

1962 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

APRIL, 1963

REPRINT - 150

1962 REPORT OF THE VOCATIONAL AGRICULTURE
FARM ANALYSIS SERVICE IN EAST SOUTH CENTRAL MINNESOTA

Charles M. Painter

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INTRODUCTION

This is the eighth year that an analysis has been made by the Austin Area Vocational-Technical 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 to express our appreciation to J. A. Kentta, Printing Instructor of the Austin Area Vocational-Technical School, and his class for preparing our cover page and assembling the report. The special design on the cover page is characteristic of Jack's creativeness.

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-Technical School. Analysis assistants were: Madge Anderson, Dexter; Elaine Harber and Eileen Heimsness, both of Austin; Audrey Anhorn of Faribault and Patricia Francis of Blooming Prairie. Helen Bergh and Darlene Corson, school secretaries, deserve the credit for the neat and accurate jobs of typing and duplicating. Without the excellent work and team effort of these people this report would not have been possible.

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; Morton A. Carney, Director of the Austin Area Vocational-Technical School and Irwin T. Mickelson, Austin Superintendent of Schools. William Knaak, former Assistant Director of Vocational Education, assisted in the early development of the program. Technical assistance was provided by the University Agricultural Education Department under the direction of Dr. Milo Peterson.

The professional assistance of the University Division of Agricultural Economics and the Agricultural 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 1962 farm records for analysis:

<u>Name of School</u>	<u>No. of Books</u>	<u>Instructors</u>
Adams	5	Dwain Vangsness*
Austin	12	Leland Arneson* Charles Painter
Hayfield	9	Bruce Oxton* Bert Fuller Frank Moon
Dodge Center	1	Herbert Hanson*
Blooming Prairie	28	Eugene Francis* Truman Tilleraas
Faribault	39	Ralph Palan* Paul Day
Spring Valley	3	Ed Morine* Rollis Larson
Wanamingo	2	Robert Johnson*
Zumbrota	3	Gerald Halvorson*
TOTAL	102	

* Instructor responsible for the Adult Agriculture program.

Table 1 Summary of Farm Inventories 1962*

Items	Your farm		Average of 90 farms	
	Jan. 1	Dec. 31	Jan. 1	Dec. 31
Size of farm (acres)			240	
Size of business (work units)**			458	
Dairy and dual purpose cows			\$ 3312	\$ 3387
Other dairy and dual purpose cattle			1863	1799
Beef cattle (including feeders)			3285	3064
Hogs			3011	3423
Sheep (including feeders)			116	117
Poultry (including turkeys)			169	189
Productive livestock (total)			11756	11979
Crop, seed and feed			7514	7157
Power machinery (farm share)			3248	3526
Crop and general machinery			4460	4667
Livestock equipment			1162	1243
Machinery & equipment (total)			8870	9436
Miscellaneous			----	----
Land			20173	20173
Buildings, fences, etc.			13386	13624
Total farm capital			61699	62369

Items	22 most profitable farms		22 least profitable farms	
	Jan. 1	Dec. 31	Jan. 1	Dec. 31
Size of farm (acres)	246		279	
Size of business (work units)**	540		416	
Dairy and dual purpose cows	\$ 3919	\$ 4112	\$ 2564	\$ 2680
Other dairy & dual purpose cows	2304	2370	1351	1199
Beef cattle (including feeders)	1326	1540	4523	4883
Hogs	4505	5282	2754	3045
Sheep (including feeders)	161	166	148	168
Poultry (including turkeys)	140	141	217	246
Productive livestock (total)	12355	13611	11557	12221
Crop, seed, feed	9875	10061	7526	6077
Power machinery (farm share)	3905	4075	3487	3991
Crop & general machinery	5517	5443	5096	5238
Livestock equipment	1477	1669	849	815
Machinery & equipment (total)	10899	11187	9432	10044
Miscellaneous	-----	-----	-----	-----
Land	23728	23728	21041	21041
Buildings, fences, etc.	14651	15139	13178	13088
Total farm capital	71508	73726	62734	62471

