1957 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

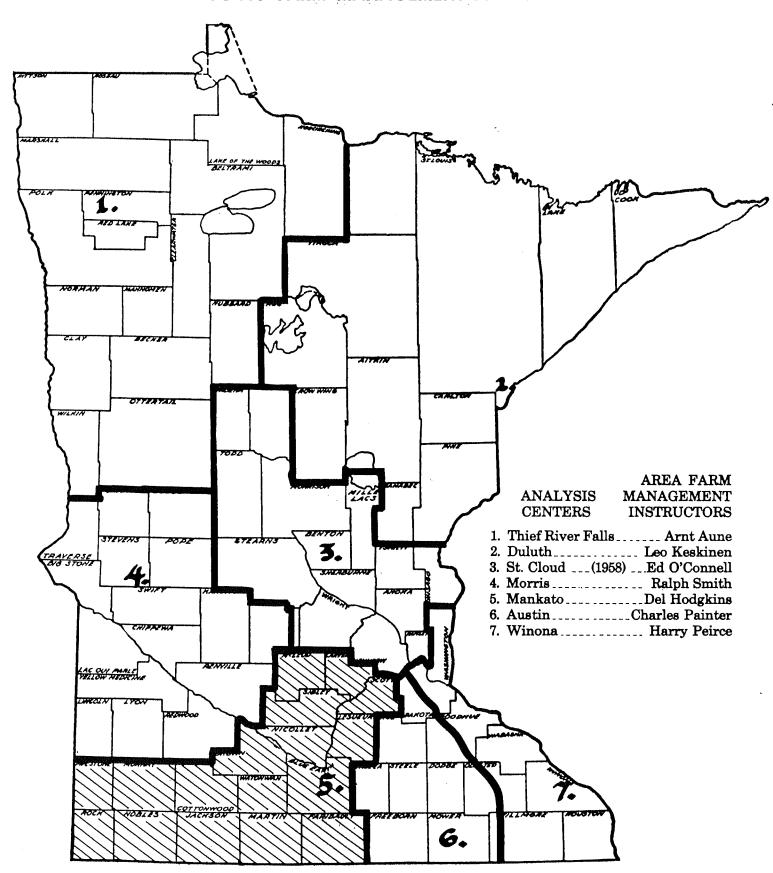
and

AREA VOCATIONAL TECHNICAL SCHOOL MANKATO, MINNESOTA

Co-operating

APRIL 1958

VO-AG FARM MANAGEMENT AREAS



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

1957 Report of the Vocational Agriculture Farm Management Program in the Mankato Area of Southern 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 and with assistance from the Department of Agriculture Economics, and the Agriculture Extension Division of the University, 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 guidence. 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 report for the Mankato Area are done under the direction of Delbert Hodgkins, Vocational Agriculture Adult Instructor at the Mankato School. Clerical assistants for this project were Mrs. Apan Turtle, Mrs. LaVonne Prail, and Mrs. Jean Stronsky. Mrs. Marjorie Tomlinson, office secretary, assisted with the program throughout the year.

The Farm Management Program is supervised locally by Erling O. Johnson, Superintendent of Schools, and F. G. Kalin, Director of Vocational and Adult Education. Lauren Granger, through a grant of funds from the Hill Family Foundation, is employed as co-ordinator for the program in the state. Other cooperating agencies are represented as follows: G. R. Cochran and S. K. Wick represent the State Department of Education, the University of Minnesota Department of Agriculture Education is represented by Milo Peterson, the Department of Agriculture Economics by George Pond and Truman Nodland, and the Agriculture Extension Service is represented by E. H. Hartmens and H. G. Routhe.

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 advice 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 1957 records submitted and the name of the instructor:

SCHOOL	NO. OF RECORDS	INSTRUCTOR
Amboy	1	Robert Potosnak
Howard Lake	2	Leslie Hanson
Lake Crystal	1	Ernest Freier
Madelia	8	Malcomb Brandt
Mankato	23	,
Mapelton	1	Carl Ziebarth
New Ulm	19	Winfield Forsberg
		Kermit Kleene
		George Whalin
Nicollet	1	Howard Streege
Sherburn	2	Leo Ardolf
St. Peter	1	C. W. Dowling
Waconia	2	Vernon Bruhn
Watertown	3	Vernon Richter
	Total 64	•

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 operators liabilities and assets other than farm capital.

FARM INVENTORIES

The Capital investment per farm varied from \$22,144 to \$108,810. 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 conputing 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 endebtedness and savings. These figures are found in Table 5.

Table 1. Summary of	Farm Inve		1957	
Items	The or description of contract	Farm		' All Farms
	Jan, l	Dec. 31	Jan; l	Dec. 31
Size of farm (acres) Size of business (work units)*			20 34	
Dairy Cattle Other dairy cattle Beef cattle (incl. feeders) Hogs Sheep (incl. feeders) Poultry (incl. turkeys) Productive Livestock (Total) Crop, seed and feed Auto & truck (farm share) Tractors & motors Crop and gen. mach. Livestock equipment Machinery & equip. (Total) Miscellaneous Land Buildings, fences, etc. TOTAL FARN CAPITAL			1748 656 1870 1436 121 149 5980 5387 1153 2040 3347 549 7089 25400 7786 51642	1753 853 2523 1882 140 160 7311 5623 1158 2060 3660 571 7449 25400 7792 53575
Items	20% of mo Jan. 1	st profitab	le farms 20% Jan. 1	of least p
Items Size of farm (acres) Size of business (work units)*	Jan. 1	Dec. 31	Jan, l	
Size of farm (acres)	Jan. 1	Dec. 31	Jan, l	Dec.31 f <u>it</u>
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) Productive livestock (total) Crop, seed, and feed Auto & truck (farm share) Tractors & motors Crop & gen. machinery Livestock equipment Machinery & equipment (total)	Jan. 1 24 45 1805 918 3747 2281 57 53	Dec. 31 1992 1009 5474 3131 79 36 11721 8162 1292 2915 4260 757 9224	2043 671 2048 883 105 239	Dec.31 fit 188 333 1941 1352 2713 1149 124 216
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) Productive livestock (total) Crop, seed, and feed Auto & truck (farm share) Tractors & motors Crop & gen. machinery Livestock equipment	Jan. 1 24 45 1805 918 3747 2281 57 53 8861 7105 1149 2606 3841 723 8319	Dec. 31 1992 1009 5474 3131 79 36 11721 8162 1292 2915 4260 757	2043 671 2048 883 105 239 5989 5051 1554 1934 3643 814 7945	Dec.31 fit 188 333 1941 1352 2713 1149 124 216 7495 3855 1353 1791 4269 858 8271

^{*} See page 13 for an explanation of 'work units".

