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Department of Agriculture  
and

**UNITED STATES DEPARTMENT OF AGRICULTURE**

Bureau of Agricultural Economics  
and the  
County Extension Services of

Cottonwood, Faribault, Jackson, Martin, Murray, Nobles, Redwood,  
Rock, and Watonwan Counties

and the

Southwest Minnesota Farm Management Association  
Cooperating

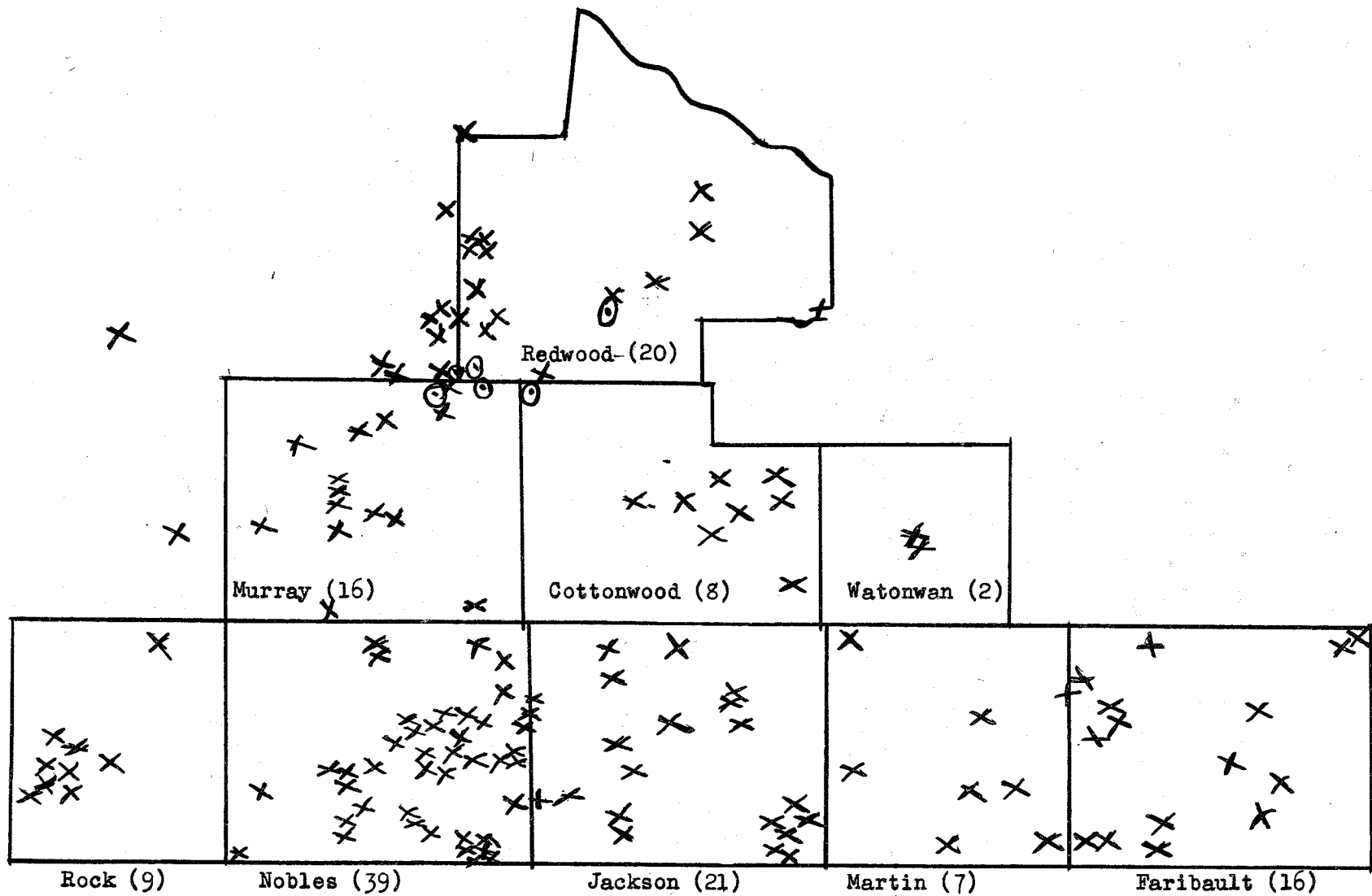
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Annual Report  
of the  
Southwestern Minnesota  
Farm Management Service  
1948

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

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Division of Agricultural Economics  
University Farm  
St. Paul 1, Minnesota  
May 1949



Location of Farms in the Southwest Minnesota Farm Management Association, 1948

X = regular members

⊙ = G. I. cooperators

# ANNUAL REPORT OF THE SOUTHWEST MINNESOTA FARM MANAGEMENT SERVICE, 1948

Prepared by T. R. Nodland and G. A. Pond

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## 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 several southwestern Minnesota Counties are cooperating with the Southwest Minnesota Farm Management Association in maintaining a farm management service. The Association was organized in the fall of 1939 by farmers in that part of the state for the purpose of studying the farm business through farm records. Each farmer 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.

The analysis of the records and the preparation of the report are 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. David S. Johnson was the field agent for this project. At the end of the year, S. A. Engene, Wm. E. McDaniel and J. A. Shute of the Division of Agricultural Economics aided in closing the records.

County agricultural extension agents who cooperate in this project include H. J. Vossen, Fred Geisler, Roland Abraham, Donald T. Morse, A. B. Hagen, Ross Huntsinger, J. I. Swedberg, Howard Newell, Henry R. Fox, and Robert Roufs.

The officers for the Southwest Farm Management Association for 1948 were:

- President; Will N. Nelson, Tracy, Redwood County
- Vice-President; Don Mitchell, Round Lake, Nobles County
- Secretary-Treasurer; Arthur Foster, Garvin, Murray County

The board of directors include these officers and also the following: Walter Schmetzer, Cottonwood county; Sherman Oliver, Faribault County; Glen Olson and Claude Drchota, Jackson County; John Talley, Martin County; Ted Drackley, Murray County; Earl Newburn and Eloy Johnson, Nobles County; Tom Hicks, Redwood County; George Hofelman, Rock County; and Clayton Johnson, Watonwan County.

The following tabulation shows by counties the numbers of members who completed records in 1948.

Cottonwood	6	Martin	8	Redwood	22
Faribault	15	Murray	18	Rock	9
Jackson	21	Nobles	40	Watonwan	3
				Total	142

In the tables on page 6 and succeeding pages are shown data for 136 farms. Two farms were omitted from all of the averages in the tables because the records were not sufficiently complete for a full analysis. Four records were not returned for analysis following completion of income tax schedules.