* 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) 1962

Items	Your farm	Average of 90 farms	22 most profitable farms	22 least profitable farms
FARM RECEIPTS				
Dairy and dual purpose cattle	_____	\$ 1402	\$ 1515	\$ 1016
Dairy products	_____	5050	6238	3819
Beef cattle (including feeders)	_____	4645	1847	4425
Hogs	_____	8346	13160	7572
Sheep & wool (including feeders)	_____	155	361	95
Horses	_____	---	---	--
Poultry	_____	49	53	60
Eggs	_____	676	644	747
Corn	_____	1601	2065	1147
Small grain	_____	507	626	382
Other crops	_____	1491	1943	1507
Mach & equip sold & gas tax ref.	_____	266	262	240
Income from work off the farm	_____	228	214	276
Misc. farm income	_____	983	1240	971
(1) Total farm sales	_____	25399	30168	22257
(2) Increase in farm capital	_____	669	2218	-----
(3) Family living from the farm	_____	368	440	346
(4) Total farm receipts (1+2+3)	_____	26436	32826	22603
FARM EXPENSES				
Dairy & dual pur. cattle bought	_____	250	181	238
Beef cattle bought (inc. f's)	_____	2386	1189	2690
Hogs bought	_____	669	951	1038
Sheep bought (inc. feeders)	_____	5	8	2
Horses bought	_____	---	---	---
Poultry bought	_____	92	64	134
Misc. livestock expense	_____	570	686	460
Feed bought	_____	4238	4780	3846
Fertilizers	_____	1065	1474	920
Other crop expenses	_____	716	929	573
Custom work hired	_____	629	781	502
Gas, oil & grease bought (F.share)	_____	1010	1119	1017
Rep. mechanical power (F. share)	_____	534	582	578
Rep. & upkeep of real estate	_____	375	430	412
Rep. & upkeep of crop & gen. mach.	_____	357	405	388
Rep. & upkeep of livestock equip.	_____	158	208	183
Wages of hired labor	_____	348	377	263
Electricity expense (farm share)	_____	300	386	252
Real estate & pers. prop. taxes	_____	1066	1235	1120
Cash rent	_____	---	---	---
General farm expenses	_____	310	342	319
(5) Total cash operating expense	_____	15078	16127	14935
(6) Cap. purc-mech. pow (F.share)	_____	992	907	1399
(7) Cap. purc-crop & gen. mach.	_____	1090	1060	993
(8) Cap. purc livestock equip.	_____	320	472	145
(9) Cap. pur. bldgs. & fencing	_____	1036	1316	778
(10) Total farm purchases (5-9)	_____	18516	19882	18250
(11) Decrease in farm capital	_____	----	----	264
(12) Interest on farm capital	_____	3138	3688	3182
(13) Unpaid family labor	_____	638	849	601
(14) Board furnished hired labor	_____	67	72	20
(15) Total farm expenses (10-14)	_____	22359	24491	22317
(16) Labor earnings (4) - 15	_____	4077	8335	286

See Footnote* on page 5

Table 3 Summary of Farm Earnings (Enterprise Statement) 1962*

Items	Your farm	Average of 90 farms	22 most profitable farms	22 least profitable farms
<u>RETURNS AND NET INCREASES</u>				
1. Dairy and dual-purpose cows	_____	\$ 5079	\$ 6312	\$ 3748
2. Other dairy & dual-pur. cattle	_____	1557	2024	1105
3. Beef breeding herd	_____	267	1	407
4. Feeder cattle	_____	1716	793	1702
5. Hogs	_____	8148	13071	6882
6. Sheep - farm flock	_____	152	357	113
7. Sheep - feeders	_____	---	---	---
8. Turkeys	_____	---	---	---
9. Chickens	_____	688	667	758
10. All productive livestock	_____	17607	23225	14715
11. Value of feed fed to livestock	_____	11054	13308	10533
12. Return over feed from livestock	_____	6553	9917	4182
13. Crops, seed, and feed	_____	8181	10841	6708
14. Income from labor off the farm	_____	132	118	170
15. Agricultural conservation payments	_____	772	800	887
16. Miscellaneous	_____	209	441	83
17. Total returns and net increases	_____	15847	22117	12030
<u>EXPENSES AND NET DECREASES</u>				
18. Horses	_____	\$ ---	\$ ---	\$ ---
19. Truck	_____	307	363	344
20. Auto (farm share)	_____	424	478	494
21. Tractor	_____	1276	1361	1392
22. Elec. & gas engine exp. (F share)	_____	286	350	253
23. Hired power	_____	306	393	260
24. Total power	_____	2599	2945	2743
25. Crop & general machinery	_____	1305	1612	1295
26. Livestock equipment	_____	391	474	360
27. Buildings, fencing & tiling	_____	1137	1255	1218
28. Misc. prod. livestock expense	_____	570	686	460
29. Labor	_____	1256	1545	1047
30. Real estate taxes	_____	872	1012	924
31. Personal property tax	_____	193	223	196
32. Insurance	_____	160	201	164
33. General farm	_____	149	141	155
34. Interest on farm capital	_____	3138	3688	3182
35. Total expenses & net decrease	_____	11770	13782	11744
36. Labor earnings	_____	4077	8335	286

* 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 1962

Items	Your farm	Average of 26 farms
Number of persons - family		5.4
Number of adult equivalent - family		3.8
Food and meals bought		\$1096
Operating and supplies		282
Furnishings and equipment		307
Clothing and clothing materials		416
Personal care, personal spending		120
Education, recreation and development		261
Gifts and special events		164
Medical care and health insurance		446
Church, welfare		273
Pers. share truck & auto exp.		186
Oper. share upkeep on dwelling		112
Pers. share tel. & elect. expense		123
Total cash living expenses		\$3786
Pers. share new auto & truck		160
Taxes and other deductions		28
Life insurance		194
Other savings and investments		77
Total household & personal cash exp.		\$4245
Total family living from the farm		468
Total cash exp. and perquisites		\$4713
Income: Operators labor earnings		\$4540
Return to capital & labor		\$6760

Table 5 Net Worth Statement for those Farmers who kept a
complete record of all Assets and Liabilities 1962 (Operator's share)

