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UNIVERSITY OF MINNESOTA  
Department of Agriculture  
and  
UNITED STATES DEPARTMENT OF AGRICULTURE  
Bureau of Agricultural Economics  
and the  
County Extension Services of  
Dakota, Dodge, Freeborn, Goodhue, Le Sueur, Mower, Nicollet,  
Olmsted, Rice, Scott, Steele, Wabasha, Waseca, and Winona Counties  
Cooperating

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Annual Report  
of the  
Southeastern Minnesota  
Farm Management Service  
1950

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Cooperator: \_\_\_\_\_

Mimeographed Report No. 189  
Division of Agricultural Economics  
University Farm  
St. Paul 1, Minnesota  
April 1951

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Twenty-third Annual Report of the Farm Management Service of Dakota, Dodge, Freeborn, Goodhue, Le Sueur, Mower, Nicollet, Olmsted, Rice, Scott, Steele, Wabasha, Waseca, and Winona Counties for the year 1950

Prepared by T. R. Nodland, G. A. Pond and J. A. Tyvand

INTRODUCTION

The Division of Agricultural Economics and the Division of Agricultural Extension of the University of Minnesota, the Bureau of Agricultural Economics of the United States Department of Agriculture, and the county extension services of Dodge, Freeborn, Goodhue, Rice, Steele, and Waseca counties organized late in 1927 the Farm Management Service Project, to operate in the above named counties, beginning January 1, 1928. Additional counties have since been added. This farm management service is offered to farmers who desire to keep farm records, and to have these records summarized and analyzed in connection with those of other farmers. Each farmer who cooperates in this service pays an annual fee which covers a part of the cost. The balance of the cost is defrayed by the University of Minnesota and the United States Department of Agriculture.

General administration of this project, analysis of the records and preparation of the reports is handled by the Division of Agricultural Economics under the direction of G. A. Pond and T. R. Nodland. Extension work in connection with the project is handled by S. B. Cleland and J. B. McNulty of the Agricultural Extension Division. Harvey Bjerke was the field agent for this project. At the end of the year, W. E. McDaniel and Neils Rorholm of the Division of Agricultural Economics aided in closing the records. County agricultural extension agents who cooperate in this project include C. O. Quie, V. Sander, R. E. Jacobs, G. J. Kunau, Russell Miller, F. L. Liebenstein, F. E. Wetherill, Ray Aune, Warren Liebenstein, Ed Slettom, Chester Graham, J. R. Gute, Herbert Feldman, C. F. Murphy, and Norman Mindrum.

The Southeast Minnesota Farm Management Association was organized in 1939 by the farmers cooperating in the S. E. Farm Management Service. This association now represents its membership as an additional cooperating agency to determine policies and especially to maintain the field organization and membership. Officers for 1950 were:

President: R. L. Zimmerman, Racine, Mower County  
Vice President: Sidney Frost, Pine Island, Olmsted County  
Secretary-Treasurer: George Williamson, Shakopee, Scott County

The board of directors included these officers and also the following: Sarah Holland, Dakota County; Harry Morton, Dodge County; Ephraim Magnuson, Freeborn County; Cameron Hayward, Goodhue County; Otto Kajer, Le Sueur County; Sidney Johnson, Nicollet County; Fremont Albers, Rice County; Herman Krueger, Scott County; Fritz Sprenger, Wabasha County; Alfred Trahms, Waseca County; and Norman Luehman, Winona County.

The following tabulation shows by counties the number of records submitted in 1950:

Dakota	8	Mower	8	Steele	15
Dodge	13	Nicollet	13	Wabasha	12
Freeborn	19	Olmsted	14	Waseca	17
Goodhue	22	Rice	11	Winona	10
LeSueur	5	Scott	5	Total	172

The table on page 4 and succeeding pages show 165 farms. Seven farms have been omitted from all the averages in the tables because they differed so widely in type from the others or the records were not sufficiently complete for a full analysis.

Because the farmers included in this study are, in general, above the average in managerial ability and operate larger and more productive farms, they have returns materially higher than the average for this section of the state. There were, nevertheless, wide variations in the methods and practices followed by these men. It is reasonable to assume that similar variations occur among all farmers in the area. To the extent that this is true, this report should be of value to all farmers and to others interested in agriculture in that it illustrates how farm records may be used as a basis for making an analysis of a farm business and for improving the management of a farm.

Table 1. Monthly and Annual Precipitation

	Rochester		Austin		Faribault	
	Precipitation	Departure from normal	Precipitation	Departure from normal	Precipitation	Departure from normal
	Inches	Inches	Inches	Inches	Inches	Inches
January	1.55	+ .45	1.02	+ .13	1.16	+ .48
February	1.33	+ .51	1.00	+ .08	.56	- .13
March	1.86	+ .54	2.79	+1.14	2.43	+1.32
April	2.20	- .26	2.42	+ .10	2.51	+ .60
May	1.75	-2.05	2.55	-2.06	2.52	- .68
June	1.67	-2.92	1.51	-3.71	1.25	-3.12
July	6.33	+3.17	5.74	+2.66	7.04	+3.69
August	1.41	-2.04	1.34	-2.91	1.65	-1.76
September	1.71	-1.77	1.42	-2.56	1.48	-1.97
October	.83	-1.27	1.05	- .81	1.20	- .88
November	.78	- .79	.79	- .79	.67	- .67
December	1.81	+ .89	1.94	+1.07	1.32	+ .64
1950 Total	23.23	-5.54	23.57	-7.66	23.79	-2.48
1949 Total	26.60	-2.17	24.12	-7.11	26.47	+ .20
1948 Total	25.75	-3.04	27.57	-3.66	25.63	-1.64

Weather conditions were unfavorable for farm work and growth of vegetation in April and early May. The spring of 1950, as a whole, was decidedly cooler than usual. Dry weather during the first half of June was favorable for planting and cultivation but moisture was needed for meadows and pastures. July was considerably cooler and wetter than usual. Pasture conditions were below normal and the small grains were short. August was cool and dry and was unfavorable for corn and soybeans. Frost on August 20 killed some corn and soybeans in low places. Conditions were favorable for haying and for maturing late crops. Conditions were ideal in October for drying corn and soybeans. Killing frosts occurred on October 4.

Table 2. Summary of Farm Inventories, 1950\*

Items	Your farm		Average of 165 farms	
	Jan. 1	Dec. 31	Jan. 1	Dec. 31
Size of farm (acres)			222	
Size of business (work units)**			588	
Dairy and dual purpose cows			\$1960	\$ 2212
Other dairy & dual purpose cattle			1186	1545
Beef cattle (incl. feeders)			611	989
Hogs			1135	1463
Sheep (including feeders)			125	155
Poultry (including turkeys)			269	306
Productive livestock (total)			5286	6670
Horses			96	75
Crop, seed, and feed			4370	5016
Power mach. (farm share)			2427	2853
Crop and general mach. (farm share)			3133	3551
Livestock equipment & supplies			644	651
Mach. & equipment (total)			6204	7055
Miscellaneous			8	9
Buildings, fences, etc.			10355	10951
Land			9720	9720
Total farm capital			\$36039	\$39496

Items	33 most profitable farms		33 least profitable farms	
	Jan. 1	Dec. 31	Jan. 1	Dec. 31
Size of farm (acres)	303		200	
Size of business (work units)**	730		557	
Dairy & dual purpose cows	\$2178	\$2593	\$2512	\$2720
Other dairy & dual purpose cattle	1514	2086	1415	1490
Beef cattle (incl. feeders)	1688	2623	-	182
Hogs	1938	2212	872	1230
Sheep (including feeders)	141	178	70	94
Poultry (including turkeys)	333	422	204	223
Productive livestock (total)	7792	10114	5073	5939
Horses	104	90	119	89
Crop, seed, and feed	6466	8041	4248	4227
Power mach. (farm share)	2870	3448	2476	2685
Crop & general machinery	4263	4884	3508	3702
Livestock equipment & supplies	726	698	679	642
Mach. & equipment (total)	7859	9030	6663	7029
Miscellaneous	30	34	-	-
Buildings, fences etc.	13484	14430	9169	9814
Land	13438	13438	8968	8968
Total farm capital	49173	55177	34240	36066

\*For the purpose of comparison, all the data shown in this report with the exception of Tables 5 and 6 are presented on a full-owner basis. The assets, expenses and receipts of the landlord were included in the records from rented farms.

