# 1958 ANNUAL REPORT

# VOCATIONAL AGRICULTURE FARM ANALYSIS

EAST SOUTH CENTRAL MINNESOTA



# AUSTIN AREA VOCATIONAL SCHOOL AUSTIN, MINNESOTA

IN COOPERATION WITH

VOCATIONAL DIVISION, MINNESOTA DEPARTMENT OF EDUCATION
AND AGRICULTURAL EDUCATION DEPARTMENT
UNIVERSITY OF MINNESOTA

# 1958 REPORT OF THE VOCATIONAL AGRICULTURE FARM ANALYSIS SERVICE IN EAST SOUTH CENTRAL MINNESOTA

#### Charles M. Painter

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#### INTRODUCTION

This is the fourth year that an analysis has been made by the Austin Area Vocational School. This type of analysis follows the same pattern as that used by the Farm Management Division of the University of Minnesota. These techniques have been developed through studies made with farm management association members since 1928.

We are indebted to Truman Nodland and his associates in the Farm Management Division for the many years of serwice rendered to vocational agriculture. The analysis of Veterans' Agriculture farm account books and those of cooperating Vocational Agriculture adult farmers has been the principle, but by no means the only, contribution to Vocational Agriculture by the Farm Management Division.

We would like also to express our appreciation to J. A. Kentta, Printing Instructor of the Austin Area Vocational School, and his class for preparing our cover page, and assembling the report. The main purpose of the farm analysis service in this area are: (1) to give assistance to instructors in the mechanics of farm record supervision; (2) to assist instructors and cooperating farmers in farm accounting techniques; (3) to aid the farmer in the study of his farm business through analysis reports and; (4) to provide case study material that can be used by farmers and farm groups to study management problems. The analysis is not set up for research purposes, but we hope that the data included hereccan be used for comparative studies.

This report and the analysis of records included in the report were done under the direction of Charles M. Painter, Vocational Agriculture Instructor of the Austin Area Vocational School. Clerical assistants were: Madge (Mrs. Merle) Anderson and Elaine (Mrs. Leonard) Harber. Audrey (Mrs Harold) Wussow and Carol Greenlee, vocational office secretaries prepared the report. Without the consciencious efforts of these people this report would not have been possible. Mrs. Anderson has assisted with the report for three seasons. Her skill and experience contributed to making the job much simpler than in years past.

Directing in a supervisory capacity for this and the other cooperating projects were: G. R. Cochran, State Supervisor of Agricultural Education and S. K. Wick, Assistant Director of Vocational Education in charge of Area Vocational Schools, and Morton Carney, Acting Director of the Austin Area Vocational School. Promotion and technical assistance were provided by Milo Peterson, Professor of Agriculture Education, and Lauren Granger, who was Farm Management Coordinator prior to leaving the state in July.

The professional assistance of G. A. Pond, University Division of Agricultural Economics, E. H. Hartmans and Harlan Routhe, Agriculture Extension Service, have done much to bring farm management study up to date. Lauren Granger's services were the result of a grant from the Hill Family Foundation.

Farmers pay a fee to cover the actual analysis costs. This fee covers the clerical costs of the analysis and cost of paper and stencils.

The following schools submitted 1958 farm records for analysis:

Name of School	No. of Books	<u>Instructors</u>
Adams	1	Arvid Anderson
Austin	22	Charles Painter
Hayfield and Austin	2	Bert Fuller and Marvin Thomsen
Blooming Prairie	7	Truman Tilleraas
Byron	1	Joe Trammel
Cannon Falls	2	James: Erredge
Kasson-Mantorville	1	Ernest Knutson
Dodge Center	1	Herbert Hanson
Wanamingo	<i>Ц</i> <sub>н</sub>	Glen Montzka
Zumbrota	<u>5</u> 46	Gerald Halvorson

Table 1 Summary of Farm Inventories 1958\*

Items	Your Farm Jan. 1 Dec. 31	Average o	f 46 farms Dec. 31
Size of farm (acres) Size of business (work units)***		231 466	
Dairy and dual purpose cows Other dairy & dual purpose cattle Beef cattle (including feeders) Hogs Sheep (including feeders) Poultry (including turkeys) Productive livestock (total) Horses Crop, seed, and feed Power machinery (farm share) Crop and general machinery Livestock equipment Machinery & equipment (total) Miscellaneous Land Buildings, fences, etc.		\$ 2934 1392 2304 2321 97 288 9336 3 6187 3173 3809 1155 8137  13506 12198	\$ 3028 1783 3579 2879 129 349 11747  6027 3539 3984 1317 8840  13506 13138
Total farm capital		49367	53258

15		fitable farms		
Items	Jan. 1	Dec. 31	Jan. l	Dec. 31
Size of farm (acres) Size of business (work units)**	270 600		214 353	
Dairy and dual purpose cows Other dairy & dual purpose cattle Beef cattle (including feeders) Hogs Sheep (including feeders) Poultry (including turkeys) Productive livestock (total) Horses Crop, seed, and feed Power machinery (farm share) Crop & general machinery Livestock equipment Machinery & equipment (total) Miscellaneous Land	\$ 2223 748 6002 3489 180 320 12962 12 7631 4196 4274 1238 9708  13038 15139	\$ 2360 953 10254 4956 255 467 19245  7239 4843 4563 1645 11051  13038 17719	\$ 3158 1474 411 1415 83 130 6671  4664 2691 3671 852 7214  14830 9360	\$ 3030 2232 497 1432 67 145 7403  3863 2988 3570 962 7520  14830 9360
Buildings, fences, etc.  Total farm capital	58490	68292	42739	42976
1000x 10x 10 Copio	7 3 4 7 6	/ -	, , , , , ,	

<sup>\*</sup> For the purpose of comparison, all the data shown in this report, with the exception of household expenses, are presented on a full-owner basis. The assets, expenses and receipts of the landlord were included in the records from rented farms.