Items	Your farm		54 farms	
	Jan. 1	Dec. 31	Jan. 1	Dec. 31
Total farm capital			\$45018	\$46053
Auto (Personal share)			492	550
Dwelling			2364	2299
Other personal assets			4919	5155
TOTAL ASSETS			\$52793	\$54057
Real estate mortgages			\$11746	\$12082
Chattel mortgages			4007	3846
Notes			1569	1574
Accounts payable			705	637
TOTAL LIABILITIES			\$18027	\$18139
Farmer's Net Worth			\$34766	\$35918
Gain in Net Worth				\$+1152

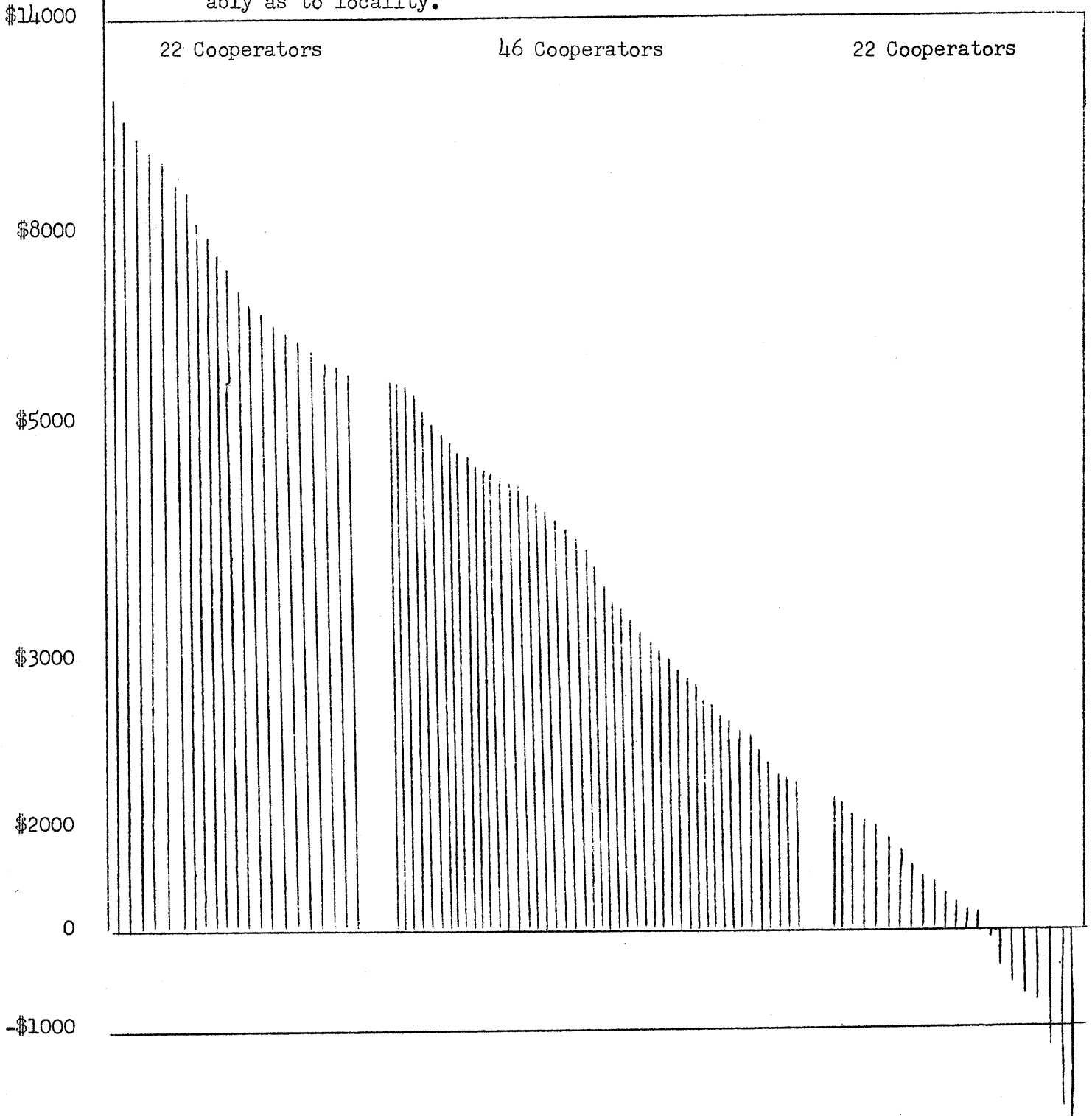
Table 6 Summary of Farm Earnings by Tenure 1962 (operator's share)