\*\*See page 24 for an explanation of "work units."

Table 3. Summary of Farm Earnings (Cash Statement), 1950

Items	Your farm	Average of 165 farms	33 most profitable farms	33 least profitable farms
<b>FARM RECEIPTS</b>				
Dairy and dual-purpose cows		\$1190	\$1501	\$1099
Dairy products		4005	3982	4148
Other dairy & dual-purpose cattle		957	1031	818
Beef cattle (including feeders)		697	2521	-
Hogs		3926	6798	2719
Sheep and wool (including feeders)		160	179	107
Poultry (including turkeys)		327	611	235
Eggs		1158	1496	825
Horses		19	13	19
Corn		433	483	551
Small grain		766	1317	466
Other crops		669	1270	337
Machinery & equip. sold		505	836	531
Agricultural adjustment payments		59	88	36
Income from work off the farm		351	342	359
Miscellaneous		131	356	62
(1) Total farm sales		15353	22824	12312
(2) Increase in farm capital		3457	6004	1826
(3) Family living from the farm		702	796	639
(4) Total farm receipts (1)+(2)+(3)		19512	29624	14777
<b>FARM EXPENSES</b>				
Dairy and dual-purpose cows bought		\$125	\$106	\$ 97
Other dairy & dual-pur. cattle bought		196	176	92
Beef cattle bought (incl. feeders)		486	1545	170
Hogs bought		179	199	162
Sheep bought (including feeders)		10	11	12
Poultry bought (including turkeys)		148	194	131
Horses bought		9	8	5
Misc. livestock expenses		315	420	302
Misc. crop expenses		819	1043	832
Feed bought		1972	2419	1859
Custom work hired		446	430	442
Mech. power mach. (farm share) (new)		1063	1373	911
Mech. power mach. (farm share) (upkp.)		251	288	261
Mech. pow. (farm share) (gas, oil, etc.)		872	1098	844
Crop and general mach. (new)		1116	1726	869
Crop and general mach. (upkeep)		205	252	176
Livestock equipment (new)		135	126	75
Livestock equipment (upkeep)		99	106	104
Buildings and fencing (new)		1139	1735	1106
Buildings and fencing (upkeep)		409	650	384
Hired labor		891	1347	1228
Taxes		559	712	540
General farm and insurance		213	264	214
(5) Total farm purchases		11657	16228	10816
(6) Decrease in farm capital		-	-	-
(7) Interest on farm capital		1888	2609	1758
(8) Unpaid family labor		462	534	420
(9) Board furnished hired labor		205	274	207
(10) Total farm exp. (sum of (5) to (9))		\$14212	\$19645	\$13201
(11) Operator's labor earnings (4)-(10)		5300	9979	1576

Table 4. Summary of Farm Earnings (Enterprise Statement) 1950\*

Items	Your farm	Average of 165 farms	33 most profitable farms	33 least profitable farms
<b>RETURNS AND NET INCREASES</b>				
Dairy and dual purpose cows	_____	\$5036	\$5452	\$4950
Other dairy & dual pur. cattle	_____	1838	2389	1618
Beef breeding herd	_____	195	165	-
Feeder cattle	_____	424	1645	12
Hogs	_____	4154	7009	2973
Sheep - farm flock	_____	179	210	119
Sheep - feeders	_____	1	-	-
Turkeys	_____	112	277	82
Chickens	_____	1353	1817	944
All productive livestock	_____	13292	18964	10698
Crops, seed and feed	_____	-424	961	-1491
Agricultural conservation payments	_____	59	88	36
Income from labor off the farm	_____	199	209	145
Miscellaneous	_____	257	341	229
(1) Total returns & net increases	_____	13383	20563	9617
<b>EXPENSES AND NET DECREASES</b>				
Horses	_____	\$81	\$81	\$85
Tractor	_____	671	910	580
Truck	_____	248	316	211
Auto (farm share)	_____	297	279	381
Gas engine and elect.exp. (F.share)	_____	171	202	189
Hired power	_____	206	202	201
Total power	_____	1674	1990	1647
Crop and general machinery	_____	730	970	657
Livestock equipment	_____	217	246	209
Buildings, fencing and tiling	_____	793	1094	714
Misc. productive livestock expense	_____	312	409	302
Labor	_____	1697	2290	2000
Real estate taxes	_____	445	571	426
Personal property tax	_____	114	141	114
Insurance	_____	97	137	89
General farm	_____	116	127	125
Interest on farm capital	_____	1888	2609	1758
(2) Total expenses & net decreases	_____	8083	10584	8041
(3) Oper. labor earnings (1)-(2)	_____	5300	9979	1576

\*Cash receipts and expenses are adjusted for changes in inventory for each enterprise and for each item of expense in order to show total receipts and net increases, and total expenses and net decreases. The operator's labor earnings are the same as those on page 4.



Table 5. Net Worth Statement for Those Farmers Who Kept a Complete Record of All Assets and Liabilities, 1950 (Operator's Share)

	Your Farm		43 Owners	
	Jan. 1	Dec. 31	Jan. 1	Dec. 31
Total acres in farm			182.9	
Owned			182.9	
Rented			-	
Total farm capital			\$31977	\$35151
Accounts receivable			283	386
Stocks and bonds			2714	2504
Life insurance			1001	1090
Outside real estate			874	1196
Other outside investments			721	809
Total outside investments			5340	5599
Cash on hand and in bank			791	617
Other household & personal assets			2045	2311
Total cash, household & personal assets			2836	2928
TOTAL ASSETS			40436	44064
Federal Land Bank Mortgage			690	1002
Other mortgages on land operated			3245	2711
Mortgages on other real estate			48	277
Production Credit Association			249	424
Sealed Grain			219	139
Other chattel mortgages			372	429
Notes payable			1261	1601
Accounts payable			250	305
TOTAL LIABILITIES			6334	6888
Farmer's net worth			34102	37176
Gain in net worth				+3074
	18 part-owners*		21 Renters**	
	Jan. 1	Dec. 31	Jan. 1	Dec. 31
Total acres in farm	250.1		184.6	
Owned	137.3		-	
Rented	112.8		184.6	
Total farm capital	\$28936	\$33872	\$10837	\$13180
Accounts receivable	794	777	474	421
Stocks and bonds	1752	1802	1370	1477
Life insurance	1213	1388	544	610
Outside real estate	48	38	33	33
Other outside investments	284	297	215	199
Total outside investments	3297	3525	2162	2319
Cash on hand and in bank	937	862	977	748
Other household & personal assets	1666	2089	2025	2497
Total cash, household & personal assets	2603	2951	3002	3245
TOTAL ASSETS	35630	41125	16475	19165
Federal Land Bank Mortgage	-	333	-	-
Other mortgages on land operated	3215	3621	-	-
Mortgages on other real estate	-	-	-	-
Production Credit Association	161	175	-	161
Sealed grain	138	61	-	68
Other chattel mortgages	44	45	947	478
Notes payable	3426	3821	556	955
Accounts payable	221	336	385	330
TOTAL LIABILITIES	7205	8392	1888	1992
Farmer's net worth	28425	32733	14587	17173
Gain in net worth		+4308		+2586

\* 11 rented for cash, 3 cash and crop share, 2 crop share and 2 livestock and crop share

\*\* 9 rented for cash, 3 cash and crop share, and 9 livestock share.

