42173	39212	39212	39212	39212	42173	39212	80919	57985
10. Real Estate Mortgages	10397	9891	11866	12766	10625	11286	11286	11286	10397
11. Chattel Mortgages	6726	6726	5890	7890	6943	7777	7777	7890	6943
12. Notes	2044	2044	1209	1100	1175	685	1212	801	775
13. Accounts Payable	574	574	1209	1100	1175	685	1212	801	775
14. Total Liabilities	19741	19741	12507	16507	15075	24652	24652	16507	12507
15. Farmers Net Worth	22432	22432	21806	21728	37230	33828	33828	21806	21728
16. GAIN, OR (LOSS) IN NET WORTH	\$ 626	\$ 626	\$ 3402	\$ 7726	\$ 3402	\$ 7726	\$ 3402	\$ 7726	\$ 626
17. SUPPLEMENTARY MANAGEMENT INFORMATION									
18. Operators Labor Earnings	816	(-948)	12404	4558	12406	6978	6978	12406	816
19. Rent. to Capital & Family Labor	816		12406	4558	12406	6978	6978	12406	816
20. Non-Farm Income	261		63	98	261	2210	2210	2210	261
21. Outside Investment Income	261		63	98	261	2210	2210	2210	261
22. Other Personal Income	2210		364	1397	2210	2471	2471	2471	2210
23. Total Non-Farm Income	2471		1495	1495	2471	2210	2210	2210	2471
24. Total Money Borrowed	4640	4640	5840	3720	4607	606	606	606	4640
25. Total Paid on Debt (Interest)	236	236	5829	4607	4607	.667	.667	.667	236
26. Total Household & Pers. Expenses	2914	2914	4474	3720	4607	606	606	606	2914
27. Ratio Farm Exp. to Farm Receipts	2060	2060	667	3720	4607	606	606	606	2060
28. Ratio Non-Breal Assets to Liabilities	2.136	2.136	2.794	2.785	2.771	2.253	2.253	2.253	2.136
29. Ratio Non-Breal Assets to Liabilities	2.65	2.65	3.067	3.075	4.123	3.07	3.07	3.07	2.65
30. Ratio Real Assets to Liabilities	1.67	1.67	2.14	2.14	2.05	1.78	1.78	1.78	1.67
31. Ratio Net Worth to Total Liab.	1.14	1.14	1.83	2.14	2.05	1.77	1.77	1.77	1.14
32. Ratio Cash Operating Exp. to Total Farm Sales									

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

TABLE 6A OPERATORS' MILE OF FARM RECEIPTS-1969

		Average of 74 Farms	14 High	14 Low
1	<u>SALE OF LIVESTOCK AND LIVESTOCK PRODUCTS</u>			
2	Dairy Cows	1499	2211	1108
3	Dairy Products	11663	12387	8395
4	Other Dairy Cattle	1183	1875	1230
5	Beef Breeding Cattle	309	748	
6	Beef Feeder Cattle	527	1006	
7A	Hogs Complete	12		58
7B	Hogs Finishing	6	29	
7C	Hogs Producing Weaning Pigs	722	564	360
8A	Sheep and Wool, Farm Flock	37		337
8B	Sheep and Wool, Feeder Lambs	4		
9	Chickens (Incl. Hens and Broilers)	4		
10	Turkeys			
11	Eggs	26		1
12	Other Productive Livestock	2		2
12A	TOTAL SALES OF PRODUCTIVE LIVESTOCK	\$ 16044	23820	11491
13	<u>SALE OF CROPS</u>			
14	Corn	58	17	5
15	Soybeans, Flax, Sunflowers	38	43	15
16	Wheat, Oats, Barley, Rye	366	1209	183
17	Potatoes, Sugar Beets, Canning, Other Crops	143		
18	Hay, Silage and Other Crops	537	1852	41
19	Diverted Acre Payment	26	325	117
19A	TOTAL SALES FROM CROPS	\$ 1265	3451	361
20	Capital Assets Sold	53	42	36
21	Gas Tax Refund	42	117	45
22	Income From Work Off the Farm	394	162	158
23	Patronage Refunds	101	73	107
24	Miscellaneous Farm Income	202	274	173
25	TOTAL FARM SALES	\$ 18196	27976	12371
26	Increase in Farm Capital	4225	11201	3296
27	Family Living From the Farm	404	454	262
28	TOTAL FARM RECEIPTS (25)+(26)+(27)	\$ 23483	39631	15339
29	Adjusted Total Farm Sales (25)-(20)	18093	27927	12335
30	Total Cash Farm Operating Expense	10745	15200	9720
31	Net Cash Operating Income	\$ 7353	12727	2615

1	URCHIN, ROBERT V.							
2	Dairy Cows							
3	Other dairy cattle							
4	Beef breeding cattle							
5	Beef feeder cattle							
6A	Hogs Complete							
6B	Hogs Finishing							
6C	Hogs Producing weanlings flats							
7A	Sheep, Farm flock							
7B	Sheep, Feeder lambs							
8	Chickens							
9	Turkeys							
10	Other productive livestock							
11	Miscellaneous livestock expense							
12	Feed bought							
13	Chemicals							
14	Perennial							
15	Other crop expense							
16	Custom work hired							
17	Repeating and upkeep of livestock equipment							
18	Repairs and upkeep of farm real estate							
19	Gas, Oil, grease mount (Farm Share)							
20	Repairs & Oper. of truck, tractor, auto (F.S.)							
21	Wages of hired labor							
22	Personal property and real estate taxes							
23	Cash Rent							
24	General travel expense							
25	Telephone expense (Farm Share)							
26	Electricalty expense (Farm Share)							
27	Interest expense							
28	Total in operating expenses							
29	Power, crop and general hired bought (Farm Share)							
30	Investock bought bought bought							
31	New heat seats and improvements							
32	Capital in new buildings (S2 thru 31)							
33	Decrease in fixed capital							
34	Interest on loans capital							
35	Unpaid family labor							
36	Bored furniture hired labor							
37	Total in all expenses (S2 thru 37)							
38	Labor earnings (operator's share) (6a/26-38)							
39	Return to Capital and family labor							

