

1960 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

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1960 REPORT OF THE VOCATIONAL AGRICULTURE
FARM ANALYSIS SERVICE IN EAST SOUTH CENTRAL MINNESOTA

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INTRODUCTION

This is the sixth 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 service 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 Vocational Agriculture classes under the supervision of Donald Ritland also helped with assembling the report.

The main purposes 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 here can 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, Elaine (Mrs. Leonard) Harber and Donna (Mrs. Donald) Hanson. Mary Christofferson, vocational office secretary, prepared the report with strictly voluntary and highly appreciated assistance from Darlene Corson. Without the conscientious efforts of these people this report would not have been possible. Madge Anderson has assisted with the report for five seasons. Elaine and Donna have worked two years each on the project.

Directing in a supervisory capacity for this and the other cooperating projects were: G. R. Cochran, State Supervisor of Agricultural Education, S. K. Wick, Director of Vocational Education, William Knaak, Assistant Director of Vocational Education, in charge of Area Vocational Schools, and Morton Carney, Director of the Austin Area Vocational School. Promotion and technical assistance were provided by Milo Peterson, Professor of Agriculture Education.

The professional assistance of the University Division of Agricultural Economics, and the Agriculture Extension Service, have done much to bring farm management study up to date. Financial assistance from the Hill Family Foundation helped to initiate the program from 1954 through 1957.

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 1960 farm records for analysis. Two books arrived too late to be included in the averages.

<u>Name of School</u>	<u>No. of Books</u>	<u>Instructors</u>
Faribault	18	Ralph Palen and Marvin Stotesbery
Cannon Falls	1	James Erredge
Austin	16	Charles Painter
Hayfield	2	Bruce Oxtan, Wm Fiel and Bert Fuller
Blooming Prairie	18	Eugene Francis and Truman Tilleraas
Byron	2	Joe Trammel
Adams	5	Dwaine Vangsness
Wanamingo	5	Robert Johnson
Zumbrota	<u>3</u>	Gerald Halvorson
	70	

Table 1 Summary of Farm Inventories 1960*

Items	Your Farm		Average of 69 farms	
	Jan. 1	Dec. 31	Jan. 1	Dec. 31
Size of farm (acres)			233	
Size of business (work units)**			512	
Dairy and dual purpose cows			\$ 3205	\$ 3374
Other dairy and dual purpose cattle			1646	2040
Beef cattle (including feeders)			4189	3375
Hogs			1960	2975
Sheep (including feeders)			131	102
Poultry (including turkeys)			301	998
Productive Livestock (total)			11432	12864
Horses			---	---
Crop, seed and feed			7551	6793
Power machinery (farm share)			3832	3797
Crop and general machinery			4734	5037
Livestock equipment			1297	1585
Machinery & equipment (total)			9863	10419
Miscellaneous			---	---
Land			18438	18438
Buildings, fences, etc.			13936	14500
Total farm capital			61220	63014

Items	17 most profitable farms		17 least profitable farms	
	Jan. 1	Dec. 31	Jan. 1	Dec. 31
Size of farm (acres)	247		226	
Size of business (work units)**	768		364	
Dairy and dual purpose cows	\$ 4154	\$ 4351	\$ 1615	\$ 1866
Other dairy & dual purpose cattle	2044	2861	879	984
Beef cattle (including feeders)	2077	603	10474	5153
Hogs	3027	4636	1934	2464
Sheep (including feeders)	376	233	101	100
Poultry (including turkeys)	377	3126	257	234
Productive Livestock (total)	12055	15810	15260	10801
Horses	---	---	---	---
Crop, seed, and feed	7217	7793	7038	4812
Power machinery (farm share)	4100	4397	3611	3139
Crop & general machinery	5065	5410	4637	4525
Livestock equipment	1693	2627	1071	1006
Machinery & equipment (total)	10858	12434	9319	8670
Miscellaneous	---	---	---	---
Land	18987	18987	17994	17994
Buildings, fences, etc.	12948	15631	12736	12653
Total farm capital	62065	70655	62347	54930

* 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.

