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UNIVERSITY OF MINNESOTA
Department of Agriculture
and
UNITED STATES DEPARTMENT OF AGRICULTURE
Bureau of Agricultural Economics
and the
County Extension Services of
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
1947

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Cooperator: _____

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Eighth Annual Report of the Southwest Minnesota Farm Management Service
of Cottonwood, Faribault, Jackson, Martin, Murray, Nobles, Redwood,
Rock, and Watonwan Counties for the Year 1947

Prepared by T. R. Nodland, G. A. Pond, and Andrew Vanvig

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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. J. R. Burkholder was the field agent for this project until September 1 and was followed

by D. W. Johnson. At the end of the year, R. R. Beneke, J. A. Shute and Andrew Vanvig 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, Winfield Forsberg, A. B. Hagen, Ross Huntsinger, J. I. Swedberg, George Golla, Howard Newell and Henry R. Fox.

The officers for the Southwest Farm Management Association for 1947 were:

President; Chas. Winzer, Herch Lake, Jackson County
Vice-President; Tom Hicks, Tracy, Redwood 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; John Talley, Martin County; Ted Drackley, Murray County; Earl Newburn, Orville Saxen and Don Mitchell, Nobles County; Will N. Nelson, 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 1947.

Cottonwood	9	Martin	8	Redwood	23
Faribault	17	Murray	15	Rock	8
Jackson	18	Nobles	43	Watonwan	7
				Total	143

In the tables on page 6 and succeeding pages are shown data for 137 farms. Eleven farms were omitted from all of the averages in the tables because 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

	Worthington		Fairmont		Windom		Redwood Falls	
	Departure from		Departure from		Departure from		Departure from	
	Precipitation	normal	Precipitation	normal	Precipitation	normal	Precipitation	normal
	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches
January	1.89	+1.26	1.79	+ .99	0.51	- .13	0.79	- .15
February	0.34	- .43	0.87	- .10	0.40	- .34	0.36	- .58
March	0.37	- .89	0.36	-1.05	0.15	- .99	0.42	- .68
April	4.80	+2.72	4.45	+2.22	3.40	+1.51	4.01	+1.76
May	1.80	-2.14	1.97	-1.95	1.60	-2.09	1.96	-1.46
June	6.03	+1.74	6.43	+2.29	6.35	+2.42	6.99	+2.50
July	0.30	-3.09	0.97	-2.59	2.08	-1.39	1.53	-1.51
August	2.39	-1.37	3.60	+ .05	3.80	+ .20	3.53	+0.55
September	1.32	-2.09	2.88	- .44	2.59	- .40	1.25	-1.61
October	3.16	+1.47	3.69	+1.84	2.06	+ .43	1.52	-0.15
November	2.75	+1.58	2.52	+1.13	1.65	+ .53	2.41	+1.20
December	0.74	+0.03	0.96	+ .06	0.44	- .21	0.40	-0.50
1947 Total	25.89	-1.21	30.49	+2.45	25.03	-0.46	25.17	- .63
1946 Total	27.62	+0.52	37.80	+9.76	29.18	+3.70	24.47	-1.33
Normal								
An. Prec.	27.10		28.04		25.49			

Table 2. Summary of Farm Inventories, 1947*

Items	Your farm		Average of 137 farms	
	Jan. 1	Dec. 31	Jan. 1	Dec. 31
Size of farm (acres)			243	
Size of business (work units)**			483	
Dairy and dual purpose cows			\$ 568	\$ 578
Other dairy & dual purpose cattle			404	366
Beef cattle (incl. feeders)			2433	3015
Hogs			3157	3890
Sheep (including feeders)			525	330
Poultry (including turkeys)			261	246
Productive livestock (total)			7348	8425
Horses			127	97
Crop, seed and feed			4748	7993
Power Mach. (farm share)			1194	1637
Crop & general mach. (farm share)			1734	2233
Livestock equipment & supplies			515	532
Mach. & equipment (total)			3443	4402
Buildings, fences, etc.			7191	7574
Land			13997	13997
Total farm capital			36854	42488

Items	27 most profitable		27 least profitable	
	Jan. 1	Dec. 31	Jan. 1	Dec. 31
Size of farm (acres)	361		165	
Size of business (work units)**	690		352	
Dairy and dual purpose cows	\$ 657	\$ 747	\$ 521	\$ 459
Other dairy & dual purpose cattle	456	347	352	337
Beef cattle (incl. feeders)	5018	5155	715	911
Hogs	5799	6887	1428	2267
Sheep (including feeders)	773	222	201	475
Poultry (including turkeys)	221	219	245	210
Productive livestock (total)	12924	13577	3462	4659
Horses	181	147	62	66
Crop, seed, and feed	8445	14548	2299	3312
Power mach. (farm share)	1531	1947	1052	1429
Crop & general mach.	2507	3071	1372	1659
Livestock equipment & supplies	652	670	447	518
Mach. & equipment (total)	4690	5688	2871	3606
Buildings, fences, etc.	7986	8879	5747	5770
Land	18574	18574	11512	11512
Total farm capital	52800	61413	25953	28925