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

	Worthington		Fairmont		Windom	
	Precipitation	Departure from normal	Precipitation	Departure from normal	Precipitation	Departure from normal
	Inches	Inches	Inches	Inches	Inches	Inches
January	.06	-.57	.04	-.76	.08	-.56
February	1.29	+.52	2.27	+1.30	.91	+.17
March	.64	-.62	.78	-.63	.45	-.69
April	2.55	+.47	2.79	+.56	2.48	+.59
May	3.37	-.57	3.91	-.01	3.86	+.17
June	4.78	+.49	4.41	+.27	4.29	+.36
July	5.78	+2.39	4.46	+.90	4.25	+.78
August	1.95	-1.81	2.19	-1.36	1.56	-2.04
September	1.91	-1.50	2.29	-1.03	1.85	-1.14
October	1.68	-.01	1.30	-.55	.98	-.65
November	2.29	+1.12	3.04	+1.65	2.17	+1.05
December	.71	.00	1.55	+.65	.59	-.06
1948 Total	27.01	-0.09	29.03	+0.99	23.47	-2.02
1947 Total	25.89	-1.21	30.49	+2.45	25.03	-0.46
1946 Total	27.62	+0.52	37.80	+9.76	29.18	+3.70
Norm. An. Prec.	27.10		28.04		25.49	

Table 2. Summary of Farm Inventories, 1948\*

Items	Your farm		Average of 136 farms	
	Jan. 1	Dec. 31	Jan. 1	Dec. 31
Size of farm (acres)			250	
Size of business (work units)**			489	
Dairy and dual purpose cows			\$591	\$654
Other dairy & dual purpose cattle			334	387
Beef cattle (incl. feeders)			3149	3890
Hogs			3413	2867
Sheep (including feeders)			304	160
Poultry (including turkeys)			238	263
Productive livestock (total)			8029	8221
Horses			92	72
Crop, seed and feed			7912	7225
Power mach. (farm share)			1644	2387
Crop & general mach. (farm share)			2244	3056
Livestock equipment & supplies			540	548
Mach. & equipment (total)			4428	5991
Buildings, fences, etc.			8020	8514
Land			14891	14891
Total farm capital			43372	44914

Items	27 most profitable		27 least profitable	
	Jan. 1	Dec. 31	Jan. 1	Dec. 31
Size of farm (acres)	356		204	
Size of business (work units)**	648		384	
Dairy and dual purpose cows	\$ 651	\$ 661	\$ 501	\$ 658
Other dairy & dual purpose cows	270	298	388	342
Beef cattle (incl. feeders)	5622	6684	2612	3298
Hogs	4305	4091	2930	2290
Sheep (including feeders)	168	66	156	95
Poultry (including turkeys)	205	254	283	247
Productive livestock (total)	11221	12054	6870	6930
Horses	109	78	97	74
Crop, seed, and feed	11842	11535	6128	4725
Power mach. (farm share)	2029	3105	1426	1920
Crop & general mach.	2951	3784	1761	2370
Livestock equipment & supplies	622	655	458	466
Mach. & equipment (total)	5602	7544	3645	4756
Buildings, fences, etc.	10825	11297	6487	7239
Land	19681	19681	12557	12557
Total farm capital	59280	62189	35784	36281

\*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 21 for an explanation of "work units".

Table 3. Summary of Farm Earnings (Cash Statement), 1948

Items	Your farm	Average of 136 farms	27 most profitable farms	27 least profitable farms
<b>FARM RECEIPTS</b>				
Dairy and dual-purpose cows	\$ 294	\$ 307	\$ 167	
Dairy products	1046	937	829	
Other dairy & dual-purpose cattle	322	229	297	
Beef cattle (including feeders)	4508	8190	2994	
Hogs	8207	11530	5284	
Sheep and wool (including feeders)	421	225	485	
Poultry (including turkeys)	418	256	271	
Eggs	1108	1148	982	
Horses	25	33	26	
Corn	1498	2530	950	
Small grain	3818	6853	2678	
Other crops	1160	2264	829	
Machinery & equip. sold	355	360	198	
Agricultural adjustment payments	65	117	36	
Income from work off the farm	306	527	169	
Miscellaneous	124	101	59	
(1) Total farm sales	\$23675	\$35607	\$16254	
(2) Increase in farm capital	1542	2909	497	
(3) Family living from the farm	702	813	634	
(4) Total farm receipts (1)+(2)+(3)	\$25919	\$39329	\$17385	
<b>FARM EXPENSES</b>				
Dairy and dual-purpose cows bought	\$ 109	\$ 61	\$ 151	
Other dairy and dual-pur. cattle bot	61	29	40	
Beef cattle bot (incl. feeders)	2341	3470	1496	
Hogs bought	389	585	302	
Sheep bought (incl. feeders)	97	23	309	
Poultry bought (including turkeys)	133	129	104	
Horses bought	11	4	6	
Misc. livestock expense	273	370	218	
Misc. crop expenses	1112	1680	775	
Feed bought	3926	4643	2941	
Custom work hired	421	451	437	
Mech. power mach. (farm share) (new)	1173	1509	872	
Mech. power mach. (farm share) (upkp.)	358	371	377	
Mech. power (f. share) (gas, oil, etc.)	919	1204	750	
Crop and general mach. (new)	1328	1517	979	
Crop and general mach. (upkeep)	368	507	291	
Livestock equipment (new)	108	124	81	
Livestock equipment (upkeep)	131	132	99	
Buildings and fencing (new)	941	1028	1189	
Buildings and fencing (upkeep)	413	476	389	
Hired labor	944	1697	735	
Taxes	459	618	381	
General farm and insurance	211	239	201	
(5) Total farm purchases	\$16226	\$20867	\$13123	
(6) Decrease in farm capital	-	-	-	
(7) Interest on farm capital	2207	3037	1802	
(8) Unpaid family labor	421	304	449	
(9) Board furnished hired labor	127	207	173	
(10) Total farm exp. (sum of (5) to (8))	\$18981	\$24415	\$15547	
(11) Oper. labor earnings (4) - (10)	6938	14914	1838	

Table 4. Summary of Farm Earnings (Enterprise Statement) 1948\*

Items	Your farm	Average of 136 farms	27 most profitable farms	27 least profitable farms
<b>RETURNS AND NET INCREASES</b>				
Dairy and dual purpose ccws		\$1286	\$1235	\$1076
Other dairy & dual pur. cattle		448	377	285
Beef breeding herd		820	1266	564
Feeder cattle		2249	4650	1710
Hogs		7386	10864	4427
Sheep - farm flock		164	54	132
Sheep - feeders		14	34	-17
Turkeys		90	-	-
Chickens		1415	1422	1197
All productive livestock		13872	19902	9374
Crops, seed, and feed		779	5050	-594
Agricultural conservation payments		65	117	36
Income from labor off the farm		160	268	107
Miscellaneous		230	311	202
(1) Total returns & net increases		15106	25648	9125
<b>EXPENSES AND NET DECREASES</b>				
Horses	\$	\$ 62	\$ 80	\$ 76
Tractor		808	1004	690
Truck		184	208	145
Auto (farm share)		386	441	434
Elec. and gas engine exp. (f. share)		100	118	83
Hired power		143	148	151
Total power		1683	1999	1579
Crop and general machinery		782	993	714
Livestock equipment		216	209	165
Buildings, fencing, and tiling		722	927	739
Misc. productive livestock expense		272	370	217
Labor		1616	2342	1489
Real estate taxes		362	482	301
Personal property tax		97	136	80
Insurance		71	73	63
General farm		140	166	138
Interest on farm capital		2207	3037	1802
(2) Total expenses & net decreases		8168	10734	7287
(3) Oper. labor earnings (1) - (2)		6938	14914	1838

\*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, 1948 (Operator's Share)