Items	Your farm	48* Owners	20 Part Owners	22 Renters
<u>FARM RECEIPTS</u>				
Dairy and dual purpose cattle		\$ 1404	\$ 1422	\$ 667
Dairy products		4427	5173	3048
Beef cattle (including feeders)		3127	11168	1553
Hogs		10714	4713	3510
Sheep and wool (including feeders)		213	29	55
Poultry (including turkeys)		60	59	4
Eggs		828	670	71
Corn		1527	1587	895
Small grain		301	913	316
Other crops		1074	1686	1186
Machinery and equipment sold		292	263	169
Income from work off the farm		183	273	252
Miscellaneous		1021	1136	570
(1) Total farm sales		25171	29092	12296
(2) Increase in farm capital		649	96	1897
(3) Family living from the farm		354	421	236
(4) Total farm receipts (1)+(2)+(3)		26174	29609	14429
<u>FARM EXPENSES</u>				
Dairy and dual purpose cattle bought		\$ 259	\$ 192	\$ 465
Beef cattle bought (including feeders)		1456	6687	381
Hogs bought		1036	139	208
Sheep bought (including feeders)		8	1	1
Poultry		118	104	---
Misc. livestock expense		629	495	256
Feed		4751	3510	2183
Fertilizers		994	1209	550
Other crop expense		711	773	354
Custom work hired		582	688	420
Gas - oil - grease		1001	1033	691
Rep. Tractor, Truck, Auto (farm share)		566	489	413
Rep. and upkeep of real estate		435	251	22
Rep. and upkeep of crop & gen. mach.		387	330	254
Rep. and upkeep of livestock equip.		186	167	75
Wages of hired labor		458	153	255
Electricity expense (farm share)		307	323	200
Real estate & pers. property taxes		1014	751	97
Cash rent		92*	1185	640
Gen. farm and insurance		322	293	154
Interest paid		1068	1148	342
Total cash operating expenses		16380	19921	7961
Mec. power bought (farm share)		874	950	1264
Crop and gen. mach. bought		1003	1267	1078
Livestock equip. bought		347	328	244
New real estate improvements		1256	895	234
(5) Total farm purchases		19860	23361	10781
(6) Decrease in farm capital		---	---	---
(7) Interest on farm capital		1973	1542	528
(8) Unpaid family labor		666	776	370
(9) Board furnished hired labor		73	70	47
(10) Total farm expenses (5+6+7+8+9)		22572	25749	11726
(11) Labor earnings (4) - (10)		3602	3860	2703
(12) Ret. to cap. & fam. lab. (7+8+11)		6241	6178	3601

* There were some small acreages for additional hay or special crops rented on a few of these farms.

RANGE IN EARNINGS

Range in earnings was wider than for 1961. The difference between the top one fourth and bottom one fourth was very significant. Prices were slightly lower than for 1961 and crop yields averaged far below those of 1961. Yields which were again a very important factor in determining labor earnings, varied considerably as to locality.



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 1962

Measures used in chart on page 11	Your farm	Average of 90 farms	22 most profitable farms	22 least profitable farms
Labor earnings	\$ _____	\$4077	\$8335	\$ 286
(1) Crop yields*	_____	100	111	88
(2) Per cent tillable land in high return crops	_____	64.7	67.4	61.8
(3) Return for \$100 feed to produce livestock*	_____	100	110	88
(4) Prod. livestock units per 100 acres**	_____	36.7	38.3	36.0
(5) Size of business-work units	_____	458	540	416
(6) Work units per worker	_____	327	359	307
(7) Power; machinery; equipment; building expense per work unit	\$ _____	\$12.24	\$11.67	\$14.34
Items related to some of the above measures***				
(3) Index of return for \$100 feed from:				
Dairy cattle (see pgs 15 & 16)	_____	100	103	86
Beef cattle-breeding herd (see page 17)	_____	100	105	90
Beef cattle-feeders (see pg 17)	_____	100	133	77
Hogs (see pages 13 & 14)	_____	100	109	87
Sheep-farm flock (see pg 18)	_____	100	117	88
Turkeys (see page 20)	_____	100	---	--
Chickens (see page 19)	_____	100	109	89
(4) Number of animal units	_____	76.4	89.5	74.8
(5) Work units on crop	_____	107	125	103
Work units on prod. livestock	_____	351	415	313
(7) Power expense per work unit	\$ _____	\$5.96	\$5.56	\$7.05
Crop Machinery expense per work units	\$ _____	\$2.93	\$2.93	\$3.29
Livestock equip expense per work unit	\$ _____	\$.85	\$.90	\$.92
Building & fence expense per work unit	\$ _____	\$2.50	\$2.28	\$3.08

