#### 1956 ANNUAL REPORT

# VOCATIONAL AGRICULTURE FARM MANAGEMENT PROGRAM

#### MANKATO AREA OF SOUTHERN MINNESOTA

UNIVERSITY OF MINNESOTA

AGRICULTURE ECONOMICS - AGRICULTURE EDUCATION
DEPARTMENTS

and

MINNESOTA DEPARTMENT OF EDUCATION
VOCATIONAL DIVISION

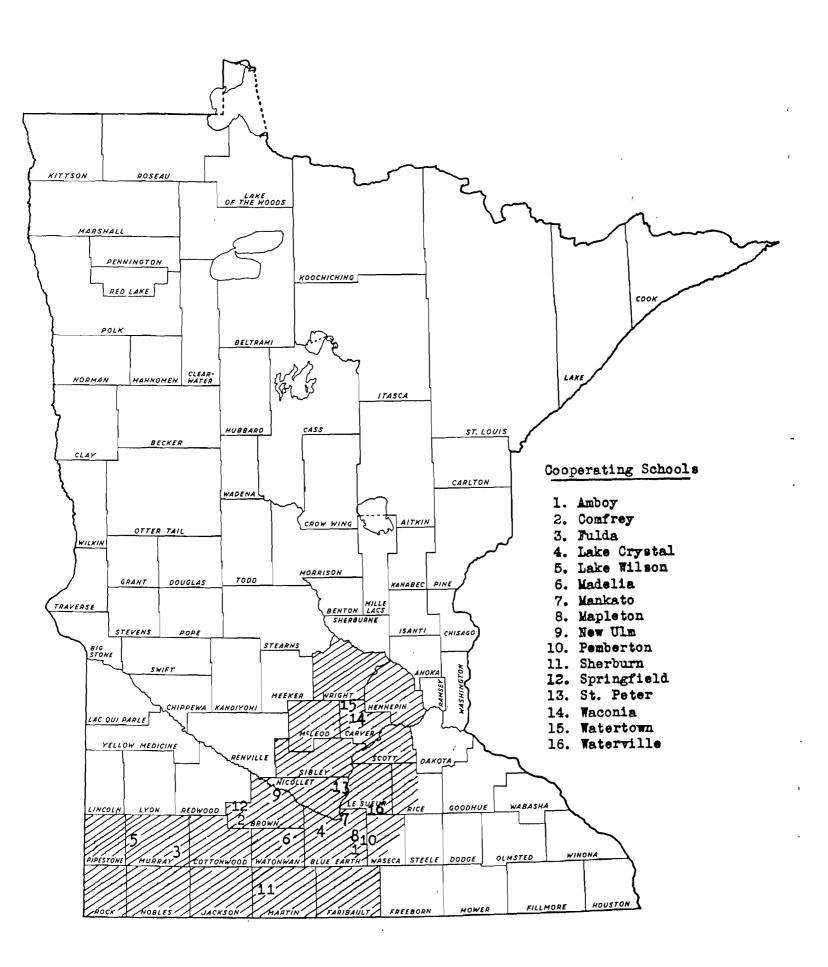
and

AREA VOCATIONAL TECHNICAL SCHOOL

MANKATO, MINNESOTA

Cooperating

**APRIL 1957** 



# 1956 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. Joan Turtle, Miss Norma Jean Baumgard, and Miss Virginia A. Kimes. Mrs. Dorthy Pavey, 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 16 schools in the Mankato area. The following tabulation shows the number of 1956 records submitted and the name of the instructor:

SCHOOL	NO. OF RECORDS	INSTRUCTOR
Amboy	1	Robert Potosnak
Comfrey	5	Herbert Timm
Fulda	3	Kenneth Ziebarth
Lake Crystal	2	Ernest Freier
Lake Wilson	6	Ervin Neuharth
Madelia	12	Malcomb Brandt
Mankato	10	
Mapleton	1	Carl Ziebarth
New Ulm	24	Winfield Forsberg
		Kermit Kleene
Pemberton	1	Gerald Ziegler
Sherburn	1	Leo Ardolf
Springfield	1	Ronald G. Johnson
St. Peter	3	C. W. Dowling
Waconia	1	V ernon Bruhn
Watertown	4	V ernon Richter
Waterville	1	Herman Winkels
	Total 76	

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 \$15,811 to \$107,532. The average investment for all farms included in this report and for the 21 high and the 21 low 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 evailable to the operator for living expenses, payment on endebtedness and savings. These figures are found on Table 5.

