



*The World's Largest Open Access Agricultural & Applied Economics Digital Library*

**This document is discoverable and free to researchers across the globe due to the work of AgEcon Search.**

**Help ensure our sustainability.**

Give to AgEcon Search

AgEcon Search  
<http://ageconsearch.umn.edu>  
[aesearch@umn.edu](mailto:aesearch@umn.edu)

*Papers downloaded from **AgEcon Search** may be used for non-commercial purposes and personal study only. No other use, including posting to another Internet site, is permitted without permission from the copyright owner (not AgEcon Search), or as allowed under the provisions of Fair Use, U.S. Copyright Act, Title 17 U.S.C.*

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

-----O-----

Annual Report  
of the  
Southeastern Minnesota  
Farm Management Service  
1949

-----O-----

Cooperator:

---

Mimeographed Report No. 180  
Division of Agricultural Economics  
University Farm  
St. Paul 1, Minnesota  
April 1950

## INDEX

Introduction . . . . .	1
Summary of Farm Inventories . . . . .	3
Summary of Farm Earnings (Cash Statement) . . . . .	4
Summary of Farm Earnings (Enterprise Statement) . . . . .	5
Net Worth Statement . . . . .	6
Summary of Farm Earnings by Tenure (Operator's Share) . . . . .	7
Household and Personal Expenses . . . . .	8
Family Living from the Farm . . . . .	9
Cumulative Effect From Excelling in a Number of Management Factors . . . . .	9
Measures of Farm Organization and Management Efficiency . . . . .	10
Thermometer Chart . . . . .	11
Distribution of Acres in Farm . . . . .	12
Yield of Crops . . . . .	13
Average Price of Feeds . . . . .	13
Feed Costs for Horses . . . . .	14
Power and Machinery Expenses per Crop Acre . . . . .	14
Total Feed Costs and Returns from Your Livestock Enterprise . . . . .	14
Feed Costs and Returns from Hogs . . . . .	15
Feed Costs and Returns from Dairy Cows . . . . .	16
Feed Costs and Returns from Other Dairy Cattle . . . . .	17
Feed Costs and Returns from All Dairy Cattle . . . . .	17
Feed Costs and Returns from Dual Purpose Cows . . . . .	18
Feed Costs and Returns from Other Dual Purpose Cattle . . . . .	19
Feed Costs and Returns from All Dual Purpose Cattle . . . . .	19
Feed Costs and Returns from Beef Cattle . . . . .	20
Feed Costs and Returns from Sheep . . . . .	21
Feed Costs and Returns from Chickens . . . . .	22
Feed Costs and Returns from Chicks . . . . .	23
Feed Costs and Returns from Laying Hens . . . . .	23
Feed Costs and Returns from Turkeys . . . . .	24
Explanation of "Work Units" . . . . .	24
Summary of Years 1928-1949 . . . . .	25
Notes . . . . .	28

Twenty-second 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 1949

Prepared by T. R. Nodland, G. A. Pond and B. F. Stanton

#### 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. Glen Myers was the field agent for this project until July 1, and was followed by Harvey Bjerke. At the end of the year, W. E. McDaniel 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, Ed Slettom, C. 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 1949 were:

President: Joyce Ericson, Goodhue, Goodhue County  
Vice President: Sidney Johnson, St. Peter, Nicollet County  
Secretary-Treasurer: Paul Tuttle, Medford, Steele County

The board of directors included these officers and also the following: Sarah Holland, Dakota County; Wilbur Hindal, Dodge County; Ephraim Magnuson, Freeborn County; Otto Kajer, Le Sueur County; R. L. Zimmerman, Mower County; S. O. Frost, Olmsted 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 1949:

Dakota	9	Mower	9	Steele	18
Dodge	13	Nicollet	10	Wabasha	11
Freeborn	16	Olmsted	15	Waseca	16
Goodhue	22	Rice	10	Winona	11
LeSueur	5	Scott	5	Total	170

The table on page 4 and succeeding pages show 164 farms. Six 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 Precip- itation normal Inches	Albert Lea Departure from normal Inches	Faribault Precip- itation normal Inches	Departure from normal Inches	Faribault Departure from normal Inches	
January	1.86	+.76	2.89	+2.08	1.77	+1.09
February	.19	-.63	.04	-.87	.09	-.60
March	2.71	+.39	3.04	+1.81	3.89	+2.78
April	1.11	-.35	.57	-1.83	1.17	-.74
May	2.35	-.45	1.80	-2.03	1.26	-1.94
June	5.23	+.64	3.81	-.77	7.12	+2.75
July	6.96	+.80	4.21	+.73	3.51	+.16
August	.65	-2.80	.46	-3.19	.82	-2.59
September	2.59	-.89	3.44	-.29	2.00	-1.45
October	1.40	-.70	3.12	+.99	2.60	+.52
November	.82	-.75	.45	-1.02	.80	-.54
December	.73	-.19	1.38	+.43	1.44	+.76
1949 Total	26.60	-2.17	25.21	-3.96	26.47	+.20
1948 Total	25.75	-3.04	26.98	-2.19	25.63	-1.64
1947 Total	33.97	+.20	35.11	+5.94	32.06	+5.79
1946 Total	28.09	-0.68	36.09	+6.92	28.39	+2.12
1945 Total	34.16	+.39	38.71	+9.54	36.34	+10.07
1944 Total	22.47	-6.30	30.95	+1.78	31.84	+5.57
1943 Total	23.50	-5.27	37.78	+8.61	28.12	+1.85
1942 Total	41.68	+12.91	31.22	+2.05	28.57	+2.30

A heavy spring snow delayed planting of small grains during April. Weather conditions in May were favorable for spring work. Lack of moisture, however, retarded the growth of crops. Most of the area received substantial moisture at the beginning of June. This together with high temperatures resulted in rapid growth of all crops, although haying was delayed and some hay spoiled. Weather conditions in August and September were ideal for harvesting, threshing, and combining of small grains. Pastures and late crops suffered from lack of moisture. Much standing corn was blown down and damaged by the severe wind-storm on October 10th. Weather conditions during much of the remainder of October and November were unusually favorable for salvaging a large proportion of the corn that was on the ground and for other fall farm work. Killing frosts on October 24 terminated the growing season.

Table 2. Summary of Farm Inventories, 1949\*

Items	Your farm		Average of 164 farms	
	Jan. 1	Dec. 31	Jan. 1	Dec. 31
Size of farm (acres)			223	
Size of business (work units)**			577	
Dairy and dual purpose cows			\$1860	\$1929
Other dairy & dual purpose cattle			1190	1192
Beef cattle (incl. feeders)			600	579
Hogs			1542	1117
Sheep (including feeders)			140	130
Poultry (including turkeys)			288	289
Productive livestock (total)			5620	5236
Horses			127	98
Crop, seed, and feed			5018	4501
Power mach. (farm share)			1857	2351
Crop & general mach. (farm share)			2716	3058
Livestock equipment & supplies			640	645
Mach. & equipment (total)			5213	6054
Miscellaneous			6	10
Buildings, fences, etc.			9364	9976
Land			9688	9688
Total farm capital			\$35036	\$35563

