1960 ANNUAL REPORT

VOCATIONAL AGRICULTURE FARM MANAGEMENT PROGRAM

MANKATO AREA OF SOUTHERN MINNESOTA

UNIVERSITY OF MINNESOTA
INSTITUTE OF AGRICULTURE

and

MINNESOTA DEPARTMENT OF EDUCATION
VOCATIONAL DIVISION

and

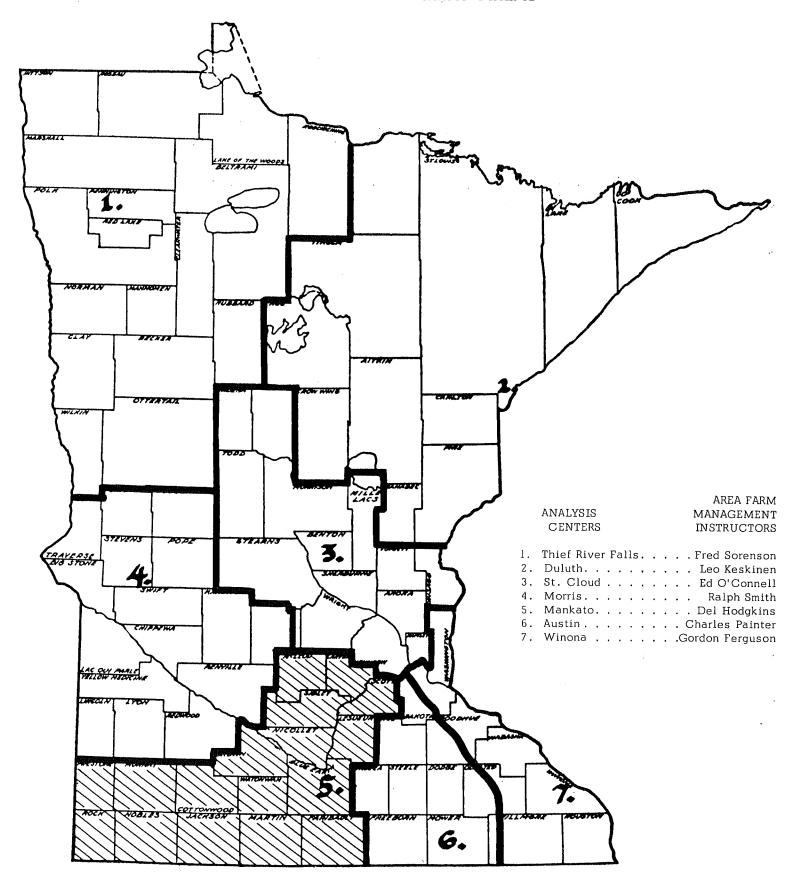
AREA VOCATIONAL TECHNICAL SCHOOL

MANKATO, MINNESOTA

Co-operating

APRIL 1961

VO-AG FARM MANAGEMENT AREAS



^{*} Shaded Area Served By The Mankato Analysis Center

1960 Report of the Vocational Agriculture Farm Management Program in the Mankato Area of Southen Minnesota

Del Hodgkins

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INTRODUCTION

The University of Minnesota, the Mankato Area Vocational-Technical School in cooperation with the Vocational Division, Minnesota Department of Education, operate and maintain the Vocational Agriculture Farm Management Program in the Mankato area of Southern Minnesota. This program was initiated in 1955 and is available to farmers who are enrolled in Vocational Agriculture, Adult, Young Farmer, and Veterans classes in the Public Schools. The area served by the Mankato analysis center is indicated on the map inside the front cover.

The purpose of the Program as far as the area school is concerned is: (1) to give assistance to the instructors in the mechanics of keeping farm records, (2) to aid in the analysis of the farm business through the use of records as a basis for vocational guidance. Enrollment is on a voluntary basis insofar as the number of schools participating and the number of farmers enrolled in the program.

The analysis of the records and the preparation of the reports for the Mankato Area are done under the direction of Delbert Hodgkins, Vocational Agriculture Program Coordinator at the Mankato School. Clerical assistants for this project were Mrs. Beverly Vogel, Mrs. Julie Wildasin and Mrs. Rozella Olsen.

The Farm Management Program is supervised locally by Erling O. Johnson, Superintendent of Schools, and F. G. Kalin, Director of Vocational and Adult Education at Mankato.

Cooperating Agencies are represented by G. R. Cochran and S. K. Wick of the State Department of Education, and Dr. Milo J. Peterson of the University of Minnesota Department of Agricultural Education. Dr. T. R. Nodland of the University Agricultural Economics Department has been available as a consultant.

Each farmer pays an annual fee which covers a portion of the cost of the record analysis. This fee covers the clerical costs of the analysis and the cost of publishing the report.

We are indebted to Truman Nodland for his assistance and advise in setting up this program and for many years of service rendered to vocational agriculture. Dr. Nodland and his associates in the Agriculture Economics Department have been most cooperative in this and other programs.

This report deals with farmers enrolled in 12 schools in the Mankato area. The following tabulation shows the number of 1960 records submitted and the name of the instructor:

SCHOOL		NO. OF RECORDS	INSTRUCTOR
Blue Earth		3	Ramsey Johnson
Buffalo		1	W. G. Streiff
Cleveland		2	Al Aho
Howard Lake		1	Leslie Hanson
Lake Crystal		17.	Ernest Freier
LeCenter		5	Dan Webster
Madelia		3	Malcomb Brandt
Mankato		6	
Mapleton		1	Carl Ziebarth
New Ulm		11	Kermit Kleene
St. James		3	Gene Bonzer
			Emery Krech
Worthington		1	Walter Larson
			Kenneth Johnson
	TOTAL	54	

The records kept included farm inventories, cash receipts and expenses, feed consumed by the various classes of livestock, family living secured from the farm, household and personal expenses and receipts, and the operator's liabilities and assets other than farm capital.

FARM INVENTORIES

The Capital investment per farm varied from \$31357 to \$186876. The average investment for all farms included in this report and for the high 20% and the low 20% in labor earnings is shown in Table 1.

FARM EARNINGS

Labor earnings is a measure of the relative financial success of a farm as compared with other farms and represents the returns above all farm expenses and a charge for the use of farm capital.

There are two methods of computing Labor earnings. Table 2 shows the earnings statement on a cash basis and Table 3 shows the earnings on an enterprise or accrual basis. The principal difference in the two statements is the method of handling the net increase or decrease in the value of 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.

RETURNS TO CAPITAL

The return to capital and family labor represents the amount available to the operator for living expenses, payment on indebtedness and savings. These figures are found in Table 5 and Table 22.