Table 1, Summar	y of Farm	Inventories,		
	<u></u>	ur Farm	Ave. o	f All Farms
I tems ,	Jan. 1	. Dec. 31	Jan.	1 Dec. 31
Size of farm (acres)		-	201.5	
Size of business (work units)*	1	***************************************	365	
Dairy cattle			1704	1 <b>7</b> 32
Other dairy cattle			661	761
Beef cattle (incl. feeders)	<del></del>		1463	1677
Hogs	***************************************		1169	1814
Sheep (incl. feeders)	F		289	239
Poultry (incl. turkeys)	<del></del>	· · · · · · · · · · · · · · · · · · ·	231	149
Productive livestock (total)	<del></del>	•	5517	6372
Horses		· • • • • • • • • • • • • • • • • • • •	4	7
Crop, seed and feed		* ************************************	5154	5802
Auto & truck (farm share)			1095	1173
Tractors & motors		P Image philing - 10 a final productivity	1695	1684
Crop and gen. mach.			3167	3280
Livestock equipment			670	<u>764</u>
Machinery & equip. (total)			6627	6900
Miscellaneous				-
Land			24921	24921
			7070	<b>7</b> 757
Buildings, fences, etc.			<u> 7830</u>	1101
	21 most	profitable fa	50053	51759
Buildings, fences, etc. TOTAL FARM CAPITAL	21 most Jan. 1	profitable fa	50053 rms 21 le	
Buildings, fences, etc. TOTAL FARM CAPITAL  Items	Jan. 1		50053 .rms <u>21 le</u> Ja	51759
Buildings, fences, etc. TOTAL FARM CAPITAL  Items  Size of farm (acres)			50053 rms 21 le	51759
Buildings, fences, etc. TOTAL FARM CAPITAL  Items  Size of farm (acres) Size of business (work units)*	Jan. 1 231.9 447	Dec. 31	50053 rms 21 le Ja 188.5 349	51759  ast profitable n.1 Dec. 31
Buildings, fences, etc. TOTAL FARM CAPITAL  Items  Size of farm (acres) Size of business (work units)*  Dairy cattle	Jan. 1 231.9 447 1348	Dec. 31	50053  .rms 21 le Ja 188.5 349 1773	51759  ast profitable n.1 Dec. 31
Buildings, fences, etc. TOTAL FARM CAPITAL  Items  Size of farm (acres) Size of business (work units)*  Dairy cattle Other dairy cattle	Jan. 1 231.9 447 1348 526	Dec. 31  1428 581	50053  .rms 21 le Ja 188.5 349 1773 676	51759  ast profitable n.1 Dec. 31  1987 744
Buildings, fences, etc. TOTAL FARM CAPITAL  Items  Size of farm (acres) Size of business (work units)*  Dairy cattle Other dairy cattle Beef cattle (incl. feeders)	Jan. 1 231.9 447 1348 526 1982	Dec. 31  1428 581 2806	50053  .rms 21 le Ja 188.5 349 1773 676 2114	51759  ast profitable n.1 Dec. 31  1987 744 1839
Buildings, fences, etc. TOTAL FARM CAPITAL  Items  Size of farm (acres) Size of business (work units)*  Dairy cattle Other dairy cattle Beef cattle (incl. feeders) Hogs	Jan. 1 231.9 447 1348 526 1982 1488	Dec. 31  1428 581 2806 2678	50053  .rms 21 le     Ja  188.5 349  1773 676 2114 1152	51759  ast profitable n.1 Dec. 31  1987 744 1839 1600
Buildings, fences, etc. TOTAL FARM CAPITAL  Items  Size of farm (acres) Size of business (work units)*  Dairy cattle Other dairy cattle Beef cattle (incl. feeders) Hogs Sheep (incl. feeders)	Jan. 1 231.9 447 1348 526 1982 1488 292	Dec. 31  1428 581 2806 2678 197	188.5 349 1773 676 2114 1152 598	51759  ast profitable n.1 Dec. 31  1987 744 1839 1600 484
Buildings, fences, etc. TOTAL FARM CAPITAL  Items  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. 1 231.9 447 1348 526 1982 1488 292 298	1428 581 2806 2678 197 98	188.5 349 1773 676 2114 1152 598 230	51759  ast profitable n.1 Dec. 31  1987 744 1839 1600 484 170
Buildings, fences, etc. TOTAL FARM CAPITAL  Items  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)	Jan. 1  231.9 447  1348 526 1982 1488 292 298 5934	1428 581 2806 2678 197 98 7738	188.5 349 1773 676 2114 1152 598 230 6543	51759  ast profitable n.1 Dec. 31  1987 744 1839 1600 484
Buildings, fences, etc. TOTAL FARM CAPITAL  Items  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) Horses	Jan. 1  231.9 447  1348 526 1982 1488 292 298 5934 13	Dec. 31  1428 581 2806 2678 197 98 7738 22	188.5 349 1773 676 2114 1152 598 230 6543	51759  ast profitable n.1 Dec. 31  1987 744 1839 1600 484 170 6824
Buildings, fences, etc. TOTAL FARM CAPITAL  Items  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) Horses Crop, seed, and feed Auto & truck (farm share)	Jan. 1  231.9 447  1348 526 1982 1488 292 298 5934 13 7296	Dec. 31  1428 581 2806 2678 197 98 7738 22 8178	188.5 349 1773 676 2114 1152 598 230 6543  4618	51759  ast profitable n.1 Dec. 31  1987 744 1839 1600 484 170 6824 4741
Buildings, fences, etc. TOTAL FARM CAPITAL  Items  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) Horses Crop, seed, and feed Auto & truck (farm share) Tractors & motors	Jan. 1  231.9 447  1348 526 1982 1488 292 298 5934 13	Dec. 31  1428 581 2806 2678 197 98 7738 22 8178 1265	188.5 349 1773 676 2114 1152 598 230 6543  4618 1110	51759  ast profitable n.1 Dec. 31  1987 744 1839 1600 484 170 6824 4741 1250
Buildings, fences, etc. TOTAL FARM CAPITAL  Items  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) Horses Crop, seed, and feed Auto & truck (farm share) Tractors & motors Crop & gen. machinery	Jan. 1  231.9 447  1348 526 1982 1488 292 298 5934 13 7296 1316	Dec. 31  1428 581 2806 2678 197 98 7738 22 8178 1265 2153	188.5 349 1773 676 2114 1152 598 230 6543  4618 1110 2047	51759  ast profitable n.1 Dec. 31  1987 744 1839 1600 484 170 6824 4741 1250 1866
Buildings, fences, etc. TOTAL FARM CAPITAL  Items  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) Horses Crop, seed, and feed Auto & truck (farm share) Tractors & motors Crop & gen. machinery Livestock equipment	Jan. 1  231.9 447  1348 526 1982 1488 292 298 5934 13 7296 1316 1960 4090	Dec. 31  1428 581 2806 2678 197 98 7738 22 8178 1265 2153 4400	188.5 349 1773 676 2114 1152 598 230 6543  4618 1110 2047 3388	51759  ast profitable n.1 Dec. 31  1987 744 1839 1600 484 170 6824 4741 1250 1866 3204
Buildings, fences, etc. TOTAL FARM CAPITAL  Items  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) Horses Crop, seed, and feed Auto & truck (farm share) Tractors & motors Crop & gen. machinery Livestock equipment Machinery & equipment (total)	Jan. 1 231.9 447 1348 526 1982 1488 292 298 5934 13 7296 1316 1960	Dec. 31  1428 581 2806 2678 197 98 7738 22 8178 1265 2153	188.5 349 1773 676 2114 1152 598 230 6543  4618 1110 2047	51759  ast profitable n.1 Dec. 31  1987 744 1839 1600 484 170 6824 4741 1250 1866
Buildings, fences, etc. TOTAL FARM CAPITAL  Items  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) Horses Crop, seed, and feed Auto & truck (farm share) Tractors & motors Crop & gen. machinery Livestock equipment Machinery & equipment (total) Miscellaneous	Jan. 1  231.9 447  1348 526 1982 1488 292 298 5934 13 7296 1316 1960 4090 748	Dec. 31  1428 581 2806 2678 197 98 7738 22 8178 1265 2153 4400 1058	188.5 349 1773 676 2114 1152 598 230 6543  4618 1110 2047 3388 807	51759  ast profitable n.1 Dec. 31  1987 744 1839 1600 484 170 6824 4741 1250 1866 3204 805
Buildings, fences, etc. TOTAL FARM CAPITAL  Items  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) Horses Crop, seed, and feed Auto & truck (farm share) Tractors & motors Crop & gen. machinery Livestock equipment Machinery & equipment (total) Miscellaneous Land	Jan. 1  231.9 447  1348 526 1982 1488 292 298 5934 13 7296 1316 1960 4090 748	Dec. 31  1428 581 2806 2678 197 98 7738 22 8178 1265 2153 4400 1058	188.5 349 1773 676 2114 1152 598 230 6543  4618 1110 2047 3388 807 7352	51759  ast profitable n.1 Dec. 31  1987 744 1839 1600 484 170 6824 4741 1250 1866 3204 805 7125
Buildings, fences, etc. TOTAL FARM CAPITAL  Items  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) Horses Crop, seed, and feed Auto & truck (farm share) Tractors & motors Crop & gen. machinery Livestock equipment	Jan. 1  231.9 447  1348 526 1982 1488 292 298 5934 13 7296 1316 1960 4090 748 8114	Dec. 31  1428 581 2806 2678 197 98 7738 22 8178 1265 2153 4400 1058 8876	188.5 349 1773 676 2114 1152 598 230 6543  4618 1110 2047 3388 807 7352	51759  ast profitable n.1 Dec. 31  1987 744 1839 1600 484 170 6824 4741 1250 1866 3204 805 7125

<sup>\*</sup> See page 13 for an explanation of "work units".

Items	Your farm	Average of all farms	21 most profitable farms	21 least profitabl farms
FARM RECEIPTS			401110	2021110
Dairy cattle		634	504	523
Dairy products		2575	2167	2717
Beef cattle (incl. feeders)	******************	2714	4955	2863
Hogs		3933	538 <b>2</b>	3429
Sheep and wool	*************	294	<b>.328</b>	561
Poultry (incl. turkeys) Eggs	*************	1153 832	3410 1161	103 762
Corn		2426	3814	1682
Small grain	************	359	623	291
Other crops		1717	2149	1314
Mach. & equip. sold & gas tax refunds Income from work off the farm		230	20 <del>4</del> 236	207 196
Miscellaneous	-	145 158	126	185
(1) Total farm sales	*	$\frac{100}{17170}$	250 <b>5</b> 9	14833
1 [	-	1706	2930 3930	
				240
		258	<u>264</u>	240
(4) Total farm receipts (1)&(2)&(3)	<del></del>	19134	29253	1 <b>5</b> 073
FARM EXPENSES				
Dairy cattle bought		218	169	335
Beef cattle bought (incl. feeders)		1353	2635	1384
Hogs bought Sheep bought		193 17	2 <b>4</b> 0 28	265 16
	***************************************	3	11	10
Horses bought Poultry bought (incl. turkeys)		270	672	108
Misc. livestock expense		364	522	<b>2</b> 82
Feed bought		2734	4264	2222
Fertilizer		339	472	318
Misc. livestock expense Feed bought Fertilizer Other crop expense Custome work hired Gas, oil, grease bought (farm share) Rep. for tractors, trucks & attos (farm share Rep. and upkeep of farm real estate Rep. and upkeep of crop & gen. mach. Rep. and upkeep of livestock equip. Wages of hired labor		473 515	572 594	419 484
Gas. oil. grease hought (farm share)		7 <b>4</b> 0	85 <b>7</b>	761
Rep. for tractors, trucks & autos (farm share	e) ——	371	396	431
Rep. and upkeep of farm real estate		371 208	396 279	153
Rep. and upkeep of crop & gen. mach.		274	313	288
Rep. and upkeep of livestock equip. Wages of hired labor		106 390	132 635	103 <b>344</b>
Electricity expense		169	185	162
Electricity expense Pers. prop. & real estate taxes		529	636	533
Telephone and general farm expense	·	190	227	191
(5) Total cash opr. expense		9464	13839	.8799
(6) Mech. power bought (farm share)		661	825	722
(7) Crop and gen. machinery bought		777	1101	507
(8) Livestock equip. bought		94	90	146
(9) New real estate improvements		490	621	557
(10) Total farm purchases (5) to (9)		11486	16476	10731
(11) Decrease in farm capital				223
(12) Interest on farm capital		2545	2905	2605
(13) Unpaid family labor		177	170	292
(14) Board furnished hired labor	**********	69	87	83
(15) Total farm expense (10) to (14)		14277	19638	$1\overline{3934}$
(16) Labor earnings (4) - (15)	************	4857	9615	1139

.