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

THERMOMETER CHART

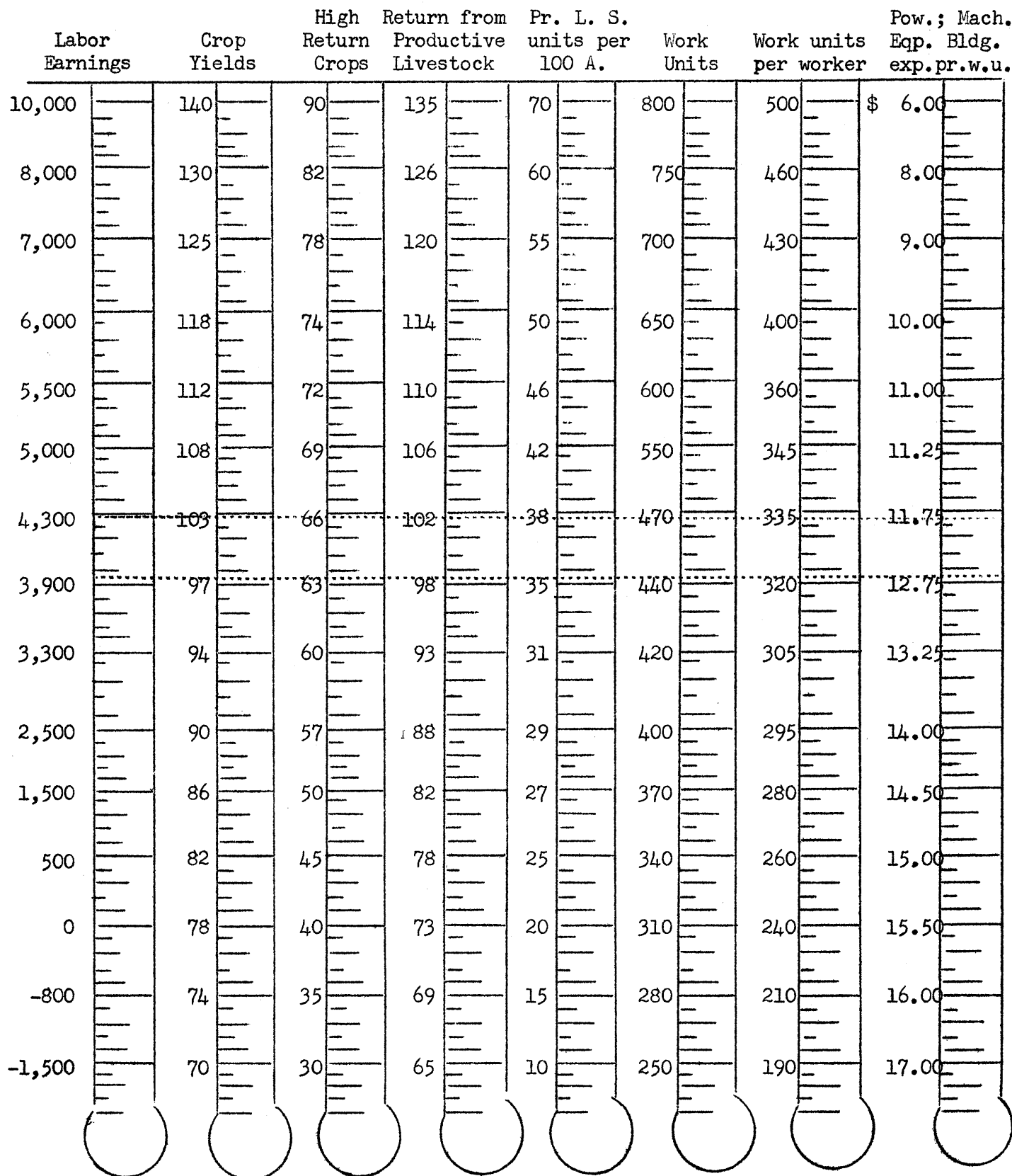


Table 9 Distribution of Acres and Yield 1962

Crop	Crop rating	Number growing	Acres your farm	Average acres of 99 farms	Your yields	Average yield
Oats (and mixtures)	D	87	_____	24.3	_____	51.9
Oats silage	C	3	_____	.4	_____	6.6 T
Canning peas	B	2	_____	.3	_____	\$58.69
Wheat	C	37	_____	5.4	_____	28.8
Barley	D	1	_____	.2	_____	27.0
Flax	C	2	_____	.2	_____	12.0
Total small grain & peas			_____	30.8	_____	
Canning corn	B	5	_____	.7	_____	4.9 T
Corn grain	A	99	_____	73.9	_____	68.5
Soybeans (grain)	B	72	_____	29.1	_____	20.2
Corn silage	B	66	_____	7.4	_____	12.6 T
Corn or cane fodder	D	0	_____		_____	0
Total cultivated crops				111.1	_____	
Alfalfa hay	B	88	_____	25.5	_____	3.1
Red clover hay	C	12	_____	1.6	_____	2.9
Other Leg. & Leg. mixtures	C	2	_____	.2	_____	3.0
*Misc. hay and seed	D	5	_____	.6	_____	2.0
Total tillable land in pasture				27.9	_____	
Alfalfa pasture	B	50	_____	9.2		
Other legume pasture (C or B)		9	_____	1.4		
Other tillable pasture	D	7	_____	.5		
Total tillable land in pasture				11.1		
Government program		61	_____	22.8		
Tillable land not cropped (inc. plowdown & waterways)		17	_____	1.3		
Total tillable land			_____	205.0		
Wild hay			_____	.7		
Non-tillable pasture			_____	15.1		
Timber			_____	2.4		
Roads and waste			_____	9.3		
Farmstead			_____	9.3		
Total acres in farm			_____	241.8		
Per cent land tillable			_____	84.9		
Per cent in high return crops			_____	65.2		

* 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 1962

	Dairy or Dual Purpose Cattle			Beef
	Cows	Other	All	Breeding
				Herd
Total returns				
Total feed cost				
Total return over feed				
	Feeder		Farm Flock	
	Cattle	Hogs	of Sheep	Chickens
Total returns				
Total feed cost				
Total return over feed				

Feed is the largest single item of cost for all classes of livestock. 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 II Feed Costs and Returns from Hogs 1962