Low	High	Hired	Rents	CASH	APRIL 1960	1-69	Average	of
\$ 1,551	\$ 948	\$ 948	677	6	677		14	14

ESTIMATION OF WORK UNITS

The total "work units" for any one farm is a measure of the size of that farm business. A work unit as used in this report is the average accomplishment of a farm worker, in a ten hour day, working on crops and productive livestock at an average efficiency, or ten hours of work off the farm for pay. The work units values in Table 7 below were changed in 1969 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	.70/cow	Barley, Wheat, Oats, Rye	.30/acre
Other Dairy Cattle	1.2/head	Canning Peas	.30/acre
Beef Breeding Cows	1.5/head	Cat 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- Lean. Pigs	1.4/litter	Corn & Cane Silage	.80/acre
Sheep, Farm Flock	.60/ewe	Alfalfa Hay	.60/acre
Lambs, Feeders	.30/cwt.	O. 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 Poult	.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 14 for explanation of change in work unit values.

AVERAGE PRICES OF FOOD AND OTHER PRICES USED IN 1969 REPORT

SMALL GRAIN & CORN

Corn	\$1.05/Bu.
Oats	.60/Bu.
Soybeans	2.40/Bu.
Wheat	1.45/Bu.
Rye	1.00/Bu.
Barley	.85/Bu.
Flaxseed	2.85/Bu.

PASTURE PER HEAD PER MONTH

Dairy cows, Beef cows	\$1.75
Other dairy & beef	1.00
Hogs	.20
Pigs	.10
Sheep	.25
Lambs	.12

ROUGHAGES

Alf. Hay	122.00
O.Leg. & Mix	18.00
Annual & Tame	14.00
Wild Hay	10.00
Corn Silage	7.00
Oats Silage	5.00
Leg. & Grass Sil.	6.00

PRODUCTS USED IN THE HOME

Whole milk	\$.09/qt.
Cream	.70/qt.
Whole milk fed	4.00/cwt.
Skimmilk fed	.80/cwt.

UNPAID FAMILY LABOR

Per Day	\$10.00
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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.

1970-1971

Annual Report of the Board of Education

14.76	14.76	12.76
5.30	5.30	5.15
1.94	1.94	1.85
1.28	1.28	1.45
0.30	0.30	0.25
14.76	14.76	14.76

4.97	4.97	4.2
124.9	124.9	124.9
49.7	49.7	49.7

26.9	26.9	26.6
143	143	143

1971

106	106	106
75	75	75
124	124	124
114	114	114
114	114	114
114	114	114

22772	22772	22772
50109	50109	50109
16.05	16.05	16.05
124.73	124.73	124.73
142.4	142.4	142.4
298.0	298.0	298.0
392.3	392.3	392.3
182.5	182.5	182.5
14.8	14.8	14.8
24.9	24.9	24.9
30.9	30.9	30.9
115	115	115
115	115	115
115	115	115
45.97	45.97	45.97
45.97	45.97	45.97
45.97	45.97	45.97
51.2	51.2	51.2
40.4	40.4	40.4
85	85	85
119	119	119
109	109	109
11660	11660	11660
(-816)	(-816)	(-816)