** See explanation of work unit on page 9

Table 2 Summary of Farm Earnings (Cash Statement) 1960

Items	Your farm	Average of 69 farms	17 most profitable farms	17 least profitable farms
FARM RECEIPTS				
Dairy and dual purpose cattle	_____	\$ 1160	\$ 1740	\$ 445
Dairy products	_____	4726	6622	1925
Beef cattle (including feeders)	_____	6958	3383	12878
Hogs	_____	6426	10166	4929
Sheep & wool (including feeders)	_____	181	620	44
Horses	_____	_____	_____	_____
Poultry	_____	2286	9039	50
Eggs	_____	1628	2885	1112
Corn	_____	1468	955	1913
Small grain	_____	401	460	280
Other crops	_____	961	870	748
Mach & equip sold & gas tax ref.	_____	172	177	175
Income from work off the farm	_____	406	290	445
Misc. farm income	_____	239	332	263
(1) Total farm sales	_____	27006	37539	25207
(2) Increase in farm capital	_____	1795	8590	_____
(3) Family living from the farm	_____	326	406	232
(4) Total farm receipts (1+2+3)	_____	29127	46535	25439
FARM EXPENSES				
Dairy & dual pur. cattle bought	_____	373	910	128
Beef cattle bought (including f's)	_____	3493	161	3625
Hogs bought	_____	530	438	576
Sheep bought (inc feeders)	_____	43	110	6
Horses bought	_____	_____	_____	_____
Poultry bought	_____	720	2492	58
Misc. livestock expense	_____	777	1791	351
Feed bought	_____	5546	11847	3925
Fertilizers	_____	1085	1410	852
Other crop expenses	_____	695	782	688
Custom work hired	_____	607	645	493
Gas, oil & grease bought(f. share)	_____	991	1027	990
Rep. of mechanical power (f. share)	_____	533	517	535
Rep. & upkeep of real estate	_____	324	432	261
Rep. & upkeep of crop & gen mach.	_____	397	370	521
Rep. & upkeep of livestock equip.	_____	139	154	110
Wages of hired labor	_____	570	745	601
Electricity expense (farm share)	_____	309	394	217
Real Estate & per. prop. taxes	_____	906	1073	964
Cash rent	_____	_____	_____	_____
General farm expense	_____	330	470	283
(5) Total cash operating expense	_____	18368	25768	15184
(6) Cap. purc-mech. pow.(f. share)	_____	697	1056	254
(7) Cap. purc-crop & gen mach.	_____	1174	1254	700
(8) Cap. pur.-livestock equip.	_____	628	1500	146
(9) Cap pur. bldgs & fencing	_____	1360	3490	702
(10) Total farm purchases (5-9)	_____	22227	33068	16986
(11) Decrease in farm capital	_____	_____	_____	7417
(12) Interest on farm capital	_____	3106	3318	2932
(13) Unpaid family labor	_____	529	588	360
(14) Board furnished hired labor	_____	51	46	68
(15) Total farm expenses (10-14)	_____	25913	37020	27763
(16) Labor earnings (4) - 15	_____	3214	9515	-2324

Table 3 Summary of Farm Earnings (Enterprise Statement) 1960*

Items	Your farm	Average of 69 farms	17 most profitable farms	17 least profitable farms
RETURNS AND NET INCREASES				
1. Dairy and dual-purpose cows	_____	\$ 4755	\$ 6759	\$ 1913
2. Other dairy & dual-pur. cattle	_____	1475	2045	666
3. Beef breeding herd	_____	275	1	880
4. Feeder cattle	_____	2521	1837	3244
5. Hogs	_____	6984	11393	4920
6. Sheep -- farm flock	_____	22	15	37
7. Sheep -- feeders	_____	87	352	---
8. Turkeys	_____	2718	11034	---
9. Chickens	_____	1200	1185	1102
10. All productive livestock	_____	20037	34621	12762
11. Value of feed fed to livestock	_____	11830	19024	10128
12. Return over feed from livestock	_____	8207	15597	2634
13. Crops, seed, and feed	_____	6497	7730	5378
14. Income from labor off the farm	_____	254	91	270
15. Agricultural conservation payments	_____	24	62	29
16. Miscellaneous	_____	215	270	235
17. Total returns and net increases	_____	15197	23750	8546
EXPENSES AND NET DECREASES				
18. Horses	_____	\$ ---	\$ ---	\$ ---
19. Truck	_____	354	418	309
20. Auto (farm share)	_____	408	351	364
21. Tractor	_____	1237	1269	1298
22. Elec. & gas engine exp. (f share)	_____	291	394	217
23. Hired power	_____	483	519	358
24. Total power	_____	2773	2951	2546
25. Crop & general machinery	_____	1308	1263	1362
26. Livestock equipment	_____	474	714	317
27. Buildings, fencing & tiling	_____	1120	1238	1046
28. Misc. prod. livestock expense	_____	777	1791	351
29. Labor	_____	1188	1417	1070
30. Real estate taxes	_____	705	840	743
31. Personal property tax	_____	201	233	220
32. Insurance	_____	167	199	168
33. General farm	_____	164	271	115
34. Interest on farm capital	_____	3106	3318	2932
35. Total expenses & net decrease	_____	11983	14235	10870
36. Labor earnings	_____	3214	9515	-2324

* 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 Cash Household and Personal Expenses for
Those Farms Which Kept Complete Accounts of these Expenses 1960
(Electric, Telephone and Auto not included)

Items	Your farm	Average of 22* farms
Number of persons - family	_____	4.8
Number of adult equivalent - family	_____	3.4
other*	_____	.06
Food and meals bought	_____	\$ 934
Operating and supplies	_____	293
Furnishings and equipment	_____	145
Clothing and clothing materials	_____	311
Personal care, personal spending	_____	216
Education, recreation, and development	_____	181
Gifts and special events	_____	142
Medical care and health insurance	_____	320
Church, welfare	_____	192
Miscellaneous	_____	36
Total above expenses	_____	\$2770
Income:		
Operators labor earnings	_____	\$2835
Return to capital and labor	_____	\$5303

*Hired help or others boarded

Table 5 Net worth Statement for Those Farmers Who Kept A
Complete Record of All Assets and Liabilities 1960 (Operator's Share)

Items	Your farm		34 farms	
	Jan. 1	Dec. 31	Jan. 1	Dec. 31
Total farm capital	_____	_____	\$38710	\$39386
Auto (personal share)	_____	_____	456	429
Dwelling	_____	_____	2384	2264
Other personal assets	_____	_____	3859	4411
TOTAL ASSETS	_____	_____	\$45409	\$46490
Real estate indebtedness	_____	_____	\$ 9976	\$ 9929
Other indebtedness	_____	_____	3392	3590
TOTAL LIABILITIES	_____	_____	\$13368	\$13519
Farmer's Net Worth	_____	_____	\$32041	\$32971
Gain in Net worth	_____	_____		\$+ 930