	Your farm		30 Owners	
	Jan. 1	Dec. 31	Jan. 1	Dec. 31
Total acres in farm			230.8	
Owned			230.8	
Rented			-	
Total farm capital			\$44874	\$46180
Accounts receivable			1461	1591
Stocks and bonds			3941	4825
Life insurance			1235	1518
Outside real estate			3256	2961
Other outside investments			197	273
Total outside investments			8629	9577
Cash on hand and in bank			2530	2609
Other household & personal assets			1627	1980
Total cash, household & personal assets			4157	4589
TOTAL ASSETS			59121	61937
Federal Land Bank Mortgage			1935	1610
Other mortg. on land operated			3888	3897
Mortgages on other real estate			-	-
Production Credit Association			1334	1352
Crop loans			-	59
Other chattel mortgages			617	117
Notes payable			788	1107
Accounts payable			89	135
TOTAL LIABILITIES			8651	8277
Farmer's net worth			50470	53660
Gain in net worth				+3190

	19 Part Owners*		24 Renters**	
	Jan. 1	Dec. 31	Jan. 1	Dec. 31
Total acres in farm	314.5		244.3	
Owned	191.7		-	
Rented	122.8		244.3	
Total farm capital	\$36553	\$37521	\$16252	\$19289
Accounts receivable	50	115	284	123
Stocks and bonds	5879	6524	2148	2646
Life insurance	1905	2088	415	506
Outside real estate	905	963	667	833
Other outside investments	133	193	296	429
Total outside investments	8822	9768	3526	4414
Cash on hand and in bank	1551	2009	1319	1995
Other household and personal assets	1745	2116	1853	2102
Total cash, household & personal assets	3296	4125	3172	4097
TOTAL ASSETS	48721	51529	23234	27923
Federal Land Bank Mortgage	913	720	-	-
Other mortg. on land operated	2308	2178	-	-
Mortgages on other real estate	42	42	513	497
Production Credit Association	684	1279	1864	1715
Crop loans	-	383	-	-
Other chattel mortgages	784	348	608	707
Notes payable	1536	1861	1038	877
Accounts payable	261	97	207	316
TOTAL LIABILITIES	6528	6908	4230	4112
Farmer's net worth	42193	44621	19004	23811
Gain in net worth		+2428		+4807

\* 6 rented for cash, 6 cash and crop share, 5 crop share and 2 livestock share.  
 \*\* 3 rented for cash, 13 cash and crop share, 3 crop share and 5 livestock share.



Table 6. Summary of Farm Earnings by Tenure, 1948 (Operator's Share)

	Year farm	30 owners	19 part owners	24 renters
<b>FARM RECEIPTS</b>				
Dairy and dual-purpose cows		\$ 380	\$ 267	\$ 254
Dairy products		1440	332	810
Other dairy and dual-purpose cattle		1091	95	201
Beef cattle (including feeders)		5230	6064	3778
Hogs		9604	8496	6509
Sheep and wool (including feeders)		221	561	98
Poultry (including turkeys)		788	223	244
Eggs		1115	817	728
Horses		125	34	26
Corn		1498	1633	395
Small grain		3697	4403	2156
Other crops		1099	1926	651
Machinery & equip. sold		477	239	392
Agricultural adjustment payments		81	76	39
Income from work off the farm		265	355	267
Misc.		325	54	32
(1) Total farm sales		27436	25575	16580
(2) Increase in farm capital		1306	968	3037
(3) Family living from the farm		832	636	614
(4) Total farm receipts (1)+(2)+(3)		29574	27179	20231
<b>FARM EXPENSES</b>				
Dairy and dual-purpose cows bought		\$ 61	\$ 86	\$ 82
Other dairy & dual-pur. cattle bought		56	54	70
Beef cattle bought (incl. feeders)		2986	3188	2443
Hogs bought		475	567	343
Sheep bought (including feeders)		36	145	74
Poultry bought (including turkeys)		174	114	88
Horses bought		16	17	7
Misc. livestock expenses		407	254	212
Misc. crop expenses		1181	1342	914
Feed bought		5053	3533	3057
Custom work hired		503	512	289
Mech. power mach. (farm share)(new)		1373	1020	793
Mech. power mach. (farm share)(upkp.)		359	375	394
Mech. power (f. share)(gas, oil, etc.)		904	1016	789
Crop and general mach. (new)		1448	922	1375
Crop and general mach. (upkeep)		340	391	395
Livestock equipment (new)		158	53	139
Livestock equipment (upkeep)		146	96	107
Land buildings and fencing (new)		1813	1767	216
Buildings and fencing (upkeep)		641	275	159
Hired labor		1242	1127	586
Taxes (real estate & pers. property)		474	368	72
General farm and insurance		261	222	143
Cash rent		-	701	433
Interest paid		331	327	134
(5) Total farm purchases		20438	18472	13314
(6) Decrease in farm capital		-	-	-
(7) Interest on farm capital		1945	1525	755
(8) Unpaid family labor		317	373	249
(9) Board furnished hired labor		152	125	87
(10) Total farm exp. (sum of (5) to (8))		22852	20495	14405
(11) Operator's labor earnings (4)-(10)		6722	6684	5826
(12) Ret. cap. & fam. lab. (7)+(8)+(11)		8984	8582	6830

Table 7. Household and Personal Expenses and Receipts for These Farms Which Kept Complete Accounts of These Expenses, 1948

Items	Your farm	Average of 59 farms	12 most profitable farms	12 least profitable farms
Number of persons in family		4.1	4.5	3.7
Number of adult equivalents in family		3.0	3.3	2.9
Number of other adult equivalents*		.2	.2	.4
<u>EXPENSES</u>				
Food and meals bought	\$	\$661	\$756	\$639
Operating and supplies		275	352	230
Clothing and clothing materials		370	533	282
Personal care, personal spending		82	114	88
Furnishings and equipment		297	336	291
Education, recreation and development		176	192	103
Medical care and health insurance		200	255	163
Church, welfare, gifts		337	342	320
Personal share of auto expense		119	145	96
Household share of elect. & gas eg. exp.		53	65	42
H.H. & pers. shr. of new auto, gas, eg. & mot. bct		186	312	151
Total		2756	3402	2405
State and federal income tax		1359	2617	1034
Insurance		333	531	90
Total household and pers. cash exp.		4448	6550	3529
Food furnished by the farm		455	550	445
Fuel furnished by the farm		5	-	8
House rental		253	337	264
Total cash expenses and perquisites		5161	7437	4246
Investments		1161	3565	241
<u>RECEIPTS</u>				
Sale of investments		355	1456	-
Income from outside investments		111	105	53
Misc. income		250	75	194

\* Hired help or others boarded.

Table 8. Family Living from the Farm, 1948

Items	Your farm	27 most profitable farms		27 least profitable farms		Average 136 farms	27 most profitable farms		27 least profitable farms	
		Average 136 farms	profitable farms	profitable farms	Your farm		Average 136 farms	profitable farms	profitable farms	
No. of (fam. adult equiv. (cth.*		3.2	3.1	2.7						
		.3	.5	.4						
Whole milk		925 qts.	1015	938		\$71.81	\$76.81	\$78.30		
Skim milk		189 qts.	162	42		3.52	1.50	1.63		
Cream		105 pts.	96	92		26.42	23.41	22.46		
Farm made butter		2 lbs.	4	5		1.62	3.71	3.86		
Cattle		358 lbs.	355	226		81.16	85.64	54.02		
Hogs		520 lbs.	627	390		114.07	136.78	84.48		
Sheep		3 lbs.	-	-		.77	-	-		
Poultry		88 lbs.	71	105		22.55	17.62	24.83		
Eggs		161 doz.	177	153		61.81	67.63	58.88		
Potatoes		9 bus.	10	5		12.38	13.98	7.65		
Vegetables & fruits						56.62	67.04	60.74		
Farm fuel						5.15	4.08	5.93		
Rental vl. of house						244.29	314.68	231.12		
Total						702.17	812.88	633.90		

\*Hired help or others boarded.