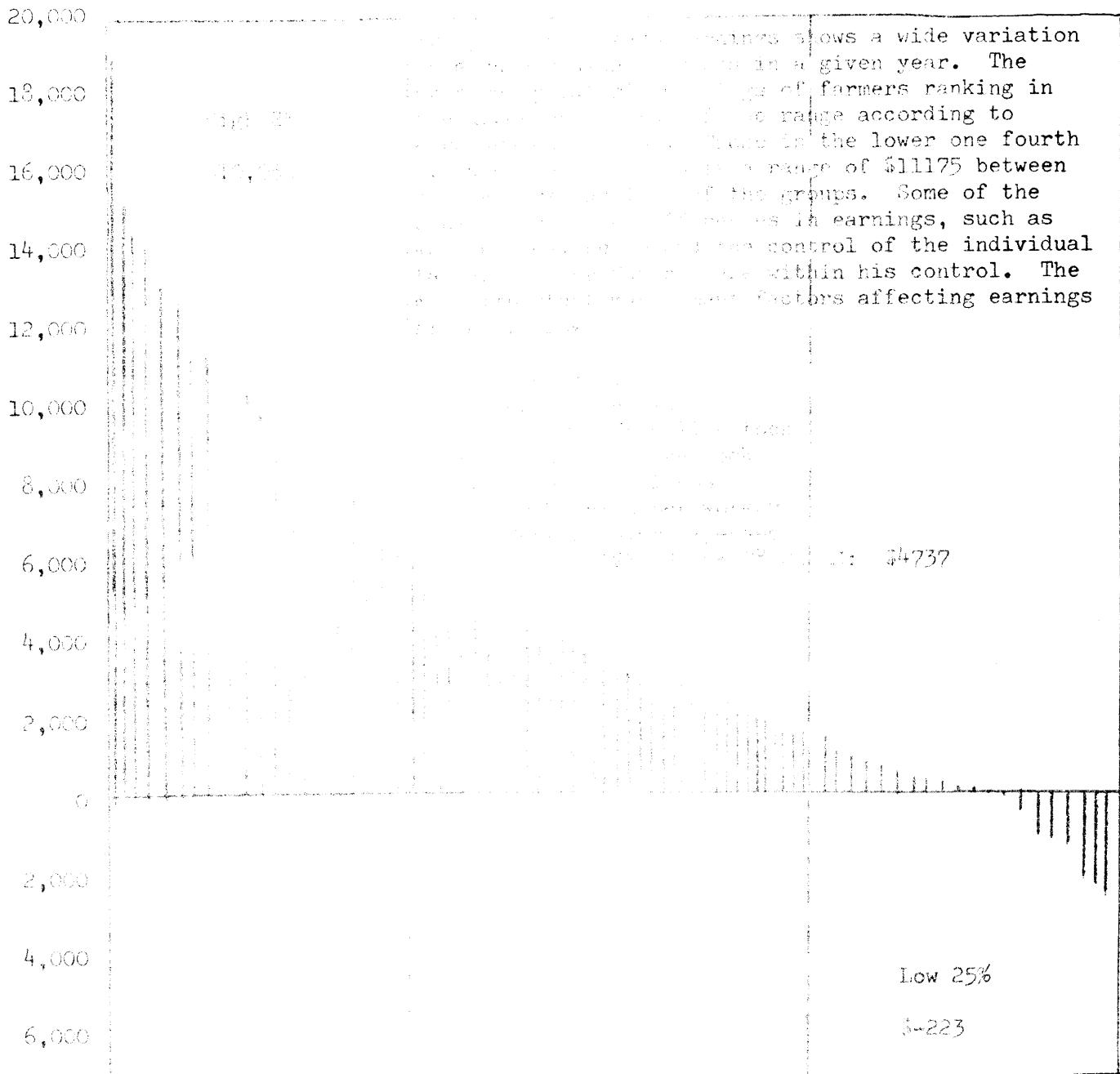
Low	High	Mid
14	14	14

EXPLANATION OF INDICATORS OF CIVILIZATION AND EFFICIENCY

The following explanations and definitions are for use in interpreting table 8 and the Thermometer Chart.

1. LABOR EARNINGS - 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. CROP YIELD INDEX - 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. PERCENT OF TILLABLE LAND IN HIGH RETURN CROPS - 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. RETURN per \$100 FED FEW TO PRODUCTIVE LIVESTOCK - A measure of the general level of efficiency for all livestock. It is expressed as a percentage with 100% representing average efficiency.
6. LIVESTOCK UNITS per 100 ACRES - A measure of livestock density or population, particularly important for farms with limited cropland.
7. SIZE OR BUSINESS - WORK UNITS** - 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 of expense control. It is the total cost of items 24 through 28 in Table 3 divided by the number of Work Units.
10. FARM CAPITAL INVESTMENT per WORKER - Another indication of size of business. Useful in relating farm businesses to other industries.

** WORK UNIT values were changed in 1968 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 and last years report where Work Units are involved, to reports from prior years, this change in Work Units should be remembered.



1950-51 crop year. The total number of farms was 78,000 with a total of 78,000 farms.

TABLE 9 - CROP PRODUCTION - 1969....74 FARMS

	Crop Rating	Number Growing	Acres	Yield Per Acre
1 Oats and Mixtures	C	31	36.1	45.8 Bu.
2 Oats Silage	B	1	.2	5.0 T.
3 Canning Peas				
4 Wheat	C	18	2.9	20.7 Bu.
5 Barley	C	4	1.0	24.0 Bu.
6 Flax	C			
7 Rye				
8 TOTAL SMALL GRAIN AND PEAS			40.2	
9 Canning Corn				
10 Corn Grain and Seed Corn	B/D	16	11.2	53.3 Bu.
11 Soybeans-Grain	C	3	1.5	6.0 Bu.
12 Corn and Cane Silage	B	22	20.1	8.4 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			36.1	
20 Alfalfa Hay	A	25	36.8	2.5 T.
21 Other Legume Hay and Mixtures	B	23	23.8	1.6 T.
22 Tame Grass Hay	C	6	1.7	1.2 T.
23 Annual Hay	D	3	1.0	1.0 T.
24 Legume and Grass Silage		2	.9	6.7 T.
25 Legume Seed	D	5	3.0	
26 Grass Seed	D	2	4.6	504.8 Lbs.
27 TOTAL HAY			71.8	
28 Alfalfa and Mixed Pasture			1.1	
29 Other Legume Pasture			.4	
30 Other Tillable Pasture			17.2	
31 TOTAL TILLABLE PASTURE			18.7	
32 Diverted Acres Income	A	27	10.3	26.89
33 Summer Fallow - Tilled			5.6	
34 Other Tillable Land Idle			2.6	
35 TOTAL TILLABLE LAND			185.3	
36 Wild Hay			4.6	.43
37 Non-Tillable Pasture			78.0	
38 Timber			49.4	1.42
39 Roads and Waste			19.5	
40 Farmstead			6.1	
41 TOTAL ACRES IN FARM			342.9	
42 SUPPLEMENTARY MANAGEMENT INFORMATION				
43 Percent Land Tillable				54.0
44 Percent in High Return Crops				49.1
45 *Fertilizer Cost Per Acre				3.89
46 *Crop Chemicals Per Acre				.76
47 *Seed and Other Costs Per Acre				2.07
+8 *Gas, Oil, Grease Bought Per Acre				2.97
49 *Tillable Land Minus Pasture				