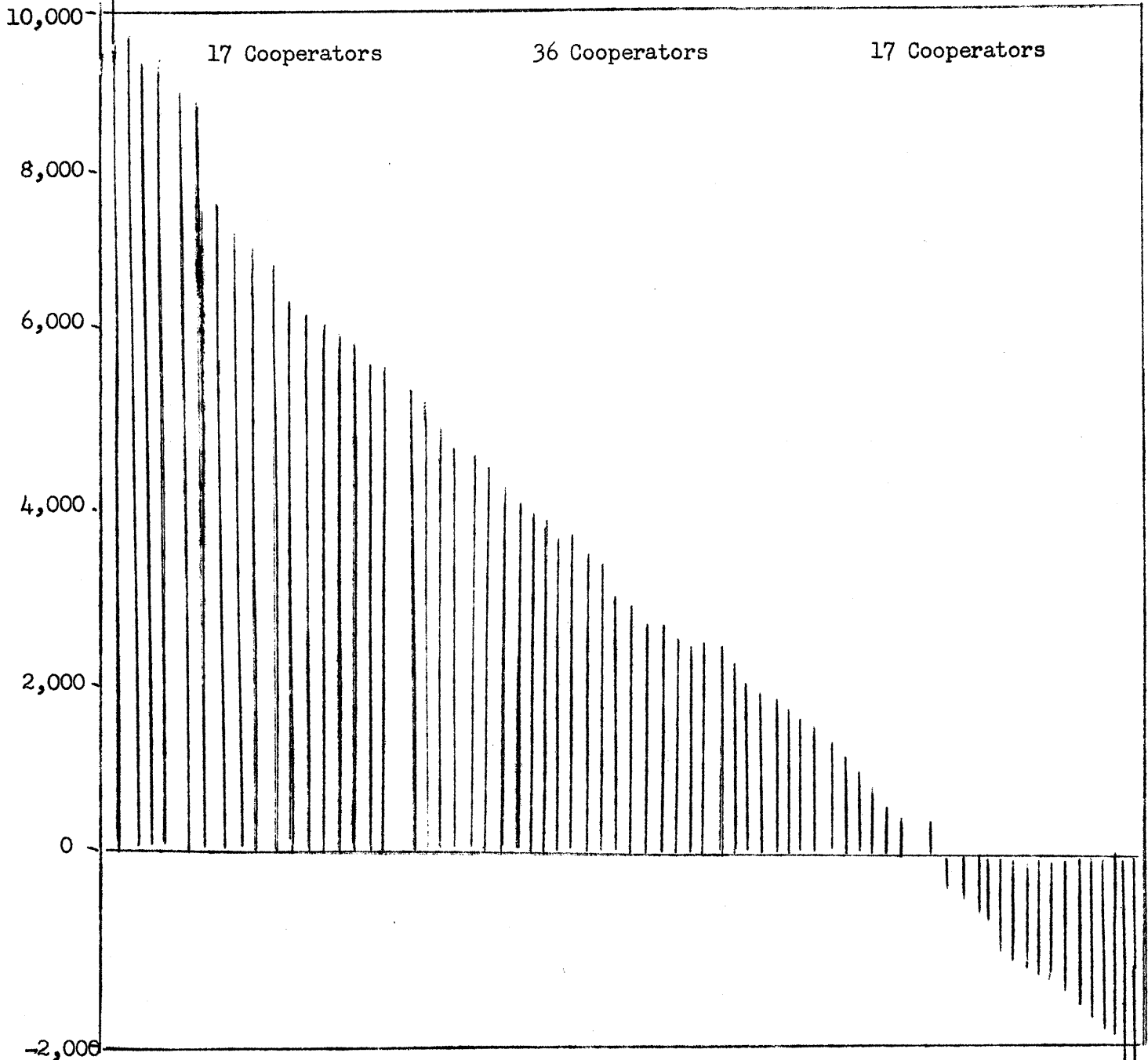
* Twenty-seven cooperators kept household and personal accounts throughout the year. If there was reason to doubt totals for certain items, the account was not used in the totals. Because of limited time, items that can be found other places in the report are not included here. These include (1) personal share of the auto expense (2) personal share of electric and telephone and (3) dwelling expenses.

Table 6 Summary of Farm Earnings by Tenure 1960 (Operator's Share)