TABLE 1 - SUMMARY OF FARM INVENTORIES. 1960

TABLE 1 - SUMMARY OF FARM INVENTORIES, 1960							
		r farm		all farms			
Items	Jan. 1 -	Dec. 31	Jan. 1	Dec. 31			
Size of farm (acres)			22	28			
Size of business (work units)*			4]				
Dairy cattle	\$		\$ 2170	\$ 2208			
Other dairy cattle			1184	1270			
Beef cattle (incl. feeders)			5137	4739			
Hogs	-	-	2295	3825			
Sheep (incl. feeders)			53	45			
Poultry (incl. turkeys)		*****	109	135			
Total Productive Livestock	\$		\$10948	\$12222			
Horses	\$		\$	\$			
Crop, Seed and Feed	φ		\$ 6530	\$ 7830			
Auto & truck (farm share)	φ		\$ 1042	\$ 1124			
Tractors and motors	Ψ	•	2104	2138			
Crop and general machinery			4281	4106			
Livestock equipment		***************************************	1127	1252			
Total Machinery & Equipment	\$		\$ 8554	\$ 8620			
and the state of t	Ψ		4 000.	4 2 3 3 3			
Miscellaneous				, a. a.			
Land			36656	36656			
Buildings, fences, etc.			11337	11068			
TOTAL FARM CAPITAL	\$		\$74025	\$76396			
Items	20% most 1	profitable	20% least	profitable			
Items		orofitable - Dec. 31		profitable Dec. 31			
	Jan. 1	- Dec. 31	Jan. 1 .	Dec. 31			
Size of farm (acres)	Jan. 1 .	- Dec. 31 48	Jan. 1 .	Dec. 31			
	Jan. 1 .	- Dec. 31	Jan. 1 .	Dec. 31			
Size of farm (acres) Size of business (work units)*	Jan. 1 . 24	- Dec. 31 48 55	Jan. 1 - 24	Dec. 31 48 95			
Size of farm (acres) Size of business (work units)* Dairy cattle	Jan. 1 24 56 \$ 2035	Dec. 31 48 55 \$ 2010	Jan. 1 - 24 39 \$ 2287	Dec. 31 48 95 \$ 2376			
Size of farm (acres) Size of business (work units)* Dairy cattle Other dairy cattle	Jan. 1 24 56 \$ 2035 1385	Dec. 31 48 55 \$ 2010 1165	Jan. 1 - 24 39 \$ 2287 1188	Dec. 31 18 95 \$ 2376 1351			
Size of farm (acres) Size of business (work units)* Dairy cattle Other dairy cattle Beef cattle (incl. feeders) Hogs	Jan. 1 24 56 \$ 2035	Dec. 31 48 55 \$ 2010	Jan. 1 - 24 39 \$ 2287	Dec. 31 48 95 \$ 2376			
Size of farm (acres) Size of business (work units)* Dairy cattle Other dairy cattle Beef cattle (incl. feeders) Hogs Sheep (incl. feeders)	Jan. 1 24 56 \$ 2035 1385 9690	Dec. 31 48 55 \$ 2010 1165 10483	Jan. 1 - 24 39 \$ 2287 1188 4337	Dec. 31 48 95 \$ 2376			
Size of farm (acres) Size of business (work units)* Dairy cattle Other dairy cattle Beef cattle (incl. feeders) Hogs Sheep (incl. feeders) Poultry (incl. turkeys)	Jan. 1 24 56 \$ 2035 1385 9690 3409 31 115	\$ 2010 1165 10483 6976 35 185	Jan. 1 - 24 39 \$ 2287 1188 4337 1335 9 58	Dec. 31 48 95 \$ 2376			
Size of farm (acres) Size of business (work units)* Dairy cattle Other dairy cattle Beef cattle (incl. feeders) Hogs Sheep (incl. feeders)	Jan. 1 24 56 \$ 2035 1385 9690 3409 31	\$ 2010 1165 10483 6976 35	Jan. 1 - 24 39 \$ 2287 1188 4337 1335 9	Dec. 31 48 95 \$ 2376			
Size of farm (acres) Size of business (work units)* Dairy cattle Other dairy cattle Beef cattle (incl. feeders) Hogs Sheep (incl. feeders) Poultry (incl. turkeys) Total Productive Livestock	Jan. 1 24 56 \$ 2035 1385 9690 3409 31 115 \$16665	\$ 2010 1165 10483 6976 35 185 \$20854	Jan. 1 - 24 39 \$ 2287 1188 4337 1335 9 58 \$ 9214	\$ 2376 1351 2542 1939 23 70 \$ 8301			
Size of farm (acres) Size of business (work units)* Dairy cattle Other dairy cattle Beef cattle (incl. feeders) Hogs Sheep (incl. feeders) Poultry (incl. turkeys) Total Productive Livestock Horses	\$ 2035 \$ 2035 \$ 1385 9690 3409 31 115 \$16665	\$ 2010 1165 10483 6976 35 185 \$20854	Jan. 1 - 24 39 \$ 2287 1188 4337 1335 9 58 \$ 9214	Pec. 31 18 95 \$ 2376			
Size of farm (acres) Size of business (work units)* Dairy cattle Other dairy cattle Beef cattle (incl. feeders) Hogs Sheep (incl. feeders) Poultry (incl. turkeys) Total Productive Livestock Horses Crop, Seed and Feed	\$ 2035 \$ 2035 \$ 1385 9690 3409 31 \$ 115 \$ 16665	\$ 2010 1165 10483 6976 35 185 \$20854	Jan. 1 - 24 39 \$ 2287 1188 4337 1335 9 58 \$ 9214 \$ \$ 5011	\$ 2376 1351 2542 1939 23 70 \$ 8301 \$ \$ 6384			
Size of farm (acres) Size of business (work units)* Dairy cattle Other dairy cattle Beef cattle (incl. feeders) Hogs Sheep (incl. feeders) Poultry (incl. turkeys) Total Productive Livestock Horses Crop, Seed and Feed Auto & truck (farm share)	\$ 2035 1385 9690 3409 31 115 \$16665 \$ \$ 8980 1406	\$ 2010 1165 10483 6976 35 185 \$20854 \$ \$11475 1324	Jan. 1 - 24 39 \$ 2287 1188 4337 1335 9 58 \$ 9214 \$ \$ 5011 1196	\$ 2376 1351 2542 1939 23 70 \$ 8301 \$ \$ 6384 1183			
Size of farm (acres) Size of business (work units)* Dairy cattle Other dairy cattle Beef cattle (incl. feeders) Hogs Sheep (incl. feeders) Poultry (incl. turkeys) Total Productive Livestock Horses Crop, Seed and Feed Auto & truck (farm share) Tractors and motors	\$ 2035 1385 9690 3409 31 115 \$16665 \$ \$ 8980 1406 2200	\$ 2010 1165 10483 6976 35 185 \$20854 \$ \$11475 1324 2208	Jan. 1 - 24 39 \$ 2287 1188 4337 1335 9 58 \$ 9214 \$ 5011 1196 2098	\$ 2376 1351 2542 1939 23 70 \$ 8301 \$ \$ 6384 1183 2472			
Size of farm (acres) Size of business (work units)* Dairy cattle Other dairy cattle Beef cattle (incl. feeders) Hogs Sheep (incl. feeders) Poultry (incl. turkeys) Total Productive Livestock Horses Crop, Seed and Feed Auto & truck (farm share) Tractors and motors Crop and general machinery	\$ 2035 1385 9690 3409 31 115 \$16665 \$ \$ 8980 1406 2200 5286	\$ 2010 1165 10483 6976 35 185 \$20854 \$ \$11475 1324 2208 5003	\$ 2287 1188 4337 1335 9 58 \$ 9214 \$ \$ 5011 1196 2098 4886	\$ 2376 1351 2542 1939 23 70 \$ 8301 \$ \$ 6384 1183 2472 4549			
Size of farm (acres) Size of business (work units)* Dairy cattle Other dairy cattle Beef cattle (incl. feeders) Hogs Sheep (incl. feeders) Poultry (incl. turkeys) Total Productive Livestock Horses Crop, Seed and Feed Auto & truck (farm share) Tractors and motors Crop and general machinery Livestock equipment	\$ 2035 1385 9690 3409 31 115 \$16665 \$ \$ 8980 1406 2200 5286 895	\$ 2010 1165 10483 6976 35 185 \$20854 \$ \$11475 1324 2208 5003 1263	\$ 2287 1188 4337 1335 9 58 \$ 9214 \$ \$ 5011 1196 2098 4886 1107	\$ 2376 1351 2542 1939 23 70 \$ 8301 \$ \$ 6384 1183 2472 4549 934			
Size of farm (acres) Size of business (work units)* Dairy cattle Other dairy cattle Beef cattle (incl. feeders) Hogs Sheep (incl. feeders) Poultry (incl. turkeys) Total Productive Livestock Horses Crop, Seed and Feed Auto & truck (farm share) Tractors and motors Crop and general machinery Livestock equipment Total Machinery & Equipment	\$ 2035 1385 9690 3409 31 115 \$16665 \$ \$ 8980 1406 2200 5286	\$ 2010 1165 10483 6976 35 185 \$20854 \$ \$11475 1324 2208 5003	\$ 2287 1188 4337 1335 9 58 \$ 9214 \$ \$ 5011 1196 2098 4886	\$ 2376 1351 2542 1939 23 70 \$ 8301 \$ \$ 6384 1183 2472 4549			
Size of farm (acres) Size of business (work units)* Dairy cattle Other dairy cattle Beef cattle (incl. feeders) Hogs Sheep (incl. feeders) Poultry (incl. turkeys) Total Productive Livestock Horses Crop, Seed and Feed Auto & truck (farm share) Tractors and motors Crop and general machinery Livestock equipment	\$ 2035 1385 9690 3409 31 115 \$16665 \$ \$ 8980 1406 2200 5286 895	\$ 2010 1165 10483 6976 35 185 \$20854 \$ \$11475 1324 2208 5003 1263	\$ 2287 1188 4337 1335 9 58 \$ 9214 \$ \$ 5011 1196 2098 4886 1107	\$ 2376 1351 2542 1939 23 70 \$ 8301 \$ \$ 6384 1183 2472 4549 934			
Size of farm (acres) Size of business (work units)* Dairy cattle Other dairy cattle Beef cattle (incl. feeders) Hogs Sheep (incl. feeders) Poultry (incl. turkeys) Total Productive Livestock Horses Crop, Seed and Feed Auto & truck (farm share) Tractors and motors Crop and general machinery Livestock equipment Total Machinery & Equipment Miscellaneous Land	\$ 2035 1385 9690 3409 31 115 \$16665 \$ \$ 8980 1406 2200 5286 895 \$ 9787	\$ 2010 1165 10483 6976 35 185 \$20854 \$ \$11475 1324 2208 5003 1263 \$ 9798	Jan. 1 - 24 39	\$ 2376 1351 2542 1939 23 70 \$ 8301 \$ \$ 6384 1183 2472 4549 934 \$ 9138			
Size of farm (acres) Size of business (work units)* Dairy cattle Other dairy cattle Beef cattle (incl. feeders) Hogs Sheep (incl. feeders) Poultry (incl. turkeys) Total Productive Livestock Horses Crop, Seed and Feed Auto & truck (farm share) Tractors and motors Crop and general machinery Livestock equipment Total Machinery & Equipment Miscellaneous Land Buildings, fences, etc.	\$ 2035 1385 9690 3409 31 115 \$16665 \$ \$ 8980 1406 2200 5286 895 \$ 9787	\$ 2010 1165 10483 6976 35 185 \$20854 \$ \$11475 1324 2208 5003 1263 \$ 9798	\$ 2287 1188 4337 1335 9 58 \$ 9214 \$ 5011 1196 2098 4886 1107 \$ 9287	\$ 2376 1351 2542 1939 23 70 \$ 8301 \$ \$ 6384 1183 2472 4549 934 \$ 9138			
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^{*}See page 13 for an explanation of "work units".