49 *TILLABLE Land Minus Pasture

	Crop Rating	Acre's Average Yield	Labor Requirements	Land Requirements	14 High in	14 Low in	1 Oats and Mixtures
1 Rye	C	55.0	28.3	22.3	56.0	22.3	9 TOTAL SMALL GRAIN & PMS
2 Barley	C	50.7 Bu.	7.2	45.1 Bu.	12.2	50.7 Bu.	10 Corn, grain and Seed Corn
3 Flax	C	45.1 Bu.	7.2	45.1 Bu.	12.2	50.7 Bu.	11 Soybeans-Grain
4 Wheat	C	34.4 Bu.	2.7	40.3 Bu.	1.2	54.6 Bu.	12 Corn and Game Fodder
5 Barley	C	40.3 Bu.	0.7	40.3 Bu.	0.7	40.3 Bu.	13 Corn and Game Fodder
6 Flax	C	40.0	0.7	50.8 Bu.	9.2 T.	50.7 Bu.	14 Potatoes
7 Rye	C	40.0	0.7	50.8 Bu.	9.2 T.	50.7 Bu.	15 Sugar Beets
8 TOTAL SMALL GRAIN & PMS		55.0		28.3			16 Sunflowers
9 Cannining Corn							20 Alfalfa Hay
10 Corn, grain and Seed Corn	B/D	12.2	50.7 Bu.	12.2	50.7 Bu.	12.2	21 Other Legume Hay & Mixtures
11 Soybeans-Grain	C	40.0	0.7	50.7 Bu.	1.4 T.	2.1	22 Tame Grass Hay
12 Corn and Game Fodder	D	40.0	0.7	50.7 Bu.	2.1	2.1	23 Annual Hay
13 Corn and Game Fodder	D	40.0	0.7	50.7 Bu.	2.1	2.1	24 Legume and Grass Silage
14 Potatoes	D	40.0	0.7	50.7 Bu.	2.1	2.1	25 Alfalfa Hay
15 Sugar Beets	D	40.0	0.7	50.7 Bu.	2.1	2.1	26 Grass Seed
16 Sunflowers	D	40.0	0.7	50.7 Bu.	2.1	2.1	27 TOTAL Hwy
17 Other Cultivated Crops - A	A	39.5	2.3 T.	27.1	2.3 T.	2.3	28 Alfalfa and Mixed Pasture
18 Other Cultivated Crops - B	A	39.5	2.8 T.	27.1	2.8 T.	2.8	29 Other Legume Pasture
19 TOTAL CULTIVATED CROPS		56.0		22.3			30 Other Tillable Land Pasture
20 Alfalfa Hay							31 TOTAL TILLABLE PASTURE
21 Other Legume Hay & Mixtures							32 Diversified Acres Income
22 Tame Grass Hay							33 Summer Fallow - Tillable
23 Annual Hay							34 Other Tillable Land Idle
24 Legume and Grass Silage							35 TOTAL TILLABLE LAND
25 Alfalfa Hay							36 Wild Hay
26 Grass Seed							37 Non-Tillable Pasture
27 TOTAL Hwy							38 Tillable Pasture
28 Alfalfa and Mixed Pasture							39 Roads and Waste
29 Other Legume Pasture							40 Farmland
30 Other Tillable Land Pasture							41 TOTAL ACRES IN FARM
31 TOTAL TILLABLE PASTURE							42 SUPPLEMENTARY MANAGEMENT INFORMATION
32 Diversified Acres Income							43 Percent Land Tillable
33 Summer Fallow - Tillable							44 Percent in High Return Crops
34 Other Tillable Land Idle							45 Fertilizer Cost Per Acre
35 TOTAL TILLABLE LAND							46 Crop Chemicals Per Acre
36 Wild Hay							47 Seed and Other Costs Per Acre
37 Non-Tillable Pasture							48 Gas, Oil, Grease Bought Per Acre
38 Tillable Pasture							49 Tillable Land Minus Pasture

TABLE 9 (Continued)

TABLE 9 - CROP DATA FOR CORN FOR GRAIN - 1969

	PER UNIT COST (\$)	TOTAL	PER ACRE
1 Acres		41.8	
2 Yield/Acre		46.2	
3 Value/Unit		.62	
4 Gross Return		1137.38	27.21
5 SUPPLEMENTAL COSTS			
6 Fertilizer		1.84	
7 Chemicals		.07	
8 Seed and Other		2.13	
9 Hired Labor			
10 Custom Work		.62	
11 TOTAL SUPPLEMENTAL COSTS		194.79	4.66
12 RETURN OVER SUPPLEMENTAL COSTS		942.59	22.55
13 ALLOCATED COSTS			
14 Power and Crop Machinery Expense		8.79	
15 Land Cost		7.42	
16 Miscellaneous Costs			
17 TOTAL ALLOCATED COSTS		677.58	16.21
18 TOTAL COSTS	Per Unit .45	872.37	20.87
19 RETURN OVER TOTAL COSTS		265.01	6.34

TABLE 10 - CROP DATA FOR CORN FOR GRAIN - 1969 ---- 32 FARMS

	25.9	53.3	1.07
1 Acres			
2 Yield/Acre			
3 Value/Unit			
4 Gross Return	1518.26	58.62	
5 SUPPLEMENTAL COSTS			
6 Fertilizer		11.08	
7 Chemicals		3.47	
8 Seed and Other		4.09	
9 Hired Labor			
10 Custom Work		1.78	
11 TOTAL SUPPLEMENTAL COSTS		528.88	20.42
12 RETURN OVER SUPPLEMENTAL COSTS		989.38	38.20
13 ALLOCATED COSTS			
14 Power and Crop Machinery Expense		16.12	
15 Land Cost		10.08	
16 Miscellaneous Costs			
17 TOTAL ALLOCATED COSTS		678.58	26.20
18 TOTAL COSTS	Per Unit .87	1207.46	46.62
19 RETURN OVER TOTAL COSTS		310.80	12.00