Items	Your farm	53 owners & part owners	16 renters
<u>FARM RECEIPTS</u>			
Dairy and dual-purpose cattle	-----	\$1074	\$ 677
Dairy products	-----	3788	3865
Beef cattle (including feeders)	-----	8111	2936
Hogs	-----	7218	2305
Sheep and wool (including feeders)	-----	211	22
Horses	-----	-----	-----
Poultry (including turkeys)	-----	2957	35
Eggs	-----	1852	810
Corn	-----	1382	873
Small grain	-----	392	215
Other crops	-----	875	497
Machinery and equipment sold	-----	170	140
Income from work off the farm	-----	411	386
Miscellaneous	-----	279	104
(1) Total farm sales	-----	\$28720	\$12865
(2) Increase in farm capital	-----	2376	154
(3) Family living from the farm	-----	334	288
(4) Total farm receipts (1)+(2)+(3)	-----	\$31430	\$13307
<u>FARM EXPENSES</u>			
Dairy & dual-purpose cattle bought	-----	\$ 283	471
Beef cattle bought (inc. feeders)	-----	4135	1374
Hogs bought	-----	676	25
Sheep bought (Inc. feeders)	-----	54	-----
Horses bought	-----	-----	-----
Poultry (including turkeys)	-----	920	37
Misc. livestock expense	-----	856	267
Feed	-----	6335	1699
Fertilizers	-----	1145	501
Other crop expense	-----	718	313
Custom work hired	-----	574	416
Gas, Oil, and grease	-----	996	785
Rep. Tractor, truck, auto (farm share)	-----	566	364
Repair & upkeep of real estate	-----	355	63
Rep. & upkeep of crop & gen. mach.	-----	438	232
Rep. & upkeep of livestock equip.	-----	152	70
Wages of hired labor	-----	647	299
Electricity expense (farm share)	-----	321	206
Real est. & pers. property taxes	-----	850	202
Cash rent	-----	127	388
Gen. farm and insurance	-----	366	151
Interest paid	-----	-----	-----
Total cash operating expenses	-----	\$20514	\$ 7863
Mech. power bought (farm share)	-----	652	840
Crop & general machinery bought	-----	1215	1017
Livestock equipment bought	-----	736	92
New real estate improvements	-----	1647	123
(5) Total farm purchases	-----	\$24764	\$ 9935
(6) Decrease in farm capital	-----	-----	-----
(7) Interest on farm capital	-----	3020	1055
(8) Unpaid family labor	-----	604	281
(9) Board furnished hired labor	-----	56	36
(10) Total farm expenses 5+6+7+8+9	-----	\$28444	\$11307
(11) Labor earnings (4) - (10)	-----	2986	2000
(12) Ret. to cap. & fam. labor 7+8+11	-----	6610	3336

RANGE IN EARNINGS

The variation in farm earnings was similiar to that of 1959. Crop yields showed "considerable variation but averaged below normal. Acres of cropland not farmed was excessive. Cattle feeding operations were not generally profitable. Hogs and poultry returns were much better than in 1959. Factors that we feel contributed the most to differences in labor earnings this particular year were in order of our appraisal: 1. Livestock feeding efficiency; 2. Crop yields; 3. Low overhead cost per work unit; 4. Work units per worker.



"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 per farm or per worker may be interpreted differently for different farm situations. They may measure the degree of efficiency of labor due to mechanization or careful planning. They may also measure quality or quantity of work. Occasionally high work units per worker indicate an excessive work load. 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 cows	10.0 per cow	Small grain	.5 per acre
Other dairy & du. pur. cattle	3.5 per an. unit*	Sugar beets	1.5 per acre
Beef breeding herd	3.5 per an. unit*	Sweet corn	.7 per acre
Feeder cattle	.25 per 100 lbs.	Corn husked	.7 per acre
Sheep - farm flock	1.5 per an. unit*	Corn, hogged	.4 per acre
Sheep - feeders	.3 per 100 lbs.	Corn, shredded	1.5 per acre
Hogs	.2 per 100 lbs.	Corn, silage	1.0 per acre
Turkeys	.5 per 100 lbs.	Corn, fodder	1.0 per acre
Hens	20.0 per 100 hens	Alfalfa hay	.6 per acre
Canning peas	.5 per acre	Soybean hay	.8 per acre
Soybeans for grain	.5 per acre	Other hay crops	.4 per acre

* 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 turkey produced.

Table 8 Measures of Farm Organization and Management Efficiency 1960

Measures used in chart on page 11	Your farm	Average of 69 farms	17 most profitable farms	17 least profitable farms
Labor earnings	\$ _____	\$3214	\$9515	\$-2324
(1) Crop yields*	_____	100	144	86
(2) Per cent tillable land in high return crops	_____	62.3	62.8	57.5
(3) Return for \$100 feed to produce livestock*	_____	100	104	87
(4) Prod. livestock units per 100 Acres**	_____	40.2	59.4	35.0
(5) Size of business-work units	_____	512	768	364
(6) Work units per worker	_____	330	444	263
(7) Power; machinery; equipment; & building expense per work unit	\$ _____	\$12.55	\$9.40	\$15.81
Items related to some of the above measures***				
(3) Index of return for \$100 feed from:				
Dairy cattle (see pgs 15 & 16)	_____	100	108	81
Beef cattle-breeding head (see page 17)	_____	100	---	107
Beef cattle-feeders (see pg 17)	_____	100	101	89
Hogs (see pages 13 & 14)	_____	100	112	87
Sheep-farm flock (see pg 18)	_____	100	90	60
Turkeys (see page 20)	_____	100	100	---
Chickens (see page 19)	_____	100	89	96
(4) Number of animal units	_____	85.9	129	84.3
(5) Work units on crop	_____	116	120	113
Work units on productive livestock	_____	397	648	251
(7) Power expense per work unit	\$ _____	\$6.34	\$4.80	\$7.67
Crop machinery expense per work units	\$ _____	\$2.92	\$2.24	\$3.88
Livestock equip expense per work unit	\$ _____	\$.82	\$.70	\$.95
Building & fence expense per work unit	\$ _____	\$2.47	\$1.66	\$3.31

* Given as a percentage of the average

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

*** Cooperators from Austin, Mankato, and Winona 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 69 farms included in this summary are located between the dotted lines across the center of this page.