Items	33 most profitable farms		33 least profitable farms	
	Jan. 1	Dec. 31	Jan. 1	Dec. 31
Size of farm (acres)	279		211	
Size of business (work units)**	702		539	
Dairy & dual purpose cows	\$1750	\$1931	\$2118	\$2184
Other dairy & dual purpose cattle	1236	1374	1376	1271
Beef cattle (inc. feeders)	1563	1800	165	213
Hogs	2148	1553	1623	1174
Sheep (including feeders)	174	222	105	96
Poultry (including turkeys)	286	276	269	260
Productive livestock (total)	7157	7156	5656	5198
Horses	123	108	152	113
Crop, seed, and feed	6247	6279	5805	4350
Power mach. (farm share)	2259	2816	2067	2448
Crop & general machinery	3145	3711	3109	3227
Livestock equipment & supplies	649	646	698	6386
Mach. & equipment (total)	6053	7173	5874	6386
Miscellaneous	28	42	—	—
Buildings, fences, etc.	10963	11881	9565	10759
Land	11516	11516	9153	9153
Total farm capital	42087	44155	36205	35959

\*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), 1949

Items	Your farm	Average of 164 farms	33 most profitable farms	33 least profitable farms
<b>FARM RECEIPTS</b>				
Dairy and dual-purpose cows		\$ 888	\$1081	\$ 977
Dairy products		3866	3869	3859
Other dairy & dual-purpose cattle		911	759	803
Beef cattle (including feeders)		803	1813	128
Hogs		3971	5822	3986
Sheep and wool (including feeders)		143	157	135
Poultry (including turkeys)		416	816	310
Eggs		1347	1463	1099
Horses		17	13	14
Corn		576	979	234
Small grain		511	754	409
Other crops		672	1050	571
Machinery & equip. sold		308	379	284
Agricultural adjustment payments		36	38	38
Income from work off the farm		279	525	175
Miscellaneous		69	120	30
(1) Total farm sales		14813	19638	13052
(2) Increase in farm capital		527	2068	-
(3) Family living from the farm		700	734	678
(4) Total farm receipts (1)+(2)+(3)		16040	22440	13730
<b>FARM EXPENSES</b>				
Dairy and dual-purpose cows bought		\$ 105	\$ 98	\$ 215
Other dairy & dual-pur.cattle bought		178	242	140
Beef cattle bought (incl. feeders)		353	830	150
Hogs bought		217	332	196
Sheep bought (including feeders)		18	52	9
Poultry bought (including turkeys)		182	272	148
Horses bought		12	16	10
Misc. livestock expenses		268	340	271
Misc. crop expenses		780	933	830
Feed bought		1773	2088	1611
Custom work hired		461	484	477
Mech. power mach. (farm share)(new)		1000	1105	888
Mech. power mach. (farm share)(upkeep)		286	342	282
Mech.pow.(farm share)(gas, oil, etc.)		842	931	877
Crop and general mach. (new)		861	1187	686
Crop and general mach. (upkeep)		193	202	239
Livestock equipment (new)		129	126	155
Livestock equipment (upkeep)		97	116	106
Buildings and fencing (new)		1109	1450	1809
Buildings and fencing (upkeep)		403	485	519
Hired labor		990	1268	1112
Taxes		503	628	511
General farm and insurance		182	218	216
(5) Total farm purchases		\$10947	\$13745	\$11457
(6) Decrease in farm capital		-	-	246
(7) Interest on farm capital		1765	2156	1804
(8) Unpaid family labor		483	451	430
(9) Board furnished hired labor		203	165	287
(10) Total farm exp.( Sum of (5)to(9))		\$13398	\$16517	\$14224
(11) Operator's labor earnings(4)-(10)		2642	5923	-494

Table 4. Summary of Farm Earnings (Enterprise Statement) 1949\*

Items	Your farm	Average of 164 farms	33 most profitable farms	33 least profitable farms
<u>RETURNS AND NET INCREASES</u>				
Dairy and dual purpose cows		\$ 4692	\$ 4851	\$ 4464
Other dairy & dual pur. cattle		1208	1365	1119
Beef breeding herd		131	293	81
Feeder cattle		271	773	14
Hogs		3418	5075	3383
Sheep - farm flock		116	149	118
Sheep - feeders		1	4	-
Turkeys		154	399	120
Chickens		1528	1694	1226
All productive livestock		11519	14603	10525
Crops, seed and feed		-1403	-304	-2751
Agricultural conservation payments		36	38	38
Income from labor off the farm		153	328	64
Miscellaneous		210	267	203
(1) Total returns & net increases		10515	14932	8079
<u>EXPENSES AND NET DECREASES</u>				
Horses		\$ 98	\$ 102	\$ 112
Tractor		713	766	745
Truck		237	278	227
Auto (farm share)		265	285	307
Gas Engine and elect. exp. (F. share)		156	176	170
Hired Power		220	233	233
Total power		1689	1840	1794
Crop and general machinery		649	665	730
Livestock equipment		210	241	238
Buildings, fencing and tiling		781	884	1027
Misc. productive livestock expense		267	339	271
Labor		1822	2038	1982
Real estate taxes		406	511	408
Personal property tax		97	117	103
Insurance		72	94	74
General farm		115	124	142
Interest on farm capital		1765	2156	1804
(2) Total expenses & net decreases		7873	9009	8573
(3) Oper. labor earnings (1)-(2)		2642	5923	-494

\*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, 1949 (Operator's Share)

	Your Farm		42 Owners	
	Jan. 1	Dec. 31	Jan. 1	Dec. 31
Total acres in farm		173.5		
Owned		173.5		
Rented		-		
Total farm capital		\$30444	\$30641	
Accounts receivable		75	70	
Stocks and bonds		2808	2870	
Life insurance		1061	1170	
Outside real estate		1379	1379	
Other outside investments		525	531	
Total outside investments		5773	5950	
Cash on hand and in bank		1174	865	
Other household & personal assets		1576	1771	
Total cash, household & personal assets		2750	2636	
TOTAL ASSETS		39042	39297	
Federal Land Bank Mortgage		431	550	
Other mortgages on land operated		3651	3427	
Mortgages on other real estate		250	204	
Production Credit Association		302	320	
Sealed Grain		121	87	
Other chattel mortgages		322	241	
Notes payable		1586	1371	
Accounts payable		406	205	
TOTAL LIABILITIES		7069	6405	
Farmer's net worth		31973	32892	
Gain in net worth		+919		

	17 part-owners*		18 Renters**	
	Jan. 1	Dec. 31	Jan. 1	Dec. 31
Total acres in farm	252.1		189.5	
Owned	127.9		-	
Rented	124.2		189.5	
Total farm capital	\$25243	\$25565	\$10294	\$10203
Accounts receivable	124	280	102	7
Stocks and bonds	2168	2214	1095	945
Life insurance	720	816	473	517
Outside real estate	167	134	-	-
Other outside investments	477	448	129	100
Total outside investments	3532	3612	1697	1562
Cash on hand and in bank	2148	1582	1043	1037
Other household & personal assets	1838	1981	2009	2108
Total cash, household & personal assets	3986	3563	3052	3145
TOTAL ASSETS	32885	33020	15145	14917
Federal Land Bank Mortgage	-	-	-	-
Other mortgages on land operated	2134	2010	-	-
Mortgages on other real estate	-	-	-	-
Production Credit Association	271	271	-	-
Sealed grain	-	146	26	-
Other chattel mortgages	662	394	557	393
Notes payable	2410	2413	1150	1117
Accounts payable	201	205	461	450
TOTAL LIABILITIES	5678	5439	2194	1960
Farmer's net worth	27207	27581	12951	12957
Gain in net worth		+374	-46	

\* 10 rented for cash, 1 cash and crop share, 4 crop share and 2 livestock and crop share

\*\* 6 rented for cash, 2 cash and crop share, and 10 livestock share.