		PER ACRE	TOTAL	PER ACRE	TOTAL	PER ACRE	TOTAL	PER ACRE	TOTAL	PER ACRE	TOTAL
1.	Wages	52.8		2.5	19.75	50.00	2640.00	4.4	Waive/Rent	5.03	5.03
2.	Yield/Rent										
3.	Waive/Rent										
4.	Waive/Rent										
5.	Waive/Rent										
6.	Herbicides	3.03		7.	Herbicides	2.94		8.	Herbicides	2.94	
9.	Hired Labor			10.	Hired Labor			11.	Hired Labor		
12.	Land Rent			13.	Land Rent			14.	Land Rent		
15.	Power and Crop Equipment Expense	17.58	9.07	16.	Miscellaneous Costs	26.65	1407.12	17.	Miscellaneous Costs	26.65	1407.12
18.	Total Equipment Costs	33.53	1770.38	19.	Interest, Tax, Total, Interest Costs	16.47	869.62				

		PER ACRE	TOTAL			PER ACRE	TOTAL			PER ACRE	TOTAL
1.	Wages	32.3		2.	Yield/Rent	8.3	58.33	3.	Waive/Rent	7.00	58.40
4.	Gross Return			5.	Gross Return			6.	Gross Return		
7.	Herbicides	10.50		8.	Herbicides	3.50		9.	Hired Labor		
10.	Hired Labor	3.16		11.	Hired Labor	2.76	643.42	12.	Land Rent	19.92	1240.64
13.	Land Rent	23.44		14.	Land Rent	9.94	1078.17	15.	Miscellaneous Costs	33.38	
16.	Miscellaneous Costs			17.	Total Equipment Costs	6.42	1721.59	18.	Total Equipment Costs	53.30	162.47
19.	Total Equipment Costs										

TABLE 2 - Cost of Production for Small Farms - 1969 - 44 Farms

ANALYSIS OF COSTS FOR SODA LAGURK HAY AND MIXTURES - 1969 - - - 23 Farms

TOTAL PER ACRE

Land	76.5	
Land taxes	1.6	
Land rent	17.09	
Land improvement	2368.44	30.96
Land improvement		
Land improvement	1.28	
Land improvement	.08	
Land improvement	1.25	
Land improvement	.01	
Land improvement	200.43	2.62
Land improvement	2168.01	28.34
Land improvement		
Land improvement	11.72	
Land improvement	6.90	
Land improvement	18.62	
Land improvement	1424.43	
Land improvement	Per Unit	
Land improvement	10.91	132.86
Land improvement		22.24
Land improvement		743.53
Land improvement		9.72

ANALYSIS OF COSTS FOR SODA LAGURK HAY AND MIXTURES - 1969 - - - 22 Farms

TOTAL PER ACRE

Land	28.2	
Land taxes	26.88	
Land rent	1.00	
Land improvement	315.83	28.93
Land improvement		
Land improvement	.11	
Land improvement		
Land improvement	.11	
Land improvement	3.10	.11
Land improvement	812.73	28.82
Land improvement		
Land improvement	5.86	
Land improvement	8.25	
Land improvement	14.11	
Land improvement	397.90	
Land improvement	Per Unit	
Land improvement	.50	401.00
Land improvement		14.22
Land improvement		414.83
Land improvement		14.71

1.	Acres	TOTAL PER ACRE	21.1			
2.	Yield/Acre		1.0			
3.	Value/Unit		11.33			
4.	Gross Return		398.16	18.087		
5.	SUPPLEMENTAL COSTS					
6.	Fertilizer					
7.	Chemicals					
8.	Seed and Other					
9.	Hired Labor					
10.	Custom Work					
11.	TOTAL SUPPLEMENTAL COSTS		31.02	1.47		
12.	RETURN OVER SUPPLEMENTAL COSTS		367.14	17.40		
13.	ALLOCATED COSTS					
14.	Power and Crop Machinery Expenses					
15.	Land Cost					
16.	Miscellaneous Costs					
17.	TOTAL ALLOCATED COSTS		325.57	9.57		
18.	TOTAL LISTED COSTS		16.21	16.90		
19.	RETURN OVER TOTAL LISTED COSTS		41.59	1.97		
20.	Yield/Unit		20.6	1.62		
21.	Gross Return		646.06	29.91		
22.	SUPPLEMENTAL COSTS					
23.	Fertilizer					
24.	Chemicals					
25.	Seed and Other					
26.	Hired Labor					
27.	Custom Work					
28.	TOTAL SUPPLEMENTAL COSTS		163.05	7.78		
29.	RETURN OVER SUPPLEMENTAL COSTS		473.01	22.13		
30.	Allocated Costs					
31.	Power and Crop Machinery Expenses					
32.	Land Cost					
33.	Miscellaneous Costs					
34.	TOTAL LISTED COSTS		514.95	23.84		
35.	RETURN OVER TOTAL LISTED COSTS		131.11	6.07		

TABLE 10 CROP DATA FOR WHEAT-1969--- 10 Farms

1.	Acres	TOTAL PER ACRE	21.1			
2.	Yield/Acre		1.0			
3.	Value/Unit		11.33			
4.	Gross Return		398.16	18.087		
5.	SUPPLEMENTAL COSTS					
6.	Fertilizer					
7.	Chemicals					
8.	Seed and Other					
9.	Hired Labor					
10.	Custom Work					
11.	TOTAL SUPPLEMENTAL COSTS		31.02	1.47		
12.	RETURN OVER SUPPLEMENTAL COSTS		367.14	17.40		
13.	ALLOCATED COSTS					
14.	Power and Crop Machinery Expenses					
15.	Land Cost					
16.	Miscellaneous Costs					
17.	TOTAL ALLOCATED COSTS		325.57	9.57		
18.	TOTAL LISTED COSTS		16.21	16.90		
19.	RETURN OVER TOTAL LISTED COSTS		41.59	1.97		
20.	Yield/Unit		20.6	1.62		
21.	Gross Return		646.06	29.91		
22.	SUPPLEMENTAL COSTS					
23.	Fertilizer					
24.	Chemicals					
25.	Seed and Other					
26.	Hired Labor					
27.	Custom Work					
28.	TOTAL SUPPLEMENTAL COSTS		163.05	7.78		
29.	RETURN OVER SUPPLEMENTAL COSTS		473.01	22.13		
30.	Allocated Costs					
31.	Power and Crop Machinery Expenses					
32.	Land Cost					
33.	Miscellaneous Costs					
34.	TOTAL LISTED COSTS		514.95	23.84		
35.	RETURN OVER TOTAL LISTED COSTS		131.11	6.07		