Table 6. Summary of Farm Earnings by Tenure, 1950 (Operator's Share)

	Your farm	43 Owners	18 part- owners	21 renters
<b>FARM RECEIPTS</b>				
Dairy and dual purpose cows		\$ 1172	\$963	\$551
Dairy products		3744	3459	2915
Other dairy and dual purpose cattle		598	1033	635
Beef cattle (including feeders)		181	451	496
Hogs		3518	3464	2747
Sheep and wool (including feeders)		167	103	78
Poultry (including turkeys)		311	594	147
Eggs		1330	1150	844
Horses		21	24	18
Corn		278	637	167
Small grain		585	982	560
Other crops		442	724	193
Machinery & equipment sold		378	514	263
Agricultural adjustment payments		55	57	34
Income from work off the farm		440	302	376
Miscellaneous		48	76	35
(1) Total farm sales		13268	14533	10059
(2) Increase in farm capital		3174	4936	2343
(3) Family living from the farm		693	677	670
(4) Total farm rec. (1)+(2)+(3)		17135	20146	13072
<b>FARM EXPENSES</b>				
Dairy and dual purpose cows bought		\$ 118	\$ 242	\$ 57
Other dairy & dual pur. cattle bought		101	250	48
Beef cattle bought (including feeders)		389	301	177
Hogs bought		212	269	96
Sheep bought (including feeders)		12	2	-
Poultry bought (including turkeys)		137	213	106
Horses bought		10	19	11
Misc. livestock expenses		292	245	245
Misc. crop expenses		773	832	495
Feed bought		1917	2326	1495
Custom work hired		450	444	341
Mech. power mach. (farm share) (new)		1097	952	778
Mech. power mach. (farm share) (upkeep)		239	217	213
Mech. power (farm share) (gas, oil, etc.)		799	843	683
Crop and general mach. (new)		865	1380	497
Crop and general mach. (upkeep)		200	199	144
Livestock equipment (new)		123	121	156
Livestock equipment (upkeep)		118	99	81
Land, buildings & fencing (new)		1175	2131	631
Buildings and fencing (upkeep)		335	345	182
Hired labor		754	958	459
Taxes (real estate & pers. property)		463	353	88
General farm and insurance		225	181	115
Cash rent		-	494	649
Interest paid		219	271	71
(5) Total farm purchases		11023	13687	7818
(6) Decrease in farm capital		-	-	-
(7) Interest on farm capital		1459	1299	529
(8) Unpaid family labor		242	205	238
(9) Board furnished hired labor		183	284	204
(10) Total farm exp. (sum of (5) to (9))		12907	15475	8789
(11) Operator's labor earn. (4) - (10)		4228	4671	4283
(12) Ret. cap. & family lab. (7)+(8)+(11)		5929	6175	5050

Table 7. Household and Personal Expenses for  
Those Farms Which Kept Complete Accounts of These Expenses, 1950

Items	Your farm	Average of 89 farms	18 most profit- able farms	18 least profit- able farms
Number of persons - family	_____	4.1	4.5	3.7
Number of adult equiv. - family	_____	3.0	3.2	2.9
other*	_____	.6	1.0	.4
Food and meals bought	_____	\$656	\$724	\$575
Operating and supplies	_____	277	330	212
Clothing and clothing materials	_____	296	323	272
Personal care, personal spending	_____	87	65	102
Furnishings and equipment	_____	285	261	219
Education, recreation and development	_____	129	111	136
Medical care and health insurance	_____	230	286	247
Church, welfare, gifts	_____	220	294	156
Personal share of auto expense	_____	108	110	114
Household share of elect. & gas eng. exp.	_____	70	83	65
H.H.&pers.shr.of new auto,gas eng.&motors bot.	_____	196	270	66
Total cash living expenses	_____	2554	2857	2164
State and Federal income taxes	_____	\$190	\$265	\$111
Insurance	_____	211	257	147
Total household and personal cash exp.	_____	2955	3379	2422
Food furnished by the farm	_____	416	537	396
Fuel furnished by the farm	_____	21	24	8
House rental	_____	285	387	290
Total cash expenses & perquisites	_____	3677	4327	3116
Purchase of stocks, bonds, and other invest.	_____	418	797	-
Receipts:				
Sale of investments	_____	\$250	\$186	\$ 4
Income from investments	_____	103	253	79
Miscellaneous income	_____	199	81	53

\*Hired help or others boarded.

Table 8. Family Living From the Farm, 1950

Items	Your farm	Average 165 farms	33 most profit-able farms		Your farm	Average 165 farms	33 least profit-able farms	
			profit-able	profit-able			profit-able	profit-able
Adult equiv. - family	—	3.1	3.3	2.8	—	—	—	—
- others	—	.6	.7	.6	—	—	—	—
Whole milk	—	1259 qts.	1374	978	—	\$88.60	\$92.47	\$73.59
Skim milk	—	156 qts.	287	109	—	1.66	4.27	1.01
Cream	—	75 pts.	97	77	—	16.27	22.97	15.55
Farm made butter	—	- lb.	-	-	—	-	-	-
Beef	—	358 lbs.	433	308	—	69.84	91.00	53.49
Hogs	—	384 lbs.	417	343	—	66.25	69.90	57.02
Sheep	—	1 lb.	3	-	—	.18	.91	-
Poultry	—	137 lbs.	158	130	—	26.76	30.72	27.20
Eggs	—	203 doz.	204	162	—	62.07	62.30	50.14
Potatoes	—	6 bu.	6	5	—	8.13	8.16	6.23
Vegetables & fruits	—	—	—	—	—	62.97	60.95	52.42
Farm fuel	—	2 cds.	2	1	—	12.37	15.33	4.24
Rental vl. of house	—	—	—	—	—	287.18	336.82	297.92
Total	—	—	—	—	—	702.28	795.80	638.81

#### CUMULATIVE EFFECT OF EXCELLING IN A NUMBER OF MANAGEMENT FACTORS

Studies of earnings of farmers in this area show that there are seven major management factors causing variations in earnings among farmers within a given year. These seven factors are (1) crop yields, (2) choice of crops, (3) returns from livestock, (4) amount of livestock, (5) size of business, (6) work accomplishment per worker, and (7) control over expenses. The combined or cumulative influence of these seven management factors on earnings is shown in Table 9. The farmer's earnings are determined to a considerable extent by his accomplishments in these seven factors:

Table 9. Relation of Operator's Labor Earnings to the Number of Factors in which the Farmer Excels

No. of factors in which farmer excels	No. of farms	Your farm	The length of the shaded lines is in proportion to the average operator's labor earnings	Average operator's labor earnings
None, 1 or 2	49	—	XXXXXXXXXXXXXXXXXXXXXXX	\$4279
3 or 4	84	—	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	5423
5, 6, or 7	32	—	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6542

The array in Table 9 indicates that it will be worth while for each cooperator to study carefully his ranking on pages 10 and 11, and learn his standing in respect to each of the above factors and the elements of strength and weakness in his farm business.

Table 10. Measures of Farm Organization and Management Efficiency, 1950

Measures used in chart on page 11	Your farm	Average of 165 farms	33 most profit- able farms	33 least profit- able farms
Operator's Labor Earnings	\$_____	\$5300	\$9979	\$1576
(1) Crop yields*	_____	100	102	97
(2) % of tillable land in high ret. crops**	_____	55.9	53.9	59.4
(3) Ret. for \$100 feed to prod. livestock***	_____	100	105	87
(4) Prod. livestock units per 100 acres****	_____	22.7	22.3	23.7
(5) Size of business - work units	_____	588	730	557
(6) Work units per worker	_____	294	332	232
(7) Pow., mach., equip., & bldg. exp. per work unit	_____	\$5.95	\$5.99	\$5.90
Measures and items related to some of the above measures:				
(3) Index of return for \$100 feed from:				
Dairy cattle (see pages 16 & 17)	_____	100	105	88
Dual purpose cattle (see pages 18 & 19)	_____	100	112	92
Beef breeding herd (see page 20)	_____	100	-	-
Feeder cattle (see page 20)	_____	100	104	-
Hogs (see page 15)	_____	100	101	94
Native sheep (see page 21)	_____	100	113	171
Turkeys (see page 24)	_____	100	-	-
Chickens (see page 22)	_____	100	106	91
(4) Number of animal units prod. livestock	_____	42.5	57.9	39.2
(5) Work units on crops	_____	146	209	134
Work units on productive livestock	_____	409	486	400
Other work units	_____	33	35	23
(6) Number of family workers	_____	1.4	1.3	1.6
Number of hired workers	_____	.6	.9	.8
Total number of workers	_____	2.0	2.2	2.4
(7) Power expense per work unit	\$_____	\$2.94	\$2.80	\$3.00
Crops mach. expense per work unit	_____	1.25	1.34	1.20
Livestock equip. exp. per work unit	_____	.39	.35	.38
Building exp. per work unit	_____	1.37	1.50	1.32

\*Given as a percentage of the average

\*\*Crops are marked on page 12 as (A), (B), (C), and (D). All of the acres in (A) crops, one-half of acres in (B) crops, and one-fourth of acres in (C) crops are used in calculating per cent of tillable land in high return crops.