Table 2, Summary of Farm Earnings	(Cash S	Statement)	1957	
Items	Your farm	Average of all farms	20% most profitable farms	20% leas profitabl farms
FARM RECEIPTS				******
Dairy cattle		678	906	545
Dairy products		2757	3100	3011
Beef cattle (incl. feeders)		2634	7503	1882
Hogs	-	4791	6557	3212
Sheep and wool	-	156	33	174
	***************************************	738	3427	102
Poultry (incl. turkeys)				
Eggs	***************************************	602	139	836
Corn		1967	3481	1609
Small grain		254	506	56
Other crops	-	2049	2185	949
Mach, & equip, sold & gas tax refunds		195	161	124
Income from work off the farm		273	110	261
Miscellaneous		112	120	69
(1) Total farm sales		17206	28228	12830
(2) Increase in farm capital		1933	4796	423
(3) Family living from the farm		271	401	329
(4) Total farm receipts (1)&(2)&(3)	Restriction of the second	19410	33425	13582
FARM EXPENSES				
Dairy cattle bought		250	383	337
Beef cattle bought (incl. feeders)	-	1452	4403	1306
logs bought	***********	248	704	150
Sheep bought		16		46
Poultry bought (incl. turkeys)	***********	220	673	106
Misc. livestock expense		361	665	286
		2774	5035	1716
Feed bought				
Fertilizer		539	674	344
Other crop expense		480	651	397
Custom work hired		500	720	517
Gas, oil, grease bought (farm share(***************************************	781	912	7 36
Rep. for tractors, trucks, & autos f. shar	re	346	. 395	375
Rep. and upkeep of crop & gen. mach.		247	348	233
Rep. and upkeep of farm real estate		178	145	167
Rep. and upkeep of livestock equip.		91	82	72
Vages of hired labor		299	426	265
Electricity expense		158	184	173
Pers. prop. & real estate taxes		490	660	451
Telephone and general farm expense		200	225	241
(5) Total cash opr. expense		9630	17285	7918
(6) Mech. power bought (farm share)	***********	691	1324	315
(7) Crop and gen, machinery bought		924	1079	1308
	***************************************	171	105	505
· · · · · · · · · · · · · · · · · · ·				
(9) New real estate improvements		514	567 20760	10170
(10) Total farm purchases (5) to (9)		11930	20360	10179
(11) Interest on farm capital		2630	3153	2556
(12) Unpaid family labor		174	67	268
(13) Board furnished hired labor	-	<u>59</u>	85	37
(14) Total farm expense (10) to (14)	•	14793	23665	13040
		4617	9760	542

Items	Your farm	Average of all farms	20% of most profitable farms	
RETURNS AND NET INCREASES				
Dairy cows		\$ 2711	\$ 3276	\$ 2628
Other dairy cattle	***************************************	732	857	741
Beef breeding herd		224	8 4	785
Feeder cattle		1761	4878	1030
łogs		5048	6803	3389
Sheep - farm flock		163	55	147
lurkeys		551	2756	
Chickens		653	128	865
All productive livestock		11843	18837	9585
Value of feed fed to livestock		7137	11339	5 7 85
Return over feed from livestock		4706	7498	3800
rop, seed, and feed		7779	12135	4814
Income from labor off the farm		140	31.	116
agricultural conservation payments		26	7	, 2
Miscellaneous	***************************************	86	113	67
(1) Total returns & net increases		12737	19784	8799
EXPENSES AND NET DECREASES				
ruck		197	218	252
uto (farm share)		433	451	55 4
ractor	***************************************	885	1257	766
Clec. & gas engin exp. (Farm share)	153	169	167
lired power	<u> </u>	237	349	249
Total power		1905	2444	1988
rop and general machinery		903	1154	938
ivestock equipment	**********	238	153	533
duildings, fences and tiling	*****	686	733	512
lisc. productive livestock expense		361	665	286
abor		707	837	752
eal estate taxes		390	550	351
ersonal property tax	-	100	110	100
nsurance	***********	81	92	113
eneral farm expense		119	133	128
nterest on farm capital		2630	3153	25 56
2) Total expenses & net decreases		8120	10024	8257
3) Labor : earnings (1) - (2))	4617	9760	542

^{*} 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 purchases, the amount paid out would have been considerably higher.

Table 4. Family	Living from	the Farm.	1957	
		Average		Average
Items	Your	of all	${ t Your}$	of all
	farm	farms	farm	farms
dult equivalent - family	*	2,9		•
Nhole milk		646 qts.		\$ 75
Skim milk	with a first contains the same of the same	31 qts.	***************************************	2
Cream		3 pts.	***************************************	1
Beef		390 lbs.		71
logs		380 lbs.		68
Lamb and mutton		6 lbs.		l
Poultry		53 lbs.		10
Eggs		60 doz.		17
otatoes		2 bu.	***************************************	2
Wegetables & fruit		2, 54,	*********	ıĩ
Carm fuel	-		***************************************	13
aim idei	Opposed the State of the State			
TOTAL				\$271
			A Principal Company of the Company o	•

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 and average of \$250 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 Acco	unts of	These Exper	ses, 1957	
Items	Your	Average of all	Most profitable	
	farm	farms	farms	farms
Number of persons - family		4	5.2	3,2
Number of adult equiv family		2.9	3.6	2.4
Food and meals bought		764	1078	533
Operating and supplies		233	304	246
Furnishings and equipment		238	458	107
Clothing and clothing materials		218	417	164
Personal care, personal spending		85	201	50
Education, recreation & development	t	170	210	209
Gifts and special events		94	123	4 8
Medical care and health insurance		282	287	385
Church, welfare		182	338	131
Personal share of auto & truck exp	•	127	81	193
Operator's share of upkeep on dwel	•	100	46	127
Household share of elec. & tel. ex	p.	83	90	68
Total cash living expense		2576	3633	2261
H.H. & pers. share of new auto		130	236	77
New dwelling		~ = **	·	
Taxes and other deductions		25	15	2
Life insurance		159	158	230
Other savings and investments		106	7	4
Total household & pers. cash ex	p	2996	4049	2574
Total family living from the farm		271	401	329
Total cash exp. & perquisites		3267	4450	2903
				05.77
Return to capital & family labo	r	5027	8378	2537

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.

Net Worth Statement for Those Farmers Who Kept a Complete Record of All Assets and Liabilities, 1957 (Operator*s Share, Tenure Basis)