<sup>\*\*</sup> See explanation of work unit on page 9.

Summary of Farm Earnings (Cash Statement) 1958 Table 2 15 least Average 15 most of 46% profitable Your profitable Items farms farms farm farms FARM RECEIPTS \$ 1481 \$ 888 \$ 1889 Dairy and dual -purpose cattle Dairy products Beef cattle (including feeders) Sheep and wool (including feeders) Horses Poultry Eggs Corn Small grain Other crops Mach. & equip. sold & gas tax ref. Misc. farm income Income from work off the farm Total farm sales (1)(2) Increase in farm capital (3) Family living from the farm (4) Total farm receipts (1)+(2)+(3)FARM EXPENSES Dairy and dual -pur. cattle bought Beef cattle bought (incl. feeders) Hogs bought Sheep bought (incl. feeders) Horses bought Poultry bought Misc. livestock expense Feed bought Fertilizers Other crop expenses Custom work hired Gas, oil & grease bought (f. share) Rep. of mechanical power (f. share) Repair and upkeep of real estate Rep. & upkeep of crop & gen. mach. Rep. & upkeep of livestock equip. Wages of hired labor Electricity expense (f. share) Real estate & pers. prop. taxes \_\_\_ Cash rent (6) Cap. purc.-mech. pow. (f. share)
(7) Cap. purc.-crop & gen. mach.
(8) Cap. purc.-livestock (9) Cap. purc.-bldgs. & fencing (10) Total farm purchases (5) to (9) (11) Decrease in farm capital (12) Interest on farm capital (13) Unpaid family labor (14) Board furnished hired labor (15) Total farm expenses (10) to (14)\_\_\_\_\_ (16) Labor earnings (4) - (15) 

<sup>\*</sup> See the Footnote\*\* on page 5

Table 3 Summary of Farm Earnings (Enterprise Statement) 1958\*

	Table 3 Summary of Farm Ear	nings (	Enterprise S	Statement) 19	58 <del>*</del>
			Average	15 most	15 least
Т	tems	Your	of 45	profitable	profitable
		farm	farms	farms	farms
RETU	RNS AND NET INCREASES				
l.	Dairy and dual-purpose cows		\$ 4815	\$ 4209	\$ 4491
2.	Other dairy & dual-pur. cattle	<del></del>	1607	1008	1909
~, 3.	Beef breeding herd		277	710	140
4.	Feeder cattle		2043	5623	171
5.	Hogs		7053	11118	<b>373</b> 3
6.	Sheep - farm flock		111	249	29
7.	-		-		
	Sheep - feeders			3246	
8.	Turkeys		- 774	1157	546
9.	Chickens		7 47 61	27320	11019
10.	All productive livestock		0510	14823	5944
11.	Value of feed fed to livestock	-		12497	5075
12.	Return over feed from livestock		- ///:	8996	4832
13.	Crops, seed, and feed		20		46)2 21
14.	Income from labor off the farm	.,	39	56	
15.	Agricultural conservation payments		209	512	54
16.	Miscellaneous		139	154	43
17.	Total returns and net increases		15677	22215	10025
	AND AND ADDRESS OF COMME				
EXPE	INSES AND NET DECREASES		v	j.	æ.
18.	Horses		_ \$	\$ <del></del>	\$ -
19.	Truck		311	413	199
20.	Auto (farm share)		370	477	325
21.	Tractor		_ 984	1013	956
22.	Elec. & gas engine exp. (f. share)		236	246	178
23.	Hired power		536	714_	471
24.	Total power		2437	2863	2129
25.	Crop and general machinery		1238	1570 *	1020
26.	Livestock equipment		344	494	253
27.	Buildings, fencing, and tiling		1180	1709	849
28.	Misc. productive livestock exp.	***************************************	624	1.069	300
29.	Labor		892	1194	<i>5</i> 4 <i>5</i>
30.	Real estate taxes		558	542	537
31.	Personal property tax		146	182	130
32.	Insurance	_,,	146	182	86
33.	General farm		144	166	115
34.	Interest on farm capital		2535	3075	2143
24.	Tilber est ou rarm caproar				
35.	Total expenses & net decreases		10244	13046	8107
<i></i>		***************************************	- 1		
36.	Labor earnings		_ 5433	9169	1918
-	_				

<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.

Table 4 Household and Personal Expenses for Those Farms Which Kept Complete Accounts of These Expenses 1958

Those Farms Which Kept Complete Accounts o	Your farm	Average of 13 farms
Number of persons - family		3.8
Number of adult equiv family other*		2.8 •3
Food and meals bought Operating and supplies Furnishings and equipment Clothing and clothing materials Personal care, personal spending Education, recreation, and development Gifts and special events Medical care and health insurance Church, welfare Personal share of auto expense Operator's share of upkeep on dwelling Household share of electric and telephone expense Total cash living expense H.H. & pers. share of new auto New dwelling Taxes and other deductions Life insurance Other savings & investments Total household and personald cash exp.		\$1044 302 285 325 379 202 134 488 207 265 12 127 \$3770 234 43 274 64 \$4385
Income: Operators labor earnings Return to capital and labor		\$4430 \$4658