\*\*\*An index weighted by the animal units of livestock.

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

## Thermometer Chart

Using your figures from page 10, locate your standing with respect to the various measures of farm organization and management efficiency. The averages for the 165 farms included in this summary are located between the dotted lines across the center of this page.

Oper. labor earn- ings	Crop Yields	High return crops	Return from pro- ductive livestock	Pr. l.s. units per 100 A.	Work units	Work units per worker	Pow., mach., eq. & bldg. exp. per work unit
\$11700	140	80.0	140	38.5	905	455	1.95
10900	135	77.0	135	36.5	865	435	2.45
10100	130	74.0	130	34.5	825	415	2.95
9300	125	71.0	125	32.5	785	395	3.45
8500	120	68.0	120	30.5	745	375	3.95
7700	115	65.0	115	28.5	705	355	4.45
6900	110	62.0	110	26.5	665	335	4.95
6100	105	59.0	105	24.5	625	315	5.45
.....	.....	.....	.....	.....	.....	.....	.....
5300	100	56.0	100	22.5	585	295	5.95
.....	.....	.....	.....	.....	.....	.....	.....
4500	95	53.0	95	20.5	545	275	6.45
3700	90	50.0	90	18.5	505	255	6.95
2900	85	47.0	85	16.5	465	235	7.45
2100	80	44.0	80	14.5	425	215	7.95
1300	75	41.0	75	12.5	385	195	8.45
500	70	38.0	70	10.5	345	175	8.95
-300	65	35.0	65	8.5	305	155	9.45

Table 11. Distribution of Acres in Farm, 1950

Crop: (A), (B), (C) and (D) refer to ranking used in calculating % of tillable land in High Return Crops (see page 10)	No. growing this crop	Your farm	Average of 165 farms	33 most profitable farms	33 least profitable farms
Canning peas	(A) 17	_____	1.7	1.0	2.2
Flax	(C) 25	_____	2.4	3.6	.5
Barley	(D) 64	_____	7.6	10.3	3.6
Oats and barley	(D) 19	_____	3.1	6.0	3.0
Oats	(D) 161	_____	36.7	44.4	33.2
Oats and wheat	(D) 19	_____	1.4	3.2	.6
Wheat	(D) 40	_____	2.4	4.3	2.1
Rye, millet and buckwheat	(D) 12	_____	.8	1.5	.2
Total small grain and peas	163	_____	56.1	74.3	45.4
Sugar beets, hybrid seed corn, potatoes and truck crops	(A) 19	_____	1.2	3.6	1.4
Corn grain	(A) 161	_____	37.0	56.2	33.6
Corn silage	(B) 127	_____	8.8	12.7	8.1
Sweet corn	(B) 11	_____	1.0	.8	1.0
Soybeans for grain	(C) 52	_____	6.8	15.6	5.1
Corn fodder	(D) 8	_____	.2	-	.1
Total Cultivated crops	164	_____	55.0	88.9	49.3
Alfalfa hay	(A) 161	_____	33.2	36.3	32.5
Red clover hay	(B) 24	_____	1.8	4.5	.6
Soybean hay	(C) 14	_____	1.0	2.3	1.6
Mixed legumes & non-legumes	(C) 9	_____	.7	.6	-
Legumes for seed	(C) 20	_____	.9	.9	.1
Timothy and/or brome hay	(D) 14	_____	.4	.1	.7
Other annual hay	(D) 6	_____	.5	-	1.1
Total tillable land in hay	163	_____	38.5	44.7	36.6
Alfalfa and mixtures incl. alf.	(A) 103	_____	11.6	11.2	15.1
Other legumes and mixtures	(C) 33	_____	3.5	5.0	1.5
Sudan grass or rape pasture	(C) 31	_____	1.3	1.6	1.3
Other tillable land in pasture	(D) 64	_____	6.6	8.4	5.3
Total tillable land in pasture	146	_____	23.0	26.2	23.2
Tillable land not cropped	(D) 6	_____	.3	-	.2
Total tillable land	165	_____	172.9	234.1	154.7
Wild hay (non-tillable)	43	_____	3.4	5.4	5.7
Non-tillable pasture	115	_____	23.9	30.8	22.4
Timber (not pastured)	65	_____	5.9	8.5	4.3
Roads and waste		_____	9.3	15.2	7.4
Farmstead		_____	6.7	9.4	5.9
Total acres in farm		_____	222.1	303.4	200.4
Per cent land tillable		_____	77.8	77.2	77.2
Per cent tillable land in high ret. crops		_____	55.9	53.9	59.4

Table 12. Crop Yields Per Acre, 1950

Crop	Your farm	Average of farms growing each crop
Canning peas, value above seed cost	\$ _____	\$26.90
Flax, bu.	_____	13.1
Barley, bu.	_____	34.6
Oats and barley, bu.	_____	41.2
Oats, bu.	_____	45.7
Oats and wheat, bu.	_____	46.9
Wheat, bu.	_____	22.4
Rye, bu.	_____	21.9
Corn, grain, bu.	_____	52.0
Corn and cane silage, tons	_____	9.1
Sweet corn, tons	_____	4.2
Soybeans, bu.	_____	16.2
Corn and cane fodder, tons	_____	4.6
Alfalfa hay, tons	_____	2.2
Red clover hay, tons	_____	1.7
Soybean hay, tons	_____	1.5
Mixed legume & non-legume hay, tons	_____	1.2
Legumes for seed, lbs.	_____	129
Timothy and/or brome hay, tons	_____	1.2
Other annual hay, tons	_____	1.5
Wild hay, tons	_____	.6

Table 13. Average Price of Feeds, 1950

Item	Value	Item	Value
Ear corn, per bu.	\$1.20	Alfalfa hay, per ton	\$21.00
Oats, per bu.	.72	Red or alsike clov. hay, per ton	17.90
Barley, per bu.	1.20	Soybean hay, per ton	17.90
Wheat, per bu.	2.05	Timothy, per ton	12.20
Soybeans, per bu.	2.45	Wild hay, per ton	11.00
Bran, per cwt.	2.80	Corn fodder, per ton	9.45
Linseed oilmeal, per cwt.	3.95	Corn silage, per ton	6.70
Soybean oilmeal, per cwt.	3.95	Pasture, per mo. per an. unit	1.25
Tankage, per cwt.	6.30	Skim milk, per cwt.	.37



Table 14. Feed Costs for Horses, 1950

Items	Your farm	Average of 109 farms
Feed per horse, lbs.:*		
Grain	_____	352
Hay	_____	3096
Fodder and stover	_____	475
Feed cost per horse:*		
Grain	_____	\$7.68
Roughage	_____	28.61
Pasture	_____	6.37
Total feed cost	_____	42.66
Number of work horses	_____	2.3
Number of colts	_____	.2

\*Two colts equal one horse

Table 15. Power and Machinery Expenses per Crop Acre, 1950

Items	Your farm	Average of 165 farms	33 most profitable farms	33 least profitable farms
Crop acres per farm	_____	153.0	213.3	137.0
Tractor and horse exp. per crop acre	_____	\$5.10	\$4.77	\$5.22
Crop & gen. mach. exp. per crop acre	_____	4.93	4.62	5.01

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

The total "return over feed costs" for each class of livestock is shown in Table 16. This differs from the "return over feed" shown in the enterprise statement in that it is the total for each class of livestock instead of a return "per head" "per unit" or "per 100 pounds". These data indicate the relative importance of different classes of livestock as a source of income and as a market for feed. The total return is the same as the returns and net increases shown on page 5. The 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.