THERMOMETER CHART

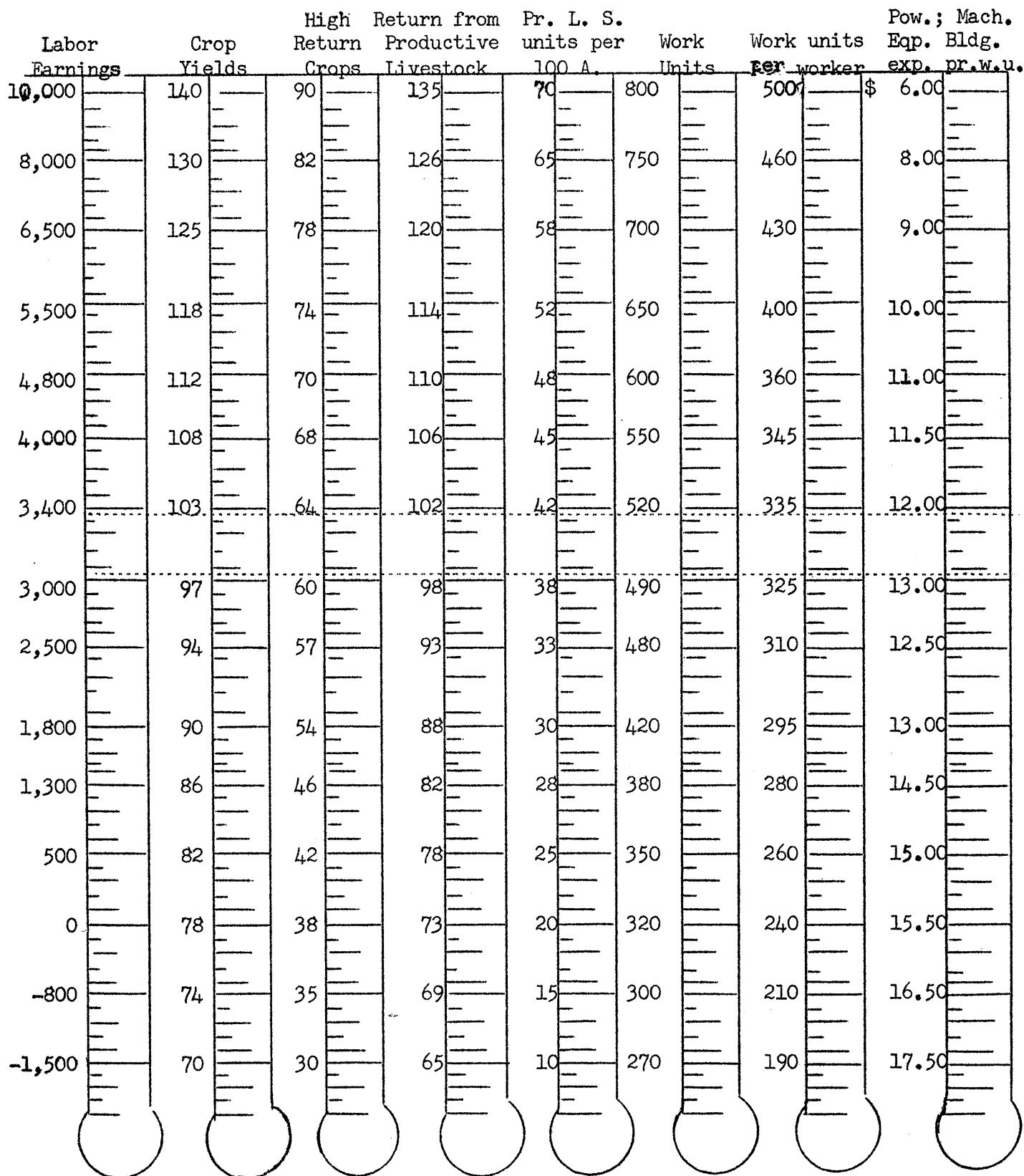


Table 9 Distribution of Acres and Yield 1960

Crop	Crop rating	Number growing	Acres Your farm	Average acres of 70 farms	Your yields	Average yield
Oats (and mixtures)	D	62	_____	25.0	_____	51.5 T
Oats silage	C	2	_____	.4	_____	3.8 T
Canning Peas	B	2	_____	.4	_____	\$46.86
Wheat	C	20	_____	4.2	_____	26.
Barley, Rye and Millet	D	6	_____	1.1	_____	—
Total small grain & peas			_____	31.1		
Beets, Potatoes, Tr.	A	1	_____	.4	_____	—
Cr. Sd. Corn			_____			
Canning corn	B	5	_____	1.8	_____	3.8 T
Corn grain	A	70	_____	80.6	_____	55.7
Soybeans (grain)	B	40	_____	22.3	_____	18.7
Corn silage	B	52	_____	12.8	_____	10.0 T
Corn or cane fodder	D	1	_____	.1	_____	3 T
Total cultivated crops			_____	118.0		
Alfalfa hay	B	61	_____	29.5	_____	3.0 T
Red Clover hay	C	6	_____	1.4	_____	2.1 T
Other Legumes & Legume mixtures	C	3	_____	1.5	_____	3.5 T
*Misc. Hay and seed	D	3	_____	1.0	_____	
Total tillable land in hay			_____	33.4		
Alfalfa pasture	B	32	_____	9.5		
Other legume pasture (C or B)		7	_____	1.7		
Other tillable pasture	D	10	_____	1.0		
Total tillable land in pasture			_____	12.2		
Soil Bank	A	1	_____	.9		
Tillable land not cropped (incl. plowdown & waterways)		18	_____	6.1		
Total Tillable land			_____	201.7		
Lots			_____	.1		
Non-tillable pasture			_____	15.0		
Timber			_____	3.0		
Roads and waste			_____	9.3		
Farmstead			_____	9.9		
Total acres in farm			_____	239		
Per cent land tillable			_____	83.5		
Per cent in high return crops			_____	60.0		

* 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, 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 10 Total Feed Costs and Returns From Your Livestock Enterprises 1960

	<u>Dairy or Dual Purpose cattle</u>			beef breeding herd
	Cows	Other	All	
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 8,000 pounds of pork or more were included in the analysis. Those who did not have hogs both at the beginning and end of the year were omitted from the averages.