TABLE 2 - SUMMARY OF FARM EARNINGS (CASH STATEMENT), 1960						
Items	Your	Average of alk	20% most profitable	20% least profitabl		
FARM RECEIPTS	farm	farms	farms	farms		
Dairy cattle	d:	\$ 1013	\$ 1549	\$ 890		
Dairy products	Φ	2923		ъ 690 3257		
Beef cattle (incl. feeders)			2449			
Hogs	Corte Community of Parish and Assessment	8962	17820	7015		
-		7606	13540	5192		
Sheep and wool		76	44	18		
Poultry (incl. turkeys)	***************************************	42	25	28		
Eggs		478	589	493		
Corn		1827	428	2007		
Small Grain		357	260	311		
Other crops	***************************************	1463	1893	1148		
Mach. & equip. sold & gas tax refunds	3	296	474	304		
Income from work off the farm		320	426	336		
Miscellaneous farm income		273	656	172		
(1) Total farm sales	\$	\$25636	\$40153	\$21171		
(2) Increase in farm capital		2371	6794			
(3) Family living from the farm		281	386	268		
(4) Total farm receipts $(1)+(2)+(3)$	\$	\$28288	\$47333	\$21439		
FARM EXPENSES						
Dairy cattle bought	\$	\$ 151	\$ 88	\$ 202		
Beef cattle bought (incl. feeders)		4191	9249	2741		
Hogs bought		634	1936	369		
Sheep bought		4		19		
Horses bought						
Poultry bought (incl. turkeys)		66	110	34		
Miscellaneous livestock expense		518	697	515		
Feed bought		4555	7794	3450		
Fertilizer		1354	1950	1048		
Other crop expense		776	780	892		
Custom Work Hired		777	1060			
Gas, oil, grease bought (farm share)	***************************************			674		
Repairs for tractors, trucks, and		1039	1170	1168		
repairs for cractors, trucks, and		rar	074	40.0		
autos (farm share)		575	874	486		
Repair & upkeep of farm real estate		167	196	174		
Repair & upkeep of crop & gen. mach.		385	508	400		
Repair & upkeep of livestock equipmen Wages of hired labor	. U	150	201	153		
Plastminitum armana		369	755	523		
Electricity expense		227	244	224		
Personal property & real estate taxes		864	869	923		
Telephone and general farm expense	,	249	356	285		
(5) Total cash operating expense	\$	\$17051	\$28837	\$14280		
(6) Mech. power bought (farm share)		795	736	1181		
(7) Crop & General Machinery bought		652	675	480		
(8) Livestock equipment bought		34 8	471	193		
(9) New real estate improvements		477	858	691		
(10) Total farm purchases (5) to (9)	\$	\$19323	\$31577	\$16825		
(11) Decrease in farm capital			4	129		
(12) Interest on farm capital	•	3761	4524	3848		
(13) Unpaid family labor		197	126	101		
(14) Board furnished hired labor		64	133	93		
15) Total farm expense (10) to (14)	\$	\$23345	\$36360	\$20996		
				いんしょうし		

	· · · · · · · · · · · · · · · · · · ·	Average	20% most	20% least
Items	Your	of all	profitable	profitable
	farm	farms	farms	farms
RETURNS AND NET INCREASES				
A STATE OF THE PARTY OF THE PAR				
Dairy cows	\$	\$ 2919	\$ 2445	\$ 3200
Other dairy cattle		1283	1451	1138
Beef breeding herd		40		202
Feeder cattle		4012	9452	2342
Hogs		8823	15238	5497
Sheep - farm flock		64	48	14
Turkeys			-	
Chickens		498	600	521
ALL PRODUCTIVE LIVESTOCK	\$	\$17639	\$29234	\$12915
Value of feed fed to livestock		10265	16756	8287
Return over feed from livestock	\$	\$ 7374	\$12478	\$ 4628
Crop, seed, and feed		8498	11281	7704
Income from labor off the farm		143	273	121
Agricultural conservation payments		54	85	ay 46 40
Miscellaneous		220	570	172
(1) TOTAL RETURNS & NET INCREASES	\$	\$16289	\$24687	\$12624
EXPENSES AND NET DECREASES				
Horses	\$	\$	\$	\$
l'ruck	т	261	414	189
Auto (farm share)		440	452	468
Tractor		1222	1564	1357
Elec. & gas engine exp. (farm share)		232	249	226
Hired power		373	536	323
Total power	\$	\$ 2528	\$ 3215	\$ 2563
Crop and general machinery	Ψ	1268	1459	1274
ivestock equipment	**************************************	341	246	520
Buildings, fences and tiling		914	955	1305
fisc. Productive livestock expense		518	697	515
abor	· · · · · · · · · · · · · · · · · · ·	902	1393	949
Real estate taxes		687	693	704
Personal property tax		176	176	218
insurance		101	179	115
eneral farm expense	***************************************	148	177	170
interest on farm capital		3761	4524	3848
		<u></u>	TUNT	2040
	\$	\$11345	\$1371A	רפוכו¢
(2) TOTAL EXPENSES & NET DECREASES	\$	\$11345	\$13714	\$12181

Cash receipts and expenses are adjusted for changes in inventory for each enterprise and for each item of expense in order to show total receipts and net increases and total expenses and net decreases. The operator's earnings are the same as those on page 4.