of All Assets and Liab	ilities,	1957 (Opera	tor"s Share,	<u>Tenure Basi</u>	.s)
Items	Your	Farm	ll Ow	ners	
	Jan. 1	Dec. 31	and the same of	ec. 31	
Total Farm Capital (1)	\$	\$	<u>\$48179</u>	<u>\$48753</u>	
Stocks and Bonds			180	114	
Life Insurance			847	1006	
Shares in Marketing			79	86	
Outside real estate			424	424	
Cash on Hand & in Bank			1525	773	
Household goods			2500	2646	
Pers. share of Auto			386	387	
Farm Dwelling			3150	3582	
Miscellaneous		distribution	49	37	
Total Non-farm Assets (2)			9140	9055	
TOTAL ASSETS (1) & (2) = (3)	-		57319	57808	
Fed. Land Bank mortgages			2000	1970	
F.H.A. Real Estate Mortgages			2363	1909	
Other Mortgages			6545	6000	
Loans on Real Estate			1838	1620	
Production Credit Assoc. loa	ns	<u></u>	9	. 309	
F.H.A. Chattel Mortgages				127	
Other Chattel Mortgages			991	1577	
Crop Loans (sealed)					
Notes Payable			2338	1200	
Accounts Payable			155	939	
Total Liabilities (4)			16239	15651	
FARMER'S NET WORTH =(3) - (4)	***************************************		41080	42157	
				1077	
Change in Net Worth	ll Par	t_Owners	l8 Rer	1077 iters	
		t-Owners Dec. 31		nters	
Change in Net Worth Items	Jan. 1	Dec. 31			,
Change in Net Worth Items Total Farm Capital (1)	Jan. 1 \$28761		Jan. 1 I	nters Dec. 31	,
Change in Net Worth Items Total Farm Capital (1) Stocks and Bonds	Jan. 1 \$28761 980	Dec. 31 \$31367 927	Jan. 1 I \$ 16476	hters Dec. 31 \$18039	
Change in Net Worth Items Total Farm Capital (1) Stocks and Bonds Life Insurance	Jan. 1 \$28761 980 1545	Dec. 31 \$31367 927 1769	Jan. 1 I \$ 16476 1207	hters Dec. 31 \$18039 1365	
Change in Net Worth Items Total Farm Capital (1) Stocks and Bonds Life Insurance Shares in Marketing	Jan. 1 \$28761 980 1545 258	Dec. 31 \$31367 927 1769 272	Jan. 1 I \$ 16476 1207 385	hters Dec. 31 \$18039 1365 439	
Change in Net Worth Items Total Farm Capital (1) Stocks and Bonds Life Insurance Shares in Marketing Outside real estate	Jan. 1 \$28761 980 1545 258 236	Dec. 31 \$31367 927 1769 272 236	Jan. 1 I \$ 16476 1207 385	ters Dec. 31 \$18039 1365 439 41	
Change in Net Worth Items Total Farm Capital (1) Stocks and Bonds Life Insurance Shares in Marketing Outside real estate Cash on Hand & in Bank	Jan. 1 \$28761 980 1545 258 236 1603	Dec. 31 \$31367 927 1769 272 236 1584	Jan. 1 I \$ 16476 1207 385 45	ters Dec. 31 \$18039 1365 439 41	
Change in Net Worth Items Total Farm Capital (1) Stocks and Bonds Life Insurance Shares in Marketing Outside real estate Cash on Hand & in Bank Household goods	Jan. 1 \$28761 980 1545 258 236 1603 1422	Dec. 31 \$31367 927 1769 272 236 1584 1472	Jan. 1 I \$ 16476 1207 385 45 1140 2142	1ters Dec. 31 \$18039 1365 439 41 11 1222 2345	
Change in Net Worth Items Total Farm Capital (1) Stocks and Bonds Life Insurance Shares in Marketing Outside real estate Cash on Hand & in Bank Household goods Pers. share of Auto	Jan. 1 \$28761 980 1545 258 236 1603 1422 233	Dec. 31 \$31367 927 1769 272 236 1584 1472 189	Jan. 1 I \$ 16476 1207 385 45 1140 2142 402	1ters Dec. 31 \$18039 1365 439 41 11 1222 2345 388	
Change in Net Worth Items Total Farm Capital (1) Stocks and Bonds Life Insurance Shares in Marketing Outside real estate Cash on Hand & in Bank Household goods Pers. share of Auto Farm Dwelling	Jan. 1 \$28761 980 1545 258 236 1603 1422 233 534	Dec. 31 \$31367 927 1769 272 236 1584 1472	Jan. 1 I \$ 16476 1207 385 45 1140 2142	1ters Dec. 31 \$18039 1365 439 41 11 1222 2345	
Change in Net Worth Items Total Farm Capital (1) Stocks and Bonds Life Insurance Shares in Marketing Outside real estate Cash on Hand & in Bank Household goods Pers. share of Auto Farm Dwelling Miscellaneous	Jan. 1 \$28761 980 1545 258 236 1603 1422 233 534	Dec. 31 \$31367 927 1769 272 236 1584 1472 189 499	Jan. 1 I \$ 16476 1207 385 45 1140 2142 402 626	1ters Dec. 31 \$18039 1365 439 41 11 1222 2345 388 589	
Change in Net Worth Items Total Farm Capital (1) Stocks and Bonds Life Insurance Shares in Marketing Outside real estate Cash on Hand & in Bank Household goods Pers. share of Auto Farm Dwelling Miscellaneous Total non-farm Assets (2)	Jan. 1 \$28761 980 1545 258 236 1603 1422 233 534 	Dec. 31 \$31367 927 1769 272 236 1584 1472 189 499	Jan. 1 I \$ 16476 1207 385 45 1140 2142 402 626 5947	1ters Dec. 31 \$18039 1365 439 41 11 1222 2345 388 589	
Change in Net Worth Items Total Farm Capital (1) Stocks and Bonds Life Insurance Shares in Marketing Outside real estate Cash on Hand & in Bank Household goods Pers. share of Auto Farm Dwelling Miscellaneous Total non-farm Assets (2) TOTAL ASSETS (1) & (2) = (3)	Jan. 1 \$28761 980 1545 258 236 1603 1422 233 534 6811 35572	Dec. 31 \$31367 927 1769 272 236 1584 1472 189 499 6948 38315	Jan. 1 I \$ 16476 1207 385 45 1140 2142 402 626	ters Dec. 31 \$18039 1365 439 41 11 1222 2345 388 589	
Change in Net Worth Items Total Farm Capital (1) Stocks and Bonds Life Insurance Shares in Marketing Outside real estate Cash on Hand & in Bank Household goods Pers. share of Auto Farm Dwelling Miscellaneous Total non-farm Assets (2) TOTAL ASSETS (1) & (2) = (3) Fed. Land Bank mortgages	Jan. 1 \$28761 980 1545 258 236 1603 1422 233 534 6811 35572 84	Dec. 31 \$31367 927 1769 272 236 1584 1472 189 499 6948 38315 63	Jan. 1 I \$ 16476 1207 385 45 1140 2142 402 626 5947	1ters Dec. 31 \$18039 1365 439 41 11 1222 2345 388 589	
Change in Net Worth Items Total Farm Capital (1) Stocks and Bonds Life Insurance Shares in Marketing Outside real estate Cash on Hand & in Bank Household goods Pers. share of Auto Farm Dwelling Miscellaneous Total non-farm Assets (2) TOTAL ASSETS (1) & (2) = (3) Fed. Land Bank mortgages F.H.A. Real Estate Mortgages	Jan. 1 \$28761 980 1545 258 236 1603 1422 233 534 6811 35572 84 3218	Dec. 31 \$31367 927 1769 272 236 1584 1472 189 499 6948 38315 63 3218	Jan. 1 I \$ 16476 1207 385 45 1140 2142 402 626 5947	1ters Dec. 31 \$18039 1365 439 41 11 1222 2345 388 589	
Change in Net Worth Items Total Farm Capital (1) Stocks and Bonds Life Insurance Shares in Marketing Outside real estate Cash on Hand & in Bank Household goods Pers. share of Auto Farm Dwelling Miscellaneous Total non-farm Assets (2) TOTAL ASSETS (1) & (2) = (3) Fed. Land Bank mortgages F.H.A. Real Estate Mortgages Other Mortgages	Jan. 1 \$28761 980 1545 258 236 1603 1422 233 534 6811 35572 84 3218 2228	Dec. 31 \$31367 927 1769 272 236 1584 1472 189 499 6948 38315 63 3218 2090	Jan. 1 I \$ 16476 1207 385 45 1140 2142 402 626 5947	1ters Dec. 31 \$18039 1365 439 41 11 1222 2345 388 589	