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 or 1	19		XXXXXXXXXXXX	\$ 3472
2	30		XXXXXXXXXXXXXXXXXXXX	6226
3	22		XXXXXXXXXXXXXXXXXXXX	6550
4	33		XXXXXXXXXXXXXXXXXXXX	7093
5	18		XXXXXXXXXXXXXXXXXXXX	9194
6 or 7	14		XXXXXXXXXXXXXXXXXXXX	10510

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, 1948

Measures used in chart on page 11	Your farm	Average of 136 farms	27 most profit- able farms	27 least profit- able farms
Operator's labor earnings	\$ _____	\$6938	\$14914	\$1838
(1) Crop yields*	_____	100	105	94
(2) % of tillable land in high ret. crops**	_____	55.7	56.3	52.9
(3) Ret. for \$100 feed to prod. livestock***	_____	100	116	88
(4) Prod. livestock units per 100 acres****	_____	19.5	19.9	17.5
(5) Size of business - work units	_____	489	648	384
(6) Work units per worker	_____	272	324	226
(7) Pow., mach., equip., & bldg. exp. per work unit	\$ _____	\$7.41	\$6.68	\$8.58
Items related to some of the above measures:				
(3) Index of return for \$100 feed from -				
Dairy cattle (See pages 16 & 17)	_____	100	112	97
Dual-purpose cattle (See pp. 16 & 17)	_____	100	108	117
Beef cattle - breeding herd (see p. 18)	_____	100	133	69
Beef cattle - feeders (See page 18)	_____	100	105	92
Hogs (See page 15)	_____	100	112	85
Sheep - farm flock (See page 20)	_____	100	139	173
Sheep - feeders (See page 21)	_____	100	-	-
Turkeys	_____	100	-	-
Chickens (See page 19)	_____	100	109	87
(4) Number of animal units	_____	43.1	57.2	33.4
(5) Work units on crops	_____	177	253	141
Work units on productive livestock	_____	285	350	225
Other work units	_____	27	45	18
(6) Number of family workers	_____	1.3	1.2	1.3
Number of hired workers	_____	.5	.8	.4
Total number of workers	_____	1.8	2.0	1.7
(7) Power expense per work unit	\$ _____	\$3.69	\$3.16	\$4.32
Crop machinery expense per work unit	_____	1.70	1.63	1.95
Livestock equip. expense per work unit	_____	.45	.34	.42
Bldgs. & fencing exp. per work unit	_____	1.57	1.55	1.89

\*Given as a percentage of the average.

\*\*Crops are marked in Table 11 as (A), (B), (C), and (D). All of 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 136 farms included in this summary are located between the dotted lines across the center of this page.