FAMILY LIVING FROM THE FARM

The family living from the farm is the estimated value of the farm produce used in the house and shelter furnished the farmer and his family by the farm. It is a part of the income of the farm and a part of the expense of operating the household even though cash transactions are not involved. The omission of the farm produce used in the home results in an incomplete record of both farm income and personal expense.

The value of the family living is shown in Table 4. The values assigned are a conservative market price on the farm. If these products had been purchased, the amount paid out would have been considerably higher.

TABLE 4 - FAMILY LIVING FROM THE FARM, 1960

TADLE	4 - FAMILY LIV	VING FROM THE			
Items		77	Average	77	Average
rcems		Your	of all	Your	of all
		farm	farms	farm	farms
Whole milk			456 qts.	3	\$ 43
Skim milk			4 4		Ψ ••
Cream					-
Farm-made butter			7 lbs.		4
Beef			707 lbs.		141
Hogs			356 lbs.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	54
Lamb and mutton			330 IDS.		. 54
Poultry			00.33		
		-	26 lbs.		6
Eggs			32 doz.		13
Potatoes			6 bu.		1
Vegetables & Fruit					11
Farm fuel					8
TOTAL			\$;	\$281
=			Ψ		φ
•					

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 5. These farmers spent an average of \$297.25 per month for family living in addition to the food, fuel, and housing furnished by the farm.

TABLE 5 - HOUSEHOLD AND PERSONAL EXPENSES FOR THOSE FARMS WHICH KEPT

COMPLETE ACCOUNTS OF THESE EXPENSES - 1960							
Items	Your farm	Average of all farms	Most profitable farms	Least profitable farms			
Number of persons - family Number of adult equiv family	Outside and the state of the st	4.3	5.8 3.8	3.6 2.6			
Food and meals bought Operating and supplies Furnishing and equipment Clothing and clothing materials Personal care, personal spending Education, recreation & development Gifts and special events Medical care and health insurance Church, welfare Personal share of suto & truck expense Operator's share of upkeep on dwelling Household share of electricity and telephone expense TOTAL CASH LIVING EXPENSE \$		\$ 968 266 174 267 97 156 126 418 141 140 86	\$ 625 94 122 179 20 42 58 209 111 68 32 49 \$1609	\$ 351 112 73 91 63 68 25 157 41 28 151			
Household & personal share of new auto\$ New dwelling Taxes and other deductions Life insurance Other savings and investments TOTAL HOUSEHOLD & PERSONAL CASH EXP.\$ Total family living from the farm TOTAL CASH EXPENSE & PERQUISITES \$		\$ 88 164 243 140 \$3567 262 \$3829	\$ 29 129 112 \$1879 185 \$2064	\$ 11 153 101 2 \$1459 129 \$1588			
RETURN TO CAPITAL & FAMILY LABOR \$	***	\$5583	\$7795	\$1255			

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 liabilities is his net worth. A net worth statement on a tenure basis is presented in Table 6. 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 shows the gain in net worth. It represents the financial progress that has been made during the year.

TABLE 6 - NET WORTH STATEMENT FOR THOSE FARMERS WHO KEPT A COMPLETE RECORD OF ALL ASSETS AND LIABILITIES, 1960 (OPERATOR'S SHARE, TENURE BASIS)

ADD POSETO AND DISCOLLEGE		Your Fa			Owners
Items	Jan.	1 -	Dec. 31	Jan. 1	_ Dec. 31
Total Farm Capital (1)	\$	\$		\$68714	\$73137
Stocks and Bonds				578	779
Life Insurance				758	747
Notes & Accounts Receivable				dell was sign	39
Shares in Marketing				239	283
Outside Real Estate				1000	1000
Cash on Hand and in Bank				1458	1254
Household Goods				3086	3276
Personal Share of Auto				420	515
Farm Dwelling				4364	4149
Miscellaneous				708	503
Total Non-Farm Assets (2)	\$	\$		\$12611	\$12545
TOTAL ASSETS $(1) + (2) = (3)$	\$	\$		\$81325	\$85682
Fed. Land Bank Mortgages				2815	2585
F.H.A. Real Estate Mortgages		-			
Other Mortgages				12087	11699
Loans on Real Estate					
Production Credit Assoc. Loans				409	1003
Miscellaneous					-
Crop Loans (Sealed)	•				
Other Chattel Mortgages				3367	2797
Notes Payable				3820	3062
Accounts Payable		~		3965	4756
TOTAL LIABILITIES (4)	\$	\$		\$26463	\$25902
FARMER'S NET WORTH = $(3) - (4)$	\$	\$		\$54862	\$59780
Change in Net Worth	* *************************************	\$_		•	\$ 4918

	9 Part	_Owners	16 Rer	nters
Items	Jan. l	_ Dec. 31	Jan. 1	Dec. 31
Total Farm Capital (1)	\$58551	\$59884	\$19219	\$21477
Stocks and Bonds	1207	1094	180	177
Life Insurance	1239	1184	695	815
Notes & Accounts Receivable		181	95	62
Shares in Marketing	93	94	64	19
Outside Real Estate	2130	2130	760	750
Cash on Hand and in Bank	1305	1002	821	719
Household Goods	2894	2928	1990	1937
Personal Share of Auto	444	354	340	323
Farm Dwelling	3492	3331	300	294
Miscellaneous	***			
Total Non-Farm Assets (2)	\$12804	\$12298	\$ 5245	\$ 5096
TOTAL ASSETS $(1) + (2) = (3)$	\$71355	\$72182	\$24464	\$26573
Fed. Land Bank Mortgages	2367	2244		-
F.H.A. Real Estate Mortgages				
Other Mortgages	10464	9994	1230	1227
Loans on Other Real Estate	4278	4167		
Production Credit Assoc. Loans	1376	~	1139	151
F.H.A. Chattel Mortgages		***		1125
Crop Loans (Sealed)			69	76
Other Chattel Mortgages	6581.	6528	2342	924
Notes Payable	2790	2791	1589	1372
Accounts Payable	338	640	1928	3558
TOTAL LIABILITIES (4)	\$28194	\$26364	\$ 8297	\$ 8433
FARMER'S NET WORTH = $(3) - (4)$	\$43161	\$45818	\$16167	\$18140
Change in Net Worth		\$ 2657	•	\$ 1973

RANGE IN EARNINGS

Every study of farm earnings shows a wide variation in earnings among farmers in a given year (figure 1). The average labor earnings of those farmers ranking in the upper 20 per cent of the range according to earnings was \$10973 and of those in the lower 20 per cent was \$443. This is a range of \$10530 between the average earnings of these two groups. Some of the causes for these differences in earnings, 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 Yields
- 2. Choice of Crops
- 3. Return from Livestock
- 4. Amount of Livestock

- 5. Size of Business
- 6. Work Units per Worker
- 7. Control over Expense

(These factors vary from year to year in their relative influence on earnings.) 1

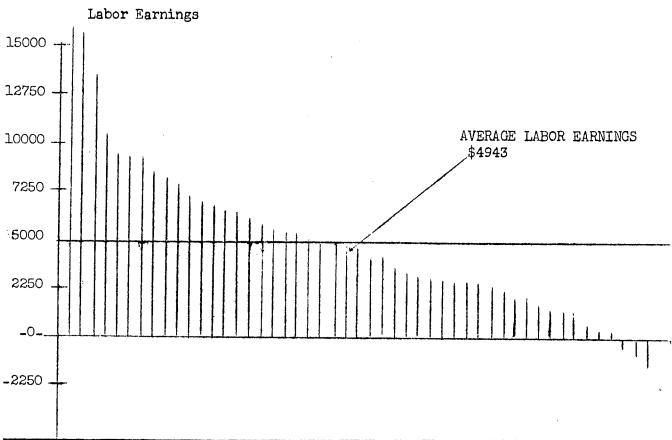


Figure 1. - Range in Labor Earnings
Each line represents the earnings of one farmer.