Items	Your farm	Average of 59 farms	20 farms highest in returns above feed	20 farms lowest in returns above feed
Feed per cwt. hogs produced, lbs:				
Corn	—	334	317	371
Small grain	—	51	38	62
Commercial feeds	—	67	65	69
Total concentrates	—	452	420	502
Forage	—	6	5	6
Feed cost per cwt. hogs produced:				
Concentrates (plus forage)	—	\$10.94	\$10.17	\$12.07
Pasture	—	.02	.02	.02
TOTAL FEED COSTS	—	\$10.96	\$10.19	\$12.09
Net increase in val per cwt. hogs pro.	—	\$16.20	\$17.32	\$15.42
RETURNS ABOVE FEED COST PER CWT. HOGS PRODUCED	—	\$ 5.24	\$ 7.13	\$ 3.33
RETURN FOR \$100 OF FEED	—	\$148.00	\$170.00	\$128.00
Price received per cwt. hogs sold	—	\$16.63	\$16.99	\$16.20
No. of spring litters raised	—	21	21	17
No. of fall litters raised	—	20	22	14
Total no. of litters raised	—	41	43	31
No. of pigs born per litter	—	9.5	9.8	9.3
No. of pigs weaned per litter	—	7.5	7.8	7.3
Pounds of hogs produced	—	68196	71388	52624

Operators producing less than 8000 pounds of pork are omitted from hog averages. Of the 90 cooperators, 77 produced pork. Seven feeder pig operations were omitted and will be included in a later report. Four other records were questionable and seven showed a production of less than 8000 pounds of pork.

DAIRY AND DUAL PURPOSE CATTLE

No herds were classed as dual purpose. Several farms raising only dairy heifers were omitted as were herds with averages of less than five cows. Seven other operators had some dairy animals consisting of either young dairy stock only, or fewer than five cows.

Table 12 Factors of Cost and Returns from Dairy Cows 1962

Items	Your farm	Average of 57 farms	18 farms highest in butterfat per cow	18 farms lowest in butterfat per cow
Pounds of butterfat per cow	_____	353	421	282
Pounds of milk per cow	_____	9393	10916	7717
% of butterfat in milk	_____	3.7	3.8	3.6
Price rec. per lb. of B.F. sold ¢	_____	92.0	93.9	90.0
Price rec. per cwt. milk sold	_____	3.42	3.43	3.34
Feed per cow, lbs.:				
Corn	_____	2803	3226	2267
Small grain	_____	584	754	564
Commercial feeds	_____	501	616	370
Legume hay	_____	5170	5899	4839
Other hay	_____	188	123	417
Total concentrates	_____	3888	4596	3201
Total dry roughage	_____	5358	6022	5256
Silage	_____	6442	7372	5913
Feed cost per cow:				
Concentrates	_____	\$83.52	\$98.99	\$68.05
Roughages	_____	67.63	75.41	63.45
Pasture	_____	8.51	8.34	9.25
TOTAL FEED COSTS	_____	\$159.66	\$182.74	\$140.75
Value of produce per cow:				
B.F. sales	_____	\$313.85	\$383.01	\$243.06
Dairy products used in home	_____	5.10	5.51	4.63
Milk to livestock	_____	6.82	7.51	7.84
Net increases in value of cows	_____	-10.91	-7.84	-8.71
TOTAL VALUE PRODUCED	_____	\$314.86	\$388.19	\$246.82
RETURNS ABOVE FEED COST PER COW	_____	\$155.20	\$205.45	\$106.07
RETURNS FOR \$100 OF FEED	_____	\$197.00	\$212.00	\$175.00
Feed cost per lb. B.F. (cents)	_____	45.2	43.2	49.9
Number of cows*	_____	24.8	28.8	23.5

* 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 1962

Items	Your farm	Average of 57 farms	18 farms highest in butterfat per cow	18 farms lowest in butterfat per cow
Feeds per head, lbs.:				
Concentrates	_____	945	1049	911
Hay and fodder	_____	1949	1723	1994
Silage	_____	2025	2160	2349
Skim milk	_____	-----	-----	-----
Whole milk	_____	201	244	233
Feed cost per head:				
Concentrates	_____	\$23.00	\$27.19	\$20.34
Roughages	_____	23.25	22.11	24.07
Milk	_____	6.50	7.07	7.80
Pasture	_____	3.63	4.41	3.69
TOTAL FEED COSTS PER HEAD	_____	\$56.38	\$60.78	\$55.90
Net inc. in value of other cattle	_____	\$87.27	\$93.65	\$79.06
RETURNS ABOVE FEED COST PER HEAD	_____	\$30.89	\$32.87	\$23.16
RETURNS FOR \$100 OF FEED	_____	\$155.00	\$154.00	\$141.00
Number of head of other cattle	_____	28.3	33.3	26.5

Table 14 Feed Costs and Returns from All Dairy and Dual Purpose Cattle 1962

Items	Your farm	Average of 57 farms	18 farms highest in butterfat per cow	18 farms lowest in butterfat per cow
Feed per animal unit, lbs.				
Concentrates	_____	3176	3719	2705
Hay and fodder	_____	4806	5013	4838
Silage	_____	5600	6237	5510
TOTAL FEED COSTS PER ANIMAL UNITS	_____	\$137.68	\$154.42	\$125.20
Value of produce per animal unit:				
Dairy products	_____	\$206.54	\$246.55	\$163.40
Net increase in val of dairy catt.	_____	52.73	60.58	47.31
TOTAL VALUE PRODUCED	_____	\$259.27	\$307.13	\$210.71
RETURNS ABOVE FEED PER ANIMAL UNIT	_____	\$121.59	\$152.71	\$ 85.51
RETURNS PER \$100 OF FEED	_____	\$188.00	\$199.00	\$168.00
Animal units of cattle	_____	39.2	45.9	36.8