Change in Net Worth Items Total Farm Capital (1) Stocks and Bonds Life Insurance Shares in Marketing Outside real estate Cash on Hand & in Bank Household goods Pers. share of Auto Farm Dwelling Miscellaneous Total non-farm Assets (2) TOTAL ASSETS (1) & (2) = (3) Fed. Land Bank mortgages F.H.A. Real Estate Mortgages Other Mortgages Loans on Real Estate	Jan. 1 \$28761 980 1545 258 236 1603 1422 233 534 6811 35572 84 3218 2228	Dec. 31 \$31367 927 1769 272 236 1584 1472 189 499 6948 38315 63 3218 2090	Jan. 1 I \$ 16476	1ters Dec. 31 \$18039 1365 439 41 11 1222 2345 388 589 6400 24440	
Change in Net Worth Items Total Farm Capital (1) Stocks and Bonds Life Insurance Shares in Marketing Outside real estate Cash on Hand & in Bank Household goods Pers. share of Auto Farm Dwelling Miscellaneous Total non-farm Assets (2) TOTAL ASSETS (1) & (2) = (3) Fed. Land Bank mortgages F.H.A. Real Estate Mortgages Other Mortgages Loans on Real Estate Production Credit Assoc. load	Jan. 1 \$28761 980 1545 258 236 1603 1422 233 534 6811 35572 84 3218 2228	Dec. 31 \$31367 927 1769 272 236 1584 1472 189 499 6948 38315 63 3218 2090	Jan. 1 I \$ 16476 1207 385 45 1140 2142 402 626 5947	1ters Dec. 31 \$18039 1365 439 41 11 1222 2345 388 589	
Change in Net Worth Items Total Farm Capital (1) Stocks and Bonds Life Insurance Shares in Marketing Outside real estate Cash on Hand & in Bank Household goods Pers. share of Auto Farm Dwelling Miscellaneous Total non-farm Assets (2) TOTAL ASSETS (1) & (2) = (3) Fed. Land Bank mortgages F.H.A. Real Estate Mortgages Other Mortgages Loans on Real Estate Production Credit Assoc. loa F.H.A.Chattel Mortgages	Jan. 1 \$28761 980 1545 258 236 1603 1422 233 534 6811 35572 84 3218 2228 ans 318	Dec. 31 \$31367 927 1769 272 236 1584 1472 189 499 6948 38315 63 3218 2090 709	Jan. 1 I \$ 16476	1ters Dec. 31 \$18039 1365 439 41 11 1222 2345 388 589 6400 24440 911	
Change in Net Worth Items Total Farm Capital (1) Stocks and Bonds Life Insurance Shares in Marketing Outside real estate Cash on Hand & in Bank Household goods Pers. share of Auto Farm Dwelling Miscellaneous Total non-farm Assets (2) TOTAL ASSETS (1) & (2) = (3) Fed. Land Bank mortgages F.H.A. Real Estate Mortgages Other Mortgages Loans on Real Estate Production Credit Assoc. loa F.H.A.Chattel Mortgages Other Chattel Mortgages	Jan. 1 \$28761 980 1545 258 236 1603 1422 233 534 6811 35572 84 3218 2228 ans 318	Dec. 31 \$31367 927 1769 272 236 1584 1472 189 499 6948 38315 63 3218 2090 709 696	Jan. 1 I \$ 16476	1ters Dec. 31 \$18039 1365 439 41 11 1222 2345 388 589 6400 24440	
Change in Net Worth Items Total Farm Capital (1) Stocks and Bonds Life Insurance Shares in Marketing Outside real estate Cash on Hand & in Bank Household goods Pers. share of Auto Farm Dwelling Miscellaneous Total non-farm Assets (2) TOTAL ASSETS (1) & (2) = (3) Fed. Land Bank mortgages F.H.A. Real Estate Mortgages Other Mortgages Loans on Real Estate Production Credit Assoc. loa F.H.A.Chattel Mortgages Other Chattel Mortgages Crop Loans (sealed)	Jan. 1 \$28761 980 1545 258 236 1603 1422 233 534 6811 35572 84 3218 2228 ans 318 101 524	Dec. 31 \$31367 927 1769 272 236 1584 1472 189 499 6948 38315 63 3218 2090 709 696 462	Jan. 1 I \$ 16476	1ters 1ec. 31 \$18039 1365 439 41 11 1222 2345 388 589 6400 24440 911 649	
Change in Net Worth Items Total Farm Capital (1) Stocks and Bonds Life Insurance Shares in Marketing Outside real estate Cash on Hand & in Bank Household goods Pers. share of Auto Farm Dwelling Miscellaneous Total non-farm Assets (2) TOTAL ASSETS (1) & (2) = (3) Fed. Land Bank mortgages F.H.A. Real Estate Mortgages Other Mortgages Loans on Real Estate Production Credit Assoc. loa F.H.A.Chattel Mortgages Other Chattel Mortgages Crop Loans (sealed) Notes Payable	Jan. 1 \$28761 980 1545 258 236 1603 1422 233 534 6811 35572 84 3218 2228 ans 318 101 524 1193	Dec. 31 \$31367 927 1769 272 236 1584 1472 189 499 6948 38315 63 3218 2090 709 696 462 1206	Jan. 1 I \$ 16476	1ters 1ec. 31 \$18039 1365 439 41 11 1222 2345 388 589 6400 24440 911 649 1805	
Change in Net Worth Items Total Farm Capital (1) Stocks and Bonds Life Insurance Shares in Marketing Outside real estate Cash on Hand & in Bank Household goods Pers. share of Auto Farm Dwelling Miscellaneous Total non-farm Assets (2) TOTAL ASSETS (1) & (2) = (3) Fed. Land Bank mortgages F.H.A. Real Estate Mortgages Other Mortgages Loans on Real Estate Production Credit Assoc. loa F.H.A.Chattel Mortgages Other Chattel Mortgages Crop Loans (sealed) Notes Payable Accounts Payable	Jan. 1 \$28761 980 1545 258 236 1603 1422 233 534 6811 35572 84 3218 2228 101 524 1193 380	Dec. 31 \$31367 927 1769 272 236 1584 1472 189 499 6948 38315 63 3218 2090 709 696 462 1206 503	Jan. 1 I \$ 16476	1ters Dec. 31 \$18039 1365 439 41 11 1222 2345 388 589	
Change in Net Worth Items Total Farm Capital (1) Stocks and Bonds Life Insurance Shares in Marketing Outside real estate Cash on Hand & in Bank Household goods Pers. share of Auto Farm Dwelling Miscellaneous Total non-farm Assets (2) TOTAL ASSETS (1) & (2) = (3) Fed. Land Bank mortgages F.H.A. Real Estate Mortgages Other Mortgages Loans on Real Estate Production Credit Assoc. loa F.H.A.Chattel Mortgages Other Chattel Mortgages Crop Loans (sealed) Notes Payable Accounts Payable Total Liabilities (4)	Jan. 1 \$28761 980 1545 258 236 1603 1422 233 534 6811 35572 84 3218 2228 ans 318 101 524 1193 380 8046	Dec. 31 \$31367 927 1769 272 236 1584 1472 189 499 6948 38315 63 3218 2090 709 696 462 1206 503 8947	Jan. 1 I \$ 16476 1207 385 45 1140 2142 402 626 5947 22423 649 148 3351 372 4520	1ters 1ec. 31 \$18039 1365 439 41 11 1222 2345 388 589 6400 24440 911 649 1805 376 3741	
Change in Net Worth Items Total Farm Capital (1) Stocks and Bonds Life Insurance Shares in Marketing Outside real estate Cash on Hand & in Bank Household goods Pers. share of Auto Farm Dwelling Miscellaneous Total non-farm Assets (2) TOTAL ASSETS (1) & (2) = (3) Fed. Land Bank mortgages F.H.A. Real Estate Mortgages Other Mortgages Loans on Real Estate Production Credit Assoc. loa F.H.A.Chattel Mortgages Other Chattel Mortgages Crop Loans (sealed) Notes Payable Accounts Payable	Jan. 1 \$28761 980 1545 258 236 1603 1422 233 534 6811 35572 84 3218 2228 101 524 1193 380	Dec. 31 \$31367 927 1769 272 236 1584 1472 189 499 6948 38315 63 3218 2090 709 696 462 1206 503	Jan. 1 I \$ 16476	1ters Dec. 31 \$18039 1365 439 41 11 1222 2345 388 589	