		Average	21 most	21 least
tems	Your	of all	profitable	profitable
	farm	farms	farms	farms
ETURNS AND NET INCREASES				
Dairy cows		\$ 2829	\$ 2409	\$ 2949
Other dairy cattle	******	527	Ψ 5±05 459	382
Beef breeding herd	-	124	28	317
Feeder cattle		1439	3155	909
Hogs	-	<b>4</b> 430	6380	3663
Sheep - farm flock		228	208	432 .
Turkeys	<del></del>	1019	3243	TUK' .
Chickens		647	492	745
All productive livestock		$\frac{047}{11243}$	16374	9397
Value of feed fed to livestock		7149	9865	6189
Return over feed from livestock		4094	6509	3208
Crop, seed, and feed		4094 8701	11934	6613
Income from labor off the farm	•	73	132	83
Agricultural conservation payment	<del></del>	20	15	6
Miscellaneous	3	138	111	179
(1) Total returns & net increase		13026	18701	10089
KFENSES AND NET DECREASES Horses		1	2	
Truck		21 <u>1</u>	332	234
Auto (farm share)	-	319	308	421
Tractor		966	1100	1079
Elec. & gas engine exp. (f. share)		165	199	166
Hired power		226	276	205
Total power		1888	2217	2105
Crop and general machinery		950	1090	<b>9</b> 74
Livestock equipment		101	- 93	249
Buildings, fences and tiling		773	483	1109
Misc. productive lifstock expense		364	522	282
Labor		821	1100	902
Real estate taxes		434	499	431
Personal property tax	4	103	136	102
Insurance		<b>7</b> 2	.70	88
General farm expense		118	157	109
Interest on farm capital		<u> 2545</u>	<u> 2905</u>	2605
(2) Total expenses & met decrease	S	8169	9086	8950
(2) Total expenses & met decrease	~			

<sup>\*</sup> 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. Famil	y Living	from the Farm,	1956	
Items	Your farm	Average of all farms	Your farm	Average of all farms
Adult equivalent - family	· · · · · · · · · · · · · · · · · · ·	3		
Whole milk Skim milk Cream Beef Hogs Lamb and mutton Poultry Eggs Potatoes Vegetables & fruit Farm fuel		778 qts. 18 qts. 6 pts. 513 lbs. 367 lbs. 7 lbs. 71 lbs. 87 doz. 9 bu.		\$ 70 2 69 51 1 14 26 2 13 8
TOTAL				\$ 258

#### 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 \$258 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

Mumber of persons - family	Complete Accounts of These Expenses, 1956						
Jumber of adult equiv family         2.9         3.4         2.5           Pood and meals bought         837         1107         772           Operating and supplies         233         318         234           Jurnishirgs and equipment         262         272         166           Murnishirgs and equipment         256         324         190           Personal care, personal spending         137         214         199           Education, recreation & development         157         111         176           Infifs and special events         85         115         43           Education, recreation & development         157         111         176           Infifs and special events         85         115         43           Education, recreation & development         157         111         176           Infifs and special events         85         115         43           Education, recreation & development         157         111         176           Infifs and special events         85         115         43           Education, recreation & development         157         127         157         127           Infifs and special events         276         2762	Items		of all	profitable	profitable		
Solar of the control of the contro	Number of persons - family	***		4.7			
Departing and supplies   233   318   234     Departing and equipment   262   272   166     Departing and clothing materials   256   324   190     Dersonal care, personal spending   137   214   199     Deducation, recreation & development   157   111   176     Departing and special events   85   115   43     Departic   299   392   261     Departic   269   369   261     Departic   260   369   369   369     Departic   260   369   369   369     Departic   260	Number of adult equiv family		2.9	3,4	2.5		
Departing and supplies   233   318   234     Departing and equipment   262   272   166     Departing and clothing materials   256   324   190     Dersonal care, personal spending   137   214   199     Deducation, recreation & development   157   111   176     Departing and special events   85   115   43     Departic   299   392   261     Departic   269   369   261     Departic   260   369   369   369     Departic   260   369   369   369     Departic   260	Food and meals bought		837	1107	772		
### Pars   Share of new auto   199   101	Operating and supplies	**************************************					
Solution   Solution		<del></del>			166		
137   214   199   187   67   67   199   187   67   67   199   187   67   67   199   187   67   199   187   67   199   187   67   199   188   199   1	Clothing and clothing materials	<del></del>			190		
Education, recreation & development       157       111       176         diffs and special events       85       115       43         dedical care and health insurance       299       392       261         Church, welfare       159       187       67         Cersonal share of auto & truck exp.       122       156       133         Operator's share of upkeep on dwel       114       298       28         Household share of elec. & tel. exp.       91       99       101         Total cash living expense       2752       3593       2370         I.H. & pers. share of new auto       49        22         lew dwelling       49        22         lew dwelling       49        157         Caxes and other deductions       26       51       29         dife insurance       142       126       104         other savings and investments       25       20          Total household& pers. cash exp.       3043       3790       2662         Otal family living from the farm       258       264       240         Total cash exp. & perquisites       3301       4054       2922         Recec	Personal care, personal spending	Name of the last o		214	199		
### ### ### ### ### ### ### ### ### ##	Education, recreation & development	5		111	176		
dedical care and health insurance       299       392       261         Church, welfare       159       187       67         Personal share of auto & truck exp.       122       156       133         Operator's share of upkeep on dwel.       114       298       28         Household share of elec. & tel.exp.       91       99       101         Total cash living expense       2752       3593       2370         L.H. & pers. share of new auto       49        22         Lew dwelling       49        157         Caxes and other deductions       26       51       29         dife insurance       142       126       104         Other savings and investments       25       20          Total household& pers. cash exp.       3043       3790       2682         Otal family living from the farm       258       264       240         Total cash exp. & perquisites       3301       4054       2922         Receipts:       Return to capital & family labor       5585       8447.45       3115         Income from investments       46       28.33       41         Sale of outside investments	Fifts and special events		85	115	43		
Church, welfare 159 187 67 Personal share of auto & truck exp. 122 155 133 Deperator's share of upkeep on dwel 114 298 28 Dousehold share of elec. & tel.exp. 91 99 101 Total cash living expense 2752 3593 2370  I.H. & pers. share of new auto 49 22 Dew dwelling 49 157 Daxes and other deductions 26 51 29 Differ insurance 142 126 104 Dither savings and investments 25 20 Total household pers. cash exp. 3043 3790 2682  Dotal family living from the farm 258 264 240 Dotal cash exp. & perquisites 3301 4054 2922  Deceipts:  Deturn to capital & family labor 5585 8447.45 3115 December from investments 46 28.33 41 Sale of outside investments			299	392	261		
114   298   28	Church, welfare ·	•	159	1,87	67		
114   298   28	Personal share of auto & truck exp.		122	1.56	133		
Journal Coursehold share of elec. & tel.exp.       91       99       101         Total cash living expense       2752       3593       2370         J.H. & pers. share of new auto       49        22         Jew dwelling       49        157         Jaxes and other deductions       26       51       29         Jeft insurance       142       126       104         Jetter savings and investments       25       20          Total household& pers. cash exp.       3043       3790       2682         Jotal family living from the farm       258       264       240         Total cash exp. & perquisites       3301       4054       2922         Jeccipts:       Return to capital & family labor       5585       8447.45       3115         Income from investments       46       28.33       41         Sale of outside investments	Operator's share of upkeep on dwel.		114	298	28		
Total cash living expense   2752   3593   2370     I.H. & pers. share of new auto   49     22     I.E. & pers. share of new auto   49     157     I.E. & pers. share of new auto   49     157     I.E. & pers. share of new auto   49     157     I.E. & pers. share of new auto   49     157     I.E. & pers. share of new auto   49     22     I.E. & pers. share of new auto   49     20     I.E. & pers. share of new auto   49     20     I.E. & pers. share of new auto   49     20     I.E. & pers. share of new auto   49     20     I.E. & pers. share of new auto   49     20     I.E. & pers. share of new auto   49     20     I.E. & pers. share of new auto   40     I.E. & pers. share of new auto   40       I.E. & pers. sha	Household share of elec. & tel.exp.	<del></del>	91	99_	_101_		
Tew dwelling       49        157         Caxes and other deductions       26       51       29         dife insurance       142       126       104         Other savings and investments       25       20          Total household& pers. cash exp.       3043       3790       2682         Cotal family living from the farm       258       264       240         Total cash exp. & perquisites       3301       4054       2922         Receipts:       Peturn to capital & family labor       5585       8447.45       3115         Income from investments       46       28.33       41         Sale of outside investments	Total cash living expense		Contract the contraction	3593	2370		
Tew dwelling       49        157         Caxes and other deductions       26       51       29         dife insurance       142       126       104         Other savings and investments       25       20          Total household& pers. cash exp.       3043       3790       2682         Cotal family living from the farm       258       264       240         Total cash exp. & perquisites       3301       4054       2922         Receipts:       Peturn to capital & family labor       5585       8447.45       3115         Income from investments       46       28.33       41         Sale of outside investments	H.H. & pers. share of new auto		49	per ent and	22		
dife insurance       142       126       104         Other savings and investments       25       20       ——         Total household& pers. cash exp.       3043       3790       2682         Cotal family living from the farm       258       264       240         Total cash exp. & perquisites       3301       4054       2922         Receipts:       Return to capital & family labor       5585       8447.45       3115         Income from investments       46       28.33       41         Sale of outside investments       ——       ——	New dwelling		49		157		
Other savings and investments       25       20       ————————————————————————————————————			26	51	29		
Total household& pers. cash exp.       3043       3790       2682         Potal family living from the farm       258       264       240         Total cash exp. & perquisites       3301       4054       2922         Receipts:       Peturn to capital & family labor       5585       8447.45       3115         Income from investments       46       28.33       41         Sale of outside investments			142	126	104		
Total household& pers. cash exp.       3043       3790       2682         Potal family living from the farm       258       264       240         Total cash exp. & perquisites       3301       4054       2922         Receipts:       Peturn to capital & family labor       5585       8447.45       3115         Income from investments       46       28.33       41         Sale of outside investments	Other savings and investments		25	20			
Total cash exp. & perquisites 3301 4054 2922  Receipts:  Return to capital & family labor 5585 8447.45 3115  Income from investments 46 28.33 41  Sale of outside investments	Total household& pers. cash exp.		3043	3790	2682		
Total cash exp. & perquisites 3301 4054 2922  Receipts:  Return to capital & family labor 5585 8447.45 3115  Income from investments 46 28.33 41  Sale of outside investments	Total family living from the farm		258	264_	240		
Return to capital & family labor 5585 8447.45 3115 Income from investments 46 28.33 41 Sale of outside investments	Total cash exp. & perquisites	·	3301	4054	2922		
Income from investments 46 28.33 41 Sale of outside investments	Receipts:						
Income from investments 46 28.33 41 Sale of outside investments	Return to capital & family labor		5585	8447.45	3115		
	Income from investments		46				
			220				