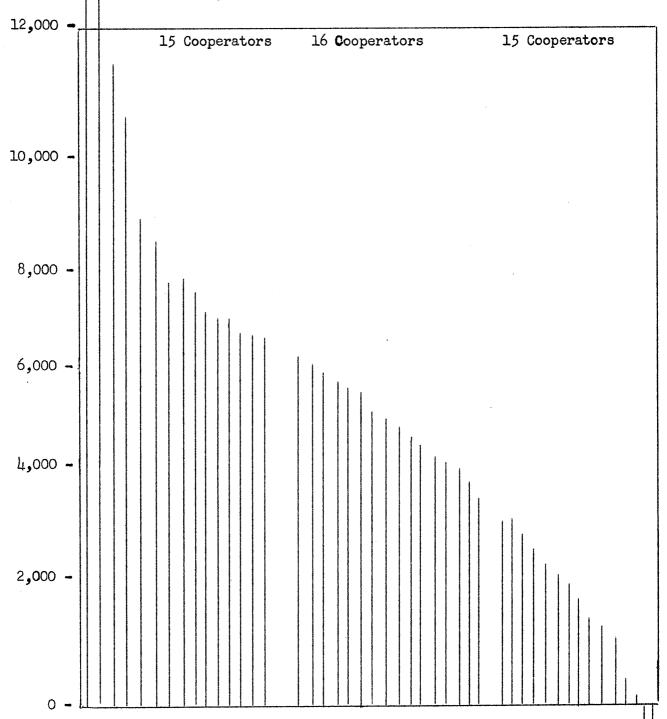
\*Hired help or others boarded

Table 5 Net worth Statement for Those Farmers Who Kept A Complete Record of All Assets and Liabilities 1958 (Operator's Share)

00mp=000 more = ====			
	Your farm	17 far	ms
Items	Jan. 1 Dec. 31	Jan 1	Dec. 31
Total farm capital Auto (personal share) Dwelling Other personal assets TOTAL ASSETS		\$31010 676 1558 <u>5764</u> \$39008	\$31160 634 2070 <u>5557</u> \$39421
Real estate indebtedness Other indebtedness TOTAL LIABILITIES		\$ 5138 4992 \$10130	\$ 5018 3898 \$ 8916
Farmer's Net Worth Gain in Net Worth		\$28878	\$30505 \$ 1628

## RANGE IN EARNINGS

There was a narrower range of earnings in 1958 than 1957. The range in crop yields was unusually great with corn yields ranging from between 20 and 30 bushels at one extreme and between 90 and 100 bushels at the other extreme. Grain prices were slightly lower. Feeding operations were again profitable in 1958. Factors that we feel contributed the most to differences in labor earnings this particular year were in order of our appraisal: 1. Size of business; 2. Work units per worker; 3. Productive livestock per 100 acres; 4. Livestock feeding efficiency.



# "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. The number of work units for each class of livestock and each acre of crop are presented in Table 7.

Table 7 Number of Work Units for Each Class of Livestock and Each Acre of Crop

Item	No. of work units	Item	No. of work units
Dairy and dual-purpose co Other dairy & du. pur. ca Beef breeding herd Feeder cattle Sheep - farm flock Sheep - feeders Hogs Turkeys Hens Canning peas		Small grain Sugar beets Sweet corn Corn husked Corn, hogged Corn, shredded Corn, silage Corn, fodder Alfalfa hay Soybean hay Other hay crops	.5 per acre 1.5 per acre .7 per acre .4 per acre 1.5 per acre 1.0 per acre 1.0 per acre .6 per acre .8 per acre

<sup>\*</sup> 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 pounds of turkeys produced.

Table 8 Measures of Farm Organization and Management Efficiency 1958

	Table of Houseares of Paris Organiza		Transagement o	ETTTCTEUGA	TA28
			Average	15 most	15 least
1/		Your	of 46		profitable
Meast	ures used in chart on page ll	farm	farms	farms	farms
Labor	r earnings	\$	\$5433	\$9169	\$1918
(1)	Crop yields*		100	105	84
(2)	Per cent tillable land in high				
()	return crops		£0. O	(3.0	
			57.9	61.2	54.5
(3)	Return for \$100 feed to produce				
	livestock*		100	108	98
		***************************************	100	100	70
(4)	Prod. livestock units per 100 A.	**	36.9	50.7	26.7
1-1			2-0,	<b>700</b>	~0•1
(5)	Size of business - work units		466	600	353
(6)	třenke možt v				222
(0)	Work units per worker		317	366	276
(7)	Pow · mach · couin · l. bld.				
(1)	Pow.; mach.; equip.; & bldg.exp. per work unit	<del>«</del>	44		n .
	por work diffe	Ф	\$ 11,80	\$ 12.50	\$ 12.48
Items	related to some of the above mea	sures;***	-		
(2)	Today O. I. D. Brook a				
(3)	Index of return for \$100 feed from	om:			
	Dairy cattle (see pages 15 & 1	6)	100	114.	103
	Beef cattle-breeding herd		3.00	7.05	
	(see page 17) Beef cattle-feeders (see pg 17	\ <del></del>	100	137	100
	Hogs (see pages 13 & 14)		100	100	146
	Sheep - farm flock (see pg 18)	***************************************	100	99	101
	Chickens (see page 19)		100 100	98	37
	Turkeys (see page 20)		100	98 138	108
	· · · · · · · · · · · · · · · · · · ·	<del></del>	100	1)6	-
(4)	Number of animal units		70	113	47
			, ,		71
(5)	Work units on crop		108	133	91
	Work units on prod. livestock		358	467	261
(7)	Decree and a second				
(7)	Power exp. per work unit		\$ 5.60	\$ 5.50	\$6,10
	Crop Mach. exp. per work unit		\$ 2,91	\$ 3.17	\$3.12
	Livestock equip. exp. per w.u.	Ď	\$ .69	•71	•72
	Bldg. & Fence exp. per w.u.		\$ 2,60	\$ 3,12	\$2.54

<sup>\*</sup> Given as a percentage of the average.

Acres in timber not pastured, roads, waste and farmstead were not included.

\*\*\*\*

Cooperators from Austin and Mankato were combined on beef breeding herds,
beef feeder cattle, sheep, and turkeys.

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 46 farms included in this summary are located between the dotted lines across the center of this page.