^{1/} See Pond, G. A. "Why Farm Earnings Vary." Minn. Agri. Expt. Sta. Bul. 386, June, 1945
Nodland, T. R. and Pond, G. A. "Some Factors Affecting the Earnings of Farmers in Southwestern Minnesota." Univ. of Minn. Dept. of Ag. Econ., Report No. 219, November, 1954.

TABLE 7 - MEASURES OF FARM ORGANIZATION AND MANAGEMENT EFFICIENCY, 1960 Measures used Average 20% most 20% least in chart on Your of all profitable profitable page 11 farm farms farms farms Labor earnings \$ 49.43 \$10973 443 (1) Crop yields* 1.00 96 101 (2) Percent tillable land in high return crops** 69 64 69 (3) Return for \$100 feed to productive livestock*** 100 103 78 (4) Productive livestock units per 100 acres**** 43 70 30 (5) Size of business - work units 416 565 395 (6) Work units per worker 317 367 298 (7) Power, mach., equip., and build. exp. per work unit \$13.05 \$11.50 \$14.92 Items related to some of the above measures: (3) Index of return for \$100 feed from: Dairy cattle (see p.16 & 17) 100 103 94 Beef breeding herd (see p.18) 100 ---Feeder cattle (see p.18) 100 108 80 Hogs (see p. 15) 100 104 103 Sheep - Farm flock (see p.19) 100 Chickens (see p. 20) 100 (4) Number of animal units 90 187 65 (5) Work units on crops 122 137 132 Work units on prod. livestock 280 401 251 Work units from other prod.work 14 27 12 Number of family workers 1.2 1.3 1.1 Number of hired workers Total number of workers (7) Power expense per work unit 6.39 5.84 6.60 Crop mach. exp. per work unit 3.22 2.64 3.27 Livestock equip, exp. per w.u. .89 .82 1.11 Bldgs. & fences exp. per w.u. 2,55 2,20 3.94

^{*} Given as percentage of the average

^{**} Crops are marked in table 9 as A,B,C, and D. All of acres in A crops, one-half of acres in B crops, and one-fourth of acres in C crops are used in calculating per cent of tillable land in high return crops.

^{***} An index weighted by the animal units of livestock.

^{****} Acres in timber not pastured, roads, waste and farmstead were not included.

THERMOMETER CHART

Using your figures from page 10, locate your standing with respect to the various measures of farm organization and management efficiency. The averages for the farms included in this summary are located between the solid lines acress the center of this page.

Labor Earnings	Crop Yields	High Return Crops	Return from pro- ductive livestock	Pr. L.S. units per 100 A.	Work Units Work per Units Worker	Pow., Mach., eq., bldg. exp. per work unit
10,600	140	93	180	75	815 475	7
9,900	135	90	170	71	765 455	8
9,200	130	87	160	67	715 435	9
8,500	125	84	150	63	665 415	10
7,800	120	81	140	59	615 395	11
7,100	115	78	130	55	565 375	12
6,400	110	75	120	51	515 355	13
5,700	105	72	110	47	465 335	14
5,000	100	69	100	43	415 315	15
4,300	95	66	90	39	365 295	16
3,600	90	63	80	35	315 275	17
2,900	85	60	70	31	265 255	18
2,200	80	57	60	27	215 235	19
1,500	75	54	50	23	165 215	20
800	70	51	40	19	115 195	21
100	65	48	30	15	65 175	22
-600	60	45	20	11	0 155	24

TABLE			Acres	Average		Average
Crop	Crop	Number	your		Your	Yield
And the second s	rating	growing	farm	all farms	yield	Per Acre
Canning Peas	В	1		•3		\$ 26.83
Wheat	C	20	***************************************	5.9	***************************************	26.8 bu.
Oats for silage	C	4		1.2		7.6 ton.
Oats & Mix. for grain	D	42		18.9		53.6 bu.
Total small grain	and peas			26.3		
Com and				.		
Corn, grain Sweet corn	A	50		111.3		67.6 bu.
Soybeans for grain	В	4		1.7		\$ 37.72
Corn & Cane silage	B B	38	***************************************	28.8		24.5 bu.
Corn & Cane fodder	D	23 1		6.3 .1		10.8 ton 3.0 ton
Total cultivated co	rops		***************************************	148.2		0,0 0011
	•			2000		
Alf. & alf. mix. hay	В	44		18.6		3.2 ton
Other leg. & leg. mix	C	1		.2		3.0 ton
Other annual hay	D	1 2 1		.3		2.5 ton
Legumes for seed	D	1		.2		100 lb.
Total tillable land	in hay			19.3		
ለገ ኖ ይ ለገድ ከ	_	- 0				
Alf. & Alf. brom past. Other leg. & mix.	В	13		3.5		
Other tillable pasture	C D	2 9		.7 1.6		
Total tillable land	i in pastu	re		5.8		
Soil bank						
Till. land not cropped	A D	3		1.0		
Total tillable land	Į.			200,6		
Wild hay (non-till.)		9		.8		
Non-till. pasture		20		6.7		•
Timber (not pasture)		9		1.5		
Roads & waste		45		10.8		
Farmstead		47		7.3		
TOTAL ACRES IN FARM				227.7		

Per cent land tillable Per cent tillable land in high return crops

88.0% 70.3%

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 9.

TABLE 9 - NUMBER OF WORK UNITS FOR EACH CLASS OF LIVESTOCK & EACH ACRE OF CROP

	No. of		No, of
Item	Work Units	Item	Work Units
Dairy cattle	10.0 per cow	Peas, small grain	.5 per A.
Other dairy cattle	3.5 per an. unit*	Hybrid seed corn	2.0 per A.
Beef breeding herd	3.5 per an. unit*	Corn husked	.7 per A.
Feeder cattle	.25 per 100 lbs.	Corn silage	1.0 per A.
Sheep - farm flock	1.5 per an. unit*	Sweet corn	.7 per A.
Sheep - feeders	.3 per 100 lbs.	Soybean grain	.5 per A.
Hogs	.2 per 100 lbs.	Alfalfa hay	.6 per A.
Hens	20.0 per 100 hens	Other hay & seed	.4 per A.
Turkeys	.5 per 100 lbs.	Grass silage	.4 per A.

^{*} One animal unit represents one dairy cow or bull, two other dairy cattle, $1\frac{1}{4}$ beef cows or bull, 1 feeder steer or heifer, 3 1/3 other beef cattle, 7 sheep, 14 lambs, $2\frac{1}{2}$ hogs, 5 pigs, 50 hens, or 1,100 lbs. of turkeys produced.

POWER AND MACHINERY EXPENSES

Power and machinery expense per crop acre is an indication of the economy with which capital is invested in these items. The expenses are high on farms with a small acreage. In some cases, low expenses for labor might be offset by high power and equipment costs. The farmer is interested in operating at the lowest cost for power, machinery and labor combined.

TABLE 10 - POWER AND MACHINERY EXPENSES PER CROP ACRE, 1960

Items	Your farm	Average of all farms	20% most profitable farms	20% least profitable farms
Crop acres per farm Tractor expense per crop acre Crop and general machinery expense	\$	194.4 \$6.38	204.2 \$7.35	204.6 \$7.13
per crop acre	\$	\$6.86	\$6.46	\$7.19

AMOUNT OF LIVESTOCK

The farmers cooperating in this study are predominatly livestock farmers. 49% of these farmers maintained dairy cattle, 30% kept poultry, 14% raised sheep, 42% fed beef cattle, and 90% raised hogs.