Table 6. Summary of Farm Earnings by Tenure, 1949 (Operator's Share)

	not enough information	Your own	42	17 part- farm	18 owners	18 renters
<b>FARM RECEIPTS</b>						
Dairy and dual purpose cows		\$ 675	\$ 603	\$ 443		
Dairy products		3426	3521	2639		
Other dairy and dual purpose cattle		763	673	505		
Beef cattle (including feeders)		492	150	378		
Hogs		3206	3495	2491		
Sheep and wool (including feeders)		155	126	64		
Poultry (including turkeys)		581	218	160		
Eggs		1553	1171	931		
Horses		22	27	13		
Corn		402	297	115		
Small grain		214	579	322		
Other crops		377	802	172		
Machinery & equipment sold		299	141	146		
Agricultural adjustment payments		38	28	18		
Income from work off the farm		286	261	141		
Miscellaneous		66	94	10		
(1) Total farm sales		\$12555	\$12186	\$ 8548		
(2) Increase in farm capital		197	322	16		
(3) Family living from the farm		731	582	744		
(4) Total farm rec. (1)+(2)+(3)		\$13483	\$13090	\$ 9292		
<b>FARM EXPENSES</b>						
Dairy and dual purpose cows bought		\$ 66	\$ 208	\$ 44		
Other dairy & dual pur. cattle bought		115	125	101		
Beef cattle bought (including feeders)		151	35	144		
Hogs bought		116	158	175		
Sheep bought (including feeders)		10	9	9		
Poultry bought (including turkeys)		214	118	92		
Horses bought		16	17	2		
Misc. livestock expenses		243	203	172		
Misc. crop expenses		681	805	437		
Feed bought		1809	1247	1092		
Custom work hired		444	457	309		
Mech. power mach. (farm share) (new)		903	642	504		
Mech. power mach. (farm share) (upkeep)		221	270	254		
Mech. power (farm share)(gas, oil, etc.)		715	858	654		
Crop and general mach. (new)		634	727	288		
Crop and general mach. (upkeep)		166	179	146		
Livestock equipment (new)		139	167	78		
Livestock equipment (upkeep)		92	75	74		
Land, buildings & fencing (new)		799	1495	66		
Buildings and fencing (upkeep)		429	297	64		
Hired labor		734	1140	402		
Taxes (real estate & pers. property)		385	292	69		
General farm and insurance		177	160	107		
Cash rent		-	529	561		
Interest paid		233	199	83		
(5) Total farm purchases		\$9492	\$10403	\$5927		
(6) Decrease in farm capital		-	-	91		
(7) Interest on farm capital		1294	1071	429		
(8) Unpaid family labor		309	243	254		
(9) Board furnished hired labor		170	331	126		
(10) Total farm exp. (Sum of (5)to(9))		\$11265	\$12048	\$6827		
(11) Operator's labor earn. (4) - (10)		2218	1042	2465		
(12) Ret. cap. & family lab. (7)+(8)+(11)		3821	2356	3148		

Table 7. Household and Personal Expenses for  
Those Farms Which Kept Complete Accounts of These Expenses, 1949

Items	Your farm	16 most	16 least	
		Average of 81 farms	profitable farms	profitable farms
Number of persons - family		4.1	4.2	3.6
Number of adult equiv. - family others*		3.1 .6	3.0 .6	2.9 .8
Food and meals bought	\$ 635	\$ 635	\$ 662	
Operating and supplies	255	211	235	
Clothing and clothing materials	302	314	322	
Personal care, personal spending	72	78	49	
Furnishings and equipment	217	142	225	
Education, recreation and development	142	142	99	
Medical care and health insurance	209	229	142	
Church, welfare, gifts	288	272	272	
Personal share of auto expense	107	120	95	
Household share of elect. & gas eng. exp.	64	59	70	
H.H.&pers.shr. of new auto, gas eng. & motors bot	130	230	203	
Total cash living expenses	(\$12) \$2421	\$2432	\$2374	
State and Federal income taxes	\$ 393	\$ 578	\$ 489	
Insurance	215	172	293	
Total household and personal cash exp.	\$3029	\$3182	\$3156	
Food furnished by the farm	437	512	451	
Fuel furnished by the farm	14	15	8	
House rental	261	366	278	
Total cash expenses & perquisites	\$3741	\$4075	\$3893	
Purchase of stocks, bonds, and other investment	105	333	-	
Receipts:				
Sale of investments	\$ 26	\$ 30	\$ 9	
Income from investments	106	313	68	
Miscellaneous income	67	-	119	

\*Hired help or others boarded.

Table 8. Family Living From the Farm, 1949

Items	Average		33 most profit-able		33 least profit-able		Average		33 most profit-able		33 least profit-able	
	Your farm	164 farms	Your farms	164 farms	Your farm	164 farms	Your farm	164 farms	Your farm	164 farms	Your farm	164 farms
Adult equiv. = family	3.1		3.1	3.1								
- others	.6		.5	.8								
Whole milk		1306 qts.	1410	1067			\$85.71	\$84.27	\$73.90			
Skim milk		114 qts.	140	175			1.39	1.36	1.22			
Cream		86 pts.	93	96			17.41	22.57	17.52			
Farm made butter		1 lb.	5	-			1.69	3.21	1.12			
Beef		388 lbs.	444	295			68.72	80.23	48.19			
Hogs		489 lbs.	575	510			84.75	100.60	88.11			
Sheep		3 lbs.	8	-			.34	.76	-			
Poultry		149 lbs.	161	128			30.23	32.07	26.79			
Eggs		207 doz.	194	198			71.82	64.02	68.54			
Potatoes		8 bu.	5	4			7.77	7.35	7.33			
Vegetables & fruits							58.79	49.73	58.58			
Farm fuel							14.24	11.73	9.52			
Rental vl. of house							258.56	275.92	278.68			
Total							700.42	733.82	678.38			

#### 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	3		XXXXXX	\$ 883
1	14		XXXXXXX	1073
2	26		XXXXXXXXXX	1485
3	45		XXXXXXXXXXXXXX	2304
4	36		XXXXXXXXXXXXXX	3372
5	24		XXXXXXXXXXXXXX	3394
6	14		XXXXXXXXXXXXXX	4188
7	2		XXXXXXXXXXXXXX	5926

The array in Table 9 indicates that it will be worth while for each operator 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, 1949

Measures used in chart on page 11	Your farm	Average of 164 farms	33 most profit- able farms	33 least profit- able farms
Operator's Labor Earnings	\$	\$2642	\$5923	\$-494
(1) Crop yields*		100	109	97
(2) % of tillable land in high ret. crops**		56.0	58.2	55.3
(3) Ret. for \$100 feed to prod. livestock***		100	105	91
(4) Prod. livestock units per 100 acres****		22.7	23.8	23.1
(5) Size of business - work units		577	702	539
(6) Work units per worker		288	334	257
(7) Pow., mach., equip., & bldg. exp. per work unit\$		\$5.97	\$5.27	\$7.16
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	102	92
Dual purpose cattle (see pages 18 & 19)		100	111	107
Beef breeding herd (see page 20)		100	104	-
Feeder cattle (see page 20)		100	103	-
Hogs (see page 15)		100	108	91
Native sheep (see page 21)		100	88	142
Turkeys (see page 24)		100	122	-
Chickens (see page 22)		100	106	89
(4) Number of animal units prod. livestock		42.1	53.7	40.7
(5) Work units on crops		145	183	139
Work units on productive livestock		406	461	390
Other work units		26	58	10
(6) Number of family workers		1.3	1.3	1.3
Number of hired workers		.7	.8	.8
Total number of workers		2.0	2.1	2.1
(7) Power expense per work unit	\$	\$3.04	\$2.69	\$3.38
Crop mach. expense per work unit		1.14	.94	1.37
Livestock equip. exp. per work unit		.38	.35	.44
Building exp. per work unit		1.41	1.29	1.97

\*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 164 farms included in this summary are located between the dotted lines across the center of this page.