THERMOMETER CHART   High   Heturn from   Pr. L. S.   Fow.; Mac   Earnings   Yields   Crops   Livestock   100 A   Units   per   Work   work   units   Eqp. Bldg   11,000   140   77   126   65   800   500   \$6.00   10,00   125   71   118   55   700   430   8.00   8,100   120   68   114   50   650   400   9.00   7,600   115   65   110   47   600   370   9.80   115   65   110   47   600   370   9.80   115   65   110   47   600   370   9.80   115   115   65   110   47   600   370   9.80   115   11	
Labor         Crop         Return         Productive         units per Work         Work units         Eqp. Bldg           Earnings         Yields         Crops         Livestock         100 A         Units         per worker         exp. br w           11,000         140         77         126         65         800         500         \$ 6.00           9,000         125         71         118         55         700         430         8.00           8,100         120         68         114         50         650         400         9.00	
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2,400 82 45 82 25 330 250 13.80	
1,400 78 40 78 20 310 230 14.30	
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600 74 34 74 15 285 210 15.00	
0 70 21 70 10 270 190 15.50	
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Table 9 Distribution of Acres and Yield 1958

Table 9	Dis	tri <b>b</b> ution	of Acres	and Yield 195	8	
_			Acres	Average		
	Crop	Number	your	acres of	Your	Average
r	ating	growing	farm	46 farms	yields	yield
Oats (and mixtures)	D	41		32.5	*	65.7
Oats silage	С	7		1.9	-	7.9T
Canning Peas	В	2		•7	***************************************	\$37.50
Wheat	C	5 0		1.5		34.3
Barley and Rye	D	0		0	***************************************	
Total small grain & per	as			36.6	<del></del>	
Canning corn	В	4		1.2		4.OT
Corn grain	A	45		68.3		58.7
Soybeans (grain)	В	25		28.3		20.0
Corn silage	В	30		9.8		10.8T
Total cultivated crops				107.6		
Alfalfa hay	В	38		24.2		2.8T
Red Clover hay	С	6		2.9		2.1T
Other Legumes & Legume						
mixture	s C	4		1.9		2.2T
*Misc. Hay and seed	D	0		O		
Total tillable land in	hay			29.0		
Alfalfa pasture	В	32		16.5		
Other legume pasture (	C or B			3.9		
Other tillable pasture	D	8		1.1		
Total tillable land in	pastu	re		21.5		
Soil Bank	A			3.8		
Tillable land not cropped	d					
(incl. plowdown & water	ways)		***************************************	1.0		
Total tillable land				200	,	
Wild hay				.1		
Non-tillable pasture				9.5		
Timber				3.4		*
Roads and waste				9.1		
Farmstead				8.8		
Total acres in farm				231		
Per cent land tillable				84		
Per cent in high return	crops			58	•	
	-					

<sup>\*</sup> Some crops were grouped because acreages for each were less than one acre.
Included are legumes for seed and timothy for seed and emergency hay crops.

#### TOTAL FEED COSTS AND RETURNS FROM YOUR LIVESTOCK ENTERPRISES

The total "return over feed costs" for each class of livestock is shown in Table 10. 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 value of milk consumed by calves is included in the total returns from dairy or dual purpose cattle. The value of milk consumed by calves is not included in either the total returns or the feed cost of "all dairy" or "all dual purpose" cattle. The return over feed is not a net return, but rather the amount available from the gross income, affect 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 10 Total Feed Costs and Returns From Your Livestock Enterprises 1958

	Dairy o	r Dual Purpo	ose Cattle	beef breeding
	Cows	Other	All	herd
Total returns Total feed cost Total return over feed				
	Feeder cattle	Hogs	Farm flock 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. The proportion of the total cost represented by feed varies 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. It is necessary to secure a relatively higher return over feed from dairy cattle and poultry than from the other livestock enterprises to cover costs other than feed.

#### HOGS

Hogs and dairy were the major livestock enterprises in the area. Only those farmers producing 4000 pounds of pork or more were included in the analysis. 1953 was another ideal year to feed hogs. Feed prices were low as compared to pork prices. Much of the year the corn-hog ratio was as wide as 1:20 or more.

Table 11 Feed Costs and Returns from Hogs 1958

Items	Your farm	Average of 33 farms	ll farms highest in returns above feed	ll farms lowest in returns above feed
Feed per cwt. hogs produced, lbs: Corn Small Grain Commerical Feeds Total Concentrates		303 70 <u>64</u> 437	279 60 <u>65</u> 404	332 86 <u>68</u> 486
Feed cost per cwt. hog produced:     Concentrates (incl. alf.)     Milk     Pasture  TOTAL FEED COSTS		\$10.52 	\$ 9.84  .09 \$ 9.93	\$11.59  -11 \$11.70
Net increase in val. per cwt. hogs pro	od.	\$18.78	\$19.98	\$17.92
RETURNS ABOVE FEED COST PER CWT. HOGS PRODUCED	***************************************	\$ 8.16	\$10.05	\$6.22
RETURNS FOR \$100 OF FEED		\$177	\$201	\$153
Price received per cwt. hogs sold		\$19.94	\$20.10	\$19.61
No. of spring litters raised No. of fall litters raised Total no. of litters raised		14 13 27	18 16 34	12 
No. of pigs born per litter No. of pigs weaned per litter		8.4	9.1 7.0	7.8 6.1
Pounds of hogs produced		49834	53223	40457

\*Thirty eight cooperators raised hogs = Three records showed less than 4000# pork. Two others showed slight inconsistancies and were also omitted from the averages.

# DAIRY AND DUAL PURPOSE CATTLE

No herds were classed as dual purpose. Production was generally high. It will be noted that the high producing herds gave a higher return per hundred dollars worth of feed than the average, but this difference was not nearly as significant as the return over feed cost per cow.