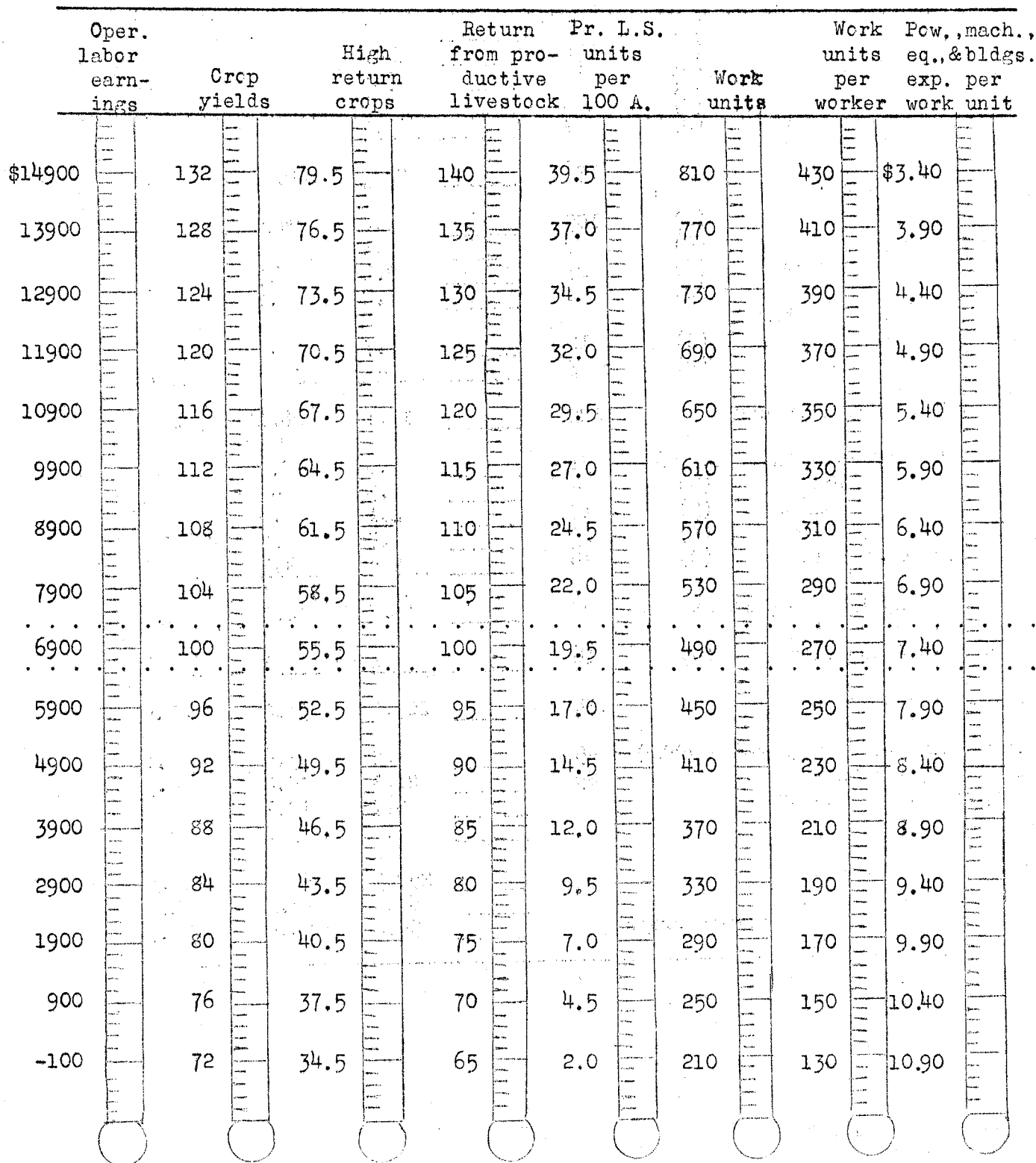


Table 11. Distribution of Acres in Farm, 1948

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 136 farms	27 most profitable farms	27 least profitable farms
Canning peas (A)	3	_____	.2	-	.4
Soybeans (B)	72	_____	11.2	15.6	7.9
Flax (C)	99	_____	25.5	44.5	19.3
Barley (D)	39	_____	7.5	11.5	9.0
Oats (C)	132	_____	45.1	62.0	36.7
Wheat, Rye, millet and buckwheat (D)	14	_____	1.5	2.3	.4
Total Small Grain, peas & Soybeans	136	_____	91.0	135.9	73.7
Hybrid seed corn, potatoes & truck crops (A)	3	_____	.3	.1	.2
Corn grain (A)	136	_____	78.6	110.6	58.8
Corn or sorghum silage (B)	60	_____	3.6	5.0	3.8
Sweet corn (B)	3	_____	.3	-	.4
Corn or sorghum fodder (D)	7	_____	.5	.2	.5
Total cultivated crops	136	_____	83.3	115.9	63.7
Alfalfa hay (A)	109	_____	16.0	24.5	13.9
Soybean hay (C)	2	_____	.1	-	.3
Mixed legumes & non-legumes (C)	27	_____	2.1	.9	2.2
Legumes for seed (C)	6	_____	.2	.2	.1
Timothy and/or brome hay & seed (D)	12	_____	.7	.5	.6
Misc. hay and seed (D)	3	_____	-	-	.1
Total tillable land in hay	122	_____	19.1	26.1	17.2
Alfalfa and mixtures inc.alf. (A)	51	_____	6.0	7.5	3.6
Sweet clover pasture (B)	4	_____	.5	-	.9
Other legumes and mixtures (C)	19	_____	2.1	5.4	.4
Sudan grass and/or rape (C)	15	_____	.7	.8	.4
Other tillable pasture (D)	46	_____	5.5	4.3	5.3
Total tillable land in pasture	98	_____	14.8	18.0	10.6
Tillable land not croppod (D)	16	_____	.8	.1	.7
Total tillable land	136	_____	209.0	296.0	165.9
Wild or phalaris hay (non-tillable)	45	_____	3.2	5.6	2.1
Non-tillable pasture	89	_____	21.3	35.0	20.9
Roads, waste and timber		_____	8.7	10.7	8.4
Farmstead		_____	8.1	9.0	6.5
Total acres in farm		_____	250.3	356.3	203.8
% land tillable		_____	83.5	83.1	81.4
% tillable land in high return crops		_____	55.6	56.0	52.9

Table 12. Crop Yields per Acre, 1948

Crop	Your farm	Average of 136 farms
Canning peas, value above seed cost, dollars	_____	\$36.22
Soybeans, bu.	_____	20.3
Flax, bu.	_____	15.2
Barley, bu.	_____	39.3
Oats, bu.	_____	53.0
Wheat, bu.	_____	23.6
Eye, bu.	_____	20.9
Corn grain, bu.	_____	63.1
Corn or sorghum silage, tons	_____	10.1
Sweet corn, tons	_____	3.1
Corn or sorghum fodder, tons	_____	2.4
Alfalfa hay, tons	_____	2.1
Soybean hay, tons	_____	1.1
Mixed legume & non-legume hay, tons	_____	1.6
Legume seed, lbs.	_____	115.0
Timothy and/or brome hay, tons	_____	1.2
Other annual hay, tons	_____	2.3
Wild hay, tons	_____	.7

Table 13. Average Price of Feeds, 1948

Item	Value	Item	Value
Ear corn, per bu.	\$1.64	Alfalfa hay, per ton	\$20.00
Oats, per bu.	.83	Red or alsike clov. hay, per ton	17.00
Barley, per bu.	1.59	Soybean hay, per ton	17.00
Wheat, per bu.	2.20	Timothy, per ton	11.60
Soybeans, per bu.	3.08	Wild hay, per ton	10.00
Bran, per cwt.	4.00	Corn fodder, per ton	9.00
Linseed oilmeal, per cwt.	4.55	Corn silage, per ton	5.85
Soybean oilmeal, per cwt.	5.10	Pasture, per mo. per an. unit	1.40
Tankage, per cwt.	6.45	Skim milk, per cwt.	.40

Table 14. Feed Costs For Horses, 1948

Items	Your farm	Average of 83 farms
Feed per horse, lbs.:		
Grain	_____	444
Hay	_____	2367
Fodder & stover	_____	166
Feed Cost per horse:		
Grain	_____	\$12.70
Roughage	_____	17.68
Pasture	_____	7.09
Total feed cost	_____	\$37.47
Number of work horse	_____	2.6
Number of colts	_____	-

Table 15. Power and Machinery Expenses Per Crop Acre, 1948

Items	Your farm	Average of 136 farms	27 most profitable farms	27 least profitable farms
Crop acres per farm	_____	196.6	283.5	156.7
Tractor and horse exp. per crop acre	_____	\$4.64	\$3.98	\$4.76
Crop & gen. mach. exp. per crop acre	_____	4.12	3.84	4.46

TOTAL FEED COSTS AND RETURNS 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 not increases shown on page 5. The value of milk consumed by calves is included in the total returns from dairy or dual purpose cows and in the total feed cost for other dairy or other dual purpose cattle. The value of milk consumed by calves is not included in either the total returns or the feed cost of "all dairy" or "all dual purpose" cattle. The return over feed is not a net return, but rather the amount available from the gross income, after paying the feed bill, to cover the outlay for hired labor, power, equipment, taxes, insurance, interest and veterinary bills and to provide a return for the use of family labor and capital.

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 percent 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, 1948

	Dairy or dual purpose cattle			Beef	Feeder cattle
	Cows	Other	All	breeding herd	
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, 1948

Items	Your farm	Average of 127 farms	25 farms	25 farms
			highest returns above feed	lowest returns above feed
Feed per cwt. hogs produced, lbs.:				
Corn	_____	343	239	482
Small grain	_____	109	113	113
Commercial feeds	_____	42	33	46
Total concentrates	_____	494	385	641
Skim milk and buttermilk	_____	40	37	52
Feed cost per cwt. hogs produced:				
Concentrates	\$ _____	\$15.33	\$11.53	\$20.38
Skim milk and buttermilk	_____	.25	.63	.21
Pasture	_____	.22	.21	.23
TOTAL FEED COSTS	\$ _____	\$15.80	\$12.37	\$20.82
Net increase in val. per cwt. hogs prod.	\$ _____	\$20.87	\$24.03	\$18.37
RETURNS ABOVE FEED COST PER CWT. HOGS PROD.	_____	\$ 5.07	\$11.66	\$-2.45
RETURNS FOR \$100 OF FEED	\$ _____	\$140	\$197	\$90
Price received per cwt. hogs sold	\$ _____	\$23.29	\$25.20	\$21.65
No. of spring litters raised	_____	16.9	16.2	13.4
No. of fall litters raised	_____	4.8	3.1	3.5
Total no. of litters raised	_____	21.7	19.3	16.9
No. of pigs born per litter	_____	8.1	8.0	7.6
No. of pigs weaned per litter	_____	6.6	6.8	6.2
Pounds of hogs produced	_____	38150	35697	27186