#### 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 Warth Statement for Those Farmers Who Kept A Complete Record of All Assets and Liabilities, 1956 (Operator's Share, Tenure Basis)

of All Assets and Liab	bilities,	1956 (Cper			Basis)
Items		<u> Farm</u>	Strandon-Spring province 77 c	Owners	i
		Dec. 31	Jan, l	Dec. 31	
Total Farm Capital (1)	\$	\$		\$ 50817	
Stocks and Bonds	<u> </u>	named and the second	350	278	
Life Insurance		***************************************	977	1218	
Notes and accounts receival	ble		109	109	
Shares in Marketing	d columnia de la columnia del columnia del columnia de la columnia del columnia del columnia de la columnia de la columnia del columnia	-	84	63	
Outside real estate			203	203	
Cash on Hand & in bank	-		1034	1243	
Household goods			1818	1926	•
Pers. share of Auto			412	479	•
Farm Dwelling			4241	41 34	
Miscellaneous ,	***************************************		4	<b>1</b> .59	
Total Non-farm Assets (2)	·		9232	9812	
TOTAL ASSETS $(1)&(2) = (3)$			57406	60629	
Fed. Land Bank mortgages	· · · · · · · · · · · · · · · · · · ·		227	220	
F.H.A. Real Estate Mortgage	9.9		8491	8554	
Other Mortgages			1238	1223	
Loans on Real Estate	· · · · · · · · · · · · · · · · · · ·	**************************************	388	373	
Production Credit Assoc.loa	ne		163	91	
F.H.A. Chattel Mortgages		Transport Control of the State	309	254	
Other Chattel Mortgages		<del></del>	417	683	
Crop Loans (sealed)			934	463	
Notes Payable	***************************************		2690	2676	
Accounts Payable .			300	744_	
Total Liabilities (4)		<del></del>	15156	15281:	•
FARMER'S NET WORTH = (3)-(4)	L-	-	42250	45348	
Change in Net Worth		<del></del>	422UU	3098	
I tems	a Pan	t.Owners	24	Renters	
	Jan. 1			1 Dec.	
Total Farm Capital (1)	\$ 29595	\$ 30663	\$ 12930	\$ 13637	
Stocks and Bonds	578	629	261	848	
Life Insurance	1529	1666	276	306	
Notes and accounts receivab					
Shares in Marketing					
	: 92	292	34	43	
Outside real estate	292	292	34	43 <sup>-</sup> 3	
Outside real estate Cash on Hand & in hank	-			3	
Cash on Hand & in bank	638	603	619	3 390	
Cash on Hand & in bank Household goods	638 812	603 956	619 1901	3 390 1965	
Cash on Hand & in bank Household goods Pers. share of Auto	638 812 422	603 956 409	619 1901 435	3 390 1965 424	
Cash on Hand & in bank Household goods Pers. share of Auto Farm Dwelling	638 812 422 2861	603 956 409 2704	619 1901 435 132	390 390 1965 424 129	
Cash on Hand & in bank Household goods Pers. share of Auto Farm Dwelling Miscellaneous	638 812 422 2861 38	603 956 409 2704 36	619 1901 435 132 140	390 1965 424 129	
Cash on Hand & in bank Household goods Pers. share of Auto Farm Dwelling Miscellaneous Total Non-farm Assets (2)	638 812 422 2861 38 7170	603 956 409 2704 <u>36</u> 7295	619 1901 435 132 <u>140</u> 3798	390 1965 424 129 ==== 4108	
Cash on Hand & in bank Household goods Pers. share of Auto Farm Dwelling Miscellaneous Total Non-farm Assets (2) TOTAL ASSETS (1) & (2) = (3)	638 812 422 2861 38	603 956 409 2704 36	619 1901 435 132 140	390 1965 424 129	
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	638 812 422 2861 38 7170 36765	603 956 409 2704 36 7295 37958	619 1901 435 132 <u>140</u> 3798	390 1965 424 129 ==== 4108	
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 Mortga	638 812 422 2861 38 7170 36765	603 956 409 2704 	619 1901 435 132 <u>140</u> 3798	390 1965 424 129 ==== 4108	
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 Mortga Other Mortgages	638 812 422 2861 	603 956 409 2704 36 7295 37958  5558 825	619 1901 435 132 <u>140</u> 3798	390 1965 424 129 ==== 4108	
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 Mortga Other Mortgages Loans on Real Estate	638 812 422 2861 38 7170 36765  ges 5748 750	603 956 409 2704 	619 1901 435 132 140 3798 16728	390 1965 424 129  4108 17745	
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 Mortga Other Mortgages Loans on Real Estate Production Credit Assoc. loa	638 812 422 2861 38 7170 36765  ges 5748 750	603 956 409 2704 36 7295 37958  5558 825	619 1901 435 132 140 3798 16728 113	390 1965 424 129 4108 17745	
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 Mortga Other Mortgages Loans on Real Estate Production Credit Assoc. loa F. H. A. Chattel Mortgages	638 812 422 2861 38 7170 36765  ges 5748 750	603 956 409 2704 36 7295 37958 5558 825	619 1901 435 132 140 3798 16728 113 251	390 1965 424 129  4108 17745  152 108	
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 Mortga Other Mortgages Loans on Real Estate Production Credit Assoc. loa F.H.A. Chattel Mortgages Other Chattel Mortgages	638 812 422 2861 38 7170 36765  ges 5748 750  ns	603 956 409 2704 36 7295 37958  5558 825  600	619 1901 435 132 140 3798 16728 113 251 1337	390 1965 424 129  4108 17745  152 108 1337	
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 Mortga Other Mortgages Loans on Real Estate Production Credit Assoc. loa F.H.A. Chattel Mortgages Other Chattel Mortgages Crop Loans (sealed)	638 812 422 2861 38 7170 36765  ges 5748 750  ns 1435	603 956 409 2704 36 7295 37958  5558 825  600 54	619 1901 435 132 140 3798 16728 113 251 1337	390 1965 424 129 4108 17745  152 108 1337 41	
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 Mortga 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	638 812 422 2861 38 7170 36765  ges 5748 750  ns 1435 36 1482	603 956 409 2704 36 7295 37958  5558 825  600 54 1543	619 1901 435 132 140 3798 16728 113 251 1337 614	390 1965 424 129 4108 17745  152 108 1337 41 719	
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 Mortga 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)	638 812 422 2861 38 7170 36765  ges 5748 750  ns 1435 36 1482 253	603 956 409 2704 36 7295 37958  5558 825  600 54 1543 660	619 1901 435 132 140 3798 16728 113 251 1337 614 277	390 1965 424 129  4108 17745  152 108 1337 41 719 290	
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 Mortga 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	638 812 422 2861 38 7170 36765  ges 5748 750  ns 1435 36 1482	603 956 409 2704 36 7295 37958  5558 825  600 54 1543	619 1901 435 132 140 3798 16728 113 251 1337 614	390 1965 424 129 4108 17745  152 108 1337 41 719	

#### 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 30 per cent of the range according to earnings was \$9615 and of those in the lower 30 per cent was \$1139. This is a range of \$6476 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:

- L. 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/

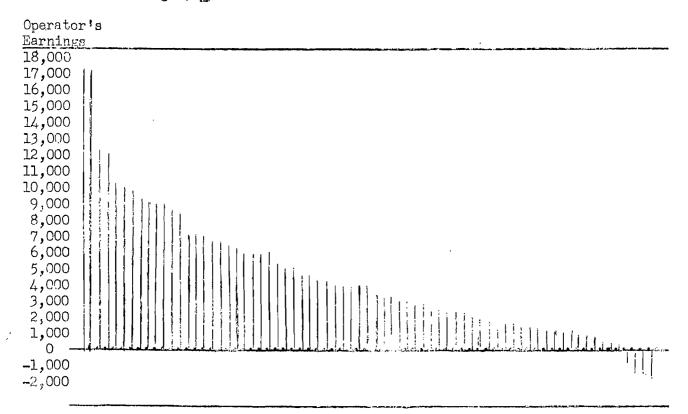


Fig. 1. - Range in Operator's Earnings
Each line represents the Darnings of 1 farmer.