Table 12 Factors of Cost and Returns from Dairy Cows 1958

Items	Your farm	Average of 30 farms	10 Farms Highest in butterfat per cow	10 farms lowest in butterfat per_ cow
Pounds of Butterfat per cow Price rec. per lb. B. F. Sold (cents)		32 <b>7</b> 89 <b>.</b> 5	388 93 <b>.</b> 1	258 86 <b>.</b> 9
Feeds per cow, lbs: Corn Small grain Commerical feeds Legume Hay		1840 977 413 4739	2360 1346 624 4723	1523 877 219 4631
Total concentrates Total dry roughage Silage		<b>3230</b> 4739 8619	4330 4723 9054	2619 4631 8410
Feed cost per cow: Concentrates Roughages Pasture TOTAL FEED COSTS		\$71.57 64.71 11.36 \$147.64	\$95.45 65.39 10.40 \$171.24	\$57.53 62.86 12.28 \$132.67
Value of produce per cow:  B. F. sales  Dairy products used in home  Milk to livestock  Net increases in value of cows  TOTAL VALUE PRODUCED		\$283.24 5.20 6.60 7.14 \$302.38	\$356.64 3.80 4.19 6.47 \$371.10	\$212.47 4.27 7.78 <u>13.53</u> \$238.05
RETURNS ABOVE FEED COST PER COW		\$154.74	\$199.86	\$105.38
RETURNS FOR \$100 OF FEED	-	\$205.00	\$217.00	\$179.00
Feed cost per 1b. B. F. (cents)		45.7	44.2	51.5
Number of cows*		22.9	29.8	18.

<sup>\*</sup> All dairy cows which have at some time in the past freshened are included in the dairy herd, and affect the average number of cows used in computing this table. There is some variation in the number of months of dry period per cow; however, this variation is small for the majority of farms. Herds of less than five cows were omitted from this study.

Table 13 Feed Costs and Returns from Other Dairy and Dual Purpose Cattle 1958

	<del></del>	A	10 farms	10 farms
	Your	Average of 30		lowest in butterfat
[tems	farm	farms	per cow	per cow
Feeds per head, lbs.:				
Concentrates		656	777	648
Hay and fodder		2051	2162	1953
Silage		2679	2399	2181
Skim Milk Whole Milk	-	216		283
	<del></del>	210	114	483
eed cost per head: Concentrates		H= / n=		# /
Roughages		\$16.05	\$17.64	\$16.63
Milk		24 <b>.9</b> 1	2 <b>5.</b> 03	23.00
Pasture	***************************************	6.93	4.00	8.59
OR AT THE AT		4.78	4.82	4.30
OT AL FEED COSTS PER HEAD		\$52.67	\$51.49	\$52.52
et inc. in value of other cattle		\$98.40	\$97.13	\$104.49
ETURNS ABOVE FEED COST PER HEAD	understand a second	\$45.73	\$45.64	\$51.97
ETURNS FOR \$100 OF FEED		\$187.00	\$189.00	\$199.00
TOTOLING TOT PLOO OF PERIOD	<del></del>	,, ,	"	
Number of head of other cattle		24.5	33.5	19.5
Jumber of head of other cattle  Table 14 Feed Costs and Returns from		24.5 and Dual Pu	33.5 urpose Cattle  10 farms highest in	19.5  1958  10 farms Lowest in
Number of head of other cattle	m All Dairy	24.5 and Dual Pu	33.5 urpose Cattle  10 farms highest in	19.5 1958
Number of head of other cattle  Table 14 Feed Costs and Returns from	m All Dairy Your	24.5  and Dual Pu  Average of 30	33.5 urpose Cattle  10 farms highest in butterfat	19.5 1958 10 farms 1 lowest in butterfat
Table 14 Feed Costs and Returns from	m All Dairy Your	24.5  and Dual Pu  Average of 30 farm	33.5  urpose Cattle  10 farms highest in butterfat per cow	19.5 1958 10 farms 1 lowest in butterfat per cow
umber of head of other cattle  Cable 14 Feed Costs and Returns from  tems  eed per animal unit, lbs.: Concentrates	m All Dairy Your	24.5  and Dual Pu  Average of 30 farm	33.5  urpose Cattle  10 farms highest in butterfat per cow	19.5 1958 10 farms 1 lowest in butterfat per cow
cems  eed per animal unit, lbs.: Concentrates Hay and fodder	m All Dairy Your	24.5  and Dual Pu  Average of 30 farm  2509 4471	33.5 urpose Cattle  10 farms highest ir butterfat per cow  3255 5480	19.5  1958  10 farms 1 lowest in butterfat per cow  2098 4239
umber of head of other cattle  Table 14 Feed Costs and Returns from  tems  eed per animal unit, lbs.: Concentrates Hay and fodder Silage	m All Dairy Your	24.5  and Dual Pu  Average of 30 farm  2509 4471 7469	33.5  urpose Cattle  10 farms highest in butterfat per cow  3255 5480 7448	19.5  1958  10 farms 1 lowest in butterfat per cow  2098 4239 7146
Table 14 Feed Costs and Returns from tems  eed per animal unit, lbs.: Concentrates Hay and fodder Silage  OTAL FEED COSTS PER ANIMAL UNIT	m All Dairy Your	24.5  and Dual Pu  Average of 30 farm  2509 4471	33.5 urpose Cattle  10 farms highest ir butterfat per cow  3255 5480	19.5  1958  10 farms 1 lowest in butterfat per cow  2098 4239 7146
cems  eed per animal unit, lbs.: Concentrates Hay and fodder Silage  OTAL FEED COSTS PER ANIMAL UNIT	m All Dairy Your	24.5  and Dual Pu  Average of 30 farm  2509 4471 7469  \$126.29	33.5  urpose Cattle  10 farms highest ir butterfat per cow  3255 5480 7448  \$141.93	19.5  1958  10 farms 1 lowest in butterfat per cow  2098 4239 7146 \$114.53
cems  eed per animal unit, lbs.: Concentrates Hay and fodder Silage  OTAL FEED COSTS PER ANIMAL UNIT alue of produce per animal unit: Dairy products	m All Dairy Your	24.5  and Dual Pu  Average of 30 farm  2509 4471 7469	33.5  urpose Cattle  10 farms highest in butterfat per cow  3255 5480 7448	19.5  1958  10 farms 1 lowest in butterfat per cow  2098 4239 7146 \$114.53
umber of head of other cattle  Table 14 Feed Costs and Returns from  tems  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 increase in value of dairy	m All Dairy Your	24.5  and Dual Pu  Average of 30 farm  2509 4471 7469  \$126.29	33.5  urpose Cattle  10 farms highest ir butterfat per cow  3255 5480 7448  \$141.93	19.5  1958  10 farms 1 lowest in butterfat per cow  2098 4239 7146 \$114.53
umber of head of other cattle  Table 14 Feed Costs and Returns from  tems  eed per animal unit, lbs.: Concentrates Hay and fodder Silage  OTAL FEED COSTS PER ANIMAL UNIT  alue of produce per animal unit: Dairy products	m All Dairy Your	24.5  and Dual Pu  Average of 30 farm  2509 4471 7469  \$126.29	33.5  urpose Cattle  10 farms highest ir butterfat per cow  3255 5480 7448  \$141.93	19.5  1958  10 farms 1 lowest in butterfat per cow  2098 4239 7146 \$114.53
tems  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 increase in value of dairy cattle TOTAL VALUE PRODUCED	m All Dairy Your	24.5  and Dual Pu  Average of 30 farm  2509 4471 7469  \$126.29  \$188.66  69.32 \$257.98	33.5  arpose Cattle  10 farms highest in butterfat per cow  3255 5480 7448  \$141.93  \$230.64  72.23 \$302.87	19.5  1958  10 farms 1 lowest in butterfat per cow  2098 4239 7146 \$114.53  \$142.82  74.49 \$217.31
cable 14 Feed Costs and Returns from tems  eed per animal unit, lbs.: Concentrates Hay and fodder Silage  OTAL FEED COSTS PER ANIMAL UNIT Calue of produce per animal unit: Dairy products Net increase in value of dairy cattle TOTAL VALUE PRODUCED  ETURNS ABOVE FEED PER ANIMAL UNIT	m All Dairy Your	24.5  and Dual Pu  Average of 30 farm  2509 4471 7469  \$126.29  \$188.66  69.32 \$257.98  \$131.69	33.5  urpose Cattle  10 farms highest ir butterfat per cow  3255 5480 7448 \$141.93  \$230.64  72.23 \$302.87  \$160.94	19.5  1958  10 farms 10west in butterfat per cow  2098 4239 7146 \$114.53  \$142.82  74.49 \$217.31 \$102.78
cems  eed per animal unit, lbs.: Concentrates Hay and fodder Silage  OTAL FEED COSTS PER ANIMAL UNIT  clue of produce per animal unit: Dairy products Net increase in value of dairy cattle TOTAL VALUE PRODUCED	m All Dairy Your	24.5  and Dual Pu  Average of 30 farm  2509 4471 7469  \$126.29  \$188.66  69.32 \$257.98	33.5  arpose Cattle  10 farms highest in butterfat per cow  3255 5480 7448  \$141.93  \$230.64  72.23 \$302.87	19.5  1958  10 farms 10west in butterfat per cow  2098 4239 7146 \$114.53  \$142.82  74.49 \$217.31