Table 11 Feed Costs and Returns from Hogs 1960

Items	Your farm	Average of 46 farms	15 farms highest in returns above feed	15 farms lowest in returns above feed
Feed per cwt. hogs produced, lbs:				
Corn	—	336	292	404
Small grain	—	53	51	54
Commercial feeds	—	65	52	73
Alfalfa Hay	—	2	1	2
Total concentrates(incl. alfalfa)	—	456	396	533
Buttermilk	—	25	—	—
Feed cost per cwt. hogs produced:				
Concentrates (inc. alfalfa)	—	\$10.27	\$ 8.87	\$11.85
Buttermilk	—	.02	—	—
Pasture	—	.03	.05	.02
TOTAL FEED COSTS	—	\$10.32	\$ 8.92	\$11.87
Net increase in val per cwt. hogs pro.	—	\$16.76	\$17.39	\$15.85
RETURNS ABOVE FEED COST PERCWT. HOGS PRODUCED	—	\$ 6.44	\$ 8.47	\$ 3.98
RETURNS FOR \$100 OF FEED	—	\$162.00	\$195.00	\$134.00
Price received per cwt. hogs sold	—	\$15.64	\$15.50	\$15.53
No. of spring litters raised	—	18	18	12
No. of fall litters raised	—	15	14	13
Total no. of litters raised	—	33	32	25
No. of pigs born per litter	—	8.4	9.3	7.2
No. of pigs weaned per litter	—	6.5	7.3	5.5
Pounds of hogs produced	—	58223	50107	49646

If feed records and numbers of animals were questionable, such cases were omitted from the averages. A total of 54 cooperators produced pork.

DAIRY AND DUAL PURPOSE CATTLE

No herds were classed as dual purpose. Production this year averaged slightly higher than last year. Several farms raising only dairy heifers were omitted as were herds with averages of less than five cows. Because of confusion in numbers or questionable feed distribution, two of the forty-four cow herds were not included in the averages.

Table 12 Factors of Cost and Returns from Dairy Cows 1960

Items	Your farm	Average of 42 farms	14 farms highest in butterfat per cow	14 farms lowest in butterfat per cow
Pounds of Butterfat per cow	_____	356	422	295
Pounds of milk per cow	_____	951 ⁶	10699	8553
% of butterfat in milk	_____	3.7	3.9	3.4
Price rec. per lb. of B. F. sold ¢	_____	89.5	90.9	89.4
Price rec. per cwt. Milk sold	_____	3.27	3.35	3.07
Feeds per cow, lbs:				
Corn	_____	2266	2529	2123
Small grain	_____	898	1201	694
Commercial feeds	_____	543	685	426
Legume Hay	_____	5892	6467	6154
Other Hay	_____	60		179
Fodder and stover	_____	32		
Total concentrates	_____	3707	4415	3243
Total dry roughage	_____	5984	6467	6333
Silage	_____	7811	8052	9498
Feed cost per cow:				
Concentrates	_____	\$77.92	\$93.11	\$66.64
Roughages	_____	75.66	82.15	82.20
Pasture	_____	10.09	11.71	9.21
TOTAL FEED COSTS	_____	\$163.67	\$186.97	\$158.05
Value of produce per cow:				
B. F. sales	_____	\$302.23	\$357.26	\$252.15
Dairy products used in home	_____	9.83	18.32	4.55
Milk to livestock	_____	6.15	7.60	5.31
Net increases in value of cows	_____	-9.51	-5.54	-6.27
TOTAL VALUE PRODUCED	_____	\$308.70	\$377.64	\$255.74
RETURNS ABOVE FEED COST PER COW	_____	\$145.03	\$190.67	\$ 97.69
RETURNS FOR \$100 OF FEED	_____	\$189.00	\$202.00	\$162.00
Feed cost per lb. B. F. (cents)	_____	46.0	44.3	53.6
Number of cows*	_____	23.7	25.0	23.6

* 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 1960

Items	Your farm	Average of 42 farms	14 farms highest in butterfat per cow	14 farms lowest in butterfat per cow
Feeds per head, lbs.:				
Concentrates	_____	796	818	762
Hay and fodder	_____	2176	1898	2564
Silage	_____	2658	2400	3080
Skim Milk	_____	---	---	---
Whole Milk	_____	187	231	174
Feed cost per head:				
Concentrates	_____	\$18.81	\$19.45	\$18.29
Roughages	_____	26.86	24.27	31.13
Milk	_____	5.94	7.07	5.04
Pasture	_____	3.72	4.01	3.67
TOTAL FEED COSTS PER HEAD	_____	\$55.33	\$54.80	\$58.13
Net inc. in value of other cattle	_____	\$90.78	\$96.61	\$88.85
RETURNS ABOVE FEED COST PER HEAD	_____	\$35.45	\$41.81	\$30.72
RETURNS FOR \$100 OF FEED	_____	\$164.00	\$176.00	\$162.00
Number of head of other cattle	_____	24.5	28.0	22.7