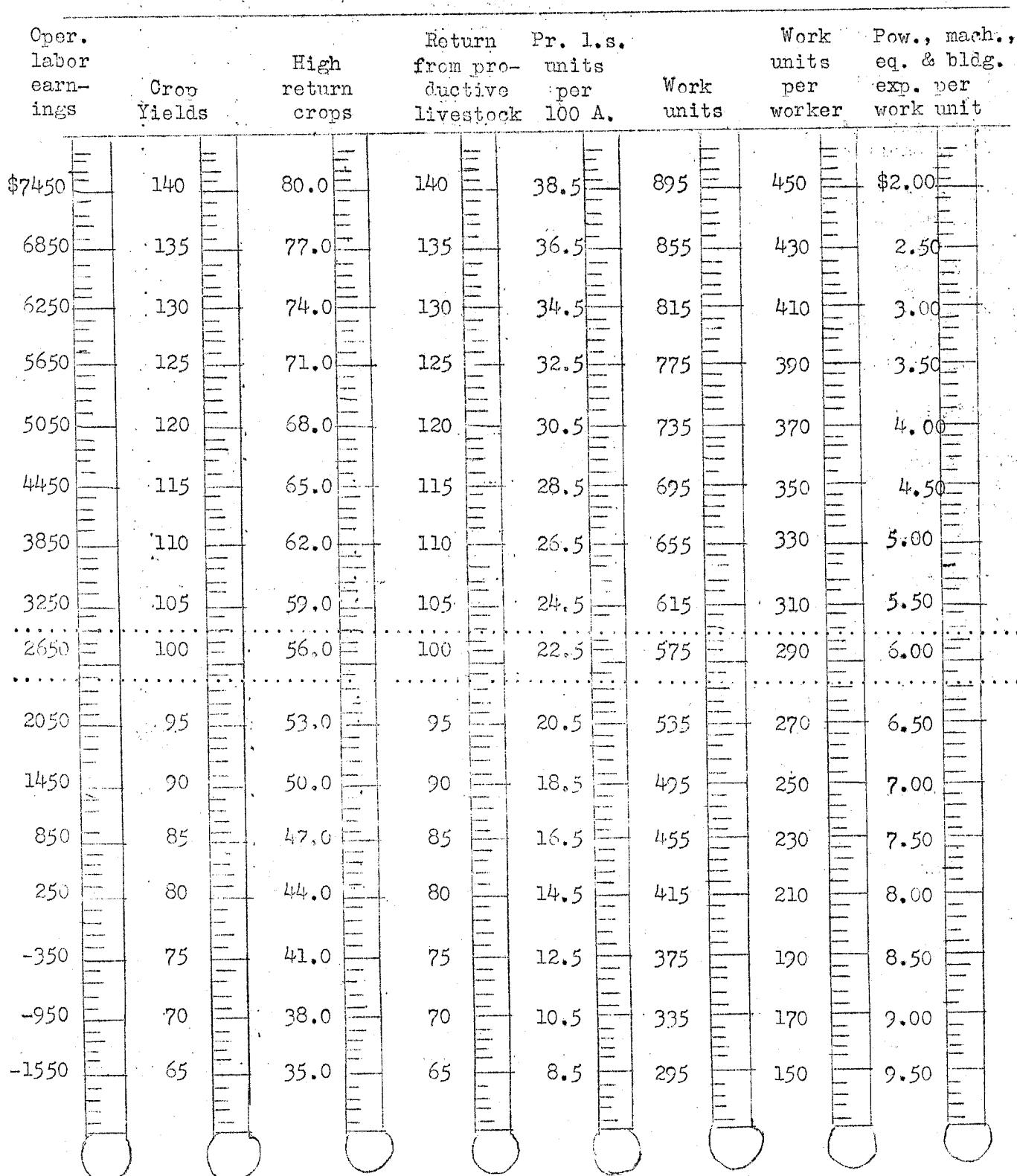


Table 11. Distribution of Acres in Farm, 1949

Crop: (A), (B), (C) and (D) refer to ranking used in calculating % of tillable land in H. h. Return Crops (see page 10)	No. growing this crop	Your farm	Average of 164 farms	33 most profit- able farms	33 least profit- able farms
Canning peas	(A) 13	—	1.4	1.9	.6
Flax	(C) 36	—	3.7	3.4	3.0
Barley	(D) 41	—	4.9	7.2	4.9
Oats and barley	(D) 19	—	2.5	3.8	3.5
Oats	(D) 156	—	36.5	40.9	34.7
Oats and wheat	(D) 26	—	1.9	2.5	2.4
Wheat	(D) 39	—	2.5	3.5	3.3
Rye, millet and buckwheat	(D) 8	—	.3	.2	.4
Total small grain and peas	160	—	53.7	63.4	52.8
Sugar beets, hybrid seed corn, potatoes and truck crops	(A) 25	—	.9	2.3	1.1
Corn grain	(A) 162	—	43.1	58.3	39.6
Corn silage	(B) 137	—	9.5	9.9	9.3
Sweet corn	(B) 12	—	1.3	1.5	1.1
Scybeans for grain	(C) 43	—	4.8	8.9	4.8
Corn fodder	(D) 13	—	.5	.5	.4
Total Cultivated crops	164	—	60.1	81.4	56.3
Alfalfa hay	(A) 154	—	25.9	31.5	22.3
Red clover hay	(B) 22	—	1.6	3.5	1.2
Scybean hay	(C) 15	—	.7	.1	.5
Mixed legumes & non-legumes	(C) 18	—	1.7	1.3	3.9
Legumes for seed	(C) 13	—	.5	1.0	.3
Timothy and/or brome hay or seed	(D) 24	—	1.3	1.4	.5
Other annual hay	(D) 3	—	.4	—	.4
Total tillable land in hay	161	—	32.1	38.8	29.1
Alfalfa and mixtures incl. alf.	(A) 94	—	10.4	13.5	10.7
Other legumes and mixtures	(C) 35	—	2.4	2.9	1.0
Sudan grass or rape pasture	(C) 29	—	1.2	.7	.9
Other tillable land in pasture	(D) 65	—	7.7	7.4	4.2
Total tillable land in pasture	145	—	21.7	24.5	16.8
Tillable land not cropped	(D) 7	—	.6	.9	1.9
Total tillable land	164	—	168.2	209.0	156.9
Wild hay (non-tillable)	47	—	4.3	4.9	8.6
Non-tillable pasture	125	—	27.8	35.6	28.4
Timber (not pastured)	68	—	6.1	8.5	3.3
Roads and waste		—	10.1	12.6	8.2
Farmstead		—	6.8	8.2	5.5
Total acres in farm		—	223.3	278.8	210.9
Per cent land tillable		—	76.9	75.0	74.4
Per cent tillable land in high ret. crops		—	56.0	58.2	55.3