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 \$9760 and of those in the lower 20 per cent was \$542. This is a range of \$9218 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 Expenses

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



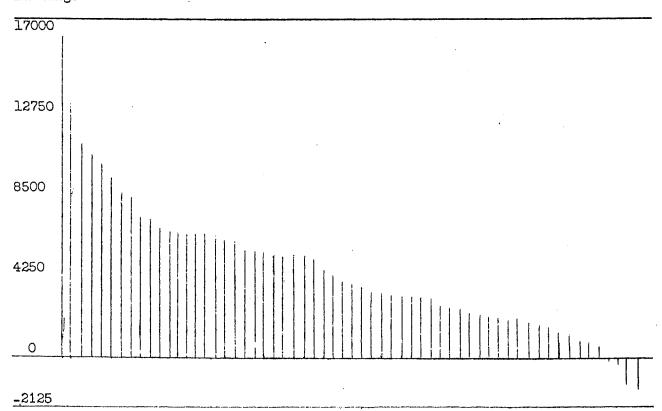


Fig. 1. - Range in Labor Earnings
Each line represents the earnings of 1 farmer.

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

	sures used chart on e 11	Your Farm	Average of All Farms		
Labo	or earnings		\$4617	\$9760	\$542
(1)	Crop yields*		100	106	105
(2)	Per cent tillable land in high return crops**		60.1	66,8	60.0
(3)	Return for \$100 feed to productive livestock***		100	104	96
(4)	Prod. Livestock units per 100 Acres****		28,6	31.1	30.0
(5)	Size of business-work units		349	451	333
(6)	Work units per worker		268	321	252
7)	Power, Mach., equip., and build. exp. per work unit		11.49	11,25	12.17
tem	s related to some of the above m	measures	;		
(3)	Index of ret. for \$100 feed from	om:		·	
	Dairy cattle (see p. 16 & 17) Beef breeding herd (see P.18) Feeder cattle (see p. 18) Hogs (see page 15) Sheep - farm flock (see p. 19) Chickens (see p. 20) Turkeys (see p. 21)		100 100 100 100 100 100	93 105 100	86 89 88 120
4)	Number of animal units		51.0	67,9	47.2
5)	Work units on crops Work units on prod. livestock Work units from other prod. wk.		97 238 14	134 314 3	83 238 12
6)	Number of family workers Number of hired workers Total No. of Workers		1.2 .1 1.3	1.3 .3 1.6	$\frac{1.3}{\frac{.1}{1.4}}$
7)	Power expense per work unit Crop mach exp. per wk. unit Livestock equip. exp. per w.u.		5.97 2.86 .60	6.17 2.89 .30	6.19 3.05 1.17

^{*} 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.

THERMOMETOR 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 60 farms included in this summary are located between the solid lines across the center of this page.

						r. L.S.	,	Work	Pow.,Mach
	Labor Earn-	Crop	High Return		n pro-	units	Work	Units	
	ings	Yields	Crops		estock	per 100 A.		per Worke	exp. per r work unit
16,500	140	-	180	=	69 =	750	[-	650	3 =
15,000	135	81	170		64 = -	700		600 E-	4 = -
13,500	130	78	160	E-	59	650	-	550	5 = -
12,000	E 125	75	150	E-1	54	600	Ē	500 =-	6 = -
10,500	120	72	140	E	49	550	E	450 -	7 = -
9,000	115	69	130	E-1	44 E-	500		400 E-	8 = -
7,500	110	66	120	E	39 E_	450		350 =-	9
6,000	105	63	110	<u> </u>	34 =-	400		300 =	10 =-
4,500	100	60	100	<u>E</u>	29 =-	350	<u> </u>	250 =	
3,000	95	57	90	Ē	24 -	300	E	200 = -	12
1,500,	90	54	80	E	19 = -	250	E	150	13 =
0	85	51	70	E	14 =-	200	E	100 [14 =
-1,500	80	48	60	<u></u>	9 = -	150	E	50	15
-3,000	75	45	50	=	4 =-	100		0 =	16
-4, 500	70	42	40		-	50	E	E	17 =-
-6,000	65	39	30	E- -	=-		E	E	18
-7, 500	60	36	E	5) (E	19 E

TABLE 8 DISTRIBUT	ION OF A	CRES AN			
Crop	Crop rating	Number growing	your		Average of farms growing each crop
Canning peas Flax Wheat Oats for silage Oats & Mix. for grain Rye	B C C C D	7 1 4 4 50 2		1.9 .3 1.3 .8 23.7	\$ 62.62 11.8 bu. 24.8 bu. 8.3 Tons 53.8 bu. 35.5 bu.
Total small grain as	nd peas			28.7	
Sug.B.pot.tc.cr.hy.sd.c. Corn, grain Sweet corn Soybeans for grain Corn & cane silage	A A B B	1 50 5 42 19		.0 66.8 1.7 33.9 3.6	75.7 bu. \$ 49.47 27.2 bu. 10,8 Tons
Total cultivated croalf. & alf. mix. hay Other leg. & leg. mix Legumes for seed Other annual hay	ops B C D	48 1 1 3		106.0 21.6 .2 .2 .6	3.1 Tons 1.9 Tons 214.5 lbs. 2.0 Tons
Total tillable land Alf. & Alf. brome past. Other leg. & mix. Sudan & rape pasture Other tillable pasture	in hay B C D	12 3 10		22.6 2.1 	
Total tillable land Soil bank Till. land not cropped Total tillable land	in past A D	ture 1	•	6.4	
Wild hay (non-till.) Non-till. pasture Timber (not pasture) Roads & waste Farmstead		9 31 9 45 48		2,4 18.6 4.0 8.0 6.2	
TOTAL ACRES IN FARM				203,0	

Per cent land tillable Per cent tillable land in high return crops 79% 60%

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

Item	No. of Work Units	No. of Item Work Units
Dairy Cattle Other dairy cattle Beef Breeding herd Feeder cattle Sheep - farm flock	10.0 per cow 3.5 per an. unit* 3.5 per an. unit* .25 per 100 lbs. 1.5 per an. unit*	Peas, sm.grain .5 per A. Hybr. seed c. 2.0 per A. Corn husked .7 per A. Corn silage 1.0 per A. Sweet corn .7 per A.
Sheep - feeders Hogs Hens Turkeys	.3 per 100 lbs. .2 per 100 lbs. 20.0 per 100 hens .5 per 100 lbs.	Soybean grain .5 per A. Alfalfa hay .6 per A. Other hay & seed.4 per A. 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 Ma	chinery Ex	cpenses Per	Crop Acre,	1957
Items		Your farm	Ave. of all farms	20/most profitable	20% least profitable
Crop acres per farm			156	205	125
Tractor expense per			\$ 5.88	\$ 6.03	\$ 6.71
Crop & gen. mach. e	exp. per crop	acre	5.82	5,42	6.82

AMOUNT OF LIVESTOCK

The farmers cooperating in this study are predominatly livestock farmers. 70% of these farmers maintained dairy cattle, 58% kept poultry, 22% raised sheep, 37% kept beef cattle and 90% raised hogs.

Table 11.	Amount of Livesto	ock, 1957		
Items		our Ave. of arm all farms	20% most profitable	
Number of milk cows Number of other dain Number of beef cattl Number of ewes Number of hens Pounds of hogs produce Pounds of beef produce	Le (incl. feeders)	8.5 7.6 15.0 8.9 155.5 27,061.0 6812.0	7.4 31.7 2.5 45.3	9.1 8.2 13.9 7.5 238.2 18,818.0 5236.0

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, 1957 Dairy Cattle Beef Breedin g Herd Cows Other All Total returns Total feed cost Total return over feed Farm Flock Feeder 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. 90% of the farmers cooperating in this analysis raised hogs for market. Hog sales amounted to 28% of the total farm sales. 43% of the returns from productive livestock was from hogs. Table 14 below summarizes the results of the hog enterprise analysis.