Table 14 Feed costs and Returns from All Dairy and Dual Purpose Cattle 1960

Items	Your farm	Average of 42 farms	14 farms highest in butterfat per cow	14 farms lowest in butterfat per cow
Feed per animal unit, lbs.:				
Concentrates	_____	2923	3334	2613
Hay and fodder	_____	5126	4780	5787
Silage	_____	6464	5670	8340
TOTAL FEED COSTS PER ANIMAL UNITS	_____	\$140.03	\$153.43	\$138.06
Value of produce per animal unit:				
Dairy products	_____	\$200.09	\$232.80	\$169.11
Net increase in value of dairy cattle	_____	55.95	61.77	56.17
TOTAL VALUE PRODUCED	_____	\$256.04	\$294.57	\$225.28
RETURNS ABOVE FEED PER ANIMAL UNIT	_____	\$116.01	\$141.14	\$ 87.22
RETURNS PER \$100 OF FEED	_____	\$183.00	\$192.00	\$163.00
Animal units of cattle	_____	36.1	39.2	35.1

Items	Your farm	Average of all farms
Beef breeding herd: 5 farms		
Feeds per animal unit, lbs.:		
Concentrates	_____	469
Legume	_____	4013
Silage	_____	3272
Other hay	_____	---
Feed cost per animal units:		
Concentrates	\$ _____	\$10.51
Roughages	\$ _____	39.76
Pasture	\$ _____	23.03
TOTAL FEED COSTS	_____	\$73.30
Value of produce per animal unit:		
Dairy Products	_____	\$ 10
Net increase in value of animals	_____	116.05
TOTAL VALUE PRODUCED	_____	\$116.15
RETURNS ABOVE FEED COST PER ANIMAL UNITS	_____	\$42.85
RETURNS FOR \$100 OF FEED	_____	\$158.00
Number of cows and herd bulls	_____	25.2
Number of animal units in the herd	_____	26.4
Pounds of beef produced (ave. 3 herds Austin area)	_____	13143
Feeding cattle: 15 farms		
Feeds per cwt. beef produced, lbs.:		
Corn	_____	587
Small grain	_____	59
Commercial feeds	_____	63
Legume hay	_____	252
Other hay and fodder	_____	
Total concentrates	_____	709
Total hay and fodder	_____	149
Silage	_____	528
Feed cost per cwt. beef produced:		
Concentrates	\$ _____	\$ 14.14
Roughages	_____	3.95
Pasture	_____	.04
TOTAL FEED COSTS	_____	\$ 18.13
Net increase in value of feeders	_____	21.33
RETURNS ABOVE FEED COST PER CWT. BEEF PRODUCED	_____	3.20
RETURNS FOR \$100 OF FEED	\$ _____	\$118.00
Price paid per cwt beef bought	\$ _____	\$ 21.45
Price received for feeder cattle sold	_____	22.31
Number of animal units	_____	84.9
Pounds of beef produced	_____	48712

SHEEP

Farm flocks in this area are small and the feed consumption is often impossible to determine. This years report is a compilation rather than an exact average. Only four operators had breeding flocks of forty or more. Except for average weight of fleeces only information from these flocks was used. Nine farms had sheep during the year.

Table 16 Feed Costs and Returns from a Farm Flock of Sheep 1960

Items	Your farm	Average of 4 farms in Southern Minnesota
Feeds per head,* lbs.:		
Concentrates	_____	159
Legume hay	_____	519
Other hay	_____	---
Silage	_____	185
Feed cost per head:		
Concentrates	\$ _____	\$ 3.03
Roughages	_____	4.34
Pasture	_____	1.43
TOTAL FEED COSTS	\$ _____	\$ 8.80
Value of produce per head:		
Wool	_____	\$ 5.29***
Net increase in value of sheep	_____	9.80
TOTAL VALUE PRODUCED	\$ _____	15.09
RETURNS ABOVE FEED COST PER HEAD	\$ _____	\$ 6.29
RETURNS FOR \$100 OR FEED	\$ _____	\$71.00
Price per cwt. of lambs sold	\$ _____	\$18.22
Price per lb. wool sold (cents)	_____	.46****
Pounds of wool per sheep sheared	_____	9.00
Number of ewes kept for lambing	_____	70.
Per cent lamb crop**	_____	101
Per cent death loss**	_____	7
Number of head of sheep*	_____	50

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

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

*** Wool return including incentive payment.

**** Price per pound excludes incentive payment.

CHICKENS

Flocks from 21 farms are included in this report. Only those flocks averaging 200 or more hens, and having a full year's production are included in the averages. Thirty-six did not have laying hens at any time of the year. Some kept a few hens to provide eggs for the family.

Table 17 Feed costs and Returns from Chickens 1960*

Items	Your farm	Average of 21 farms	7 farms highest in return above feed	7 farms lowest in return above feed
Feed Per hen, lbs.:				
Grain	_____	82	80	74
Commercial feeds	_____	<u>44</u>	<u>61</u>	<u>41</u>
Total concentrates	_____	126	141	115
TOTAL FEED COST PER HEN	_____	\$3.30	\$3.57	\$3.20
Value of produce per hen:				
Eggs sold & used in house	_____	\$5.39	\$6.61	\$4.09
Net increase in value of chickens	_____	<u>-.05</u>	.22	<u>-.25</u>
TOTAL VALUE PRODUCED	_____	\$5.34	\$6.83	\$3.84
RETURNS ABOVE FEED COST PER HEN	_____	\$2.04	\$3.26	.64
RETURNS FOR \$100 OF FEED	_____	\$162.00	\$193.00	\$120.00
Price rec'd per doz egg sold (cents)	_____	30.8	32.1	29.6
Eggs laid per hen	_____	211	252	161
Ave. no. hens on farm during year	_____	694	705	416
Per cent death loss of hens	_____	9.6%	6.2%	10.3%

* Includes feeds and returns from laying flock and chicks raised.