Table 12. Crop Yields Per Acre, 1949

Crop	Your farm	Average of farms growing each crop
Canning peas, value above seed cost	\$ _____	\$45.85
Flax, bu.	_____	12.2
Barley, bu.	_____	28.2
Oats and barley, bu.	_____	41.3
Oats, bu.	_____	47.2
Oats and wheat, bu.	_____	35.3
Wheat, bu.	_____	16.5
Rye, bu.	_____	18.1
Corn, grain, bu.	_____	51.3
Corn and cane silage, tons	_____	9.3
Sweet corn, tons	_____	3.3
Soybeans, bu.	_____	20.0
Corn and cane fodder, tons	_____	3.3
Alfalfa hay, tons	_____	2.2
Red clover hay, tons	_____	1.7
Soybean hay, tons	_____	1.3
Mixed legume & non-legume hay, tons	_____	1.6
Legumes for seed, lbs.	_____	.99
Timothy and/or brome hay, tons	_____	1.4
Other annual hay, tons	_____	1.3
Wild hay, tons	_____	.7

Table 13. Average Price of Feeds, 1949

Item	Value	Item	Value
Ear corn, per bu.	\$1.02	Alfalfa hay, per ton	\$20.00
Oats, per bu.	.59	Red or alsike clov. hay, per ton	.17.00
Barley, per bu.	.99	Soybean hay, per ton	.17.00
Wheat, per bu.	2.00	Timothy, per ton	.11.60
Soybeans, per bu.	2.00	Wild hay, per ton	.10.00
Bran, per cwt.	2.85	Corn fodder, per ton	.9.00
Linseed oilmeal, per cwt.	4.00	Corn silage, per ton	.6.00
Soybean oilmeal, per cwt.	3.95	Pasture, per mo. per an. unit	.1.25
Tankage, per cwt.	6.15	Skim milk, per cwt.	.34

Table 14. Feed Costs for Horses, 1949

Items	Your farm	Average of 132 farms
Feed per horse, lbs.:*		
Grain		415
Hay		3132
Fodder and stover		248
Feed cost per horse:*		
Grain		\$ 7.26
Roughage		23.12
Pasture		6.37
Total feed cost		36.75
Number of work horses		2.4
Number of colts		.2

\*Two colts equal one horse

Table 15. Power and Machinery Expenses per Crop Acre, 1949

Items	Your farm	Average of 164 profitable farms	33 most profitable farms	33 least profitable farms
Crop acres per farm		150.2	188.5	146.8
Tractor and horse exp. per crop acre		\$5.59	\$4.63	\$6.30
Crop & gen. mach. exp. per crop acre		4.55	3.77	5.37

#### 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 9. 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 costs other than feed.

Table 16. Total Feed Costs and Returns From Your Livestock Enterprises, 1949

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

Table 17. Feed Costs and Returns from Hogs, 1949

Items	Your farm	Average of 141 farms	28 farms highest in returns above feed	28 farms lowest in returns above feed
Feed per cwt. hogs produced, lbs.:				
Corn	_____	325	244	256
Small grain	_____	117	111	145
Commercial feeds	_____	36	35	39
Total concentrates	_____	478	390	640
Skim milk, buttermilk and whey	_____	77	98	58
Feed cost per cwt. hogs produced:				
Concentrates	\$ _____	\$ 9.98	\$ 8.19	\$ 13.37
Skim milk, buttermilk and whey	_____	.25	.31	.20
Pasture	_____	.17	.17	.16
TOTAL FEED COSTS	\$ _____	\$ 10.40	\$ 8.67	\$ 13.73
Net increase in value per cwt hogs prod.	_____	\$ 15.83	\$ 18.17	\$ 14.03
RETURNS ABOVE FEED COST PER CWT.				
HOGS PROD.	\$ _____	\$ 5.43	\$ 9.50	\$ .30
RETURNS FOR \$100 OF FEED	\$ _____	\$ 162	\$ 215	\$ 109
Price received per cwt. hogs sold	\$ _____	\$ 17.84	\$ 19.09	\$ 16.81
No. of spring litters raised	_____	10.5	9.7	9.4
No. of fall litters raised	_____	5.4	7.0	3.7
Total no. of litters raised	_____	15.9	16.7	13.1
No. of pigs born per litter	_____	8.0	8.1	7.6
No. of pigs weaned per litter	_____	6.7	6.8	6.1
Pounds of hogs produced	_____	24886	24424	21038

Table 18. Factors of Cost and Returns from Dairy Cows, 1949

Items	Your farm	Average of 138 farms	28 highest in butterfat per cow	28 lowest in butterfat per cow
Pounds of butterfat per cow		305	383	231
% butterfat in milk		3.7	3.7	3.4
Price rec. per lb. B.F. sold (cents)		81.0	83.7	77.3
As manufacturing cream (cents)		69.8	69.0	69.7
Other (cents)		84.6	85.6	82.6
Feeds per cow, lbs:				
Corn		1481	1827	1426
Small grain		1190	1449	1123
Commercial feeds		425	697	196
Legume hay		3342	3829	3471
Other hay		914	884	733
Fodder and stover		175	95	117
Total concentrates		3096	3973	2745
Total dry roughage		4431	4808	4321
Silage		7317	7624	6845
Total Digestible nutrients*		5814	6732	5423
T.D.N. per lb. B.F.		19.1	17.6	23.5
% T.D.N. that is protein		13.6	14.2	13.1
Feed cost per cow:				
Concentrates	\$	64.61	\$ 85.29	\$ 55.21
Roughages		59.36	65.32	57.95
Pasture		6.31	5.90	7.87
TOTAL FEED COSTS	\$	130.28	156.51	121.03
Value of produce per cow:				
B.F. sales	\$	231.48	\$ 302.41	\$ 162.77
Dairy produce used in house		6.54	6.42	8.24
Milk to livestock		14.37	13.75	15.43
Net increases in value of cows		22.92	19.61	43.48
TOTAL VALUE PRODUCED		275.31	342.19	229.92
RETURNS ABOVE FEED COST PER COW	\$	145.03	185.68	108.89
RETURNS FOR \$100 OF FEED		220	228	202
Feed cost per lb. B.F. (cents)		42.7	40.9	52.4
% fall freshening		58	62	50
Number of cows**		19.1	19.9	16.0

\*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, 1949

Items	Your farm	Average of 138 farms	28 farms highest in butterfat per cow	28 farms lowest in butterfat per cow
Feeds per head, lbs.:				
Concentrates		709	900	550
Hay and fodder		1588	1734	1472
Silage		2218	2070	2496
Skim milk		340	109	412
Whole milk		376	369	336
TOTAL FEED COSTS PER HEAD	\$	49.05	54.58	43.00
Net inc. in value of other dairy cattle		65.83	71.56	63.04
RETURNS ABOVE FEED COST PER HEAD		16.78	16.98	20.04
RETURNS FOR \$100 OF FEED		\$143	\$146	\$158
Number of head of other dairy cattle		19.5	20.4	16.9

Table 20. Feed Costs and Returns From All Dairy Cattle, 1949

Items	Your farm	Average of 138 farms	28 farms highest in butterfat per cow	28 farms lowest in butterfat per cow
Feeds per animal unit, lbs.:				
Concentrates		2513	3160	2205
Hay and fodder		3898	4203	3749
Silage		6212	6274	6037
TOTAL FEED COSTS PER ANIMAL UNITS	\$	109.55	129.90	99.19
Value of produce per animal unit:				
Dairy products		158.22	202.19	113.45
Net increase in val. of dairy cattle		58.05	61.23	68.69
TOTAL VALUE PRODUCED		\$216.27	\$263.42	\$182.14
RETURNS ABOVE FEED PER ANIMAL UNIT		106.72	133.52	82.95
RETURNS PER \$100 OF FEED		\$203	\$211	\$193
Animal Units of dairy cattle		29.1	30.1	25.1