Feed is the largest single item of cost for all classes of livestock. However, the proportion of the total cost represented by feed varies considerably between classes of livestock. Feed makes up approximately 45 per cent of the total costs of maintaining dairy cattle and poultry, 50 per cent in the case of a farm flock of sheep and 75 to 90 per cent for hogs, feeder cattle and feeder lambs. Consequently, it is necessary to secure a relatively higher return over feed from dairy cattle and poultry than from the other livestock enterprises in order to be able to cover all the cost other than feed.

Table 16. Total Feed Costs and Returns From Your Livestock Enterprises, 1950

	Dairy or dual purpose cattle			Beef	
	Cows	Other	All	breeding	Feeder
				herd	Cattle
Total returns	_____	_____	_____	_____	_____
Total feed cost	_____	_____	_____	_____	_____
Total return over feed	_____	_____	_____	_____	_____
		Sheep			
		Farm			
	Hogs	flock	Feeders	Turkeys	Chickens
Total returns	_____	_____	_____	_____	_____
Total feed cost	_____	_____	_____	_____	_____
Total return over feed	_____	_____	_____	_____	_____

Table 17. Feed Costs and Returns from Hogs, 1950

Items	Your farm	Average of 143 farms	29 farms highest in returns above feed	29 farms lowest in returns above feed
Feed per cwt. hogs produced, lbs.:				
Corn	_____	316	275	430
Small grain	_____	119	76	174
Commercial feeds	_____	45	46	48
Total concentrates	_____	480	397	652
Skin milk, buttermilk and whey	_____	110	65	97
Feed cost per cwt. hogs produced:				
Concentrates	\$ _____	\$11.65	\$9.32	\$16.02
Skin milk, buttermilk and whey	_____	.40	.24	.36
Pasture	_____	.15	.17	.17
TOTAL FEED COSTS	\$ _____	12.20	9.73	16.55
Net increase in value per cwt hogs prod.	_____	\$19.19	\$20.56	\$18.30
RETURNS ABOVE FEED COST PER CWT. HOGS PROD.	\$ _____	\$ 6.99	\$10.83	\$ 1.75
RETURNS FOR \$100 OF FEED	\$ _____	\$166	\$217	\$115
Price received per cwt. hogs sold	\$ _____	\$18.25	\$18.93	\$17.77
No. of spring litters raised	_____	10.4	10.7	9.4
No. of fall litters raised	_____	6.3	5.5	5.7
Total no. of litters raised	_____	16.7	16.2	15.1
No. of pigs born per litter	_____	8.3	8.5	8.0
No. of pigs weaned per litter	_____	6.6	6.6	6.4
Pounds of hogs produced	_____	24852	24993	21035

Table 18. Factors of Cost and Returns from Dairy Cows, 1950

Items	Your farm	Average of 141 farms	28 farms highest in butterfat per cow	28 farms lowest in butterfat per cow
Pounds of butterfat per cow	_____	312	387	227
% butterfat in milk	_____	3.8	3.7	3.9
Price rec. per lb. B.F. sold (cents)	_____	80.3	82.0	78.3
As manufacturing cream (cents)	_____	70.2	69.7	70.1
Other (cents)	_____	84.6	83.8	85.7
Feeds per cow, lbs:				
Corn	_____	1456	1607	1109
Small grain	_____	912	1136	793
Commercial feeds	_____	433	511	149
Legume hay	_____	3713	4184	3582
Other hay	_____	692	684	591
Fodder and stover	_____	126	132	67
Total Concentrates	_____	2801	3254	2051
Total dry roughage	_____	4531	5000	4240
Silage	_____	6615	6589	6754
Total digestible nutrients*	_____	5536	6219	4860
T.D.N. per lb. B.F.	_____	17.7	16.1	21.4
%T.D.N. that is protein	_____	14.3	14.8	13.9
Feed cost per cow:				
Concentrates	\$ _____	\$66.64	\$78.83	\$46.51
Roughages	_____	64.67	69.65	62.75
Pasture	_____	5.66	5.60	5.62
TOTAL FEED COSTS	\$ _____	136.97	154.08	114.88
Value of produce per cow:				
B.F. sales	\$ _____	\$233.59	\$296.62	\$161.91
Dairy produce used in house	_____	6.72	7.19	7.01
Milk to livestock	_____	17.97	17.40	15.21
Net increase in value of cows	_____	39.31	46.90	35.61
TOTAL VALUE PRODUCED	_____	297.59	368.11	219.74
RETURNS ABOVE FEED COST PER COW	\$ _____	\$160.62	\$214.03	\$104.86
RETURNS FOR \$100 OF FEED	\$ _____	\$224	\$246	\$196
Feed cost per lb. B.F. (cents)	_____	43.9	39.8	50.6
% fall freshening	_____	56	61	55
Number of cows**	_____	18.7	18.3	17.3

\*Not including nutrients received from pasture.

\*\*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.

Table 19. Feed Costs and Returns from Other Dairy Cattle, 1950

Items	Your farm	Average of 141 farms	28 farms	28 farms
			highest in butterfat per cow	lowest in butterfat per cow
Feeds per head, lbs.:				
Concentrates	_____	665	788	539
Hay and fodder	_____	1753	1857	1626
Silage	_____	2167	1996	2475
Skim milk	_____	405	260	427
Whole milk	_____	451	476	465
TOTAL FEED COSTS PER HEAD	\$ _____	\$56.31	\$59.46	\$52.20
Net inc. in value of other dairy cattle	_____	\$104.13	\$116.09	\$99.56
RETURNS ABOVE FEED COST PER HEAD	_____	\$47.82	\$56.63	\$47.36
RETURNS FOR \$100 OF FEED	_____	\$205	\$207	\$203
Number of head of other dairy cattle	_____	19.5	19.0	17.5

Table 20. Feed Costs and Returns From All Dairy Cattle, 1950

Items	Your farm	Average of 141 farms	28 farms	28 farms
			highest in butterfat per cow	lowest in butterfat per cow
Feeds per animal unit, lbs.:				
Concentrates	_____	2270	2650	1695
Hay and fodder	_____	4119	4501	3851
Silage	_____	5775	5664	6069
TOTAL FEED COSTS PER ANIMAL UNITS	\$ _____	\$117.17	\$130.53	\$100.25
Value of produce per animal unit:				
Dairy products	_____	\$159.97	\$198.37	\$117.10
Net increase in val. of dairy cattle	_____	93.40	106.92	82.32
TOTAL VALUE PRODUCED	_____	253.37	305.29	199.42
RETURNS ABOVE FEED PER ANIMAL UNIT	_____	\$136.20	\$174.76	\$99.17
RETURNS PER \$100 OF FEED	_____	\$224	\$238	\$203
Animal Units of dairy cattle	_____	28.8	28.2	26.3

Table 21. Factors of Cost and Returns from Dual Purpose Cows, 1950

Items	Your farm	Average of 12 farms
Pounds of butterfat per cow		206
% butterfat in milk		3.7
Price received per lb. B.F. sold (cents)		73.5
As manufacturing cream (cents)		69.5
Other (cents)		81.6
Feeds per cow, lbs.:		
Corn		908
Small grain		620
Commercial feeds		187
Legume hay		2780
Other hay		617
Fodder and stover		496
Total concentrates		1715
Total dry roughage		3893
Silage		5869
Total digestible nutrients*		4255
T. D. N. per lb. B.F.		20.7
% T. D. N. that is protein		13.4
Feed cost per cow:		
Concentrates	\$	\$39.87
Roughages		53.33
Pasture		6.45
TOTAL FEED COSTS		99.65
Value of produce per cow:		
B. F. Sales		\$134.45
Dairy produce used in house		7.82
Milk to livestock		24.54
Net increases in value of cows		37.28
TOTAL VALUE PRODUCED	\$	204.09
RETURNS ABOVE FEED COST PER COW	\$	104.44
RETURNS FOR \$100 OF FEED	\$	\$212
Feed cost per lb. B. F. (cents)*		48.4
% fall freshening		47
Number of cows		16.3

\*Not including nutrients received from pasture.