Table 14. Feed Costs and			1957	
	Your	Average of	•	s 20% of farms
Items	farm	all farms	highest in	lowest in
2 00MO		raising hog	s returns above	returns
			feed	abo ve feed
Feed per cwt. hogs produced, lbs.:			1000	1. 66 a
Corn		332.8	262,5	374.9
Small grain	***************************************	55.1	59.6	38,1
Commercial feeds		58,7	42.3	66.0
Total concentrates		446.6	394.4	479.0
Silage		.4		
Skim milk, buttermilk & whey Alfalfa hay		.2	.2	And again telefo
ATTATTA HAY		9.1	11.7	6.0
Feed cost per cwt. hogs produced:			•	
Concentrates	\$	\$ 10.57	\$ 9.08	\$ 11.76
Skim milk, butter milk and whey	Υ	φ	,Ol	Ψ
Pasture	***********	.05	.05	.05
Alfalfa hay		,10	.11	.06
Silage	\$.4		
TOTAL FEED COST	\$	\$ 10.72	\$ 9.25	\$ 11.87
Net increase in value per cwt. hogs	\$	\$ 18.60	\$ 20.67	\$ 16,23
prod. RETURNS ABOVE FEED COST PER CWT.				
HOGS PRODUCED	\$	\$ 7.88	\$ 11,42	\$ 4.36
Hods Thoboogs	Ψ	φ /•ΟΟ	φ 11,42	φ 4. 30
RETURNS FOR \$100 OF FEED	\$	\$180.00	\$230.00	\$139.00
Price received per cwt. hogs sold	\$	\$ 18.00	\$ 19.49	\$ 16.96
No, of spring litters raised	·	14.	18.	13.
No. of fall litters raised	*************************	9.	$\frac{13}{31}$.	<u>7</u> .
Total no. of litters raised	*****	23	31	20
No. of pigs born per litter		9.	8,	9,
No. of pigs weaned per litter	***************************************	7.	7.	7.
·	e-tille-terilementalistemesh		-	•
Pounds of hogs produced	-	35572	42771	35839

DAIRY CATTLE

The quantity of feed consumed, value of feeds and returns from dairy cattle are presented in Table 14, 15, and 16. The return over feed cost per cow varied from _\$6.74 to \$300.61 among the 27 herds covered by this report. Some of the important factors that affected the return over feed were:

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

Factors of Cost and Returns from Dairy Cows, 1957 Table 14. 6 farms 6 farms lowest in Average highest in Items of 27 butterfat butterfat Your farm farms per cow per cow Pounds of butterfat per cow 390.6 314.3 250.3 Price rec. per lb. B.F. sold (cts.) .99 .90 .92 Feed per cow, lbs.: Corn 2286.3 1994.9 2061.5 896.3 Small grain 663.0 707.9 Commercial feed 478.8 557.7 399.5 Legume hay 5636.1 4943.5 7135.7 Other hay 25.1 Total concentrates 3136.7 3327.1 3582.1 Total dry roughages 5661.2 4943.5 7135.7 Silage 7263.2 8925.1 5264.3 Feed cost per cow: Concentrates \$ 70.15 \$ 79.04 78.67 Roughages 71,05 74.48 63.69 Pasture 9,42 12.09 8.60 \$150.62 \$ 161.75 TOTAL FEED COSTS \$154.82 Value of produce per cow: B.F. sales \$269.43 \$349.42 \$ 221.04 Dairy produce used in house 6.47 10.56 4.41 Milk fed to livestock 5.77 12.11 1.98 Net increases in value of cows -12.69 -19.49 -9.89 \$268.98 TOTAL VALUE PRODUCED \$352,60 \$ 217.54 RETURNS ABOVE FEED COST PER COW \$118.36 \$197.78 \$ 55,79 RETURNS FOR \$100 OF FEED \$237.00 \$ 138.00 \$187.00 .40 Feed cost per 1b. B.F. (cents) .51 .65 Number of cows 18.7 21.6 16.8

Table 15. Feed Costs and Re	Your farm	Average of all farms	20% of Farms highest in butterfat per cow	20% of farms lowest in butterfat per cow
Feed per head, lbs.:				• •
Concentrates	••	745.6	911.1	719.8
Hay and fodder		2817.7	1895.2	5432.1
Silage	-	1661.0	1655.5	499,9
Whole Milk		213.8	282.2	130.0
Skim Milk	**	39.5	age that told	***
			,	
Feed cost per head:	.	430 EE	\$ 22.01	\$. 16.40
Concentrates	\$	\$ 18.55	•	21.56
Roughages		23.80	23.43	3.90
Milk		6.78	8.47	
Pasture		3.11	4.96	2.51
TOTAL FEED COSTS PER HEAD		\$ 52.24	\$ 58.87	\$ 44.37
Net inc. in value of other cattle	a di	\$ 83.11	\$ 75.19	\$ 72.29
RETURNS ABOVE FEED COST PER HEAD		\$ 30.87	\$ 16.32	\$ 27.92
RETURNS FOR \$100 OF FEED		\$200.00	\$132.00	\$214.00
Number of head of other cattle		15.9	24,5	12.8
Table 16. Feed Costs and I	Returns fro Your farm	Average of all farms	Cattle, 1957 20% of farm highest in butterfat per cow	S ZUP UI IAI.
Feed per animal unit, lbs.:	3	<u></u>		
Concentrates		2801.0	2794.1	3016.3
Hay and fodder		6053.5	3839.8	8995.4
Silage	-	6028.9	6703.9	4259.3
TOTAL FEED COSTS PER ANIMAL UNIT		\$ 1,38.76	\$ 135.96	\$ 143.04
Value of produce per animal unit	1 3	e deserting		
Dairy products	•	\$ 206.52	\$ 236.35	. \$ 163.44
Net inc. in val. of dairy	attle	35,44	43.21	30.79
TOTAL VALUE PRODUCED		\$ 241.96	and the same of th	\$ 194.23
RETURNS ABOVE FEED PER ANIMAL UN	II,	\$ 103.20	\$ 143.60	\$ 51.19

Animal units of cattle

26.7

33.9

23,2

Table 17. Feed Costs and Returns from Beef Cattle, 1957

Table 17. Feed Costs and Returns from E	Reef Cattle	, 1957	
Items	Your Farm	5 Mankato Farms	5 Mankato 3 Austin 8 3 Winona farms
Feeds per animal unit, lbs.:			
Concentrates	•	913,2	1048.9
Legume:		6094.1	4768.4
Other hay	**************************************	403,2	183.8
Silage	alongs in describe or all middle fills in the little	8569,8	4973.0
Feed Cost per animal unit:			
Concentrages	\$	\$ 20.21	\$ 21.07
Roughages		81,12	56.51
Pasture	\$	16,09	17.40
TOTAL FEED COST	\$	\$117.42	\$ 94.98
Value of produce per animal unit			1 85
Dairy products	\$	\$.77	\$.35
Net increase in value of animal		132.16	107.80
TOTAL VALUE PRODUCED	\$	\$132.93	\$108.15
RETURNS ABOVE FEED COST PER ANIMAL UNITS	\$	\$ 15,51	\$ 13.17
RETURNS FOR \$100 OF FEED	\$	\$135.80	\$125.45
		00.0	25.2
Number of cows and herd bulls		22.9	25.2 25.7
Number of animal units in the herd		22.1	20.1
Feeder Cattle: No. of farms		16 Farms	
Feeds per cwt. beef produced, lbs.:			
Corn			445.9
Small Grain			20.1
Commercial feeds			60.0
Legume hay			331.2
Other hay	-		6,0
Total concentrates			526.0
Total hay and fodder			337.2
Silage		,	406.5
Feed cost per cwt. beef produced		•	ė 3 3 00
Concentrates	\$		\$ 11.00 4.34
Roughages	AND THE PARTY OF T		.96
Pasture	ф		\$ 16.30
TOTAL FEED COSTS	<u>*</u>		\$ 28.17
Net increase in value of feeders	Ψ		\$ 11.87
RETURNS ABOVE FEED COST PER CWT. BEEF PROD.	\$		
RETURNS FOR \$100 OF FEED	\$		\$184.00
Price paid per cwt. beef bot.	\$		\$ 19.82
Price red'd. for feeder cattle sold	\$		\$ 19.56
			44.2
Number of animal units			24148,9
Pounds of beef produced			~ 1_10 70