Table 21. Factors of Cost and Returns from Dual Purpose Cows, 1949

Items	Your farm	Average of 16 farms	Highest in butterfat per cow	Lowest in butterfat per cow
Pounds of butterfat per cow	_____	197	231	163
% butterfat in milk	_____	3.6	3.6	3.6
Price received per lb. B.F. sold (cents)	_____	72.6	73.3	72.1
As manufacturing cream (cents)	_____	69.8	68.3	70.8
Other (cents)	_____	81.4	81.4	81.2
Feeds per cow, lbs.:				
Corn	_____	824	930	720
Small grain	_____	499	675	321
Commercial feeds	_____	207	180	235
Legume hay	_____	2646	2586	2706
Other hay	_____	1064	1089	1040
Fodder and stover	_____	356	201	511
Total concentrates	_____	1530	1785	1276
Total dry roughage	_____	4066	3876	4257
Silage	_____	6482	6468	6494
Total digestible nutrients*	_____	4258	4369	4148
T. D. N. per lb. B. F.	_____	21.6	18.9	25.4
% T. D. N. that is protein	_____	12.5	13.0	12.1
Feed cost per cow:				
Concentrates	\$ _____	\$31.16	\$35.12	\$27.20
Roughages	_____	51.34	50.82	51.87
Pasture	_____	6.23	6.03	6.42
TOTAL FEED COSTS	_____	\$88.73	\$91.97	\$85.49
Value of produce per cow:				
B. F. Sales	_____	\$124.25	\$151.19	\$97.30
Dairy produce used in house	_____	8.53	7.93	9.13
Milk to livestock	_____	22.29	22.53	22.06
Net increases in value of cows	_____	33.18	46.79	19.57
TOTAL VALUE PRODUCED	\$ _____	\$188.25	\$228.44	\$148.06
RETURNS ABOVE FEED COST PER COW	\$ _____	99.52	136.47	62.57
RETURNS FOR \$100 OF FEED	\$ _____	\$230	\$251	\$209
Feed cost per lb. B. F. (cents)*	_____	45.0	39.8	52.4
% fall freshening	_____	50	47	53
Number of cows	_____	14.0	13.1	15.0

\*Not including nutrients received from pasture.

Table 22. Feed Costs and Returns from Other Dual Purpose Cattle, 1949

Items	Your farm	Average of 16 farms	Highest in returns above feed	Lowest in returns above feed
Feeds per head, lbs.:				
Concentrates	—	742	673	812
Hay and fodder	—	1649	1494	1805
Silage	—	2245	1432	3057
Skim milk	—	749	1043	456
Whole milk	—	387	515	258
TOTAL FEED COST PER HEAD	—	\$49.23	\$47.97	\$50.48
Net increase in value	—	70.79	91.37	50.21
RETURNS ABOVE FEED COST PER HEAD	—	21.56	43.40	.27
RETURNS FOR \$100 OF FEED	—	\$152	\$205	\$100
Number of head	—	20.8	18.0	23.7

Table 23. Feed Costs and Returns From All Dual Purpose Cattle, 1949

Items	Your farm	Average of 16 farms	Highest in returns above feed	Lowest in returns above feed
Pounds of butterfat per cow	—	197	220	174
Feeds per animal unit, lbs.:				
Concentrates	—	1793	1858	1728
Hay and fodder	—	3472	3201	3744
Silage	—	5529	4868	6189
TOTAL FEED COSTS PER ANIMAL UNIT	\$ —	\$81.25	\$74.86	\$87.63
Value of produce per animal unit:				
Dairy products	—	\$80.59	\$95.80	\$65.39
Net increase in value	—	75.32	86.89	63.74
TOTAL VALUE PRODUCED	—	\$155.91	\$182.69	\$129.13
RETURNS ABOVE FEED PER ANIMAL UNIT	\$ —	\$74.66	\$107.83	\$41.50
RETURNS FOR \$100 OF FEED	\$ —	\$210	\$266	\$154
Animal units	—	24.7	20.1	29.4

Table 24. Feed Costs and Returns from Beef Cattle, 1949

Items	Your farm	Average of all farms
Beef breeding herd: No. of farms:		5
Feeds per animal unit, lbs:		
Concentrates		1209
Legume hay		1457
Other hay		1393
Fodder and stover		89
Silage		4905
Feed cost per animal unit:		
Concentrates	\$	\$25.63
Roughages		37.13
Pasture		6.26
TOTAL FEED COSTS		\$69.02
Value of produce per animal unit:		
Dairy products	\$	\$ 8.11
Net increase in value of animals		106.85
TOTAL VALUE PRODUCED		\$114.96
RETURNS ABOVE FEED COST PER ANIMAL UNIT		\$45.94
RETURNS FOR \$100 OF FEED		\$173
Number of cows and herd bulls		16.9
Number of animal units in the herd		30.7
Lbs. beef produced		9866
Feeder cattle: No. of farms:		15
Feeds per cwt. beef produced, lbs.:		
Corn		553
Small grain		42
Commercial feeds		51
Legume hay		267
Other hay		100
Fodder and stover		22
Total concentrates		646
Total dry roughages		389
Silage		626
Feed cost per cwt. beef produced.		
Concentrates	\$	\$12.64
Roughages		4.90
Pasture		.31
TOTAL FEED COSTS	\$	17.85
Net increase in value of feeders	\$	28.11
RETURNS ABOVE FEED COST PER CWT.		
BEEF PRODUCED	\$	10.26
RETURNS FOR \$100 OF FEED		\$173
Price rec'd per cwt. beef sold in 1949		\$23.32
Price paid per cwt. beef bought		23.89
No. of Animal Units		22.7
Pounds of beef produced		11496

Table 25. Feed Costs and Returns from a Farm Flock of Sheep, 1949

Items	Your farm	Average of 37 farms		
		12 farms	12 farms	highest in West in returns above feed
Feeds per head, *lbs.:				
Concentrates		77	55	73
Legume hay		201	95	397
Other hay		89	59	89
Fodder and stover		20	53	-
Silage		150	98	215
Feed cost per head:				
Concentrates	\$	\$1.43	\$1.03	\$1.35
Roughages		2.83	1.63	4.87
Pasture		1.09	1.00	.98
TOTAL FEED COSTS	\$	5.35	3.66	7.20
Value of produce per head:				
Wool		\$3.06	\$3.11	\$3.12
Net increase in value of sheep		8.99	13.41	4.21
TOTAL VALUE PRODUCED	\$	12.05	16.52	7.33
RETURNS ABOVE FEED COST PER HEAD		6.70	12.86	.13
RETURNS FOR \$100 OF FEED		\$302	\$556	\$86
Price per cwt. of lambs sold	\$	\$21.45	\$21.14	\$20.92
Price per lb. wool sold (cts.)		45.4	46.5	44.4
Pounds of wool per sheep sheared		8.7	8.8	9.0
Number of ewes kept for lambing		29	22	30
% lamb crop**		96	106	90
% death loss**		10.2	9.5	13.3
Pounds of sheep produced		1847	1900	1194
No. of head of sheep*		40.0	27.9	40.3