TURKEYS

Only one cooperator had turkeys. Because this was a large operation, the information should be of value to anyone interested in the turkey enterprise. In past years this operator has been consistently above the group average in return over feed cost.

Table 18 Feed Costs and Returns for Turkeys, 1960

Items	Your farm	One farm
Feed per cwt. turkeys produced, lbs.:		
Grain	_____	177
Commercial feeds	_____	205
Total Concentrates	_____	382
Feed cost per cwt. turkeys produced	_____	\$13.90
Egg Sales	_____	4.04
Net increase in value per cwt turkeys produced	_____	22.17
Total Value produced	_____	\$26.21
RETURNS ABOVE FEED COST PER CWT TURKEYS PRODUCED	_____	\$12.31
RETURNS FOR \$100 OF FEED	_____	\$189.00
Price paid per poult purchased (cents)	_____	57
*Per cent death loss	_____	2.7
Price received per lb. turkeys sold (cents)	_____	24.
Weight per bird sold (lbs.)	_____	14.

Table 12 Average Prices Used for Feeds, 1960

Item	Value	Item	Value
Ear corn, per bu.	\$.95	Red or alsike clover hay/ton	\$16.50
Oats, per bu.	.58	Non-legume, per ton	12.00
Alfalfa hay, per ton	18.00	Corn silage, per ton	6.00

Table 13 Power and Mach. and Building Exp. per Crop Acre, 1960

	Your farm	69 farms	High 17	Low 17
Crop acres per farm	_____	202	197	191
Power exp. per crop acre	_____	\$6.34	\$4.80	\$7.67
Crop livestock and building expense per crop acre	_____	\$6.51	\$4.60	\$8.14

SUMMARY OF FARM EARNINGS BY YEARS

Items	1956	1957	1958	1959	1960
FARM RECEIPTS					
Dairy Cattle	\$1319	\$1220	\$1481	\$1828	\$1160
Dairy Products	4578	4406	4517	4492	4726
Beef cattle (including feeders)	2654	2960	3630	5130	6958
Hogs	4468	6814	7083	5895	6426
Sheep and wool	73	137	121	221	181
Horses	8	2	5	3	---
Poultry (including turkeys)	1588	1609	1573	1879	2280
Eggs	1011	1334	1095	917	1628
Corn	1729	1683	1862	1473	1468
Small grain	173	332	372	495	401
Other crops	1072	896	1118	975	961
Machine equipment sold & gas tax refund	110	134	173	194	172
Income from work off the farm	223	152	349	357	406
Miscellaneous	321	232	143	237	239
(1) Total farm sales	19327	21911	23522	24096	27006
(2) Increase in farm capital	3331	1993	3891	2754	1795
(3) Family living from the farm	226	260	269	271	326
(4) Total farm receipts (1)+(2)+(3)	22884	24164	27682	27121	29127
FARM EXPENSE					
Dairy cattle bought	\$ 401	\$ 301	\$ 313	\$ 539	\$ 373
Beef cattle bought (including feeders)	1771	2038	2618	3290	3493
Hogs bought	210	489	633	387	530
Sheep bought (including feeders)	1	10	43	287	43
Horses bought	2	---	---	---	---
Poultry bought	452	465	501	475	720
Misc. Livestock	475	539	624	546	777
Feed bought	3479	3946	4377	4585	5546
Fertilizers	652	892	955	1112	1085
Other crop expenses	512	678	645	894	695
Custom work hired	591	565	672	593	607
Gas, oil & grease bought (farm share)	788	817	931	949	991
Repair of mechanical power (farm share)	353	375	419	487	533
Repair & upkeep of real estate	222	345	468	377	324
Repair & upkeep of crop & general mach'y	228	289	326	354	397
Repair & upkeep of livestock equipment	114	177	127	97	139
Wages of hired labor	607	570	503	606	570
Electricity expense (farm share)	203	221	235	257	309
Real estate & personal property taxes	655	657	704	838	906
Cash rent	---	---	---	---	---
General farm expense	230	235	290	302	330
(5) Total cash operating expense	11946	13609	15384	16975	18368
(6) Cap. purchases, mech. power bought	536	680	914	920	697
(7) Crop & Gen. Machinery bought	750	912	990	1448	1174
(8) Livestock equipment bought	434	316	385	400	628
(9) New real estate improvements	735	848	1652	1136	1360
(10) Total farm purchases (5) to (9)	14401	16365	19325	20879	22227
(11) Decrease in farm capital	---	---	---	---	---
(12) Interest on farm capital	2257	2328	2535	2839	3106
(13) Unpaid family labor	364	345	348	380	529
(14) Board furnished hired labor	71	20	41	41	51
(15) Total farm expense (10) to (14)	17093	19058	22249	24139	25913
(16) Labor earnings (4) - (15)	5791	5106	5433	2982	3214

THIEF RIVER FALLS



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