TABLE 11 - AMOUNT OF LIVESTOCK, 1960

Items	Your farm	Average of all farms	20 % most profitable farms	20% least profitable farms
Number of milk cows Number of other dairy cattle Number of beef cattle (incl. feeders) Number of ewes Number of hens Pounds of hogs produced Pounds of beef produced		8.9 11.4 26.7 3.6 90.0 52110 17830	7.6 12.6 51.7 2.6 95.6 91870 39480	11.0 11.1 25.3 1.2 88.2 33955 13592

TOTAL FEED COSTS AND RETURNS FROM YOUR LIVESTOCK ENTERPRISES

The total "return over feed costs" for each class of livestock is shown in Table 12. 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 "per head", "per unit", or "per 100 pounds". 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 5. The value of milk consumed by calves is included in the total returns from dairy cows and in the total feed cost for other dairy cattle. The value of milk consumed by calves is not included in the total returns or the feed cost of "all dairy" cattle. The return over feed is not a net return, but rather the amount available from the gross income, after paying the feed bill, to cover the outlay for hired labor, power, equipment, taxes, insurance, interest and veterinary bills and to provide a return for the use of family labor and capital.

TABLE 12 - TOTAL FEED COSTS AND RETURNS FROM YOUR LIVESTOCK ENTERPRISES, 1960 Dairy Cattle Beef Cows Other All Breeding Herd Total returns Total feed cost Total return over feed Feeder Farm Flock Cattle Hogs of Sheep Chickens Total returns Total feed cost Total return over feed

Feed is the largest single item of cost for all classes of livestock. However, the proportion of the total cost represented by feed varies considerably between classes of livestock. Feed makes up approximately 45 per cent of the total costs of maintaining dairy cattle and poultry; 50 per cent in the case of a farm flock of sheep; and 75 to 90 per cent for hogs, feeder cattle and feeder 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 food.

HOGS

Raising hogs is a major enterprise on most farms in Southern Minnesota. Ninety per cent of the farms in this study raised hogs for market. Table 14 below summarizes the results of the hog enterprise analysis.

TABLE 14 - FEED COSTS AND RETURNS FROM HOGS, 1960 20% of farms Average of 20% of farms 44 farms highest in lowest in Items Your raising returns returns Farm hogs above feed above feed Feed per cwt. hogs produced, lbs.: Corn 403.2 324.6 378.3 Small grain 25.9 25.5 20.1 Commercial feeds 61.2 59,0 66.3 Total concentrates* 411.3 488.1 464.7 Alfalfa hay 6.5 7.6 7.1 Milk Feed cost per cwt. hogs produced: Concentrates* 9.55 9.12 \$ 10.70 Milk Pasture .01 .02 Alfalfa hay .05 .07 .06 TOTAL FEED COST 9.61 Net increase in value per cwt. hogs produced \$ 16.95 \$ 18.78 \$ 15.09 RETURNS ABOVE FEED COST PER CWT. HOGS PRODUCED 7.34 \$ 9.57 \$ 4.33 RETURNS FOR \$100 OF FEED \$178.00 \$205.00 \$141.00 Price received per cwt. hogs sold\$ \$ 15.49 \$ 15.51 \$ 15.67 No. of spring litters raised 17.2 17.2 13.0 No. of fall litters raised 14.5 19.2 17.7 Total no. of litters raised No. of pigs born per litter**. 8.8 9.0 7.8 No. of pigs weaned per litter ** 7.4 7.2 7.3 POUNDS OF HOGS PRODUCED 60,900 48,166 81,928

^{*} Concentrates refer to the total of corn, small grain and commercial feeds fed. **From records with accurate litter information only.

DAIRY CATTLE

The quantity of feed consumed, value of feeds and returns from dairy cattle are presented in Tables 14, 15, and 16. Some of the important factors that affected the return over feed were:

- 1. Rate of production (pounds of milk and butterfat per cow)
- 2. Price received for butterfat
- 3. Feeding efficiency
- 4. Quality of ration
- 5. Economy of ration (feed cost per pound butterfat)

TABLE 14 - FACTORS OF COST AND RETURNS FROM DAIRY COWS, 1960 20% of farms 20% of farms Average highest in lowest in Items Your of 24 butterfat butterfat farm farms per cow per cow Pounds of milk per cow 10361.2 11980.1 8704.2 Pounds of butterfat per cow 371.6 434.9 321.6 Price received per pound butterfat sold (cts.) 90.0¢ 91.3¢ 89.5¢ Feed per cow, lbs.: Corn 2746.4 2573.2 2035.5 Small grain 666.7 387.3 482.9 Commercial feed 518.7 647.3 494,4 Total concentrates* 3931.8 3607.8 3012.8 Legume hay 5302.5 7049.3 3711.4 Other hay 103.9 276,2 Total dry roughages 5406.4 3987.6 Silage 7839.5 7496.0 10075.7 Feed cost per cow: Concentrates* \$ 81.70 \$ 75.07 \$ 63.60 Roughages 75.42 90.84 61.55 Pasture 6.54 10.06 4.38 TOTAL FEED COSTS \$163.66 \$175.97 \$129.53 Value of produce per cow: Dairy Product Sales \$322.68 \$379.08 \$276.45 Dairy produce used in house 4.12 2.50 2.97 Milk fed to livestock 6.09 7.15 6.71 Net increases in value of cows -8.22 -4.28 -24.67 TOTAL VALUE PRODUCED \$324.67 \$364.06 \$281.85 RETURNS ABOVE FEED COST PER COW \$161.01 \$188.09 \$152.32 RETURNS FOR \$100 OF FEED \$202.00 \$209.00 \$219.00 Feed cost per 1b. Butterfat(cts.) 45.0¢ 41.0¢ 41.0¢ Number of cows

19.8

22.1

16.5

^{*} Concentrates refer to total of corn, small grain and commercial feed fed.

TABLE 15 - FEED COSTS AND RETURNS FROM OTHER DAIRY CATTLE, 1960

TABLE 15 - FEED COSTS	AND RETURNS	FROM OTHER		Tago
			20% of farms	20% of farms
		Average	highest in	lowest in
Items	Your	of 24	butterfat	butterfat
	farm	farms	per cow	per cow
Feed per head, lbs.:				
Concentrates*		852.3	864.3	801.0
Hay and fodder		2073.2	2425.3	2124.2
Silage		2495.2	3413.2	2288.7
Whole milk		232.5	357.7	345.4
Feed cost per head:				
Concentrates*	\$	\$ 19.24	\$ 17.94	\$ 19.11
Roughages		25.27	32.75	19.91
Milk		5.24	6.21	8.58
Pasture		2.20	2.70	4.55
TOTAL FEED COSTS PER HEAD	\$	\$ 51.95	\$ 59.60	\$ 52.15
Net increase in value of				
other cattle		104.54	111.00	98,30
RETURNS ABOVE FEED COST PER HEAD	\$	\$ 52.59	\$ 51.40	\$ 46.15
	-	•	•	
RETURNS FOR \$100 OF FEED	\$	\$214.00	\$189.00	\$184.00
No. of head of other cattle	************************	26.0	27.5	17.5

TABLE 16 - FEED COSTS AND RETURNS FROM ALL DAIRY CATTLE, 1960

Items	Your farm	Average of 24 farms	20% of farms highest in butterfat per cow	20% of farms lowest in butterfat per cow
Feed per animal unit, lbs.: Concentrates* Hay and fodder Silage		3088.0 5084.0 6232.5	2854.0 6190.2 6137.2	2585.1 4109.0 6744.5
TOTAL FEED COSTS PER ANIMAL UNIT	\$	\$136.65	\$148.73	\$115.52
Value of produce per animal unit Dairy products Net increase in value of	: \$	\$199.72	\$234.06	\$186,35
dairy cattle TOTAL VALUE PRODUCED	\$	$\frac{74.65}{$274.37}$	$\frac{70.57}{\$304.63}$	53.52 \$239.87
RETURNS ABOVE FEED PER ANIMAL UNIT	\$	\$137.72	\$155.90	\$124.35
RETURNS PER \$100 OF FEED	\$	\$202.00	\$205.00	\$207.00
Animal units of cattle		32,9	36.0	25.5

^{*}Concentrates refer to total of corn, small grain, and commercial feed fed.