TABLE 10 CROP DATA FOR TAME GRASS HAY-1969--- 6 Farms

	TABLE 11C - COSTS AND RETURNS FROM IRRODUCING BREWING PIGS - 1969						
	AVERAGE 13 FARMS		4 HIGH		4 LOW		
	Herd Per	Herd Per	Herd Per	Herd Per	Total Litter	Total Litter	
1	Number of Litters Farrowed	24	32	32	20	20	
2	Total Value Produced	\$ 4493	187.21	\$ 5424	169.50	\$ 2925	146.25
3	Pounds of Feed Fed	1375.4	616.9	1224.3	946.8	1256.8	1563.2
4	Corn	616.9	457.1	1224.3	946.8	1256.8	1563.2
5	Small Grain	1375.4	616.9	1224.3	946.8	1256.8	1563.2
6	Protein, Salt and Mineral	181.7	181.7	234.4	338.5	234.4	340.0
7	Complete Ration	256.8	256.8	338.5	338.5	256.8	256.8
8	Total Concentrates	3119.9	2054.9	234.4	234.4	2360.3	2360.3
9	Forages	128.2	312.5				
10	Feed Cost	61.95	52.59	76.75	76.75	.21	.21
11	Concentrates and Forages	1224.3	946.8	1224.3	946.8	.31	.31
12	Pasture	1241	62.05	1847	76.96	\$ 1693	\$ 1646
13	TOTAL FEED COSTS	62.05	84.20	1241	84.20	116.60	116.60
14	RETURN OVER FEED COST	62.05	84.20	116.60	116.60	\$ 1684	\$ 1684
15	Supplemental Costs	2.00	2.00	1.34	1.34	.63	.63
16	Miscellaneous Livestock Expense	1.42	1.42	1.42	1.42	2.44	2.44
17	Veterinary Expenses	1.04	1.04	1.04	1.04	1.10	1.10
18	Custom Work	3.13	3.13	5.59	5.59	2.44	2.44
19	TOTAL SUPPLEMENTAL COSTS	134	134	78	78	3.90	3.90
20	RETURN OVER FEED AND SUPPLIES	\$ 2512	80.30	104.66	104.66	\$ 1606	\$ 1606
21	SUPPLEMENTARY MANAGEMENT INFORMATION	AVERAGE PRICE REC'D PER PIG					
22	Return for \$100 Feed Fed	\$ 243.26	\$ 235.70	\$ 320.38	\$ 320.38	\$ 19.67	\$ 19.90
23	Average Price Rec'd. Per	\$ 235.70	\$ 19.90	\$ 23.46	\$ 23.46	\$ 19.67	\$ 19.67
24	Pig Sold	138	138	257	257	9.07	9.07
25	Number of Pigs Born Per	178	178	9.0	9.0	6.9	6.9
26	Litter	7.4	7.4	8.0	8.0	7.4	7.4
27	Per Cent Death Loss	15.1	15.1	9.3	9.3	2.45	2.45
28	Price Per Cwt. Concentrate	2.51	2.51	2.62	2.62	2.62	2.62
29	Feed and Suppl. Costs Per \$	11.13	9.56	7.14	7.14	9.56	9.56
	Pig Produced						

TABLE 12 - DAIRY COWS - 1969

	Average of 58 Farms	19 Farms High in Return Above Feed	19 Farms Low in Return Above Feed
	Per Cow	Per Cow	Per Cow
1 Average Number of Cows	29.6	41.8	20.8
2 Pounds of Milk	10854	11767	9166
3 Pounds of Butterfat	397.6	431.8	327.2
4 Per Cent of Butterfat in Milk	3.7	3.7	3.6
5 <u>Value of Produce</u>			
6 Dairy Products Sold	493.94	561.44	383.85
7 Dairy Products Used in Home	4.9	3.71	5.72
8 Milk Fed to Livestock	.55	6.70	10.10
9 Net Increases in Value of Cows	(-1.89)	(-1.82)	(-14.28)
10 TOTAL VALUE PRODUCED	\$504.50	\$570.03	\$385.39
11 <u>Pounds of Feed Fed</u>			
12 Corn	1438.3	1800.4	592.7
13 Small Grain & Complete Dairy Ration	2656.4	2431.8	3652.3
14 Protein, Salt & Mineral	401.2	485.9	104.6
15 TOTAL CONCENTRATES	4495.9	4718.1	4349.6
16 Legume Hay	5509.0	4750.7	6648.8
17 Other Hay and Dry Roughage	296.8		759.1
18 Silage	10092.6	13633.9	4800.1
19 <u>Feed Costs</u>			
20 Concentrates	115.71	122.27	105.43
21 Roughages	86.42	88.44	81.78
22 Pasture	4.76	2.78	7.21
23 TOTAL FEED COSTS	\$206.89	\$213.49	\$194.42
24 RETURN OVER FEED COST	\$297.89	\$356.54	\$190.97
25 <u>Supplemental Costs</u>			
26 Miscellaneous Livestock Expense	20.84	25.72	12.31
27 Veterinary Expense	7.53	9.55	5.05
28 Custom Work	24.32	26.84	21.30
29 TOTAL SUPPLEMENTAL COSTS	\$52.59	\$62.11	\$38.66
30 RETURN OVER FEED AND SUPPLEMENTAL COSTS	244.92	\$294.43	\$152.31
31 SUPPLEMENTARY MANAGEMENT INFORMATION			
32 Return for \$100 Feed Fed	\$243.84	\$267.00	\$198.22
33 Feed Cost Per Cwt. Milk	\$ 1.91	\$ 1.81	\$ 2.12
34 Feed Cost Per Pounds of Butterfat	\$.520	\$.494	\$.594
35 Pounds of Milk Per Pound of Concentrate	2.414	2.494	2.107
36 Average Price Per Cwt. Milk Sold	\$ 4.68	\$ 4.88	\$ 4.37
37 Average Price Per Pound of Butterfat	\$ 1.28	\$ 1.33	\$ 1.23