\*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, 1949\*

Items	Your farm	27 farms	27 farms	Average return above feed	highest in return above feed	lowest in return above feed
		farms	above feed			
Feed per hen, lbs.:						
Grain		98	101	102		
Commercial feeds		42	43	53		
Total concentrates		140	144	155		
Skim milk and buttermilk		6	4	11		
TOTAL FEED COST PER HEN	\$	3.95	4.16	\$4.50		
Value of produce per hen:						
Eggs sold and used in house	\$	6.34	7.58	\$4.89		
Net increase in value of chickens		.60	1.89	.41		
TOTAL VALUE PRODUCED		6.94	9.47	5.30		
RETURNS ABOVE FEED COST PER HEN	\$	2.99	5.31	.80		
RETURNS FOR \$100 OF FEED	\$	184	239	120		
Price rec'd per doz. eggs sold (cents)		40.3	41.1	39.0		
Eggs laid per hen		191	224	156		
Ave. no. of hens on farm during year		264	252	250		
% of hens that are pullets		85	93	78		
% of death loss of hens		12	9	12		
Number of chicks started-straight run		123	247	87		
-pullets		331	290	344		
-cockerels		29	78	10		
Pounds of poultry produced		1445	2173	1248		

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

Table 27. Feed Costs and Returns from Chicks, 1949

Items	Your farm	Chicks purchased			Pullets and cockerels and straight run
		Pullets	Straight run	straight run	
		29	10	10	
Number of cases					
Feed per 100 chicks raised, lbs.:					
Grain		1193	1089	1026	1327
Commercial feeds		1964	1022	1482	1081
Total concentrates		2157	2111	2508	2408
Skim milk		11	-	-	79
Total feed cost per 100 chicks raised		\$69.78	\$74.99	\$89.22	\$78.34
Net increase in val. per 100 chicks		49.71	72.75	78.82	69.06
Return over feed cost per 100 chicks		-20.07	-2.24	-10.40	-9.28
Return for \$100 of feed		\$71	\$97	\$88	\$88
Number of chicks bdt					
Pullets		507	-	290	437
Straight run		-	507	125	-
Cockerels		-	-	-	78
Price paid per 100 chicks bdt					
Pullets		\$45.04	-	\$46.98	\$45.10
Straight run		-	\$24.34	24.63	-
Cockerels		-	-	-	11.37
Per cent death loss		17.9	12.9	18.4	17.5
Number chicks raised		418	423	334	435
Pounds of poultry produced		1656	1752	1382	1788

Table 28. Feed Cost and Returns from Laying Hens, 1949

Items	Your farm	Eggs laid per hen			225 and over
		Below	175-	225	
		175	224	over	
Number of cases		33	41	18	
Feed per hen, lbs.:					
Grain		71	77	80	
Commerical feeds		23	30	27	
Total concentrates		94	107	107	
Skim milk		7	2	1	
Total feed cost per hen		\$2.52	\$2.85	\$2.88	
Value of produce per hen:					
Eggs sold and used in home		\$4.93	\$6.47	\$7.87	
Net increase in value of hens		-.49	-.52	-.32	
Total value produced		4.44	5.95	7.55	
Return above feed cost per hen		1.92	3.10	4.67	
Return for \$100 of feed		\$192	\$204	\$268	
Eggs laid per hen		149	191	240	
Price rec'd per doz. eggs sold (cts.)		40.0	38.8	40.1	
Per cent of eggs sold by grade		84	90	88	
Ave. no. hens on farm during year		252	269	279	
% death loss		15	10	11	
% of hens that are pullets		71	85	91	

Table 29. Feed Costs and Returns for Turkeys, 1949

Items	Your farm	Average of 5 farms
Feed per cwt. turkeys produced, lbs.:		
Grain		389
Commercial feeds		186
Total concentrates		575
Feed cost per cwt. turkeys produced	\$ _____	\$17.08
Net increase in value per cwt. turkeys produced	\$ _____	\$33.60
RETURNS ABOVE FEED COST PER CWT.		
TURKEYS PRODUCED	\$ _____	\$16.52
RETURNS FOR \$100 FEED	\$ _____	\$207
No. of poults put on feed		1124
Price paid per poult purchased (cts.)		83.7
% death loss		17.5
Price rec'd per lb. turkeys sold (cts.)		40.1
Weight per bird sold (lbs.)		16.3
Pounds of turkeys produced		14979

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 1940-42	1943	1944	1945	1946	1947	1948	1949
Number of farms	148	140	149	182	177	161	170	170	170	173	164
Acres in farm	170	199	218	227	224	229	224	222	223	225	223
Crop acres in farm	116	136	147	148	148	145	145	149	146	150	150
Farm Inventory	\$24574	\$19851	\$20286	\$24750	\$27278	\$28034	\$27634	\$29020	\$31183	\$33873	\$35300
<b>Farm earnings (see page 27)</b>											
<b>FARM EXPENSES</b>											
Cattle	\$ 141	\$ 83	\$ 213	\$ 491	\$ 374	\$ 357	\$ 372	\$ 333	\$ 436	\$ 646	\$ 636
Hogs bought	85	52	72	128	205	182	168	158	226	199	217
Sheep bought	6	14	94	60	62	80	108	86	65	45	18
Poultry bought	37	41	80	117	167	194	210	195	149	145	182
Horses bought	36	33	43	31	34	30	17	17	11	11	12
Misc. livestock expense	66	64	94	101	161	155	165	198	250	257	268
Misc. crop expenses	186	160	222	222	364	472	463	551	780	933	780
Feed bought	440	313	535	945	1799	1730	1764	1920	2224	2090	1773
Custom work hired	-	-	-	134	185	240	273	363	400	507	461
Power mach. (new & exp.)	399	321	559	707	647	818	855	1135	1515	2178	2128
Mach. and equip. (new)	190	122	281	410	348	384	515	524	823	1372	990
Mach. and equip. (upkeep)	72	55	67	108	188	208	231	257	303	318	290
Bldgs., fencing (new)	130	81	245	303	361	382	249	431	897	1205	1109
Bldgs., fencing (upkeep)	52	32	79	158	228	236	200	277	354	383	403
Hired labor	272	243	398	476	693	805	663	740	893	957	990
Taxes and insurance	298	313	281	290	312	332	338	384	425	525	575
General farm	30	28	35	44	63	67	72	79	94	104	115
Total farm purchases	\$2,440	\$1,955	\$3,298	\$4,725	\$6,191	\$6,672	\$6,663	\$7,648	\$9,845	\$11,875	\$10,947
Decrease in farm capital	-	230	-	-	-	511	238	-	-	-	-
Board to hired labor	102	87	145	154	171	156	108	147	201	209	203
Interest on farm capital	1,228	992	1014	1237	1364	1402	1382	1451	1559	1694	1765
Unpaid family labor	358	261	239	284	386	395	441	506	582	544	483
Total farm expenses	\$4,128	\$3,525	\$4,696	\$6,400	\$8,112	\$9,136	\$8,832	\$9,752	\$12,187	\$14,322	\$13,398

Table 31. Summary by Years (continued)