See Pond, G.A. "Why Farm Earnings Vary." Minn, Agri. Expt. Stal. 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 Organizati	on and Mana		
Measures used in chart on page 11	Your farm	Average of 211 farms		21 least profitable farms
Labor earnings	Management of the Control of the Con	\$4857	\$9615	\$1139
(1) Crop yields*	<u> </u>	100	102	98
(2) Per cent tillable lan return crops**	nd in high	607	64.8	52
3) Return for \$100 feed livestock***	to prod.	100	107	96
4) Prod. livestock units	per 100 #** <u>**</u>	28,9	30,2	29.2
5) Size of business - wo	rk units	365	447	349
(6) Work units per worker	·	272	302	236
(7) Power, Mach., equip., exp. per work unit	& build.	10,96	8,77	13.34
tems related to some of t  3) Index of ret. for \$10		s:		
3) Index of ret. for \$10 Dairy cattle (see p.16		100	121	85
Beef breeding herd (se		100	### ##	
Feeder cattle (see pag	ge 18)	100		arm graph fields
Hogs (see page 15)		100	1.35	74
Sheep - farm flock (se		100	proc date milit	
Chickens (see page 20)		100	130	70
Turkeys (see page 21)		100	~~~	49.7
4) Number of animal unit	·S	54.9	74.2	
5) Work units on crops	No the same of the	109	125	98
Work units on prod. 1	ivstock	238 18	294 28	228 23
Work units from other				
6) Number of family work Number of hired worke	ers	1.2	1.2	1.3
total number of workers		1.4	<u>.3</u> 1.5	<u>.2</u> 1.5
7) Power expense per wor	er unit	\$5.79	\$5.64	\$6.62
Crop mach. exp. per w	k unit	φυ. 19 2.75	2.49	3.06
Livestock equip. exp.	per work	.24	54	. 67
Bldgs. & fences exp. pe		2.18	1.18	2.99

Given as percentage of the average.

Crops are marked in table 9 as A, B. C. and D. All of acres in Acrops, 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.

<sup>\*\*\*\*</sup> Acres in timber not pastured, roads, waste and farmstead were not included.

## THERMOMETER CHAFT

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

Labor Earnings	Crop Yields	High Return Crops		Prod. L.S. .Units per 100 Acres	· Work	Work Units per Worker	Pow., Mach. Eqt., Bldg. Exp. per
18,500  -	140  -	84.5  -	180 -	68.9	1750  -	650 -	Work Unit
17,000	135	81.5	170	63.9	700	600	4
15,500.	130	78.5	160	58.9	650	550	5
13,000	125	75.5	150	53.9 E	600 E	500	6
11,500	120	72.5	140	1,8.9 E	550	450	7
10,000	115	69.5	130	43.9	500	400	8
8,500	110 =	66.5	120	38.9	450	350	9 [
7,000	1.05	63.5	110	33.9	400	300	10
5,500 <del>-</del> 4,857 =	100	60.5	100	28.9	350	250	11
4,000	95	57.5	90	23.9	300	200	12
2,500	90 =	54.5	80	18.9	250	150	13
1,000	85	51.5	70	13.9	200	100	14
-500 E	80   -	48.5	60	8.9	150	50	15
-2,000 =	75	45.5	50	3.9	100	0	16
-3,500 =	70	42.5	40	11111	50 F		16
-5,000	65	39.5	30	<u> </u>	50		18
-6,500	60/=	36.5 E	20 E				19

	STRIBUTI		Acres	Average		Average of
Crop	Crop rating	Number growing	your farm	acres of all farms		farms growing each crop
Canning peas	A	9		2.3	stavelisassinskrideretsk	\$32 <b>.7</b> 1
Flax Barley	B D	11 1		3,2 .1		8.9 bu. 39.0 bu.
Barley and oats	D	ı		• 1. • 4		25.0 bu.
Wheat	Ď	13		1.1	*	22.6 bu.
Oats	D	62		24.1	***************************************	45.0 bu.
Rye	D	3		. 3		31.6 bu.
Total small grain	and peas			31.5		
Seed corn	A	1		.9		77.2 bu.
Soybeans (grain)	В	50		31.2	Second newsday to stall	25.6 bu.
Corn (grain)	A	70		63.6		70.1 bu.
Sweet corn	В	3	trappine to a scrap	.8		6 Tons
Corn silage	C	31	b	3.8	the state of the s	ll Tons
Total cultivated c	rops			100.3		
Alfalfa hay	3	64		18.9		3.3 Tons
Brome or tim. hay	D	1		.1		1.8 Tons
Other hay	D	3		.3		.7 Tons
Alfalfa silage	A	2		. 7		8.1 Tons
Oat silage Oat & pea silage	B A	2 13		2.6 .2		5.5 Tons 3.8 Tons
Total tillable lan				22.8	-	
and/or grass	sitage	*				
Alfalfa pasture	A	23		2.8		
Other legume pasture	C	1		. 1		
Sudan or rape pasture	C	6		.8		
Other tillable pasture	D	19		3.0		
Total tillable land	d in pas	ture		6.7		
Soil Bank	A	17		2.4		\$ 37.57
Tillable land not cropp	ed D	4	P-0	. 3		
Total tillable land	d			164.0		
Wild hay		21		2.0		
Non-tillable pasture		46	Programme and the	17.2		
Timber	******	8		2.5		
Roads and waste		59		8.6		
Farmstead	*****	68		7.2		
Total acres in far	m			201.5		
Percent land tillable		aanaamiithyssiinaa yorgi thei tit distantaa ( og yas tiheli sas			81	jo

#### 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

I tem	No of Work Units	I tem	No of Work Units
Dairy Cattle Other dairy cattle	10.0 per cow 3.5 per an.unit*	Small Grain Corn husked	.5 per A7 per A.
Beef Breeding herd Feeder cattle Sheep - farm flock	3.5 per an.unit* .25 per 100 lbs, 1.5 per an.unit*	Corn silage Sweet corn Alfalfa hay	1.0 per A. .7 per A. .6 per A.
Sheep - feeders Hogs	.3 per 100 lbs.	O. Hay crops Alfalfa Sil.	.4 per A4 per A.
Hens Turkeys	20.0 per 100 hens .5 per 100 lbs.	O. Grass Sil. Soybean grain	-

<sup>\*</sup> One animal unit represents one dairy cow or bull, two other dairy cattle, 1 1/4 beef cows or bull, 1 feeder steer or heifer, 3 1/3 other beef cattle, 7 sheep, 14 lambs, 2 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 lewest cost for power, machinery and labor combined.

Table 10. Power and	d Machinery	Expenses Pe	r Crop Acre,	1956
	Your	Ave. of	21 most	21 least
<u> Items</u>	farm	all farms	profitable	profitable
Crop acres per farm		152	1.85	1.30
Tractor expense per crop acre Crop & gen. mach. exp.per crop a	cre	\$ 6.67 6.59	\$ 6.06 5.87	\$ 8.35 8.19

#### AMOUNT OF LIVESTOCK

The farmers cooperating in this study are predominantly livestock farmers. 70% of these farmers maintained dairy cattle, 62% kept poultry, 24% raised sheep, 32% kept beef cattle and 90% raised hogs.

Table 11. Amour	at of Li	vestock,	1956	
Items	Your farm	Ave. of all farms	21 most profitable	21 least profitable
Number of milk cows Number of other dairy catile Number of beef cattle (inc. feede Number of ewes Number of hens Pounds of hogs produced	ers )	9.8 9.7 12.1 12.9 147.0 24,642.0	8.7 8.4 21.2 8.0 162.0 32,015.0	10.4 8.4 11.0 29.1 165.0 23,023.0

### 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	Ent	erprises	, 19	56
									Cattle			Beef	
						Cows		Oth	ner	All	Bree	ding	Herd
	retur						_						
	feed return		feed	•			- 					·	<del>-</del>
		***************************************				Feede				Far	m Flock		
				— <del>—</del> ——		Catt]	Le	Нов	gs.	of	Sheep	Chicl	rens
	retur												,
	feed (						-		<del></del>				
Total	retur	n over	feed										<del></del>

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 21% of the total farm sales. 39% of the returns from productive livestock was from hogs. Table 14 below summarizes the results of the hog enterprise analysis.