TABLE 17 - FEED COST:	S AND RETU	RNS FROM FE	EDER CATTLE, 196	50
Items	Your	Average of 21	20% of farms highest in return above	20% of farms lowest in return above
	farm	farms	feed	feed
Feeds per cwt. beef produced, lb	S.:			
Corn	-	541.6	539.2	628.3
Small grain		19.5	17.3	10.5
Commercial feeds	***************************************	47.7	41.7	55.5
Total Concentrates*	Antonia de la companya del companya della companya	608.8	598.2	694.3
Legume hay		134.0	164.5	110.6
Other hay	***************************************	27.7		113.4
Total Hay		161.7	164.5	224.0
Silage		372.2	304.3	532.8
Feed cost per cwt. beef produced	•			
Concentrates*	\$	\$ 12.04	\$ 12.13	\$ 14.62
Roughages	*	2.67	2.21	2.46
Pasture	·	.04	.19	-
TOTAL FEED COSTS	\$	\$ 14.75	\$ 14.53	\$ 17.08
Net Increase in value of feeders		20.31	25.65	16.90
RETURNS ABOVE FEED COST PER CWT.				
BEEF PRODUCED	\$	\$ 5.56	\$ 11.12	\$18
RETURNS FOR \$100 OF FEED	\$	\$140.00	\$177.00	\$ 99.00
Price paid per cwt. beef bought Price received for feeder cattle	\$	\$ 19.08	\$ 19.05	\$ 17.63
sold	\$	23.55	23.53	23.19
Number of animal units		62.1	49.3	76.0
POUNDS OF BEEF PRODUCED		45,314	46,572	46,727
BE	EF BREEDI	NG CATTLE		
Items	Y	our		
		arm		
Feeds per animal unit, lbs.:				, <u>, , , , , , , , , , , , , , , , , , </u>
Concentrates*	The same of the sa	***************************************		
Legume hay				
Other hay				
Silage	•			
Feed cost per animal unit:	Chip and a second	*************************************		
Concentrates*	\$			
Roughages	' 			
Pasture				
TOTAL FEED COST	\$	Militar et englisse i de major		
Value of produce per animal unit	T			
Dairy products	\$			
Net increase in value	•			
TOTAL VALUE PRODUCED	\$	**************************************		
RETURNS ABOVE FEED COST PER A. U.	* *************************************	***************************************		
RETURNS FOR \$100 OF FEED	\			
Number of cows and herd bulls				
Number of animal units in the her	rd			

^{*} Concentrates refer to total of corn, small grain and commercial feed fed.

FEED COSTS AND RETURNS FROM FARM FLOCK OF SHEEP, 1960

TABLE 18 - FEED COSTS AND RETURNS FRO	OM FARM FLOCK OF SHE	
Items	Your farm	Average of 7 farms
Feed per head,* lbs. Concentrates (grain & commercial feeds) Legume hay Other hay Silage		203.3 570.6
Feed cost per head: Concentrates (grain & commercial feeds) Roughages Pasture	\$	\$ 4.41 5.14 .59
TOTAL FEED COSTS Value of produce per head: Wool Value of mutton TOTAL VALUE PRODUCED	\$ \$	\$ 10.14 \$ 4.79 17.55 \$ 22.34
RETURNS ABOVE FEED COST PER HEAD	\$	\$ 12.20
RETURNS FOR \$100 OF FEED	\$	\$170.00
Price per cwt. of lambs sold Price per lb. wool sold (cents) Pounds of wool per sheep sheared	\$¢	\$ 19.50 73.6¢ 7.9
Number of ewes kept for lambing Per cent lamb crop** Per cent death loss**		42.5 149.0% 9.4%
Pounds of sheep produced Head of Native Sheep		5085 55 . 3

^{*} Two lambs under six months of age considered as one head.

** Lambs which die during month of birth are not included.

TABLE 19 - FEED COSTS AND RETURNS FROM FEEDER LAMBS, 1960

Items	Your farm
Feed per cwt. Lambs produced, 1bs.: Concentrates Legume hay Other hay Fodder and stover	
Silage Feed cost per cwt. lambs produced Net increases in value per cwt. produced Return above feed cost per cwt. produced	\$ \$ \$
RETURN FOR \$100 OF FEED	\$
Price paid per cwt. lambs produced Price received per cwt. lambs sold \$\mathcal{B}\$ death loss Pounds of lambs produced	\$

Thirty-three percent of the farmers cooperating in this analysis kept some chickens. In most cases poultry is a so-called minor enterprise, providing eggs and poultry meat for family consumption plus an additional amount of cash income.

Some of the important factors that affected the return over feed were:

- 1. Quantity of feed required per hen
- 2. Price received per dozen eggs sold
- 3. Eggs laid per hen
- 4. Percentage of death loss of hens

TABLE 20 - FEED COSTS AND RETURNS FROM CHICKENS*, 1960 20% 20% highest in lowest in Average Items of 18 return return Your farm farms above feed above feed Feed per hen, lbs.: Grain 103.3 94.4 120.2 Commercial feed 29.2 34.5 19.4 Total feed 132.5 128.9 149.6 TOTAL FEED COST PER HEN \$ 3.43 \$ 3.70 3.63 Value of produce per hen: Eggs sold and used in home 4.66 6.03 3.25 Net increase in value of chickens .80 Total Value Produced 6.46 4.05 RETURNS ABOVE FEED COST PER HEN 1.68 2.76 .42 RETURNS FOR \$100 OF FEED \$152,00 \$180.00 \$112,00 Price received per dozen eggs sold (cts) 284 30¢ 26¢ Eggs laid per hen 191 239 127 Average number hens on farm during year 278 390 128 Per cent death loss of hens 12% 6% 10% Per cent of laying flock that are pullets 55% 41% 100% Number of pullets started 236 605 117

^{*} Includes feeds and returns from laying flock and rearing flock.

Turkeys are produced on many farms in the Mankato area. Not enough suitable records were available, however, to calculate averages for this enterprise.

TABLE 21 - FEED COSTS AND RETURNS	FOR TURKEYS	
Items	Your farm	
Feed per cwt. turkeys produced, lbs.: Grain Commercial Feed Total concentrates		
Feed cost per cwt. turkeys produced Net increase in value per cwt. turkeys produced	\$	
RETURNS ABOVE FEED COST PER CWT. PRODUCED	\$	
RETURNS PER \$100 OF FEED	\$	
No. of pcults put on feed Price paid per poult purchased Per cent death loss Price received per lb. turkeys sold (cents) Weight per bird sold (lbs.)	\$	
Pounds of turkey produced	***	

TABLE 22 - SUMMARY OF FARM EARNINGS BY TENURE, 1960 (OPERATOR'S SHARE)