	Average 1928-29	Average 1930-34	Average 1935-39	Average 1940-42	1943	1944	1945	1946	1947	1948	1949
<b>FARM RECEIPTS</b>											
Cattle	\$ 753	\$ 431	\$ 713	\$ 1,302	\$1,280	\$1,492	\$1,439	\$1,520	\$2,108	\$2,440	\$2,602
Dairy products	1,662	1,188	1,451	1,751	2,475	2,961	3,403	4,192	4,129	4,811	3,866
Hogs	1,164	793	1,074	1,955	3,551	3,168	2,573	2,863	4,362	4,222	3,971
Sheep and wool	52	60	200	171	203	214	230	265	224	299	143
Poultry	140	166	381	548	688	814	787	954	609	596	416
Eggs	275	243	372	565	1,040	1,022	1,265	1,172	1,410	1,402	1,347
Horses	30	27	55	37	31	28	23	20	23	15	17
Corn	37	62	153	109	137	143	175	207	402	316	576
Small grain	241	177	357	270	320	261	239	372	904	1,264	511
Other crops	163	155	174	331	520	762	776	705	1,033	911	672
Income labor off farm	102	118	168	138	146	145	168	168	173	225	153
Agric. adj. payments	0	74	230	332	190	81	48	67	65	76	36
Misc.	134	138	247	302	214	290	300	431	505	611	503
Total farm sales	\$4,753	\$3,632	\$5,575	\$7,811	\$10,795	\$11,381	\$11,426	\$12,936	\$15,947	\$17,188	\$14,813
Increase in farm cap.	617	-	524	1,315	1,167	-	-	1,706	3,542	1,520	527
Fam. living from farm	325	232	273	513	643	646	639	700	741	791	700
Total farm receipts	5,695	3,864	6,372	9,639	12,605	12,027	12,065	15,342	20,230	19,499	16,040
Total farm expenses	4,128	3,525	4,396	6,400	8,112	9,136	8,832	9,752	12,187	14,322	13,398
Oper. lab. earnings	1,567	339	1,676	3,239	4,493	2,891	3,233	5,590	8,043	5,177	2,642
<b>MISCELLANEOUS ITEMS</b>											
Yield per A. corn (bu.)	44.8	43.4	47.2	58.4	51.8	51.6	34.0	50.7	41.6	60.3	51.3
Yield per A. barley (bu.)	36.0	26.2	28.7	32.7	16.2	9.8	32.7	31.0	29.4	32.6	28.2
Yield per A. oats (bu.)	46.0	40.0	43.4	46.3	42.7	39.1	48.3	43.1	47.5	55.0	47.2
Yield per A. alfalfa (tons)	3.0	2.3	2.3	2.5	2.4	2.1	2.5	2.2	2.4	2.3	2.2
% high return crops	31.9	35.8	41.0	42.0	41.1	49.3	47.1	50.3	50.2	51.0	56.0
A.U. livestock per 100 A.	19.2	20.6	19.3	24.4	25.4	23.8	23.4	22.8	22.6	22.2	22.7
No. of work units	599	747	777	671	671	666	645	634	573	577	577
Work units per worker	310	338	341	303	305	303	323	317	287	288	288
Expenses per work unit	\$1.76	\$1.26	\$1.37	\$1.92	\$2.79	\$3.21	\$3.32	\$3.81	\$4.74	\$5.62	\$5.97
No. of work horses	5.4	5.4	4.5	4.0	3.8	3.5	3.2	2.8	2.5	2.3	2.0
No. of colts	.3	.7	1.2	1.9	1.7	1.7	.5	1.3	.2	.2	.2
No. of milk cows	14.2	17.8	17.8	17.5	17.5	17.9	17.3	16.7	16.9	16.7	17.4

Table 31. Summary by Years (continued)

Misc. Items (cont.)	Average 1928-29	Average 1930-34	Average 1935-39	Average 1940-42	1943	1944	1945	1946	1947	1948	1949
No. of litters of pigs	9.3	10.3	9.5	13.9	18.1	12.1	12.3	9.1	11.0	12.4	13.7
Lbs. of hogs produced	12,706	15,153	13,438	20,795	25,149	20,398	18,669	15,516	17,686	19,215	21,438
No. of head of sheep	7.0	13.5	18.8	17.0	15.2	12.7	11.8	11.3	11.0	10.8	9.3
No. of hens	136	169	182	204	246	250	247	240	239	230	220
Lbs. B. F. per dairy cow	244	240	238	258	247	237	254	266	281	284	305
Lbs. B. F. per dual pur. cow	-	-	-	191	182	169	173	170	180	186	197
Pigs weaned per litter	6.3	6.1	6.4	6.3	6.0	6.1	6.3	6.5	6.2	6.4	6.7
No. of eggs laid per hen	95	114	131	140	147	157	168	173	177	179	191
<u>PRICE RECEIVED PER:</u>											
Lb. B.F. sold as cream	.52	.28	.34	.39	.55	.61	.65	.82	.84	.95	.70
Cwt. hogs sold	8.92	4.98	8.26	9.24	13.88	13.08	14.24	17.23	24.54	22.95	17.84
Cwt. feeder cattle sold	-	-	-	10.03	13.84	13.84	13.86	15.53	21.94	28.16	23.32
Lb. wool sold	.36	.16	.25	.37	.42	.43	.44	.46	.37	.46	.45
Dz. eggs sold	.28	.16	.19	.23	.36	.32	.37	.35	.42	.43	.40
Lb. turkey sold	-	-	.20	.22	.33	.34	.33	.33	.36	.48	.40
<u>RETURN ABOVE FEED COST PER:</u>											
Dairy cow	\$76.50	\$28.15	\$49.95	\$71.52	\$93.27	\$101.31	\$125.85	\$178.55	\$153.06	\$203.85	\$145.03
Dual purpose cow	-	-	-	46.53	57.81	60.36	74.15	110.58	106.77	130.26	99.52
Cwt. hogs produced	1.50	.48	2.98	4.67	2.90	2.77	4.26	7.04	8.19	5.52	5.43
Head of sheep	5.50	.81	2.82	4.89	4.51	3.98	5.05	8.52	7.33	8.06	6.70
Hen	1.82	.99	1.12	1.58	2.55	1.82	2.66	2.05	1.34	2.52	2.99
Cwt. turkeys prod.	-	-	10.81	11.19	14.89	19.24	14.30	9.85	4.74	27.48	16.52
<u>FEED COST PER:</u>											
Dairy cow	\$69.50	\$47.30	\$44.93	\$50.20	\$77.61	\$87.44	\$95.32	\$106.99	\$141.42	\$142.12	\$130.28
Dual purpose cow	-	-	-	42.06	62.90	71.32	69.93	69.97	93.83	100.12	88.73
Cwt. hogs produced	7.66	4.21	5.10	5.48	10.21	10.93	9.97	12.77	17.99	15.04	10.40
Head of sheep	2.82	2.23	2.62	2.73	4.34	3.96	4.60	4.40	5.54	5.94	5.35
Hen	1.62	1.13	1.57	1.81	3.03	3.42	3.56	4.11	5.53	4.78	3.95
Cwt. turkeys prod.	-	-	8.47	10.10	17.66	16.35	15.28	19.93	27.70	18.43	17.08
Horse	55.09	35.59	36.02	35.69	50.93	49.60	43.79	41.67	48.56	41.82	36.75
<u>PRICE OF FEED:</u>											
Corn (per bu.)	.70	.45	.59	.56	.91	.98	.88	1.17	1.76	1.63	1.02
Barley (per bu.)	.60	.42	.49	.42	.79	.92	.94	1.22	1.82	1.59	.99
Oats (per bu.)	.48	.26	.28	.34	.62	.68	.64	.71	.92	.88	.59
Bran (per cwt.)	1.70	.98	1.22	1.53	2.10	2.20	2.20	2.70	3.20	2.85	2.85
Oilmeal (per cwt.)	3.00	1.96	2.12	2.00	2.55	2.32	2.82	3.40	4.50	4.50	4.00
Alfalfa (per ton)	14.75	11.10	9.30	7.85	11.00	15.00	15.00	15.50	21.50	20.00	20.00

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 1949.

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 1949 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

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 1949 results with previous years.