Table 15 Feed Cost and Returns from Beef Cattle 1962

Items	Your farm	Average of 4 farms
<u>Beef breeding herd: 4 farms</u>		
Feeds per animal unit - lbs.:		
Concentrates	_____	519
Legume	_____	3578
Silage	_____	4708
Other hay	_____	----
Feed cost per animal unit:		
Concentrates	\$ _____	\$ 9.95
Roughages	\$ _____	46.32
Pasture	\$ _____	5.50
TOTAL FEED COSTS	_____	<u>\$61.77</u>
Value of produce per animal unit:		
Dairy products	_____	\$ 1.47
Net increase in value of animals	_____	<u>\$107.31</u>
TOTAL VALUE PRODUCED		<u>\$108.78</u>
RETURNS ABOVE FEED COST PER ANIMAL UNIT	_____	<u>\$47.01</u>
RETURNS FOR \$100 OF FEED		<u>\$176.00</u>
Number of cows and herd bulls	_____	36.3
Number of animal units in the herd	_____	38.3
Pounds of beef produced	_____	15656
<u>Feeding cattle: 20 farms</u>		
Feeds per cwt. beef produced - lbs.:		
Corn	_____	664
Small grain	_____	11
Commercial feeds	_____	54
Legume hay	_____	296
Other hay and fodder	_____	5
Total concentrates	_____	729
Total hay and fodder	_____	301
Silage	_____	487
Feed cost per cwt. beef produced:		
Concentrates	\$ _____	\$14.66
Roughages	_____	4.05
Pasture	_____	.08
TOTAL FEED COSTS	_____	<u>\$18.79</u>
Net increase in value of feeders	_____	<u>\$24.99</u>
RETURNS ABOVE FEED COST PER CWT. BEEF PROD	_____	<u>\$ 6.20</u>
RETURNS FOR \$100 OF FEED	\$ _____	<u>\$133.00</u>
Price paid per cwt. beef bought	\$ _____	\$ 23.82
Price received for feeder cattle sold	_____	22.33
Number of animal units	_____	50.7
Pounds of beef produced	_____	27809

BEEF CATTLE (Continued):

Nine cooperators had beef breeding animals and twenty-eight fed some beef. In some cases club calves and project animals represented the only beef produced. Only those producing 5000 pounds or more of beef were included.

SHEEP

Farm flocks in this area are small and the feed consumption is often impossible to determine. Flocks consisting of fewer than 50 ewes are not included in the report. Only four of the eleven reporting sheep had that number. Costs and returns are determined on a per ewe basis.

* * * *

Table 16 Feed Costs and Returns from a farm flock of Sheep 1962

Items	Your farm	Average of 4 farms
Feeds per ewe - lbs.:		
Concentrates	_____	417
Legume hay	_____	660
Other hay	_____	15
Silage	_____	126
Feed cost per ewe:		
Concentrates	\$ _____	\$ 9.29
Roughages	_____	6.44
Pasture	_____	3.23
TOTAL FEED COSTS	\$ _____	\$18.96
Value of produce per head:		
Wool	_____	\$ 6.95**
Net increase in value of sheep	_____	\$19.88
TOTAL VALUE PRODUCED	\$ _____	\$26.83
RETURNS ABOVE FEED COST PER HEAD	\$ _____	\$ 7.87
RETURNS FOR \$100 OF FEED	\$ _____	\$142.00
Price per cwt. of lambs sold	\$ _____	\$19.52
Price per lb. wool sold (cents)	_____	.49***
Pounds of wool per sheep sheared	_____	8.9
Number of ewes kept for lambing	_____	96.8
Per cent lamb crop*	_____	119
Per cent death loss*	_____	9
Average number of ewes	_____	95.6

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

** Wool return including incentive payment.

*** Price per pound excludes incentive payment.

CHICKENS

Flocks from 23 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. Sixteen other farms kept some laying hens.

Table 17 Feed costs and Returns from Chickens 1962*

Items	Your farm	Average of 23 farms	8 farms highest in return above feed	8 farms lowest in return above feed
Feed per hen - lbs.:				
Grain	_____	85	89	96
Commercial feeds	_____	42	43	36
Total concentrates	_____	127	132	132
TOTAL FEED COST PER HEN	_____	\$3.65	\$3.65	\$3.83
Value of produce per hen:				
Eggs sold & used in the home	_____	\$5.12	\$5.92	\$4.51
Net increase in value of chickens	_____	-.16	-.11	-.33
TOTAL VALUE PRODUCED	_____	\$4.96	\$5.81	\$4.18
RETURNS ABOVE FEED COST PER HEN	_____	\$1.31	\$2.16	\$.35
RETURNS FOR \$100 OF FEED	_____	\$136.00	\$159.00	\$109.00
Price rec'd per doz eggs sold (cents)	_____	27.5	27.7	27.4
Eggs laid per hen	_____	224	253	198
Av. no. hens on farm during year	_____	503	543	621
Per cent death loss of hens	_____	7.0%	5.0%	10.0%