Items Beef breeding herd: No. of farms: 6 Aust	Your farm in Area Winona A	Average of all farms
	In Area. Winona A	rea
reeds per animal unit, lbs.:  Concentrates		441
Legume		5886
Other hay		
Silage		2297
eed cost per animal units:		
Concentrates	\$	\$ 8.80
Roughages	\$	45.78
Pasture TOTAL FEED COSTS	<b>*</b>	20.72 \$ 75.30
TOTAL PEED COSTS		₩ /⊅•30
Value of produce per animal unit:		
Dairy Products		\$
Net increase in value of animals TOTAL VALUE PRODUCED	Analogo dingga kalangga nagbuga kanangga laga kanangga kanang da Analogo	<u>126.11</u> \$126 <b>.</b> 11
TOTAL VALUE TROPUGED		<b>朴下ぐ○・</b> 丁丁
ETURNS ABOVE FEED COST PER ANIMAL UNITS		\$ 50.81
ETURNS FOR \$100 OF FEED		\$167.00
		<b></b>
jumber of cows and herd bulls		26.5
	***************************************	26.5 27.8
Number of cows and herd bulls Number of animal units in the herd Pounds of beef produced (ave. 3 herds Aus	tin	27.8
Sumber of animal units in the herd	tin	<del>-</del>
fumber of animal units in the herd ounds of beef produced (ave. 3 herds Aus Area)		27 <b>.</b> 8 14 <b>58</b> 7
Sumber of animal units in the herd counds of beef produced (ave. 3 herds Aus Area)  Seeding Cattle: No. of farms: 26 Austin	tin, Mankato, and Wino	27 <b>.</b> 8 14 <b>58</b> 7
Sumber of animal units in the herd counds of beef produced (ave. 3 herds Aus Area)  Seeding Cattle: No. of farms: 26 Austin Seeds per cwt. beef produced, lbs.:		27.8 14587 na Areas
cumber of animal units in the herd counds of beef produced (ave. 3 herds Austrea)  deeding Cattle: No. of farms: 26 Austin Corn		27.8 14587 na Areas 489
umber of animal units in the herd ounds of beef produced (ave. 3 herds Aus Area)  eeding Cattle: No. of farms: 26 Austin eeds per cwt. beef produced, lbs.:		27.8 14587 na Areas
umber of animal units in the herd ounds of beef produced (ave. 3 herds Aus Area)  eeding Cattle: No. of farms: 26 Austin  eeds per cwt. beef produced, lbs.: Corn Small grain Commercial feeds		27.8 14587 na Areas 489 29 65
umber of animal units in the herd ounds of beef produced (ave. 3 herds Aus Area)  eeding Cattle: No. of farms: 26 Austin  eeds per cwt. beef produced, lbs.: Corn Small grain Commercial feeds  Legume hay		27.8 14587 na Areas 489 29
umber of animal units in the herd ounds of beef produced (ave. 3 herds Aus Area)  eeding Cattle: No. of farms: 26 Austin eeds per cwt. beef produced, lbs.:  Corn Small grain Commercial feeds  Legume hay Other hay and fodder		27.8 14587 na Areas 489 29 65
umber of animal units in the herd ounds of beef produced (ave. 3 herds Aus Area)  eeding Cattle: No. of farms: 26 Austin eeds per cwt. beef produced, lbs.: Corn Small grain Commercial feeds Legume hay Other hay and fodder  Total concentrates		27.8 14587  na Areas 489 29 65 212 8
umber of animal units in the herd ounds of beef produced (ave. 3 herds Aus Area)  eeding Cattle: No. of farms: 26 Austin  eeds per cwt. beef produced, lbs.: Corn Small grain Commercial feeds  Legume hay Other hay and fodder  Total concentrates Total hay and fodder		27.8 14587  na Areas 489 29 65 212 8 583 220
umber of animal units in the herd ounds of beef produced (ave. 3 herds Aus Area)  eeding Cattle: No. of farms: 26 Austin  eeds per cwt. beef produced, lbs.: Corn Small grain Commercial feeds  Legume hay Other hay and fodder  Total concentrates Total hay and fodder Silage		27.8 14587  na Areas 489 29 65 212 8
umber of animal units in the herd ounds of beef produced (ave. 3 herds Aus Area)  eeding Cattle: No. of farms: 26 Austin  eeds per cwt. beef produced, lbs.: Corn Small grain Commercial feeds  Legume hay Other hay and fodder  Total concentrates Total hay and fodder Silage eed cost per cwt. beef produced:		27.8 14587  na Areas  489 29 65 212 8 583 220 317
umber of animal units in the herd ounds of beef produced (ave. 3 herds Aus Area)  eeding Cattle: No. of farms: 26 Austin  eeds per cwt. beef produced, lbs.: Corn Small grain Commercial feeds  Legume hay Other hay and fodder  Total concentrates Total hay and fodder Silage eed cost per cwt. beef produced: Concentrates		27.8 14587  na Areas  489 29 65 212 8 583 220 317 \$ 12.20