**Table 22. Feed Costs and Returns from Other Dual Purpose Cattle, 1950**

Items	Your farm	Average of 12 farms
Feeds per head, lbs.:		
Concentrates	_____	861
Hay and fodder	_____	1524
Silage	_____	2297
Skim milk	_____	755
Whole milk	_____	299
TOTAL FEED COST PER HEAD	_____	\$55.24
Net increase in value	_____	\$112.50
RETURNS ABOVE FEED COST PER HEAD	_____	\$57.26
RETURNS FOR \$100 OF FEED	_____	\$203
Number of head	_____	23.6

**Table 23. Feed Costs and Returns From All Dual Purpose Cattle, 1950**

Items	Your farm	Average of 12 farms
Feeds per animal unit, lbs.:		
Concentrates	_____	1710
Hay and fodder	_____	3506
Silage	_____	5257
TOTAL FEED COSTS PER ANIMAL UNIT	\$ _____	\$93.30
Value of produce per animal unit:		
Dairy products	_____	\$87.01
Net increase in value	_____	114.54
TOTAL VALUE PRODUCED	_____	201.55
RETURNS ABOVE FEED PER ANIMAL UNIT	\$ _____	\$108.25
RETURNS FOR \$100 OF FEED	\$ _____	\$220
Animal units	_____	28.4

Table 24. Feed Costs and Returns from Beef Cattle, 1950

Items	Your farm	Average of all farms
Beef breeding herd: No. of farms:		8
Feeds per animal unit, lbs:		
Concentrates	_____	927
Legume hay	_____	1479
Other hay	_____	1109
Fodder and stover	_____	-
Silage	_____	5349
Feed cost per animal unit:		
Concentrates	\$ _____	\$22.51
Roughages	_____	37.43
Pasture	_____	6.48
TOTAL FEED COSTS	_____	66.42
Value of produce per animal unit:		
Dairy products	\$ _____	\$8.50
Net increase in value of animals	_____	135.31
TOTAL VALUE PRODUCED	_____	143.81
RETURNS ABOVE FEED COST PER ANIMAL UNIT	_____	\$77.39
RETURNS FOR \$100 OF FEED	_____	\$237
Number of cows and herd bulls	_____	14.7
Number of animal units in the herd	_____	26.7
Lbs. beef produced	_____	9357
<hr/>		
Feeder cattle: No. of farms:		14
Feeds per cwt. beef produced, lbs.:		
Corn	_____	413
Small grain	_____	29
Commercial feeds	_____	38
Legume hay	_____	368
Other hay	_____	71
Fodder and stover	_____	-
Total concentrates	_____	480
Total dry roughages	_____	439
Silage	_____	580
Feed cost per cwt. beef produced		
Concentrates	\$ _____	\$10.94
Roughages	_____	5.98
Pasture	_____	.46
TOTAL FEED COSTS	\$ _____	17.38
Net increase in value of feeders	\$ _____	32.48
RETURNS ABOVE FEED COST PER CWT	_____	
BEEF PRODUCED	\$ _____	\$15.10
RETURNS FOR \$100 OF FEED	_____	\$189
Price recd. per cwt. beef sold in 1950	_____	\$27.31
Price paid per cwt. beef bought	_____	30.66
No. of Animal Units	_____	29.3
Pounds of beef produced	_____	14572

Table 25. Feed Costs and Returns from a Farm Flock of Sheep, 1950

Items	Your farm	Average of 32 farms	16 farms	16 farms
			highest in returns above feed	lowest in returns above feed
Feeds per head, *lbs.:				
Concentrates	_____	78	61	96
Legume hay	_____	247	145	349
Other hay	_____	37	40	34
Fodder and stover	_____	8	10	5
Silage	_____	221	170	272
Feed cost per head:				
Concentrates	\$ _____	\$1.76	\$1.34	\$2.17
Roughages	_____	3.42	2.36	4.49
Pasture	_____	1.07	1.07	1.07
TOTAL FEED COSTS	\$ _____	6.25	4.77	7.73
Value of produce per head:				
Wool	_____	\$3.75	\$3.81	\$3.69
Net increase in value of sheep	_____	15.75	19.43	12.07
TOTAL VALUE PRODUCED	\$ _____	19.50	23.24	15.76
RETURNS ABOVE FEED COST PER HEAD	_____	13.25	18.47	8.03
RETURNS FOR \$100 OF FEED	_____	\$493	\$760	\$204
Price per cwt. of lambs sold	\$ _____	\$26.14	\$26.22	\$26.05
Price per lb. wool sold (cts.)	_____	55.4	56.5	54.2
Pounds of wool per sheep sheared	_____	8.8	8.8	8.7
Number of ewes kept for lambing	_____	28	34	22
% lamb crop**	_____	93	111	76
% death loss**	_____	8.3	8.4	8.2
Pounds of sheep produced	_____	2379	3319	1439
No. of head of sheep*	_____	41.3	50.5	32.2

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

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



Table 26. Feed Costs and Returns from Chickens, 1950\*

Items	Your farm	Average of 137 farms	27 farms highest in return above feed	27 farms lowest in return above feed
Feed per hen, lbs.:				
Grain	_____	101	109	109
Commercial feeds	_____	47	40	52
Total concentrates	_____	148	149	161
Skim milk and buttermilk	_____	2	3	2
TOTAL FEED COST PER HEN	\$ _____	\$4.49	\$4.46	\$4.87
Value of produce per hen:				
Eggs sold and used in house	\$ _____	\$5.43	\$6.65	\$4.14
Net increase in value of chickens	_____	.68	1.53	.17
TOTAL VALUE PRODUCED	_____	6.11	8.18	4.31
RETURNS ABOVE FEED COST PER HEN	\$ _____	\$1.62	\$3.72	\$-.56
RETURNS FOR \$100 OF FEED	\$ _____	\$140	\$187	\$90
Price rec'd per doz. eggs sold (cents)	_____	32.8	33.4	31.4
Eggs laid per hen	_____	198	240	158
Ave. no. of hens on farm during year	_____	261	264	189
% of hens that are pullets	_____	87	97	76
% of death loss of hens	_____	13	10	15
Number of chicks started-straight run	_____	89	104	49
-pullets	_____	322	371	219
-cockerels	_____	36	56	14
Pounds of poultry produced	_____	1374	1996	693

\*Includes feeds and returns from the laying flock and chicks.