Table 18. Factors of Cost and Returns from Dairy and Dual Purpose Cows, 1948

	Your farm	Average of 38 dairy herds	Average of 16 dual purpose herds
Pounds of butterfat per cow	_____	258	172
% fat test of milk	_____	3.7	3.6
Price rec. per lb. B.F. sold (cts.)	_____	92.2	87.5
As manufacturing cream (cts.)	_____	86.3	86.6
Other (cents)	_____	110.4	93.8
Feeds per cow, lbs.:			
Corn	_____	1405	1391
Small grain	_____	839	653
Commercial feeds	_____	282	80
Legume hay	_____	3597	2909
Other hay	_____	843	1021
Fodder and stover	_____	95	37
Total concentrates	_____	2526	2124
Total dry roughage	_____	4535	3967
Silage	_____	4416	4412
Total digestible nutrients*	_____	4958	4390
T.D.N. per lb. B.F.	_____	19.2	25.5
% T.D.N. that is protein	_____	14.6	13.3
Feed cost per cow:			
Concentrates	\$ _____	\$80.06	\$66.49
Roughages	_____	53.15	48.50
Pasture	_____	6.79	7.81
TOTAL FEED COSTS	\$ _____	\$140.00	\$122.80
Value of produce per cow:			
B.F. sales	\$ _____	\$219.13	\$123.38
Dairy produce used in house	_____	13.15	14.62
Milk to livestock	_____	22.37	24.27
Net increases in value of cows	_____	36.60	26.07
TOTAL VALUE PRODUCED	\$ _____	\$291.25	\$188.34
RETURNS ABOVE FEED COST PER COW	\$ _____	\$151.25	\$ 65.54
RETURNS FOR \$100 OF FEED	\$ _____	\$217	\$158
Feed cost per lb. B.F. (cts.)	_____	54.3	71.4
% fall freshening	_____	44	28
Number of cows**	_____	12.0	6.9

\*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 and Dual Purpose Cattle, 1948

Items	Your farm	Average of 38 dairy herds	Average of 14 dual purpose herds*
Feeds per head, lbs.:			
Concentrates	_____	498	591
Hay and fodder	_____	1521	1068
Silage	_____	1588	1005
Skim milk	_____	597	753
Whole milk	_____	382	202
TOTAL FEED COSTS PER HEAD	\$ _____	\$46.23	\$42.94
Net inc. in value of other dairy cattle	\$ _____	\$79.46	\$75.22
RETURNS ABOVE FEED COST PER HEAD	\$ _____	\$33.23	\$32.28
RETURNS FOR \$100 OF FEED	\$ _____	\$199	\$209
Number of head of other dairy cattle	_____	14.1	10.0

Table 20. Feed Costs and Returns from All Dairy and Dual Purpose Cattle, 1948

Items	Your farm	Average of 38 dairy herds	Average of 16 dual purpose herds
Feeds per animal unit, lbs.:			
Concentrates	_____	1980	1781
Hay and fodder	_____	3762	3193
Silage	_____	3880	3674
TOTAL FEED COSTS PER ANIMAL UNIT	\$ _____	\$111.52	\$101.48
Value of produce per animal unit:			
Dairy products	\$ _____	\$149.73	\$100.10
Net incr. in value of dairy cattle	_____	76.90	67.37
TOTAL VALUE PRODUCED	\$ _____	\$226.63	\$167.47
RETURNS ABOVE FEED PER ANIMAL UNIT	\$ _____	\$115.11	\$ 65.99
RETURNS PER \$100 OF FEED	\$ _____	\$214	\$168
Animal units of dairy cattle	_____	19.4	11.5

\*Two farmers having both a dairy and a beef herd, used a beef bull, and included all the young stock in the beef herd.

6 Table 21. Feed Costs and Returns from Beef Cattle, 1948

Items	Your farm	Average of all farms	Farms	Farms
			highest in returns above feed	lowest in returns above feed
Beef breeding herd; No. of farms:		33	11	11
Feeds per animal unit, lbs.:				
Concentrates	_____	1126	1678	876
Legume hay	_____	1737	1555	2303
Other hay	_____	649	460	783
Fodder and stover	_____	128	173	191
Silage	_____	2742	3948	1371
Feed cost per animal unit:				
Concentrates	\$ _____	\$35.52	\$53.96	\$27.46
Roughages	_____	29.14	29.65	32.56
Milk*	_____	.23	.50	.10
Pasture	_____	6.77	6.28	7.29
TOTAL FEED COSTS	_____	\$71.66	\$90.39	\$67.41
Value of produce per animal unit:				
Dairy products	\$ _____	\$20.18	\$31.44	\$ 8.17
Net increase in value of animals	_____	113.90	175.75	75.50
TOTAL VALUE PRODUCED	_____	134.08	207.19	83.67
RETURNS ABOVE FEED COST PER ANIMAL UNIT\$	_____	\$62.42	\$116.80	\$16.26
RETURNS FOR \$100 OF FEED	\$ _____	\$209	\$273	\$126
Number of cows and herd bulls	_____	15.2	13.8	17.1
Number of animal units in the herd	_____	25.7	23.6	27.0
Lbs. beef produced	_____	10943	15235	9165
Feeder cattle: No. of farms		46	12	12
Feeds per cwt. beef produced, lbs.:				
Corn	_____	572	577	527
Small grain	_____	55	44	39
Commercial feeds	_____	52	53	43
Legume hay	_____	182	176	162
Other hay	_____	97	101	87
Fodder and stover	_____	24	-	3
Total concentrates	_____	679	674	609
Total hay and fodder	_____	303	277	252
Silage	_____	470	576	497
Feed cost per cwt. beef produced:				
Concentrates	\$ _____	\$22.08	\$23.33	\$19.70
Roughages	_____	3.74	3.84	3.43
Pasture	_____	.52	.57	.51
TOTAL FEED COSTS	_____	\$26.34	\$27.74	\$23.64
Net increase in value of feeders	_____	36.83	51.56	23.72
RETURNS ABOVE FEED COST PER CWT. BEEF PROD.	\$ _____	\$10.49	\$23.82	\$ .08
RETURNS FOR \$100 OF FEED	\$ _____	\$144	\$194	\$103
Price recd. per cwt. beef sold	\$ _____	\$29.12	\$30.75	\$26.16
Price pd. for feeder cattle bot.	_____	26.35	27.88	27.04
No. of animal units	_____	31.5	28.1	34.6
Pounds of beef produced	_____	20898	14941	31424

\*Some farmers had both dairy cows and beef cows and fed milk produced by the milking herd to beef calves.

Table 22. Feed Costs and Returns from Chickens, 1948

Items	Your farm	Average of 120 farms	24 farms highest in return above feed	24 farms lowest in return above feed
Feed per hen, lbs.:				
Grain	_____	95	100	104
Commercial feeds	_____	41	39	42
Total concentrates	_____	136	139	146
Skim milk and buttermilk	_____	4	4	1
TOTAL FEED COST PER HEN	\$ _____	\$4.99	\$5.01	\$5.44
Value of produce per hen:				
Eggs sold and used in house	_____	\$5.68	\$6.99	\$4.27
Net increase in value of chickens	_____	1.26	2.50	.52
TOTAL VALUE PRODUCED	\$ _____	\$6.94	\$9.49	\$4.79
RETURNS ABOVE FEED COST PER HEN	\$ _____	\$1.95	\$4.48	-\$ .65
RETURNS FOR \$100 OF FEED	\$ _____	\$146	\$199	\$ 86
Price rec'd. per doz. eggs sold (cts.)	_____	40.2	40.5	39.7
Eggs laid per hen	_____	170	210	131
Ave. no. of hens on farm during the year	_____	226	222	224
% of hens that are pullets	_____	80	93	79
% death loss of hens	_____	11	6	14
Number of chicks put on feed	_____	398	415	376
Price paid per 100 chicks bot.	_____	\$28.33	\$24.99	\$32.29
Lbs. chickens produced	_____	1338	1972	1031