umber of animal units in the herd ounds of beef produced (ave. 3 herds Aus Area)  eeding Cattle: No. of farms: 26 Austin  eeds per cwt. beef produced, lbs.: Corn Small grain Commercial feeds  Legume hay Other hay and fodder  Total concentrates Total hay and fodder Silage eed cost per cwt. beef produced: Concentrates Roughages		27.8 14587  na Areas  489 29 65 212 8 583 220 317 \$ 12.20 2.80
umber of animal units in the herd ounds of beef produced (ave. 3 herds Aus Area)  eeding Cattle: No. of farms: 26 Austin  eeds per cwt. beef produced, lbs.: Corn Small grain Commercial feeds  Legume hay Other hay and fodder  Total concentrates Total hay and fodder Silage eed cost per cwt. beef produced: Concentrates		27.8 14587  na Areas  489 29 65 212 8 583 220 317 \$ 12.20 2.80 .18
umber of animal units in the herd ounds of beef produced (ave. 3 herds Aus Area)  eeding Cattle: No. of farms: 26 Austin  eeds per cwt. beef produced, lbs.: Corn Small grain Commercial feeds  Legume hay Other hay and fodder  Total concentrates Total hay and fodder Silage eed cost per cwt. beef produced: Concentrates Roughages Pasture TOTAL FEED COSTS		27.8 14587  na Areas  489 29 65 212 8 583 220 317 \$ 12.20 2.80
cumber of animal units in the herd counds of beef produced (ave. 3 herds Aus Area)  eeding Cattle: No. of farms: 26 Austin  eeds per cwt. beef produced, lbs.:  Corn Small grain Commercial feeds  Legume hay Other hay and fodder  Total concentrates Total hay and fodder  Silage eed cost per cwt. beef produced:  Concentrates Roughages Pasture TOTAL FEED COSTS et increase in value of feeders		27.8 14587  na Areas  489 29 65 212 8 583 220 317 \$ 12.20 2.80 .18 \$ 15.18
Jumber of animal units in the herd Counds of beef produced (ave. 3 herds Ausarea)  Teeding Cattle: No. of farms: 26 Austin  Teeds per cwt. beef produced, lbs.:  Corn  Small grain  Commercial feeds  Legume hay  Other hay and fodder  Total concentrates  Total hay and fodder  Silage  Total hay and fodder  Silage  Total concentrates  Roughages  Pasture  TOTAL FEED COSTS  Jet increase in value of feeders  ETURNS ABOVE FEED COST PER CWT. BEEF  PRODUCED		27.8 14587  na Areas  489 29 65 212 8 583 220 317 \$ 12.20 2.80 .18 \$ 15.18 26.14
Sumber of animal units in the herd Counds of beef produced (ave. 3 herds Aus Area)  Seeding Cattle: No. of farms: 26 Austin  Seeds per cwt. beef produced, lbs.:  Corn Small grain Commercial feeds  Legume hay Other hay and fodder  Total concentrates Total hay and fodder  Silage Seed cost per cwt. beef produced:  Concentrates Roughages Pasture  TOTAL FEED COSTS  Set increase in value of feeders ETURNS ABOVE FEED COST PER CWT. BEEF PRODUCED  SETURNS FOR \$100 OF FEED		27.8 14587  na Areas  489 29 65 212 8 583 220 317 \$ 12.20 2.80 .18 \$ 15.18 26.14 10.96 \$172.00
Sumber of animal units in the herd Counds of beef produced (ave. 3 herds Aus Area)  Ceeding Cattle: No. of farms: 26 Austin Ceeds per cwt. beef produced, lbs.:  Corn Small grain Commercial feeds  Legume hay Other hay and fodder  Total concentrates Total hay and fodder Silage Ceed cost per cwt. beef produced: Concentrates Roughages Pasture TOTAL FEED COSTS Cet increase in value of feeders CETURNS ABOVE FEED COST PER CWT. BEEF PRODUCED  CETURNS FOR \$100 OF FEED		27.8 14587  na Areas  489 29 65 212 8 583 220 317 \$ 12.20 2.80 .18 \$ 15.18 26.14 10.96 \$172.00 \$ 25.03
Sumber of animal units in the herd Counds of beef produced (ave. 3 herds Aus Area)  Ceeding Cattle: No. of farms: 26 Austin Ceeds per cwt. beef produced, lbs.:  Corn Small grain Commercial feeds  Legume hay Other hay and fodder  Total concentrates Total hay and fodder Silage Ceed cost per cwt. beef produced: Concentrates Roughages Pasture TOTAL FEED COSTS  Let increase in value of feeders LETURNS ABOVE FEED COST PER CWT. BEEF PRODUCED  LETURNS FOR \$100 OF FEED		27.8 14587  na Areas  489 29 65 212 8 583 220 317 \$ 12.20 2.80 .18 \$ 15.18 26.14 10.96 \$172.00