[tems		10 Mankato	•
LUGINS	Your	Farms	2 Austin.
	farm		2 Winona farm
Feeds per head, *lbs.		***************************************	· · · · · · · · · · · · · · · · · · ·
Concentrates		158.7	246.9
Legume hay	***********	597.5	615.4
Other hay		110.6	83.4
Silage		209.5	196.3
Seed cost per head:	***********	203.0	130.0
Concentrates	φ.	ф п о п	ф <u>4 о</u> с
	\$	\$ 3.27	\$ 4.95
Roughages		6.80	6.48
Pasture	1	1.73	2.12
TOTAL FEED COSTS	\$	\$ 11.80	\$ 13.55
alue of produce per head:			
Wool	\$	\$ 4.44	\$ 4.66
Value of Mutton	<u> </u>	12.59	12.86
TOTAL VALUE PRODUCED	\$	\$ 17.03	\$ 17.52
	* *************************************	,	,
ETURNS ABOVE FEED COST PER HEAD	\$	\$ 5.23	\$ 3.97
			•
ETURNS FOR \$100 OF FEED	\$	\$150.00	\$143.00
rice per cwt. of lambs sold	\$	\$ 17.95 \$.59	\$ 17.27
rice per lb. wool sold (cbs)	\$	\$,59	\$.60
ounds of wool per sheep sheared		9.4	8,2
umber of ewes kept for lambing		33.7	35.6
er cent lamb crop**		122.%	123.%
er cent death loss**		9.5/2	10.8%
ounda of about march 1	Marine Control of the	3411.6	2657.4
DUDOS DI SDEEN NYAGUAAA		0.477.0	2007.4
ounds at sneep produced			- A
ounds of sheep produced ead of Native Sheep	-	51.6	54,5
ead of Native Sheep Two lambs under six months of age cor	asidered as	51.6	54,5
ead of Native Sheep Two lambs under six months of age cor	are not in	51.6 one head. cluded.	54,5
Two lambs under six months of age cor Lambs which die during month of birth Table 19. Feed Costs and Returns fr	are not in	51.6 one head. cluded.	54,5
Two lambs under six months of age cor Lambs which die during month of birth Table 19. Feed Costs and Returns fr	are not in	51.6 one head. cluded.	54.5
Two lambs under six months of age cor * Lambs which die during month of birth Table 19. Feed Costs and Returns fr	om Feeder L Your	51.6 one head. cluded.	54,5
Two lambs under six months of age cor * Lambs which die during month of birth Table 19. Feed Costs and Returns fr	om Feeder L Your	51.6 one head. cluded.	54.5
Two lambs under six months of age cor Lambs which die during month of birth Table 19. Feed Costs and Returns fr tems eed per cwt. lambs produced, lbs.:	om Feeder L Your	51.6 one head. cluded.	54.5
Two lambs under six months of age cor Lambs which die during month of birth Table 19. Feed Costs and Returns fr tems eed per cwt. lambs produced, lbs.: Concentrates Legume hay	om Feeder L Your	51.6 one head. cluded.	54.5
Two lambs under six months of age cor Lambs which die during month of birth Table 19. Feed Costs and Returns frams eed per cwt. lambs produced, lbs.: Concentrates Legume hay Other hay	om Feeder L Your	51.6 one head. cluded.	54,5
Two lambs under six months of age cor Lambs which die during month of birth Table 19. Feed Costs and Returns fr tems eed per cwt. lambs produced, lbs.: Concentrates Legume hay Other hay Fodder and stover	om Feeder L Your	51.6 one head. cluded.	54.5
Two lambs under six months of age cor Lambs which die during month of birth Table 19. Feed Costs and Returns fr tems eed per cwt. lambs produced, lbs.: Concentrates Legume hay Other hay Fodder and stover Silage	om Feeder L Your	51.6 one head. cluded.	54.5
Two lambs under six months of age cor * Lambs which die during month of birth Table 19. Feed Costs and Returns fr tems eed per cwt. lambs produced, lbs.: Concentrates Legume hay Other hay Fodder and stover Silage eed cost per cwt. lambs produced	om Feeder L Your	51.6 one head. cluded.	54.5
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Two lambs under six months of age cor Lambs which die during month of birth Table 19. Feed Costs and Returns fr tems eed per cwt. lambs produced, lbs.: Concentrates Legume hay Other hay Fodder and stover Silage eed cost per cwt. lambs produced et increases in value per cwt. produced et urn above feed cost per cwt. produced eturn FOR \$100 OF FEED	are not in Your Farm	51.6 one head. cluded.	54,5
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Two lambs under six months of age cor Lambs which die during month of birth Table 19. Feed Costs and Returns fr tems eed per cwt. lambs produced, lbs.: Concentrates Legume hay Other hay Fodder and stover Silage eed cost per cwt. lambs produced et increases in value per cwt. produced	are not in Your Farm	51.6 one head. cluded.	54.5
Two lambs under six months of age cor Lambs which die during month of birth Table 19. Feed Costs and Returns from tems eed per cwt. lambs produced, lbs.: Concentrates Legume hay Other hay Fodder and stover Silage eed cost per cwt. lambs produced et increases in value per cwt. produced et increases in value per cwt. produced et un above feed cost per cwt. produced et un for \$100 OF FEED rice paid per cwt. lambs bought	are not in Your Farm	51.6 one head. cluded.	54.5

CHICKENS

Fifty-eight per cent 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, which amounted to about 5% of the total return from productive livestock.

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 death loss of hens

Table 20. Feed Costs and Returns from Chickens, 1957* 5 Farms Average 5 Farms Items of 22 Highest Lowest in Your Farms in Return Return Farm Above Feed Above Feed Feed per hen, lbs.: Grain 82.5 74.9 101.7 29.5 23.7 Commercial feed 34.8 117.3 104.4 125.4 Total Concentrates \$ 2.90 \$ 3.20 TOTAL FEED COST PER HEN \$ 3.42 Value of produce per hen: \$ 3.73 \$ 4.54 \$ 4.64 Eggs sold and used in Home Net Inc. in value of chickens _ .01 \$ 3.33 TOTAL VALUE PRODUCED \$ 2.31 \$.13 RETURNS ABOVE FEED COST PER HEN \$ 1.11 \$106.00 RETURNS FOR \$100 OF FEED \$136.00 \$181.00 26.4¢ 28.4¢ 29.4¢ Price rec'd per dz. eggs sold(¢) 194.0 154.0 189.0 Eggs laid per hen 274.5 303.1 233.0 Ave. no. hens on farm during year 11.6% 19.4% 12.4% Per cent death loss of hens Per cent of laying flock that 66.2% 98.1% are pullets 72.6% 290.9 235.0 185.0 Number of Pullets started Straight Run 31.8 30.0 Cockerels 107.6 20.0 48.5

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

Turkeys were produced on only one farm in the Mankato area. To get a better picture of the turkey enterprise, there are two farms from the Austin area included in Table 21.

Table 21. Feed Costs and Returns for T	urkeys.	1957
Items	Your farm	Average of 3 farms *
Feed per cwt. turkeys produced, 1bs.: Grain Commercial Feed Total concentrates		227.6 204.0 431.6
Feed cost per cwt. turkeys produced Net increase in value per cwt. turkeys produced	\$	\$ 14.01 18.65
RETURNS ABOVE FEED COST PER CWT. PRODUCED		4.64
RETURNS PER \$100 OF FEED		134.00
No. of poults put on feed Price paid per poult purchased Per cent death loss Price received per lb. turkeys sold (cts) Weight per bird sold (lbs)		10780 .65 6.1% 23.9¢ 13.8
Pounds of turkey produced	* *	122, 857

^{*} Includes farms from Austin area.