Table 27. Feed Costs and Returns from Chicks, 1950

Items	Your farm	Chicks purchased as		
		Pullets	Pullets and cockerels	Others
Number of cases		39	25	26
Feed per 100 chicks raised, lbs.:				
Grain		1369	1591	1395
Commercial feeds		1144	1256	1005
Total concentrates		2513	2847	2400
Skin milk		10	16	35
Total feed cost per 100 chicks raised		\$84.82	\$97.17	\$83.03
Net increase in val. per 100 chicks		65.40	74.60	81.44
Return over feed cost per 100 chicks		-19.42	-22.57	-1.59
Return for \$100 of feed		\$77	\$77	\$98
Number of chicks bot:				
Pullets		401	518	152
Straight run		-	-	315
Cockerels		-	85	40
Price paid per 100 chicks bot:				
Pullets		\$41.60	\$38.57	\$39.27
Straight run		-	-	22.37
Cockerels		-	6.31	5.33
Per cent death loss		12.4	20.7	16.1
Number chicks raised		349	480	415
Price rec'd per pound sold (cts)		19.9	19.7	25.7
Pounds of poultry produced		1391	1975	1812

Table 28. Feed Cost and Returns from Laying Hens, 1950

Items	Your farm	Eggs laid per hen		
		Below 175	175-224	225 and over
Number of cases		175	224	
Feed per hen, lbs:		33	40	32
Grain		77	80	87
Commercial feeds		29	28	32
Total concentrates		106	108	119
Skin milk		-	3	4
Total feed cost per hen		\$3.01	\$3.25	\$3.53
Value of produce per hen:				
Eggs sold and used in home		\$3.82	\$5.54	\$6.96
Less depreciation and death loss		.48	.52	.42
Total value produced		3.34	5.02	6.54
Return above feed cost per hen		.33	1.77	3.01
Return for \$100 of feed		\$111	\$154	\$185
Eggs laid per hen		143	201	253
Price rec'd per doz. eggs sold (cts.)		32.1	33.0	33.2
Ave. no. hens on farm during year		218	288	269
No. of hens on hand beginning of year		252	329	315
% death loss		19	13	11
% of hens that are pullets		67	91	99

Table 29. Feed Costs and Returns for Turkeys, 1950

Items	Your farm	Average of 5 farms
Feed per cwt. turkeys produced, lbs.:		
Grain	_____	328
Commercial feeds	_____	260
Total concentrates	_____	588
Skin milk	_____	23
Feed cost per cwt. turkeys produced	\$ _____	\$19.32
Net increase in value per cwt. turkeys produced	\$ _____	\$30.15
RETURNS ABOVE FEED COST PER CWT. TURKEYS PRODUCED	\$ _____	\$10.83
RETURNS FOR \$100 FEED	\$ _____	\$157
No. of poults put on feed	_____	1052
Price paid per poult purchased (cts.)	_____	62.8
% death loss	_____	14.0
Price rec'd per lb. turkeys sold (cts.)	_____	35.6
Weight per bird sold (lbs.)	_____	14.8
Pounds of turkey produced	_____	12217

EXPLANATION OF "WORK UNITS"

The total "work units" for any one farm is a measure of the size of that farm business. A work unit as used in this report is the average accomplishment of a farm worker, in a ten hour day, working on crops and productive livestock at average efficiency or ten hours of work off the farm for pay. The number of work units for each class of livestock and each acre of crop are presented in Table 30.

Table 30. 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 pur. cows	14.0 per cow	Small grain	.7 per acre
Other dairy & du.pur. cattle	4.0 per an. unit*	Sugar beets	3.0 per acre
Beef breeding herd	4.0 per an. unit*	Sweet corn	2.3 per acre
Feeder cattle	.35 per 100 lbs.	Corn husked	1.1 per acre
Sheep - farm flock	1.8 per an. unit*	Corn, hogged	.7 per acre
Sheep - feeders	.4 per 100 lbs.	Corn, shredded	2.2 per acre
Hogs	.3 per 100 lbs.	Corn, silage	1.7 per acre
Turkeys	.7 per 100 lbs.	Corn fodder	1.0 per acre
Hens	22.0 per 100 hens	Alfalfa hay	.9 per acre
Canning peas	2.0 per acre	Soybean hay	1.4 per acre
Soybeans for grain	.7 per acre	Other hay crops	.6 per acre

\*Animal unit represents one cow, one bull, one feeder steer or heifer, two head of other cattle, seven head of sheep, fourteen lambs, five hogs, ten pigs, 100 hens or 1400 pounds of turkeys produced.

Table 31. Summary by Years

	Average 1928-29	Average 1930-34	Average 1935-39	Average 1940-44	1945	1946	1947	1948	1949	1950
Number of farms	148	140	149	177	170	170	170	173	164	165
Acres in farm	170	199	218	227	224	222	223	225	223	222
Crop acres in farm	116	136	147	148	145	149	146	150	150	153
Farm inventory	\$24574	\$19851	\$20286	\$25912	\$27634	\$29020	\$31183	\$33873	\$35300	\$37768
Farm earnings (see page 27).										
<u>FARM EXPENSES</u>										
Cattle	\$ 141	\$ 83	\$ 213	\$ 441	\$ 372	\$ 333	\$ 436	\$ 646	\$ 636	\$ 807
Hogs bought	85	52	72	154	168	158	226	199	217	179
Sheep bought	6	14	94	64	108	86	65	45	18	10
Poultry bought	37	41	80	142	210	195	149	145	182	148
Horses bought	36	33	43	32	17	17	11	11	12	9
Misc. livestock expense	66	64	94	124	165	198	250	257	268	315
Misc. crop expenses	186	160	222	301	463	551	780	933	780	819
Feed bought	440	313	535	1273	1764	1920	2224	2090	1773	1972
Custom work hired	-	-	-	165	273	363	400	507	461	446
Power mach. (new & exp.)	399	321	559	717	855	1135	1515	2178	2128	2186
Mach. and equip. (new)	190	122	281	392	515	524	823	1372	990	1251
Mach. and equip. (upkeep)	72	55	67	144	231	257	303	318	290	304
Bldgs., fencing (new)	130	81	245	331	249	431	897	1205	1109	1139
Bldgs., fencing (upkeep)	52	32	79	188	200	277	354	383	403	409
Hired labor	272	243	398	585	663	740	893	957	990	891
Taxes and insurance	298	313	281	303	338	384	425	525	575	656
General farm	30	28	35	52	72	79	94	104	115	116
Total farm purchases	\$2,440	\$1,955	\$3,298	\$5,408	\$6,663	\$7,648	\$9,845	\$11,875	\$10,947	\$11,657
Decrease in farm capital	-	230	-	-	238	-	-	-	-	-
Board to hired labor	102	87	145	158	108	147	201	209	203	205
Interest on farm capital	1,228	992	1014	1296	1382	1451	1559	1694	1765	1888
Unpaid family labor	358	261	239	326	441	506	582	544	483	462
Total farm expenses	\$4,128	\$3,525	\$4,696	\$7,188	\$8,832	\$9,752	\$12,187	\$14,322	\$13,398	\$14,212

Table 31. Summary by Years (continued)

	Average 1928-29	Average 1930-34	Average 1935-39	Average 1940-44	1945	1946	1947	1948	1949	1950
<b>FARM RECEIPTS</b>										
Cattle	\$ 753	\$ 431	\$ 713	\$ 1335	\$1,439	\$1,520	\$2,108	\$2,440	\$2,602	\$2,844
Dairy products	1,662	1188	1451	2138	3403	4192	4129	4811	3866	4005
Hogs	1,164	793	1074	2517	2573	2863	4362	4222	3971	3926
Sheep and wool	52	60	200	186	230	265	224	299	143	160
Poultry	140	166	381	629	787	954	609	596	416	327
Eggs	275	243	372	751	1265	1172	1410	1402	1347	1158
Horses	30	27	55	34	23	20	23	15	17	19
Corn	37	62	153	121	175	207	402	316	576	433
Small grain	241	177	357	278	239	372	904	1264	511	766
Other crops	163	155	174	455	776	705	1033	911	672	669
Income from labor off farm	102	118	168	141	168	168	173	225	153	199
Agric. adj. payments	0	74	230	254	48	67	65	76	36	59
Misc.	134	138	247	282	300	431	505	611	503	788
Total farm sales	\$4,753	\$3,632	\$5,575	\$9,121	\$11,426	\$12,936	\$15,947	\$17,188	\$14,813	\$15,353
Increase in farm cap.	617	-	524	921	-	1706	3542	1520	527	3457
Fan. living from farm	325	232	273	566	639	700	741	791	700	702
Total farm receipts	5,695	3,864	6,372	10,608	12,065	15,342	20,230	19,499	16,040	19,512
Total farm expenses	4,128	3,525	4,696	7,188	8,832	9,752	12,187	14,322	13,398	14,212
Oper. lab. earnings	1,567	339	1,676	3,420	3,233	5,590	8,043	5,177	2,642	5,300
<b>MISCELLANEOUS ITEMS</b>										
Yield per A. corn (bu.)	44.8	43.4	47.2	55.7	34.0	50.7	41.6	60.3	51.3	52.0
Yield per A. barley (bu.)	36.0	26.2	28.7	24.8	32.7	31.0	29.4	32.6	28.2	34.6
Yield per A. oats (bu.)	46.0	40.0	43.4	44.2	48.3	43.1	47.5	55.0	47.2	45.7
Yield per A. alfalfa (tons)	3.0	2.3	2.3	2.4	2.5	2.2	2.4	2.3	2.2	2.2
% high return crops	31.9	35.8	41.0	43.3	47.1	50.3	50.2	51.0	56.0	55.9
A.U. livestock per 100 A.	19.2	20.6	19.3	24.5	23.4	22.8	22.6	22.2	22.7	22.7
No. of work units	599	747	777	670	645	634	573	577	577	588
Work units per worker	310	338	341	305	323	317	287	288	288	294
Expenses per work unit	\$1.76	\$1.26	\$1.37	\$2.35	\$3.32	\$3.81	\$4.74	\$5.62	\$5.97	\$5.95
No. of work horses	5.4	5.4	4.5	3.9	3.2	2.8	2.5	2.3	2.0	1.6
No. of colts	.8	.7	1.2	.8	.5	.3	.2	.2	.2	.1
No. of milk cows	14.2	17.8	17.8	17.6	17.3	16.7	16.9	16.7	17.4	17.2