TABLE 13 - OTHER DAIRY CATTLE - 1969

	Average of 57 Farms	Per cow	19 Farms High in Return Above Feed	19 Farms Low in Return Above Feed
1 Number of Head	38.8	51.8		32.0
2 Net Inc. in Value	\$ 111.49		139.63	79.75
3 <u>Pounds of Feed Fed</u>				
4 Concentrates	623.9		655.2	630.2
5 Hay and Roughage	2468.1		1859.4	3493.4
6 Silage	2857.7		3318.4	3361.8
7 Milk	165.7		120.6	277.3
8 <u>Feed Cost</u>				
9 Concentrates	17.27		19.46	16.75
10 Roughages	30.77		28.78	38.34
11 Milk	6.57		4.83	11.34
12 Pasture	2.47		2.18	2.44
13 TOTAL FEED COSTS	\$ 57.08		55.25	69.37
14 RETURN OVER FEED COST	\$ 54.41		84.38	16.38
15 <u>Supplement Costs</u>				
16 Miscellaneous Livestock Expense	.59		.95	.13
17 Veterinary Expense	.82		1.10	.31
18 Custom Work	1.11		.81	1.81
19 TOTAL SUPPLEMENTAL COSTS	\$ 2.52		2.86	2.25
20 RETURN OVER FEED AND SUPPLEMENTAL COSTS	\$ 51.89		81.52	8.13
21 SUPPLEMENTARY MANAGEMENT INFORMATION				
22 Return for \$100 Feed Fed	\$ 195.30		252.73	114.95
23 Per Cent Death Loss	6.9		6.3	6.3

	Average Number of Cows	Value of Dairy Products	Net Inc. in Value	Total Value Produced	Feed Cost	Goncentrates	Roughage	Hay and Dry Roughage	Silage	Return over Feed	Feed Cost	Goncentrates	Roughage	Return over Feed	Supplemental Costs	Miscellaneous Livestock Expenses	Veterinary Expenses	Custom Work	Total Supplemental Costs	Return over Feed and Supplemental Costs	Information Management	Return for \$100 Feed Fed								
	per Cow	per Cow	per Cow	per Cow	per Cow	per Cow	per Cow	per Cow	per Cow	per Cow	per Cow	per Cow	per Cow	per Cow	per Cow	per Cow	per Cow	per Cow	per Cow	per Cow	per Cow	per Cow								
1	Average Number of Cows	29.6	506.39	411.63	20.8	41.0	41.41	574.41	506.39	142.57	142.57	176.32	97.02	750.73	643.96	142.57	142.57	5328.2	5324.5	5299.22	7906.0	8992.22	12155.3	18744.05	23773.9	455.95	368.25	247.24	14	Return over Feed Cost
2	Average Number of Cows	29.6	506.39	411.63	20.8	41.0	41.41	574.41	506.39	142.57	142.57	176.32	97.02	750.73	643.96	142.57	142.57	5328.2	5324.5	5299.22	7906.0	8992.22	12155.3	18744.05	23773.9	455.95	368.25	247.24	14	Return over Feed Cost
3	Net Inc. in Value																													
4	Net Inc. in Value																													
5	Lounds of Feed																													
6	Lounds of Feed																													
7	Hay and Dry Roughage																													
8	Silage																													
9	Feed Cost																													
10	Goncentrates																													
11	Roughage																													
12	Leasture Costs																													
13	Total Feed Costs																													
14	Return over Feed Cost																													
15	Supplemental Costs																													
16	Miscellaneous Livestock Expenses																													
17	Veterinary Expenses																													
18	Custum Work																													
19	Total Supplemental Costs																													
20	Return over Feed and Supplemental Costs																													
21	Supplemental Costs																													
22	Return for \$100 Feed Fed																													

TABLE 14 - ALL DUTY AND FEED

TABLE 15A - BEEF BREEDING CATTLE - 1969

	Average or 6 Farms	3 Farms High in Return	3 Farms Low in Return	Above Feed
1 Average Number of Beef Cows	39.3	60.2	22.5	
2 Average Number of Other Beef Animals and Bulls	26.9	33.4	13.8	
3 Pounds of Beef Produced	16195	21325	8265	
4 Net Increase in Value	121.70	121.28	95.51	
5 <u>Pounds of Feed Fed</u>				
6 Grain	158.1	233.3	50.3	
7 Protein, Salt and Mineral	28.3	34.1	39.4	
8 Legume Hay	5070.0	4597.7	3970.4	
9 Other Hay and Dry Roughage	2474.6	3163.7	2963.0	
10 Silage	1446.9	711.5		
11 <u>Feed Cost</u>				
12 Concentrates	4.05	5.65	2.58	
13 Foughages	59.16	52.10	59.24	
14 Pasture	9.90	9.11	13.78	
15 TOTAL FEED COSTS	73.11	66.86	75.60	
16 RETURN OVER FEED COSTS	48.59	54.42	19.91	
17 <u>Supplemental Costs</u>				
18 Miscellaneous Livestock Expenses	.55	.46	.49	
19 Veterinary Expense	.45	.20	1.51	
20 Custom Work	1.53	1.43	1.07	
21 TOTAL SUPPLEMENTAL COSTS	2.34	2.14	3.07	
22 RETURN OVER FEED AND SUPPLEMENTAL COSTS	16.25	52.23	16.84	
23 SUPPLEMENTARY MANAGEMENT INFORMATION				
24 Return for \$100 Feed Fed	160.43	181.39	126.34	
25 Price Per Cwt. Sold	7.03	26.44	28.44	
26 Average Weight Per Head Sold	545	713	442	
27 Percent Death Loss	4.3	3.9	7.4	
28 Percent Calf Crop				