## SHEEP

Farm flocks in this area are small and the feed consumption is often higher than necessary because the feed is available. Efforts were made to have cooperators charge the flock for all feed consumed. The table below includes 9 farms from the Austin, Winona, and Mankato areas.

Table 16 Feed Costs and Returns from a Farm Flock of Sheep 1958

Items	Your Yarm	Average of 9 farms in southern Minnesota
Feeds per head, * lbs.:		
Concentrates		215
Legume hay		499
Other hay		253
Silage		131
Feed cost per head:	_	
Concentrates	\$ <u></u>	\$ 3 <b>.</b> 95
Roughages		4.89
Pasture		<u> 1.81</u>
TOTAL FEED COSTS	\$	\$ 10.66
Value of produce per head:		
Wool		\$ 2.53
Net increase in value of sheep TOTAL VALUE PRODUCED	\$	15.09 \$ 17.62
RETURNS ABOVE FEED COST PER HEAD	\$	<b>\$</b> 6.96
RETURNS FOR \$100 OR FEED	\$	\$165.00
Price per cwt. of lambs sold	\$	\$ 19.14
Price per lb. wool sold (cents)		<b>.38</b>
Pounds of wool per sheep sheared	**************************************	9.3
Number of ewes kept for lambing		63.
Per cent lamb crop**		110
Per cent death loss**	eponentia de la propie de la constitución de la con	5•3
Pounds of sheep produced		6183
Number of head of sheep*	ana.antan'ny ara-daharan'ny ara-daha	89

<sup>\*</sup> Two lambs under six months of age considered as one head.

<sup>\*\*</sup> Lambs which die during month of birth are not included

## CHICKENS

Flocks from 16 farms are included in this report. Only those flocks awaraging 125 or more hens, and having a full year's production are included in the averages. Twenty-two did not have laying hens at any time of the year. Four were without a laying flock for a part of the year. Others kept a few hens to provide eggs for the family.

Table 17 Feed Costs and Returns from Chickens 1958\*

Items	Your farm	Average of 16 farms		lowest in
Feed Per hen, lbs.: Grain Commercial feeds Total concentrates		90 <u>43</u> 133	85 <u>44</u> 129	100 <u>40</u> 140
TOTAL FEED COST PER HEN		\$ 3.8C	\$ 3.78	\$ 4 <b>.0</b> 6
Value of produce per hen: Eggs sold and used in house Net increase in value of chick	ens	\$ 5.49 	\$ 6.70 -77	\$ 4.36 .09
TOTAL VALUE PRODUCED		\$ 5.72	\$ 7.47	\$ 4.45
RETURNS ABOVE FEED COST PER HEN		\$ 1.92	\$ 3.69	\$ .39
RETURNS FOR \$100 OF FEED		\$151.00	\$198.00	\$110.00
Price rec'd. per doz. eggs sold (ce Eggs laid per hen	nts)	31.2	31.1 258	31.1 170
Ave. No. hens on farm during year Per cent death land of hens		_ 537 _ 10.		256 20•7

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

#### TURKEYS

Turkeys were produced on only two farms included in the Austin Area. These were averaged with one cooperator from the Winona Area. One cooperator had an abnormal death loss. The other two growers had feed conversions of 338# and 371# total per 100# of turkey produced. Their feed costs were \$14.04 and \$12.85 per hundred pounds turkeys produced. Returns per \$100 feed were \$129 and \$153.

Table 18 Feed Costs and Returns for Turkeys, 1958 (3 Farms in Southern Minnesota)

Items	Your farm	Average of 3 farms
Feed per cwt. turkeys produced, lbs.: Grain Commercial feeds Total concentrates		328 <u>276</u> <b>6</b> 04
Feed cost per cwt. turkeys produced		\$18,22
Net increase in value per cwt. turkeys produ	iced	\$16.96
RETURNS ABOVE FEED COST PER CWT. TURKEYS PROI	DUCED	<b>\$-1.</b> 26
RETURNS FOR \$100 OF FEED		<b>\$93.</b> 00
No. of poults put on feed Price paid per poult purchased (cents) * Per cent death loss Price received per lb. turkeys sold (cents) Weight per bird sold (lbs.)		144992 58.0 27.0 24.5 12.6
Pounds of turkey produced	may down a last of the second	128,562

One cooperator lost a large number of poults from drowning. The information on the turkey enterprise is given for those who may be interested. Three cases do not provide sufficient information from which to draw conclusions.