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

Table 18 Feed Costs and Returns from Feeder Pigs 1962

Item	Your farm	Average of 6 farms
Feed per cwt. hogs produced, lbs.:		
Corn	_____	338
Small grain	_____	53
Commercial feeds	_____	42
Total concentrates	_____	433
Buttermilk, hay & potatoes	_____	24
Feed cost per cwt. hog produced:		
Concentrates (inc. alf.)	_____	\$ 9.72
Milk	_____	.02
Pasture	_____	----
TOTAL FEED COSTS	_____	\$ 9.74
Net increase in val. per cwt. hogs prod.	_____	\$12.85
RETURNS ABOVE FEED COST PER CWT. HOGS PROD.	_____	\$ 3.11
RETURNS FOR \$100 OF FEED	_____	\$ 132
Price received per cwt. hogs sold	_____	\$16.88

Table 19 Average prices used for Feed 1962			Pasture (per head per month)
Item			
Ear corn (including shelled & ground)	\$ 1.00	Cows, bulls	\$2.50
Oats, per bu.	.60	Young cattle	1.25
Alfalfa hay, per ton	18.00	Hogs	.16
Red or Alsike clover hay, 1 ton	15.25	Pigs	.08
Non-legume, per ton	10.00	Ewes	.40
Corn silage, per ton	6.00	Lambs	.20

Table 20 Power and Crop Machinery Exp. per crop acre 1962

	Your farm	90 farms	High 22	Low 22
Crop acres per farm	_____	170	200	168
Power exp. per crop acre	_____	\$7.49	\$6.79	\$8.28
Crop exp. per crop acre	_____	\$7.66	\$8.04	\$7.70

SUMMARY OF FARM EARNINGS BY YEARS

Items	1957	1958	1959	1960	1961	1962
<u>FARM RECEIPTS</u>						
Dairy cattle	\$ 1220	\$ 1481	\$ 1828	\$ 1160	\$ 1602	\$ 1402
Dairy products	4406	4517	4492	4726	4776	5050
Beef cattle (including feeders)	2960	3630	5130	6958	5585	4645
Hogs	6814	7083	5895	6426	8751	8346
Sheep and wool	137	121	221	181	147	155
Horses	2	5	3	---	---	---
Poultry (including turkeys)	1609	1573	1879	2280	78	49
Eggs	1334	1095	917	1628	989	676
Corn	1683	1862	1473	1468	883	1601
Small grain	332	372	495	401	505	507
Other crops	896	1118	975	961	1179	1491
Machine equipment sold & gas tax refund	134	173	194	172	208	266
Income from work off the farm	152	349	357	406	174	228
Miscellaneous	232	143	237	239	875	983
(1) Total farm sales	21911	23522	24096	27006	25752	25399
(2) Increase in farm capital	1993	3891	2754	1795	3180	669
(3) Family living from the farm	260	269	271	326	341	368
(4) Total farm receipts (1)+(2)+(3)	24164	27682	27121	29127	29273	26436
<u>FARM EXPENSE</u>						
Dairy cattle bought	\$ 301	\$ 313	\$ 539	\$ 373	\$ 333	\$ 250
Beef cattle bought (including feeders)	2038	2618	3290	3493	3949	2386
Hogs bought	489	633	387	530	537	669
Sheep bought (including feeders)	10	43	287	43	17	5
Horses bought	--	--	---	--	--	--
Poultry bought	465	501	475	720	117	92
Misc. livestock	539	624	546	777	568	570
Feed bought	3946	4377	4585	5546	4604	4238
Fertilizers	892	955	1112	1085	1000	1065
Other crop expenses	678	645	894	695	699	716
Custom work hired	565	672	593	607	592	629
Gas, oil & grease bought (farm share)	817	931	949	991	951	1010
Repair of mechanical power (farm share)	375	419	487	533	522	534
Repair & upkeep of real estate	345	468	377	324	332	375
Repair & upkeep of crop & gen. machinery	289	326	354	397	347	357
Repair & upkeep of livestock equipment	177	127	97	139	168	158
Wages of hired labor	570	503	606	570	459	348
Electricity expense (farm share)	221	235	257	309	292	300
Real estate & personal property taxes	657	704	838	906	934	1066
Cash rent	---	---	---	---	---	---
General farm expense	235	290	302	330	293	310
(5) Total cash operating expense	13609	15384	16975	18368	16714	15078
(6) Cap. purchases, mech. power bought	680	914	920	697	560	992
(7) Crop & gen. machinery bought	912	990	1448	1174	995	1090
(8) Livestock equipment bought	316	385	400	628	216	320
(9) New real estate improvements	848	1652	1136	1360	1010	1036
(10) Total farm purchases (5) to (9)	16365	19325	20879	22227	19495	18516
(11) Decrease in farm capital	-----	-----	-----	-----	-----	-----
(12) Interest on farm capital	2328	2535	2839	3106	3077	3138
(13) Unpaid family labor	345	348	380	529	550	638
(14) Board furnished hired labor	20	41	41	51	68	67
(15) Total farm expense (10) to (14)	19058	22249	24139	25913	23190	22359
(16) Labor earnings (4) -- (15)	5106	5433	2982	3214	6083	4077