Table 14. Feed Costs a	nd Returns from H		2.4.6
	Average	14 farms	14 farms
	of all	highest in	
	farms	returns	returns
T 4 a	Your raising	above	above
Items	farm hogs	feed	feed
eed per cwt. hogs produced, lbs.: Corn	289,4	244.2	330.9
Small grain		67.8	108.8
Commercial feeds	84.7 43.9	32.0	60.3
Total concentrates	43.9	344.0	500.0
Total Concentrates	410.0	3 <del>44</del> . U	500.0
Skim milk, buttermilk & whey	75.0		234.8
Alfalfa hay	12.7	6.9	23.4
eed cost per cwt. hogs produced:	h	<b>.</b>	<b>4.35.50</b>
Concentrates	\$\$ 10.64	\$ 8.52	\$ 13.30
Skim milk, buttermilk and whey	03	0,5	.08
Pasture	.07	.05	.09
Alfalfa hay	.11	.07	.18
TOTAL FEED COSTS	\$\$ 10.85	\$ 8.64	\$ 13.65
et increase in value per cwt. hogs	\$\$16.18	\$ 17.18	\$ 15.73
prod.	***************************************		
TURNS ABOVE FEED COST PER CWT.			
HOGS PRODUCED	\$\$ 5.33	\$ 8.54	\$ 2.08
TURNS FOR \$100 OF FEED	\$ \$157.00	\$201.00	\$117.00
•	1	•	•
rice received per cwt. hogs sold	\$\$ 14.09	\$ 14.75	\$ 13.73
o. of spring litters raised	12.0	10.6	10.0
of fall litters raised	7.0	5.1	6.0
Total no. of litters raised	19.0	15.7	16.0
. of pigs born per litter	8.7	9.3	8,6
o. of pigs weaned per litter	7.0	7.7	6 <b>.</b> 1
• or krea noution has tranes.	7.0	( . (	0.1
unds of hogs produced	32311	27401	27327
Or #			

#### 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 \$12.65 to \$415.08 among the 34 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)

Table 14. Factors of	Cost ar	d Returns	from Dairy	
Items	Your farm	Average of 34 farms	10 farms highest in butterfat per cow	
Pounds of butterfat per cow Price rec. per lb. B.F. sold (cts.)		304.2 .87	378.7 .90	229.5 .85
Feed per cow, lbs.: Corn Small grain Commercial feed	deviation of the second	1801.0 715.5 307.8	1818.7 702.7 362.5	1032.1 522.5 249.0
Legume hay Other hay		4910.3 121.4	5023 <b>,</b> 4 7, 3	4240.3 290.5
Total concentrates Total dry roughages Silage		2824.3 4931.7 6403.2	2883.9 5030.7 7863.7	1803.6 4530.8 5759.2
Feed cost per cow: Concentrates Roughages Pasture TOTAL FEED COSTS		\$ 69.11 65.86 9.88 \$ 144.85	68.10 10.74	\$ 44.84 56.88 10.53 \$ 112.25
Value of produce per cow:  B.F. sales  Dairy produce used in house  Milk fed to livestock  Net increases in value of cows  TOTAL VALUE PRODUCED  RETURNS ABOVE FEED COST PER COW  RETURNS FOR \$100 OF FEED		\$ 260.41 6.01 5.86 7.95 \$ 280.23 \$ 135.38 \$ 196.00	5.36 14.47 7.93 \$ 352.27 \$ 200.02	\$ 1.98.99 5.38 1.98 - 4.89 \$ 201.46 \$ 89.21 \$ 181.00
Feed cost per lb, B.F. (cents) Number of cows		.49 16.5	.40 18.3	.50 16.2

Table 15. Food Costs and	ue carara	from Other	Dairy Cattle	, 1956
tems .	Your	Average of 34	10 farms highest in butterfat	10 forms lowest in butterfat
	farm	farms	per cow	per cow
eed per head, lbs.:				
Concentagates		660.9	38 <b>6.3</b>	€44.8
Hay and fodder		2223.1	2003.5	2989.2
Silage		2903.2	3208.9	3574.5
Whole milk		160.5	401.1	62.0
eed cost per head:				<b>4.36.04</b>
Concentrates	محيود والمحيود وا	\$ 16.74	\$ 17.56	\$ 16.84
Foughages		26.87	27,27	32.66
Milk	****	5.02	12.73	1.84
Pasture	L	2.52	2.91	2.76
OTAL FEED COSTS FER HEAD		\$ 51.15	\$ 60.47	\$ 54.10
et inc. in value of other cattle	by an a transferred popular of the	\$ 51.22	\$ 65.57	\$ 34.92
ETURNS ABOVE FEED COST PER HEAD	**************************************	\$ .07	\$ 5.11	\$-19.18
ETURNS FOR \$100 OF FEED	-	\$129.00	\$110.00	\$103.00
umber of head of other cattle	and amount of	15.6	19.74	10.71
Table 16. Feed Costs and	d Returns	s from ell	Dairy Cattle,	1959
Table 16. Feed Costs and	d Returns		10 farms	10 ferms
		Average	10 farms highest in	10 ferms lowest in
<u>Table 16.</u> Feed Costs and tems	Your	Average of 34	10 farms highest in butterfat	10 farms lowest in butterfat
		Average	10 farms highest in	10 ferms lowest in
tems	Your	Average of 34	10 farms highest in butterfat	10 farms lowest in butterfat
tems eed per animal unit, lbs.:	Your	Average of 34 farms	10 farms highest in butterfat	10 farms lowest in butterfat per cow
tems  eed per animal unit, lbs.: Concentrates	Your	Average of 34 farms	10 farms highest in butterfat per cow	lO farms lowest in butterfat per cow  2017.6 4716.0
eed per animal unit, lbs.: Concentrates Hay and fodder	Your	Average of 34 farms 2251.6 4360.9	10 farms highest in butterfat per cow  1755.8 3645.0	lG farms lowest in butterfat per cow
tems  eed per animal unit, lbs.: Concentrates Hay and fodder Silage	Your	Average of 34 farms  2251.6 4360.9 5612.3	10 farms highest in butterfat per cow  1755.8 3645.0 5847,2	lG farms lowest in butterfat per cow  2017.6 4716.0 5772.7
eed per animal unit, lbs.: Concentrates Hay and fodder	Your	Average of 34 farms 2251.6 4360.9	10 farms highest in butterfat per cow  1755.8 3645.0	lo farms lowest in butterfat per cow  2017.6 4716.0
eed per animal unit, lbs.: Concentrates Hay and fodder Silage OTAL FEED COSTS PER ANIMAL UNIT	Your	Average of 34 farms  2251.6 4360.9 5612.3 \$ 119.55	10 farms highest in butterfat per cow  1755.8 3645.0 5847.2 \$ 107.51	10 farms lowest in butterfat per cow  2017.6 4716.0 5772.7 \$ 110.14
eed per animal unit, lbs.: Concentrates Hay and fodder Silage OTAL FEED COSTS PER ANIMAL UNIT alue of produce per animal unit: Dairy products	Your	Average of 34 farms  2251.6 4360.9 5612.3 \$ 119.55	10 farms highest in butterfat per cow  1755.8 3645.0 5847.2 \$ 107.51	10 farms lowest in butterfat per cow  2017.6 4716.0 5772.7 \$ 110.14
eed per animal unit, lbs.: Concentrates Hay and fodder Silage OTAL FEED COSTS PER ANIMAL UNIT	Your	Average of 34 farms  2251.6 4360.9 5612.3 \$ 119.55	10 farms highest in butterfat per cow  1755.8 3645.0 5847.2 \$ 107.51	lO farms lowest in butterfat per cow  2017.6 4716.0 5772.7 \$ 110.14
eed per animal unit, lbs.: Concentrates Hay and fodder Silage OTAL FEED COSTS PER ANIMAL UNIT alue of produce per animal unit: Dairy products Net inc. in val. of dairy cata	Your farm	Average of 34 farms  2251.6 4360.9 5612.3 \$ 119.55	10 farms highest in butterfat per cow  1755.8 3645.0 5847.2 \$ 107.51  \$ 185.79 37.82	10 farms lowest in butterfat per cow  2017.6 4716.0 5772.7 \$ 110.14
eed per animal unit, lbs.: Concentrates Hay and fodder Silage OTAL FEED COSTS PER ANIMAL UNIT alue of produce per animal unit: Dairy products Net inc. in val. of dairy cate TOTAL VALUE PRODUCED	Your farm	Average of 34 farms  2251.6 4360.9 5612.3 \$ 119.55  \$ 174.26 33.33 \$ 207.59 \$ 88.04	10 farms highest in butterfat per cow  1755.8 3645.0 5847.2 \$ 107.51  \$ 185.79 37.82 \$ 223.61 \$ 116.10	10 farms lowest in butterfat per cow  2017.6 4716.0 5772.7 \$ 110.14  \$ 154.53 14.02 \$ 168.55 \$ 58.41
eed per animal unit, lbs.: Concentrates Hay and fodder Silage OTAL FEED COSTS PER ANIMAL UNIT alue of produce per animal unit: Dairy products Net inc. in val. of dairy cata TOTAL VALUE PRODUCED	Your farm	Average of 34 farms  2251.6 4360.9 5612.3 \$ 119.55  \$ 174.26 33,33 \$ 207.59	10 farms highest in butterfat per cow  1755.8 3645.0 5847.2 \$ 107.51  \$ 185.79 37.82 \$ 223.61	10 farms lowest in butterfat per cow  2017.6 4716.0 5772.7 \$ 110.14  \$ 154.53