Table 23. Feed Costs and Returns from a Farm Flock of Sheep, 1948

Items	Your farm	Average of 33 farms	11 farms highest in returns above feed	11 farms lowest in returns above feed
Feeds per head, *lbs.				
Concentrates	_____	101	95	118
Legume hay	_____	219	229	320
Other hay	_____	74	32	106
Fodder and stover	_____	7	-	19
Silage	_____	76	69	49
Feed cost per head:				
Concentrates	\$ _____	\$3.10	\$2.89	\$3.56
Roughages	_____	2.68	2.65	3.62
Pasture	_____	1.17	1.17	1.18
TOTAL FEED COSTS	\$ _____	\$6.95	\$6.71	\$8.36
Value of produce per head:				
Wool	\$ _____	\$3.07	\$3.39	\$2.92
Net increase in value of sheep	_____	13.78	21.56	7.94
TOTAL VALUE PRODUCED	\$ _____	\$16.85	\$24.95	\$10.86
RETURNS ABOVE FEED COST PER HEAD	\$ _____	\$9.90	\$18.24	\$2.50
RETURNS FOR \$100 OF FEED	\$ _____	\$339	\$578	\$144
Price per cwt. of lambs sold	\$ _____	\$23.17	\$24.84	\$22.26
Price per lb. wool sold (cts.)	_____	42.2	43.5	42.8
Pounds of wool per sheep sheared	_____	8.7	8.9	8.6
Number of ewes kept for lambing	_____	32	24	37
% lamb crop**	_____	111	120	106
% death loss**	_____	11.0	10.0	13.0
Pounds of sheep produced	_____	2219	2399	1747
No. of head of sheep*	_____	43.3	29.3	51.9

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

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

Table 24. Feed Costs and Returns from Feeder Sheep, 1948

Items	Your farm	Average of 5 farms
Feeds per cwt., sheep produced, lbs.:		
Concentrates	_____	942
Legume hay	_____	180
Other Hay	_____	15
Fodder and stover	_____	23
Silage	_____	129
Feed cost per cwt.:		
Concentrates	\$ _____	\$31.83
Roughages	_____	2.38
Pasture	_____	.68
TOTAL FEED COSTS	\$ _____	\$34.89
Net increase in value of sheep	\$ _____	16.70
RETURNS ABOVE FEED COST PER CWT. PROD.	\$ _____	-\$18.19
RETURNS FOR \$100 OF FEED	\$ _____	\$27
Price per cwt. sheep sold	\$ _____	\$20.23
Price per cwt. for sheep bot.	\$ _____	\$23.33
Pounds of sheep produced	_____	2831

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 25.

Table 25. 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 26. Summary of Farm Earnings by Years

Items	1940	1941	1942	1943	1944	1945	1946	1947	1948
No. of farms	165	166	165	164	163	153	142	137	136
Total farm capital	\$32724	\$36613	\$37728	\$37602	\$36000	\$35876	\$36810	\$39671	\$44143
Monthly charge for unpd. family lab.*	45	50	60	75	85	90	110	130	130
Mo. charge for board to hired lab.*	18	20	25	25	25	25	30	36	36
<b>FARM EXPENSES</b>									
Dairy and dual-pur. cattle bot.	\$ 76	\$ 138	\$ 141	\$ 135	\$ 112	\$ 118	\$ 237	\$ 135	\$ 170
Beef cattle bot. (incl. feeders)	1243	1766	1718	1187	1109	1390	1754	1916	2341
Hogs bot.	103	209	339	408	315	377	382	646	389
Sheep bot. (incl. feeders)	414	686	866	694	321	600	464	301	97
Poultry bot. (incl. turkeys)	99	96	138	165	200	195	164	156	133
Horses bot.	32	32	49	33	43	15	14	14	11
Misc. livestock expense	72	109	148	199	173	194	198	270	273
Misc. crop expenses	243	303	377	507	582	575	750	1055	1112
Feed bought	1007	1718	2235	3080	2164	2416	2669	4014	3926
Custom work hired	150	140	199	215	261	292	300	394	421
Power mach. (new)	379	446	256	180	337	200	449	847	1173
Power mach. (upkeep)	411	497	533	617	699	817	963	1116	1277
Crop and gen. mach. (new)	319	416	387	221	332	414	601	897	1328
Crop and gen. mach. (upkeep)	69	84	135	157	174	195	258	290	368
Livestock equipment (new)	74	123	134	138	91	78	97	122	108
Livestock equipment (upkeep)	20	32	57	87	78	94	92	114	131
Buildings and fencing (new)	412	434	327	236	297	370	409	754	941
Buildings and fencing (upkeep)	88	141	156	168	192	219	268	311	413
Hired labor	392	561	622	739	651	636	723	796	944
Taxes	313	337	355	335	311	311	367	378	459
Insurance	15	32	35	40	41	41	49	61	71
General farm	59	55	60	72	80	84	108	112	140
Total farm purchases	5990	8355	9267	9613	8563	9631	11316	14699	16226
Decrease in farm capital	-	-	-	-	412	-	-	-	-
Interest on farm capital	1635	1831	1886	1880	1800	1794	1841	1984	2207
Unpaid family labor	252	288	360	335	316	322	363	422	421
Board furnished hired labor	131	171	143	147	118	83	105	116	127
Total farm exp.	\$8008	\$10645	\$11656	\$11975	\$11209	\$11830	\$13625	\$17221	\$18981

\*These adjustments should be considered in comparing 1948 results with previous years.



Table 26. Summary of Farm Earnings by years (continued)

Items	1940	1941	1942	1943	1944	1945	1946	1947	1948
<b>FARM RECEIPTS</b>									
Dairy and dual-purpose cattle	\$ 265	\$ 392	\$ 446	\$ 419	\$ 392	\$ 473	\$ 515	\$ 628	\$ 616
Dairy products	570	758	804	916	865	906	1063	1031	1046
Beef cattle (incl. feeders)	2373	3399	3860	3590	2478	3777	3711	4248	4508
Hogs	1162	2306	4336	5630	4671	4484	6166	8662	8207
Sheep and wool (incl. feeders)	470	1032	1402	968	768	926	834	766	421
Poultry (including turkeys)	372	396	598	622	829	659	620	444	418
Eggs	244	334	589	905	911	977	993	1043	1108
Horses	42	41	47	45	47	27	24	28	25
Corn	516	477	625	724	578	587	814	1183	1498
Small grain	849	1133	1120	1382	669	949	1446	2436	3818
Other crops	239	283	366	510	600	673	878	911	1160
Machinery and equipment sold	249	278	133	137	185	251	363	383	355
Agri. adjustment payment	506	503	503	264	74	51	121	61	65
Income from work off the farm	193	196	163	137	183	295	343	344	306
Miscellaneous	394	176	166	185	197	48	67	83	124
Total farm sales	\$2444	\$11704	\$15158	\$16434	\$13447	\$15083	\$17978	\$22311	\$23675
Increase in farm capital	1179	2618	2102	2	-	314	3223	5634	1542
Family living from farm	483	538	584	588	572	635	679	667	702
Tot. farm rec.	\$10106	\$14860	\$17844	\$17024	\$14019	\$16032	\$21880	\$28612	\$25919
Total farm expenses	8008	10645	11656	11975	11209	11830	13625	17221	18981
Oper. lab. earn.	2098	4215	6188	5049	2810	4202	8255	11391	6938
<b>MEAS. OF FARM ORG. AND MANAGEMENT EFFICIENCY</b>									
% high return crops*	35.9	36.5	38.9	40.3	54.2	55.7	55.4	56.9	55.7
Prod. livestock units per 100 A.	22.1	24.7	24.7	25.1	21.4	22.1	20.7	20.1	19.5
Work units	569	631	624	586	530	535	514	483	489
Work units per worker	263	264	281	279	279	297	286	284	272
Expenses per work unit	\$2.17	\$2.30	\$2.90	\$3.52	\$4.20	\$4.52	\$5.08	\$6.39	\$7.41
<b>ACRES PER FARM</b>									
Crop acres per farm	279	295	291	280	268	268	260	243	250
<b>CROP YIELDS PER ACRE</b>									
Flax, bu.	13.7	12.0	11.5	9.5	6.0	13.8	13.3	13.4	15.2
Barley, bu.	42.3	29.6	24.0	10.7	18.8	44.3	33.4	28.9	39.3
Oats, bu.	60.1	26.4	44.8	34.3	36.3	51.8	42.1	42.0	53.0
Corn, grain, bu.	46.2	55.9	57.4	39.6	49.6	33.5	53.1	40.4	63.1
Corn silage, tons	8.5	9.5	10.3	8.5	7.5	7.1	8.9	6.9	10.1
Alfalfa hay, tons	2.0	2.0	2.5	2.3	2.0	2.1	2.1	2.2	2.1