Statement of Net Income and Retained Earnings, 1965-1969

	1965	1966	1967	1968	1969
Total Income	\$ 1464	1750	1979	2827	2739
Sales	3622	7054	8650	12420	11663
Bait & Fish	359	464	894	609	836
Fertilizer	717	901	840	696	740
Feed	123	164	173	70	91
Hemp	--	--	--	--	--
Horned	8	30	6	19	4
Pest	19	83	35	128	26
Other	--	--	1	--	2
Soil	23	41	49	37	62
Water	106	238	431	860	467
Weeds	34	309	126	134	266
Other	650	631	658	652	590
Income from Other Assets Sold	190	141	238	159	536
Income from Sale of the Farm	202	259	405	333	394
Total Income	209	156	300	124	303
Less Income Tax	\$ 10256	12191	14785	19068	18719
Net Income Before Retirement	1949	4108	3229	3427	4554
Less Income Tax on Farm	377	415	345	380	405
Net Income After Retirement	\$ 12582	16714	18359	22875	23678
Total Expenses					
Building & Equipment	417	753	677	360	1011
Buildings (rent, Financ. feeders)	92	74	94	189	47
Horse Prod.	20	84	15	30	44
Equipment (rent, Maintenance)	33	3	13	9	21
Hemp	--	--	--	--	--
Horned	6	24	5	16	10
Pest	--	--	2	--	4
Other Production Expenses	301	385	481	727	742
Fertilizer	1593	2004	2284	3049	2437
Feed	412	339	611	800	648
Other	395	431	503	579	471
Custom Work	514	560	712	903	957
Capital Expenditure (Farm share)	634	654	740	835	732
Equipment (Tractor, Truck)	594	650	636	902	838
Land, Buildings, Equipment, Real Estate	91	119	149	186	199
Hemp, Fertilizer, Livestock Equip.	68	70	83	101	137
Hemp, Fertilizer, Equipment	199	202	301	451	341
Hemp, Fertilizer (Farm share)	193	214	227	268	271
Land, Buildings, Equipment Taxes	453	494	537	381	397
Salaries, Wages, Office Expenses	176	215	236	333	323
Salaries, Wages, Office Expenses	\$ 6151	7325	8341	10119	9630
Equipment (rent, Maint.) Bought	1197	1548	2039	2131	2197
Equipment (rent, Maint.) Bought	162	405	409	626	496
Equipment (rent, Maint.) Improvements	213	1031	1473	1346	2876
Equipment (rent, Maint.) Improvements	\$ 8423	10359	12262	14222	15199
Hemp, Fertilizer, Equipment	--	--	425	325	324
Land, Buildings, Equipment	1411	1563	1822	2311	2705
Hemp, Fertilizer, Equipment	672	615	498	613	685
Capital Expenditure (Farmers + Other)	--	--	127	98	273
Capital Expenditure (Farmers + Other)	\$ 34	31	40	44	33
Land, Buildings, Equipment	\$ 10540	12568	15174	17613	19219
Equipment (rent, Maint.)	\$ 2042	4146	3186	5262	4458

• 10 hour working day.

TECHNOLOGY
MANAGEMENT

3.6%	3.3%	6.4%	5%	6%	84.4%	85%	85%	87.9%	85%	33%	23.0%	8.8%	8.6%	10%	2.2%	13.0%	8.0%	2.0%	10%	2.2%	3.6%
36.9%	31.1%	24.8%	22.1%	27.0%	27.0%	27.0%	27.0%	27.0%	27.0%	31.1%	24.8%	24.8%	24.8%	24.8%	24.8%	24.8%	24.8%	24.8%	24.8%	24.8%	24.8%
.10	.12	.12	.12	.12	.07	.13	.09	.07	.07	.07	.07	.07	.07	.07	.07	.07	.07	.07	.07	.07	.07
.81	.77	.83	.75	.84	.84	.75	.83	.77	.81	.77	.77	.77	.77	.77	.77	.77	.77	.77	.77	.77	.77
2.81:1	2.02:1	2.47:1	2.60:1	2.94:1	2.94:1	2.60:1	2.47:1	2.02:1	2.02:1	2.02:1	2.02:1	2.02:1	2.02:1	2.02:1	2.02:1	2.02:1	2.02:1	2.02:1	2.02:1	2.02:1	
35529	37044	25139	23246	22404	22404	23246	25139	37044	37044	37044	37044	37044	37044	37044	37044	37044	37044	37044	37044	37044	
4458	5350	3186	4146	2042	2042	4146	3186	5350	5350	5350	5350	5350	5350	5350	5350	5350	5350	5350	5350	5350	
6910	6953	4536	5356	3366	3366	4536	5356	6953	6953	6953	6953	6953	6953	6953	6953	6953	6953	6953	6953	6953	
313	352	368	408	357	357	408	368	352	352	352	352	352	352	352	352	352	352	352	352	352	
1969	1968	1967	1966	1965	1965	1967	1968	1968	1969	1969	1969	1969	1969	1969	1969	1969	1969	1969	1969	1969	

1955-1962-1968-1969 IN A CAPSULE