Table 17. Feed Costs and Return	s from Beef Cattle	, 1956
Items	Your	Average of all farms
Beef breeding herd: No. of farms	A CONTRACTOR OF THE PROPERTY O	8
Feeds per animal unit, lbs.:		
Concentrates		854.9
Legume		2555.6
Other hay	**************************************	s was passed from Street
Fodder and stover Silage	Bear of the Control o	COMO - O
Feed Cost per animal unit:	the state of the same	6072.0
Concentrates	¢	\$ 23.79
Roughages	Ψ	35.84
Pasture	فيعطينه مبصينيين	8.18
TOTAL FEED COST	\$	\$ 67.81
Value of produce per animal unit		
Dairy products	\$	\$ .55
Net increase in value of animal	A	70.91
TOTAL VALUE PRODUCED	\$	\$ 71.46
RETURNS ABOVE FEED COST PER ANIMAL UNITS	\$	\$ 3.65
RETURNS FOR \$100 OF FEED	\$	\$107.00
Number of cows and herd bulls		21.4
Number of animal units in the herd	10 to	25.9
Feeder Cattle: No. of farms		24
Feeds per cwt. beef produced, lbs.:	موده مودوده المودود و المودود	
Corn		474.3
Small grain	Paralles or the sales of the sa	53.3
Commercial feeds	Name of the last o	43.0
Legume hay		221.4
Other hay		55.6
Fodder and stover	***************************************	man and deep tops and
Total concentrates	-	570.6
Total hay and fodder	b-4	277.0
Silage		184.7
Feed cost per cwt. beef produced Concentrates	ф	φ <b>1</b> 7 <b>5</b> 0
Roughages	\$	\$ 13.59 3.03
Pasture	· · · · · · · · · · · · · · · · · · ·	<u>. 54</u>
TOTAL FEED COSTS	\$	\$ 17.16
Net increase in value of feeders	\$	\$ 27.52
RETURNS ABOVE FEED COST PER CVT. BEEF PROD.	\$	\$ 10.36
RETURNS FOR \$100 OF FRED	\$	\$178.00
Price paid per cwt. beef bot.	\$	\$ 17.68
Price red'd. for feeder cattlesold	\$	\$ 21.24
Number of animal units		33.9
Pounds of beef produced	F-10-10-1	18589.6

Average of 16   farm   farms	Table 18. Feed Costs and Returns from	Farm Flock	of Sheep, 1956
### Feeds per head, *lbs.    Concentrates	Items	Your	
Concentrates		farm	farms
Legume hay 0ther hay 118.9 118.9 118.9 159.4 Feed cost per head:  Concentrates \$ 2.98 Roughages 5.03 Pasture 1.65 TOTAL FEED COSTS \$ 9.66 Value of produce per head:  Wool \$ 4.01 Value of Mutton 15.62 TOTAL VALUE PRODUCED \$ 19.63  RETURNS ABOVE FEED COST PER HEAD \$ 9.97  RETURNS FOR \$100 OF FEED \$ \$235.00  Price per cwt. of lambs sold \$ 18.62  Price per 1b. wool sold (cts.) \$ 5.66  Pounds of wool per sheep sheared 9.2  Number of ewes kept for lambing 40.7  Per cent lamb crop** 113.1  Per cent death loss** 4.2  Pounds of sheep produced 3913.6	Feeds per head, *lbs.		
Other hay Silage Silage Feed cost por head: Concentrates Roughages Pasture  TOTAL FEED COSTS  TOTAL FEED COSTS  Value of produce per head: Wool Value of Mutton TOTAL VALUE PRODUCED  RETURNS ABOVE FEED COST PER HEAD  RETURNS FOR \$100 OF FEED  Price per cwt. of lambs sold Price per lb. wool sold (cts.) Pounds of wool per sheep sheared  Number of ewes kept for lambing Per cent lamb crop** Per cent death loss**  118.9 159.4  \$ 2.98  \$ 4.03  \$ 9.66  \$ 4.01  \$ 4.01  \$ 15.62  \$ 19.63  \$ 19.63  \$ 19.63  \$ 19.97  \$ 235.00  \$ 18.62  \$ 18.62  \$ 18.62  \$ 13.1  \$ 13.1  \$ 13.1  \$ 13.1  \$ 13.1  \$ 13.1  \$ 13.1  \$ 13.1  \$ 13.6	Concentrates		117.7
Silage	Legume hay		502.0
Feed cost per head:   Concentrates	Other hay		118.9
Concentrates Roughages Pasture TOTAL FEED COSTS \$ \$ 9.66  Value of produce per head: Wool Value of Mutton TOTAL VALUE PRODUCED  RETURNS ABOVE FEED COST PER HEAD  RETURNS FOR \$100 OF FEED \$ \$235.00  Price per cwt. of lambs sold Price per lb. wool sold (cts.) Pounds of wool per sheep sheared  Number of ewes kept for lambing Per cent lamb crop** Per cent death loss**  Pounds of sheep produced  \$ 2.98  \$ 5.03  \$ 4.01  15.62  \$ 19.63  \$ 9.97  RETURNS FOR \$100 OF FEED \$ \$235.00  Price per cwt. of lambs sold \$ \$ 18.62  Price per lb. wool sold (cts.) \$ 5.56  Pounds of sheep sheared  9.2  Pounds of sheep produced  3913.6	Silage		15 <b>9.4</b>
Roughages   5.03   1.65     1.65	Feed cost per head:		
Pasture	Concentrates	\$	\$ 2.98
TOTAL FEED COSTS \$ \$ 9.66  Value of produce per head:  Wool Value of Mutton TOTAL VALUE PRODUCED \$ 19.63  RETURNS ABOVE FEED COST PER HEAD \$ 9.97  RETURNS FOR \$100 OF FEED \$ \$235.00  Price per cwt. of lambs sold \$ 18.62  Price per lb. wool sold (cts.) \$ 56  Pounds of wool per sheep sheared 9.2  Number of ewes kept for lambing 40.7  Per cent lamb crop** Per cent death loss**  Pounds of sheep produced 3913.6	Roughages		5.03
Value of produce per head:       \$ 4.01         Wool       \$ 15.62         TOTAL VALUE PRODUCED       \$ 19.63         RETURNS ABOVE FEED COST PER HEAD       \$ 9.97         RETURNS FOR \$100 OF FEED       \$ 235.00         Price per cwt. of lambs sold       \$ 18.62         Price per lb. wool sold (cts.)       \$ .56         Pounds of wool per sheep sheared       9.2         Number of ewes kept for lambing       40.7         Per cent lamb crop**       113.1         Per cent death loss**       4.2         Pounds of sheep produced       3913.6	Pasture		
Wool   Yalue of Mutton   15.62     TOTAL VALUE PRODUCED   \$   19.63	TOTAL FEED COSTS	\$	\$ 9.66
Value of Mutton       15.62         TOTAL VALUE PRODUCED       \$ 19.63         RETURNS ABOVE FEED COST PER HEAD       \$ 9.97         RETURNS FOR \$100 OF FEED       \$ 235.00         Price per cwt. of lambs sold       \$ 18.62         Price per lb. wool sold (cts.)       \$ .56         Pounds of wool per sheep sheared       9.2         Number of ewes kept for lambing       40.7         Per cent lamb crop**       113.1         Per cent death loss**       4.2         Pounds of sheep produced       3913.6	Value of produce per head:		
TOTAL VALUE PRODUCED \$ \$ 19.63  RETURNS ABOVE FEED COST PER HEAD \$ 9.97  RETURNS FOR \$100 OF FEED \$ \$235.00  Price per cwt. of lambs sold \$ 18.62  Price per lb. wool sold (cts.) \$ .56  Pounds of wool per sheep sheared 9.2  Number of ewes kept for lambing 40.7  Per cent lamb crop** 113.1  Per cent death loss** 4.2  Pounds of sheep produced 3913.6	Wool	\$	\$ 4.0 <b>1</b>
RETURNS ABOVE FEED COST PER HEAD  \$ 9.97  RETURNS FOR \$100 OF FEED  \$ \$235.00  Price per cwt. of lambs sold  \$ \$ 18.62  Price per lb. wool sold (cts.)  \$ 5.56  Pounds of wool per sheep sheared  Number of ewes kept for lambing  Per cent lamb crop**  Per cent death loss**  Pounds of sheep produced  \$ 9.97  \$ 40.7  113.1  Per cent death loss**	Value of Mutton		
RETURNS FOR \$100 OF FEED  \$ \$235.00  Price per cwt. of lambs sold \$ \$18.62  Price per lb. wool sold (cts.) \$ \$.56  Pounds of wool per sheep sheared  Number of ewes kept for lambing Per cent lamb crop** Per cent death loss**  Pounds of sheep produced  \$ \$235.00  \$ 18.62  \$ 18.62  \$ .56  Pounds of ewes kept for lambing 40.7  Per cent lamb crop** 113.1  Per cent death loss**	TOTAL VALUE PRODUCED	\$	\$ 19.63
Price per cwt. of lambs sold Price per lb. wool sold (cts.) Pounds of wool per sheep sheared  Number of ewes kept for lambing Per cent lamb crop** Per cent death loss**  Pounds of sheep produced  \$ 18.62 \$ .56  9.2  10.7  113.1  20.7	RETURNS ABOVE FEED COST PER HEAD	\$	\$ 9.97
Price per 1b. wool sold (cts.)  Pounds of wool per sheep sheared  Number of ewes kept for lambing  Per cent lamb crop**  Per cent death loss**  Pounds of sheep produced  \$ .56  9.2  40.7  113.1  Per cent death loss**  3913.6	RETURNS FOR \$100 OF FEED	\$	\$235.00
Price per 1b. wool sold (cts.)  Pounds of wool per sheep sheared  Number of ewes kept for lambing  Per cent lamb crop**  Per cent death loss**  Pounds of sheep produced  \$ .56  9.2  40.7  113.1  Per cent death loss**  3913.6	Price per cwt. of lambs sold	\$	\$ 18.62
Pounds of wool per sheep sheared  9.2  Number of ewes kept for lambing Per cent lamb crop** 113.1  Per cent death loss** 40.7  Pounds of sheep produced 3913.6		\$	
Per cent lamb crop** Per cent death loss**  Pounds of sheep produced  3913.6		· · · · · · · · · · · · · · · · · · ·	•
Per cent lamb crop**  Per cent death loss**  Pounds of sheep produced  113.1  4.2	Number of ewes kept for lambing		40.7
Per cent death loss**  4.2  Pounds of sheep produced  3913.6			113.1
		**************************************	
	Pounds of sheep produced		3913.6
			87.3