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

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Table 27. Summary of Miscellaneous Items by Years

Items	1940	1941	1942	1943	1944	1945	1946	1947	1948
<u>RETURN ABOVE FEED COST PER:</u>									
Dairy cow	\$43.03	\$56.89	\$70.13	\$69.86	\$69.45	\$92.30	\$121.08	\$104.00	\$151.25
Dual-purpose cow	26.49	39.13	54.28	41.21	46.01	61.28	94.26	58.91	65.54
Animal unit in beef breeding herd	18.20	25.06	35.53	18.54	12.20	24.00	42.12	53.27	62.42
100 lbs. feeder cattle produced	2.92	3.99	3.64	1.43	3.56	7.38	8.59	9.10	10.49
Head of sheep in farm flock	3.27	5.96	5.61	3.37	3.00	4.86	10.97	6.71	9.90
100 lbs. feeder sheep produced	2.13	8.01	6.67	4.24	10.85	9.44	18.02	-3.14	-18.19
100 lbs. hogs produced	1.23	5.15	7.61	2.93	3.31	5.23	7.68	9.09	5.07
Hen	.96	1.35	2.07	2.48	1.71	2.63	2.27	1.47	1.95
100 lbs. turkeys produced	5.74	9.63	14.09	12.31	10.27	12.17	16.13	-	-
<u>FEED COST PER:</u>									
Dairy cow	\$46.50	\$53.11	\$62.99	\$88.03	\$88.04	\$92.68	\$103.69	\$148.42	\$140.00
Dual-purpose cow	34.85	44.19	48.55	70.09	68.02	78.02	87.82	121.01	122.80
Animal unit in beef breeding herd	29.86	33.57	34.55	46.58	49.92	52.84	58.59	89.20	71.66
100 lbs. of feeder cattle produced	8.00	9.21	13.27	17.25	15.06	15.62	18.03	29.24	26.34
Head of sheep in farm flock	2.60	2.76	3.01	4.14	3.78	4.33	4.74	6.81	6.95
100 lbs. feeder sheep produced	7.16	8.38	14.23	13.85	12.98	15.15	19.30	38.18	34.89
100 lbs. hogs produced	4.29	5.55	6.76	9.89	10.32	9.04	11.95	16.64	15.80
Hen	1.11	1.50	2.15	3.17	3.46	3.53	3.95	4.99	4.99
100 lbs. turkeys produced	7.27	8.26	11.40	14.96	14.88	14.89	15.80	-	-
Horse	29.74	31.80	37.06	47.87	40.58	32.10	32.83	43.08	37.47
<u>MISC. LIVESTOCK INFORMATION</u>									
No. of work horses	4.1	4.2	4.0	3.7	3.3	3.1	2.6	2.0	1.6
No. of cclts	1.0	1.0	.7	.7	.6	.3	.2	.1	-
No. of dairy or dual-purpose cows	8.6	9.1	8.6	7.6	6.6	6.1	5.7	5.2	4.8
Head in beef breeding herd	9.0	9.4	9.9	10.7	13.5	10.8	10.7	8.0	9.0
Lbs. feeder cattle produced	8678	14087	10119	8483	5315	7695	6083	5717	7117
Litters of pigs	13.6	16.9	20.1	25.4	16.7	19.4	18.1	19.5	20.2
Lbs. of hogs produced	21335	27550	34522	39596	29054	33994	34524	34163	35651
No. of hens	161	173	196	223	230	215	210	200	200
Lbs. of butterfat per dairy cow	250	254	250	251	226	242	244	259	258
Lbs. of butterfat per dual-pur. cow	179	190	190	182	172	182	191	185	172
No. of pigs weaned per litter	6.2	6.4	6.3	6.0	5.9	6.2	6.4	6.1	6.6
% lamb crop	110	110	109	105	94	99	108	110	111
Eggs per hen	113	117	135	146	157	163	174	170	170

Table 27. Summary of Miscellaneous Items by Years (continued)

ITEMS	1940	1941	1942	1943	1944	1945	1946	1947	1948
<u>PRICE RECEIVED PER:</u>									
Lb. B.F. sold to creameries	\$ .31	\$ .37	\$ .42	\$ .53	\$ .58	\$ .62	\$ .76	\$ .76	\$ .86
100 lbs. feeder cattle	8.81	10.13	12.22	13.68	13.83	14.95	16.54	23.45	29.12
100 lbs. feeder sheep	8.74	10.08	12.47	14.52	15.32	15.91	18.44	24.76	20.23
Pound of wool	.29	.38	.41	.41	.41	.42	.43	.37	.42
100 lbs. of hogs	5.15	9.07	13.13	13.80	13.12	14.27	17.17	24.66	23.29
Dozen eggs	.15	.21	.28	.35	.31	.35	.34	.38	.40
Pound of turkeys	.14	.18	.29	.32	.34	.32	.37	-	-
<u>PRICE OF FEED</u>									
Shelled corn, bu.	\$ .47	\$ .54	\$ .68	\$ .91	\$ .92	\$ .86	\$1.14	\$1.54	\$1.64
Oats, bu.	.26	.32	.41	.60	.70	.64	.70	.90	.88
Barley, bu.	.31	.39	.52	.77	.92	.94	1.22	1.80	1.59
Alfalfa hay, ton	7.50	8.50	8.00	11.00	15.00	15.00	16.00	22.00	20.00
Timothy hay, ton	4.80	5.45	5.15	6.75	9.00	9.00	9.60	12.50	11.60
Corn silage, ton	2.10	2.55	2.75	3.62	5.00	5.00	5.50	8.00	5.85
Bran, cwt.	1.20	1.50	2.10	2.10	2.20	2.18	2.70	3.20	4.00
Linseed oilmeal, cwt.	1.75	2.00	2.40	2.55	2.85	2.88	3.30	4.25	4.55
Tankage, cwt.	2.50	3.20	4.10	4.00	4.18	4.10	5.10	6.75	6.45
Soybean meal, cwt.	1.70	2.10	2.75	2.80	3.15	3.00	3.80	4.80	5.10