TABLE 22 - SUMMARY OF FARM EAF		RE, 1960 (OPE		RE)
T.L	Your	•	Part	m .
Items	Farm	Owners	Owners	Renters
FARM RECEIPTS	4		4 7000	4 200
Dairy cattle	\$	\$ 251	\$ 1073	\$ 999
Dairy products	-	1061	3685	2490
Beef cattle (including feeders)	*******************	8 749 ·	10020	5949
Hogs		11664	3556	5836
Sheep and wool (including feeders)		53	beng giller elaph	124
Poultry (including turkeys)		82	20	26
Eggs		535	357	428
Corn		758	2627	1157
Small grain		418	249	152
Other crops		1850	1185	570
Mach. & equip. sold & gas tax refund	ła	188	353	210
Income from work off the farm		116	316	392
Miscellaneous			238	111
(1) Total farm sales	¢	213	\$23679	\$18444
(2) Increase in farm capital	Ψ	\$25938	822	2364
		3437		
(3) Family living from the farm		260	286	200
(4) Total Farm Receipts (1)+(2)+(3)	β <u> </u>	\$ 29635	\$ 24787	\$ 21008
FARM EXPENSES	1		4	
Dairy cattle bought	\$	\$ 77	\$ 156	\$ 122
Beef cattle bought (including feeder	rs)	4771	4533	2717
Hogs bought		1305	94	389
Sheep bought (including feeders)		-		1
Horses bought		~~~		
Poultry bought (including turkeys)		82	30	73
Miscellaneous livestock expense		442	411	471
Feed bought		5389	3028	3 882
Fertilizers		1081	1572	1040
Other crop expense		566	857	57 7
Custom work hired		696	592	659
Gas, oil & grease bought (farm share)	843	1215	813
Repair & operation tractor, truck,		010		
and auto (farm share)		47 7	7 90	453
Repair and upkeep of real estate		284	172	47
Repair & upkeep of crop & gen. mach.			560	336
Repair & upkeep of livestock equip.	***************************************	220	120	191
Wages of hired labor		96	526	295
Electricity expense (farm share)		408	210	199
Real estate & personal property tax		202	649	299
Cash rent		807	946	1331
		45		
Gen. farm exp. & telephone expense		260	281	190
Interest paid	*	876	1010	409
Total cash operating expense	\$	\$18927	\$17752	\$14494
Mechanical power bought (farm share)		944	762	534
Crop & general machinery bought		762	552	590
Livestock equipment bought		221	287	435
New real estate improvements		736	350	405
(5) Total farm purchases	\$	\$21590	\$19703	\$16458
(6) Decrease in farm capital				
(7) Interest on farm capital		2688	1871	651.
(8) Unpaid family labor		208	247	72
(9) Board furnished hired labor		83	45	63
(10) Total Farm Expenses (5) to (9)	\$	\$24596	\$21866	\$1.7244
(11) Labor Earnings (4) - (10)	T	ψ≈ 1,05 G 5066	2921	3764
(12) Return to Capital and Family		9000	~~~~	0,01
Labor (7)+(8)+(11)	\$	\$ 7962	\$ 5039	\$ 4487
2002 (1) (0) (II)	Ψ	\$ 7962	φ οσοσ	ψ 11 0/

TABLE 23 - SUMMARY OF FARM EARNINGS BY YEARS - MANKATO AREA

TABLE 23 - SUMMARY OF FARM	EARNING	S BY YEAR	S - MANKAT	O AREA	
Items	1956	1957	1958	1959	1960
FARM RECEIPTS				*****	
Dairy cattle	A 674	4 450	4		
Dairy products	\$ 634	•	\$ 653	\$ 763	\$ 1013
	2575		1386	2186	2923
Beef cattle (incl. feeders)	2714		8717	8230	8962
Hogs	3933		6773	5727	7606
Sheep and wool	294	156	350	82	76
Poultry (incl. turkeys)	1153	738	98	1045	42
Eggs	832	602	1003	922	478
Corn	2426		1713	1965	1827
Small grain	359	254	283	327	357
Other crops	1717	2049	1782	1667	1463
Mach. equip. sold & gas tax refund	230	198	163	193	296
Income from work off the farm	145	273	167	407	
Miscellaneous	158	112			320
(1) Total farm sales	\$17170		<u>#207777</u>	126	273
(2) Increase in farm capital	•	\$17206	\$23171	\$23640	\$25636
(3) Family living from the farm	1706	1933	4198		2371
(4) Total farm receipts (1)+(2)+(3)	258	271	273	215	<u>281</u>
(1) 100d1 181m 16061pts (1)+(2)+(3)	\$19134	\$19410	\$27642	\$23855	\$28288
FARM EXPENSES					
Dairy cattle bought	4				
Boof antile bought	\$ 218	\$ 250	\$ 2 39	\$ 209	\$ 151
Beef cattle bought (incl. feeders)	1353	1452	5045	4763	4191
Hogs bought	193	248	595	234	634
Sheep bought (incl. feeders)	17	16	99	21	4
Horses bought	3			. 2.	
Poultry bought (incl. turkeys)	278	220	99	308	66
Miscellaneous livestock expense	364	361	337	510	518
Feed bought	2734	2774	3221	4118	
Fertilizers	339	539	825		4555
Other crop expense	473	480		862	1354
Custom work hired	515		541	717	776
Gas, oil & grease bought (farm share)		500	703	641	777
Repair & oper. of tractor, truck & auto	740	781	826	930	1039
Repair & upkeep of real estate		346	444	471	5 7 5
Repair & upkeep of crop & gen. mach.	208	178	241	212	167
Renair & unknown of liverteels.	274	247	302	318	385
Repair & upkeep of livestock equipment Wages of hired labor	106	91	152	119	150
Flactricity expense	390	299	209	322	369
Electricity expense	169	158	183	211	227
Real estate & personal property tax	529	490	620	770	864
Telephone & general farm expense	190	200	245	208	249
(5) Total cash operating expense	\$ 9464	\$ 9630	\$14926	\$15946	\$17051
(6) Mech. power bought (farm share)	661	691	727	629	795
(7) Crop & general machinery bought	777	924	1043	875	652
(8) Livestock equipment bought	94	171	189	513	
(9) New real estate improvements	490	514	780		348
	\$11486	\$11930	The same of the sa	521	477
(11) Decrease in farm capital	ψ-amac∓U Q	ψ⊥⊥συ∪	\$17665	\$18484	\$19323
(12) Interest on farm capital	2E 4E	0.000	*** ***	549	oto uga men
(13) Unpaid family labor	2545	2630	3043	3500	3761
(14) Board furnished hired labor	177	174	117	63	197
(15) Total farm expense (10) to (14)	69	59	35	36	64
(15) Total farm expense (10) to (14)	14277	\$14793	\$20860	\$22632	\$23345
(16) Labor earnings (4) - (15)	4857	4617	6782	1223	4943

AVERAGE PRICES OF FEEDS - 1960

Table 24 lists the average prices of farm grown feeds used in livestock summaries in this report. Prices paid for feeds bought were used whenever possible.

	TABLE	24	_	AVERAGE	PRICES	OF.	FEED,	1960
_								

Farm Grown Grat	ins*	Other Roughages	
Corn Oats Barley Wheat	\$.90 per bu58 " " .83 " " 1.92 " "	Corn Silage Grass Silage Pea Silage*	\$7.50 per Ton 6.50 " " 3.50 " "
Rye Soybeans Flaxseed	.88 " " 1.97 " " 2.85 " "	Pasture per Head Per Month	
Нау		Cows Young cattle Hogs	\$2.50 1,25 .16
Alfalfa Red or	\$18.00 per Ton	Pigs (under 6 mos.) Sheep	.08 .40
Alsike Clover Brome or	15.00 " "	Lambs	.20
Timothy Wild Hay	10,00 " " 9,00 " "	Milk For Feed	
·		Whole Milk Whole Milk used in home	\$3.00 per Cwt. .08 per Qt.

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) choice of 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 25. The farmer's earnings are determined to a considerable extent by his accomplishments in these seven factors.

TABLE 25

No. of factors in which farmers excelled	No. of farms	Average Labor Earnings \$3000 \$5000 \$7000	
0 or 1	8	XXXXXXXXXXXX	\$3031
2 or 3	25	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	\$4140
4 or 5	14	<u>XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX</u>	\$6841
6 or 7	3	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	\$8492

Table 25 indicates that it will be worth while for each co-operator to study carefully his ranking on pages 10 and 11, and learn his standing in respect to each of the above factors and the elements of strength and weakness in his farm business.