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, 1956
I tems	Your
	Farm
Feed per owt. lambs produced, lbs.:	,
Concentrates	
Legune hay	
Other hay	
Fodder and stover	
Silage	
Feed cost per cwt. lembs produced	
Net increase in value per cwt. produced	
Return above feed cost per cwt. produced	
RETURN FOR \$100 OF FEED	
Price paid per cwt. lambs bought	
Price received per cwt. lambs sold	
% death loss	Name and the second sec
Pounds of lambs produced	
<b>*</b>	

#### CHICKENS

Sixty-two 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 6% 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	end Re	turns from	Chickens, 195	6*
Items	Your	Average	10 farms highest in return above feed	10 farms lowest in return
Feed per hen, lbs.: Grain Commercial feed Total Concentrates TOTAL FEED COST PER HEN Value of produce per hen: Eggs sold and used in house Net inc. in value of chickens TOTAL VALUE PRODUCES	\$ \$ \$	92.5 48.3 140.8 \$ 4.05 \$ 4.86 .04 4.90	81.0 40.3 121.3 \$ 3.53 \$ 5.10	99.9 44.0 143.9 \$ 4,58  \$ 4.1415 \$ 3.99
RETURNS ABOVE FEED COST PER HEN	\$	\$ .85	\$ 2.13	\$59
RETURNS FOR \$100 OF FEED	\$	\$125.00	\$162.00	\$ 83,00
Price rec'd perdz. eggs sold (cts.) Eggs laid per hen	\$	31.1¢ 187.0	30.6∲ 199.0	$30.8 \phi$ 160.0
Ave. no. hens on farm during year Per cent death loss of hens Per cent of laying flock that are pullets Number of Pullets started		243.4 14.5% 81.5% 318.0	206.2 13.0% 83.0% 222.0	182.7 18.3% 75.0% 226.0

<sup>\*</sup> Includes feeds and returns from laying flock and rearing flock.

Turkeys were produced on only three farms in the Mankato area. To get a better picture of the turkey enterprise, there are two averages given in Table 21. One includes only the three Mankato area farms and the other includes records from the Austin area.

Table 21. Feed Costs and Returns for	Turkeys	. 1956	
Items	Your farm	Average of 3 farms*	Average of 6 farms**
Feed per cwt. turkeys produced, lbs.: Grain Commercial Feed Total concentrates		302 218 520	230 181 411
Feed cost per cwt. turkeys produced  Net increase in value per cwt. turkeys produced		\$ 17.87 24.99	\$ 15.12 23.26
RETURNS ABOVE FEED COST PER CWT. PRODUCED RETURNS PER \$100 OF FEED		11.68	8.13 150.00
Mo. of poults put on feed Price paid per poult purchased Per cent death loss Price received per 1b. turkeys sold (cts.) Weight per bird sold (lbs.)		6470 .69 11 .315	6582 .715 11.5 .299
Pounds of turkey produced		74,075	71,648

<sup>\*</sup> Only 3 farms from Mankato area.

<sup>\*\*</sup> Includes farms from Austin area.

Table 22. Summary of Farm Earnings	y Tenu Your	23 re, 1900	10 part	's Share) 38
Items	farm	owners	owners	renters
FARM RECEIPTS		<u> </u>	0.712.02.0	
Dairy cattle		\$ 598	\$ 206	\$ 632
Dairy products		3295	1.24	2081
Beef cattle (including feeders)		2471	797S	1806
Hogs	-	4155	3509	2846
Sheep and wool (including feeders)		214	671	209
Poultry (including turkeys) Eggs	***************************************	3332	117	96
Corn	Section of the least of the lea	1170	568	590
Small grain	*****************	2359	2111 331	1180 298
Other crops	-	231 1385	1934	1026
Soil bank		39	177	40
Mach. and equip. sold & gas tax refunds	***************************************	208	269	214
Income from work off the farm		168	98	111
Miscellaneous		259	75	188
(1) Total farm sales		\$ 19884	\$ 12802	\$11317
(2) Increase in farm capital		2790	1384	2251
(3) Family living from the farm		228	173	262
(4) Total farm receipts (1)&(2)&(3)	**************************************	\$ 22902	\$ 14359	\$13830
FARM EXPENSES	<del></del>	·	•	
Dairy cattle bought		175	78	220
Beef cattle bought (including feeders)		1132	599	917
Hogs bought		187	231	148
Sheep bought (including feeders)		3	38	1.7
Horses bought		10		
Poultry bought (including turkeys)		688	59	76
Wisc. livestock expense		535	177	249
Fertilizers		4031	1860	1706 156
Other crop expense		361 524	534 514	346
Justom work hired	<del></del>	524 575	442	378
Cas, oil and grease bought (farm share)		777	660	608
Rep. & op. tractor, truck, & auto (farm share)	<del></del>	365	389	331
Kep. and upkeep of real estate	<del></del>	266	213	105
18D. & UDKEED of crop & gen mach		276	200	266
Rep. & upkeep of livestock equip.		100	103	98
Electricity expense (farm share)		659	165 127	279 128
Real estate & pers. prop. taxes		226 503	509	187
Cash rent	passes	50.5	247	642
den. farm exp. and telephone exp.		276	194	105
interest paid	-	716	350_	127
Total cash operating expenses		\$ 12384		\$ 7089
Mech. power bought (farm share)		981	865	<b>3</b> 63
Crop & gen. mach. bought		765	421	731
livestock equip. bought		81 .	36	114
New real estate improvements		1027	265	<u>82</u>
5) Total farm purchases		\$ 15238		\$ 8379
6) Decrease in farm capital		275	805	609
7) Interest on farm capital		2582	1725	1188
8) Unpaid family labor		258	272	87
9) Board furnished hired labor		94	77	50
(10) Total farm expenses (5)&(6)&(7)&(8)&((11) Labor earnings (4) - (10)	9)	\$ 18447	•	\$ 10313
, , , , , , , , , , , , , , , , , , , ,	*	4455	2104	3517
(12) Ret. to cap.& fam. lab.(7)&(8)&(11)		7295	4101	4792

#### AVERAGE PRICES OF FEEDS - 1956

Table 23 lists the average prices of feeds used in livestock summaries in this report. Prices paid for feeds bought were used when ever possible.

Farm Grown Grains*				Commercial Feeds*	Commercial Feeds*			
Corn	\$1.22		bu,	Linseed Meal	\$3, 81		Cwt.	
Oats	, 59	11	tt	Soybean Meal	3.70	17	11	
Barley	.91	ff	11	Bran	2.64	lf	11	
Wheat	2.09	11	11	Meat Scrap	4.79		Ħ	
Rye	1.04	11	H	Laying Mash	4.14	11	11	
Soybeans	2.34	11	Ħ	Hog Feed-29% & ov	er 5.02	11	11	
Flaxseed 3.16 "		tt.		xes Dairy Feed 16%2.89 "		11		
Brome or Tin	re 15.20 n. 10.40	11 11	11 11	Other Roughages  Corn Silage  Grass Silage  Pea Silage*  Sweet Corn Silage	\$6.00 6.50 3.50 * 2.60	11	Ton	
Wild Hay Milk For Fee	9.00	11	Ħ	Pasture per Head	Per Mon	<u>th</u>		
Whole Milk Skim Milk	\$3.00 .34		Cwt.	Cows Young Cattle Hogs Pigs (under 6 mons Sheep Lambs	\$2.50 1.25 .16 .) .08 .40			

<sup>\*</sup> Purchase price used whenever possible.