Table 31. Summary by Years (continued)

Misc. Items (cont.)	Average 1928-29	Average 1930-34	Average 1935-39	Average 1940-44	1945	1946	1947	1948	1949	1950
No. of litters of pigs	9.3	10.8	9.5	14.4	12.3	9.1	11.0	12.4	13.7	14.0
Lbs. of hogs produced	12,706	15,153	13,438	21,586	18,669	15,516	17,686	19,215	21,438	21,593
No. of head of sheep	7.0	13.5	18.6	15.8	11.8	11.3	11.0	10.8	9.3	8.4
No. of hens	136	169	182	222	247	240	239	230	220	219
Lbs. B. F. per dairy cow	244	240	238	252	254	266	281	284	305	312
Lbs. B. F. per dual pur. cow	-	-	-	185	173	170	180	186	197	200
Pigs weaned per litter	6.3	6.1	6.4	6.2	6.3	6.5	6.2	6.4	6.7	6.6
No. of eggs laid per hen	95	114	131	145	163	173	177	179	191	198
<u>PRICE RECEIVED PER:</u>										
Lb. B. F. sold as cream	\$ .52	\$ .28	\$ .34	\$ .47	\$ .65	\$ .82	\$ .84	\$ .95	\$ .70	\$ .70
Cwt. hogs sold	8.92	4.98	8.26	10.93	14.24	17.23	24.54	22.95	17.84	18.25
Cwt. feeder cattle sold	-	-	-	11.55	13.86	15.53	21.94	28.16	23.32	27.31
Lb. wool sold	.36	.16	.25	.39	.44	.46	.37	.46	.45	.55
Doz. eggs sold	.28	.16	.19	.27	.37	.35	.42	.43	.40	.33
Lb. turkey sold	-	-	.20	.27	.33	.33	.36	.48	.40	.30
<u>RETURN ABOVE FEED COST PER:</u>										
Dairy cow	\$76.50	\$28.15	\$49.95	\$81.83	\$125.85	\$178.55	\$153.06	\$203.85	\$145.03	\$160.62
Dual purpose cow	-	-	-	51.55	74.15	110.58	106.77	130.26	99.52	104.44
Cwt. hogs produced	1.50	.48	2.98	3.93	4.26	7.04	8.19	5.52	5.43	6.99
Head of sheep	5.50	.81	2.82	4.63	5.05	8.52	7.33	8.06	6.70	13.25
Hon	1.82	.99	1.12	1.82	2.66	2.05	1.34	2.52	2.99	1.62
Cwt. turkeys prod.	-	-	10.81	13.54	14.30	9.85	4.74	27.48	16.52	10.83
<u>FEED COST PER:</u>										
Dairy cow	\$69.50	\$47.30	\$44.93	\$63.13	\$95.32	\$106.99	\$141.42	\$142.12	\$130.28	\$136.97
Dual purpose cow	-	-	-	52.08	69.93	69.97	93.83	100.12	88.73	99.65
Cwt. hogs produced	7.66	4.21	5.10	7.52	9.97	12.77	17.99	15.04	10.40	12.20
Head of sheep	2.82	2.23	2.62	3.30	4.60	4.40	5.54	5.94	5.35	6.25
Hon	1.62	1.13	1.57	2.38	3.56	4.11	5.53	4.78	3.95	4.49
Cwt. turkeys prod.	-	-	8.47	12.86	15.28	19.93	27.70	18.43	17.08	19.32
Horse	55.09	35.59	36.02	41.52	43.79	41.67	48.56	41.82	36.75	42.66
<u>PRICE OF FEED:</u>										
Corn (per bu.)	\$ .70	\$ .45	\$ .59	\$ .71	\$ .88	\$1.17	\$1.76	\$1.63	\$1.02	\$1.20
Barley (per bu.)	.60	.42	.49	.59	.94	1.22	1.82	1.59	.99	1.20
Oats (per bu.)	.48	.26	.28	.46	.64	.71	.92	.88	.59	.72
Bran (per cwt.)	1.70	.98	1.22	1.80	2.20	2.70	3.20	2.85	2.35	2.80
Oilmeal (per cwt.)	3.00	1.96	2.12	2.30	2.82	3.40	4.50	4.50	4.00	3.95
Alfalfa (per ton)	14.75	11.10	9.30	9.90	15.00	15.50	21.50	20.00	20.00	21.00

Footnote for pages 25, 26, and 27

The values of farm real estate in 1931 were reduced approximately 25 per cent from 1928-1930 values. The values in 1932 were reduced about 29 per cent from the 1931 values. Only land was affected by the reduction in 1931, but in 1932 buildings and improvements were cut 25 per cent. In 1936 the values of land were adjusted upward 10 per cent. The value of dairy cows was also adjusted downward in 1932 and upward in 1936. These capital losses were not included in the inventory decreased in the financial statement but the changes in valuation resulted in variations in the interest charge. No changes in the basis of inventory valuations were made in the years 1933 to 1935 and 1937 to 1950.

The charges for unpaid family labor and board for hired labor were also changed from year to year. The rates used for the period 1928 to 1950 were as follows:

<u>Year</u>	<u>Unpaid family labor</u>	<u>Board for hired labor</u>	<u>Year</u>	<u>Unpaid family labor</u>	<u>Board for hired labor</u>
1928	\$60	\$20	1939	\$45	\$18
1929	60	20	1940	45	18
1930	60	20	1941	50	20
1931	40	15	1942	60	25
1932	30	10	1943	75	25
1933	30	10	1944	85	25
1934	30	10	1945	90	25
1935	40	15	1946	100	30
1936	43	18	1947	125	36
1937	45	18	1948	125	36
1938	45	18	1949	125	36
			1950	125	36

Several changes were made in the 1940 records. The value of the house which had previously been omitted from the farm business was included and a rental charge equal to 10 per cent of the average value of the house was included with the farm perquisites. The standards used in the calculation of work units were changed in accordance with the new information made available. This latter change also affected the work units per worker and the factor of expense per work unit. The acres in protected woodlots, roads, waste and farmstead were omitted from the acreage used in the calculation of amount of livestock per 100 acres. Several new livestock statements were added. Cattle were classified into two groups: "specialized dairy cattle" and "dual purpose cattle". Statements for beef breeding cattle, feeder cattle and feeder sheep were also included.

The crop ratings used in calculating the percentage of the tillable land in high return crops were changed considerably in 1944.

These adjustments should be considered in comparing 1950 results with previous years.