Table 22, Summary of Farm Earnings by T	enure,	1957 (Ope	erator's S	Share)
Items	Your	17	16 part	26
	farm	Owners	Owners	Renters
FARM RECEIPTS		_		
Dairy cattle		\$1005	\$ 309	\$ 524
Dairy products		3805	973	2346
Beef cattle (including feeders)	dipolonia priponina	2418	4032	1108
Hogs Shoop and year (including for law)	-	5723	4327	3115
Sheep and wool (including feeders) Poultry (including turkeys)		39	361	63
Eggs	************	20	37	1638
Corn	***************************************	960 2052	486 1400	514
Small grain	************	2082	183	796 95
Other crops		1292	2222	1143
Soil bank		1636 		
Mach. and equip. sold & gas tax refunds	***************************************	267	132	155
Income from work off the farm	******	512	133	184
Miscellaneous		219	61	69
(1) Total farm sales	**************	\$18526	\$1 4656	\$11747
(2) Increase in farm capital	***************************************	1226	1948	1519
(3) Family living from the farm		314	218	213
(4) Total farm receipts (1)&(2)&(3)	***************************************	\$20066	\$18822	\$13479
FARM EXPENSES	Complete Service Service Service	•	•	4
Dairy cattle bought		160	51	363
Beef cattle bought (including feeders)		1432	2004	654
Hogs bought		148	213	232
Sheep bought (including feeders)		~ ~	6	7
Poultry bought (including turkeys)		58	56	39 8
Misc, livestock expense		447	202	324
Feed bought		2569	2241	2523
Fertilizers	***************************************	609	640	282
Other crop expense Custom work hired		560	478	295
Gas, oil and grease bought (farm share)	•	539	441	327
Rep.& op. tractor, truck, & auto (farm share)		938 371	634	582 29 7
Rep. and upkeep of real estate	·	308	283 210	297 37
Rep. and upkeep of crop. and gen. mach.	-	276	232	195
Rep. and upkeep of crop. and gen. mach. Rep. and upkeep of livestock equipment		78	86	93
Wages of hired labor		610	153	187
Electricity expense (farm share)		181	103	145
Real estate and pers. prop. taxes		656	282	111
Cash rent	4	39	385	606
Gen. farm exp. and telephone expense		287	168	130
Interest paid	**********	488	151	194
Total cash operating expenses Mech. power bought (farm share)	-	\$10754	\$ 9019	\$ 7982
Crop & gen. mach. bought		433 1056	813 820	591 733
Livestock equipment bought		364	61	99
New real estate improvements	***************	858	447	196
(5) Total farm purchases	Approximate minit	$$1\overline{3465}$	\$11160	\$9601
(6) Interest on farm capital	manush-s-rapporary	2829	1363	Ψ960 <u>1</u> . 779
(7) Unpaid family labor		264	160	87
(8) Board furnished hired labor		172	19	9
(9) Total farm expenses (5)&(6)&(7)&(8)		\$16730	\$12702	\$10476
(10) Labor earnings (4) (9)	***************************************	3336	4120	3003
(11) Ret. to cap. & fam. lab.(6)&(7)&(10)	***************************************	6429	5643	3869

PARM RECEIPTS Dairy cattle 520 634 678 Dairy products 2144 2875 2787 2684 1698 4359 3333 4791 4784 4785 2787 2684 1698 4359 3333 4791 4784 4784 4784 4784 4784 4784 4787 4787 4786 4865 4866	Table 23. Summary of Farm Earnings	by Years -	Mankato Area	
Dairy products				1957
Dairy products				
Dairy products 2144 2575 2757	FARM RECEIPTS			
Dairy products Beef cattle (incl. feeders) 3582 2714 2634 Hogs 4359 3363 4791 Sheep and wool 373 294 156 Foultry (incl. turkeys) 210 1153 738 Eggs 968 632 662 662 662 662 662 663 662 662 662 663 662 662 663 662 662 663 662 663 662 663 663 662 663 6	Dairy cattle	520	634	678
Beef cattle (incl. feeders) 3582 2714 2634 1658 1658 3733 4791 1558 1558 1553 1458 1558	Dairy products			
Sheep and wool 373 294 156	The state of the s			
Sheep and wool 373 294 156 201 1153 738 238 360 207 3198 2425 1967 2426				
Poultry (incl. turkeys)	Sheep and wool			
Eggs	Poultry (incl. turkeys)	OIC		
Corn 3198 24 25 1567 Small grain 174 359 254 Cther crops 1025 1717 2049 Mach, equip, sold & gas tax refund 395 230 195 Income from work off the farm 129 145 273 Miscellaneous 130 158 112 (1) Total farm sales 17207 17170 17206 (2) Increase in farm capital 1706 1938 (3) Family living from the farm 290 258 271 (4) Total farm receipts (1)&(2)&(3) 17497 19134 19410 FARM EXPENSES Dairy cattle bought 126 218 250 Esef cattle bought (incl. feeders) 1855 1353 1452 Horses bought (including feeders) 159 17 16 Horses bought (including feeders) 104 278 220 Misc. livestock expense 328 364 361 Freed bought 2597 2734 2774 <td>Eggs</td> <td></td> <td></td> <td></td>	Eggs			
Small grain 174 359 254 Other crops 1025 1717 2049 Mach, equip, sold & gas tax refund 395 230 195 Income from work off the farm 129 145 273 Miscellaneous 130 158 112 (1) Total farm sales 17207 17170 17206 (2) Increase in farm capital 1706 1933 (3) Family living from the farm 290 258 271 (4) Total farm receipts (1)&(2)&(3) 17497 19134 19410 FARM EXPENSES Dairy cattle bought 126 218 250 Beef cattle bought (incl. feeders) 1855 1353 1452 Hogs bought (including feeders) 159 17 16 Horses bought 3 3 Foultry bought (including feeders) 104 278 220 Misc, livestock expense 328 364 361 Freed bought 259 273	Corn	3198		
Other crops 1025 1717 2049 Mach, equip, sold & gas tax refund 395 230 195 Income from work off the farm 129 145 273 Miscellaneous 130 158 112 (1) Total farm sales 17207 17170 1933 (2) Increase in farm capital 1706 1933 (3) Family living from the farm 290 258 271 (4) Total farm receipts (1)2(2)&(3) 17497 19134 19410 FARM EXPENSES Dairy cattle bought 126 218 250 Beef cattle bought (incl., feeders) 1855 1353 1452 Hogs bought 355 193 248 Sheep bought (including feeders) 169 17 16 Horses bought (including feeders) 104 278 220 Misc, livestock expense 328 364 361 Feed bought 2597 2734 2774 Fertillzers 456 339 539 <td>Small grain</td> <td></td> <td></td> <td></td>	Small grain			
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Miscellaneous 130 158 112 (1) Total farm sales 17207 17707 17206 17306 1933 (2) Increase in farm capital 1706 1933 (3) Family living from the farm 290 258 271 (4) Total farm receipts (1)&(2)&(3) 17497 19134 19410	Income from work off the farm			
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AVERAGE PRICES OF FEEDS - 1957

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

Table 24. Average Prices of Feed, 1957.

Farm Grown Gra	ins*		Other Roughages	,	
Corn	\$1.02 per b	ou.	Corn Silage	\$6.00 per Ton	
Oats		11	Grass Silage	6.50 " "	
Barley	.88 "	11	Pea Silage*	3.50 " "	
Wheat	2.05 "	TI .	Sweet Corn Silage*	2.60 " "	
Rye	1.04 "	IF	3	3	
Soybeans	2.10 "	11	Pasture per Head Per	r Month	
Flaxseed	3.16 "	11			
			Cows	\$2.50	
Hay			Young Cattle	1.25	
			Hogs	.16	
Alfalfa	\$19.00 per	Ton	Pigs (under 6 mos)	.08	
Red or	•		Sheep	•40	
Alsike Clover	16.00 "	t f	Lambs	.20	
Brome or				•	
Timothy	11.00 "	11	Milk For Feed		
Wild Hay	9.00 "	19			
			Whole Milk	\$3.00 per Cwt.	
			Skim Milk	.34 " "	
	_		Whole milk used in home	.10 " Qt.	

^{*} Purchase price used whenever possible.