*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), 1947

Items	Your farm	Average of 137 farms	27 most profitable farms	27 least profitable farms
FARM RECEIPTS				
Dairy and dual-purpose ccws		\$ 294	\$ 291	\$ 263
Dairy products		1031	925	737
Other dairy & dual-purpose cattle		394	489	354
Beef cattle (including feeders)		4248	9838	1116
Hogs		8662	15441	3808
Sheep and wool (including feeders)		766	971	304
Poultry (including turkeys)		444	273	563
Eggs		1043	937	954
Horses		28	34	11
Corn		1183	1460	784
Small grain		2436	4447	1195
Other crops		911	1305	573
Machinery & equip. sold		383	435	150
Agricultural adjustment payments		61	91	47
Income from work off the farm		344	372	449
Miscellaneous		83	131	66
(1) Total farm sales		\$22311	\$37440	\$11374
(2) Increase in farm capital		5634	8613	2972
(3) Family living from the farm		667	727	619
(4) Total farm receipts (1)+(2)+(3)		\$28612	\$46780	\$14965

FARM EXPENSES

Dairy and dual-purpose ccws bought	\$	\$ 81	\$ 60	\$ 96
Other dairy and dual-pur. cattle bct.		54	45	70
Beef cattle bct. (incl. feeders)		1916	3480	515
Hogs bought		646	561	303
Sheep bought (incl. feeders)		301	129	375
Poultry bought (including turkeys)		156	98	160
Horses bought		14	16	18
Misc. livestock expense		270	425	164
Misc. crop expenses		1055	1719	710
Feed bought		4014	5886	2201
Custom work hired		394	521	268
Mech. power mach. (farm share) (new)		847	925	630
Mech. power mach. (farm share) (upkp.)		363	464	313
Mech. power (f. share) (gas, oil, etc.)		753	1009	574
Crop and general mach. (new)		897	1067	549
Crop and general mach. (upkeep)		290	407	215
Livestock equipment (new)		122	149	182
Livestock equipment (upkeep)		114	181	86
Buildings and fencing (new)		754	1341	287
Buildings and fencing (upkeep)		311	444	144
Hired labor		796	1853	345
Taxes		378	569	264
General farm and insurance		173	215	125
(5) Total farm purchases		\$14699	\$21564	\$8594
(6) Decrease in farm capital		-	-	-
(7) Interest on farm capital		1984	2855	1372
(8) Unpaid family labor		422	421	355
(9) Board furnished hired labor		116	152	69
(10) Total farm exp. (sum of (5) to (9))		\$17221	\$24992	\$10390
(11) Oper. labor earnings (4) - (10)		\$11391	\$21788	\$4575

Table 4. Summary of Farm Earnings (Enterprise Statement) 1947*

Items	Your farm	Average of 137 farms	27 most profitable farms	27 least profitable farms
<u>RETURNS AND NET INCREASES</u>				
Dairy and dual purpose cows		\$1263	\$1318	\$ 903
Other dairy & dual pur. cattle		463	555	383
Beef breeding herd		740	778	469
Feeder cattle		2305	5813	445
Hogs		8864	16115	4402
Sheep - farm flock		112	54	170
Sheep - feeders		149	237	38
Turkeys		96	-	207
Chickens		1317	1198	1231
All productive livestock		15309	26068	8248
Crops, seed, and feed		2765	5775	689
Agricultural conservation payments		61	91	47
Income from labor off the farm		175	239	207
Miscellaneous		197	256	194
(1) Total returns & net increased		18507	32429	9385
<u>EXPENSES AND NET DECREASES</u>				
Horses	\$	\$ 105	\$ 174	\$ 39
Tractor		636	923	481
Truck		150	257	72
Auto (farm share)		328	340	343
Elec. and gas engine exp.(f.share)		79	96	63
Hired power		168	206	115
Total power		1466	1996	1113
Crop and general machinery		637	926	439
Livestock equipment		204	304	173
Buildings, fencing, and tiling		597	819	344
Misc. productive livestock expense		269	425	164
Labor		1408	2532	816
Real estate taxes		311	462	220
Personal property tax		67	107	44
Insurance		61	66	45
General farm		112	149	80
Interest on farm capital		1984	2855	1372
(2) Total expenses & net decreases		7116	10641	4810
(3) Oper. labor earnings (1) - (2)		11391	21788	4575

* 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, 1947 (Operator's Share)

	Your farm		32 Owners	
	Jan. 1	Dec. 31	Jan. 1	Dec. 31
Total acres in farm			220.9	
Owned			220.9	
Rented				
Total farm capital			\$37072	\$43773
Accounts receivable			789	996
Stocks and bonds			3095	3032
Life insurance			839	1018
Outside real estate			1861	1258
Other outside investments			136	172
Total outside investments			5931	5480
Cash on hand and in bank			1054	1850
Other household & personal assets			1190	1486
Total cash, household & personal assets			2244	3336
TOTAL ASSETS			46036	53585
Federal Land Bank Mortgage			1755	1476
Other mortg. on land operated			5763	4877
Mortgages on other real estate				
Production Credit Association			840	1249
Other chattel mortgages			334	737
Notes payable			1534	1395
Accounts payable			123	192
TOTAL LIABILITIES			10349	9926
Farmer's net worth			35687	43659
Gain in net worth				+7972

	18 Part owners*		26 renters**	
	Jan. 1	Dec. 31	Jan. 1	Dec. 31
Total acres in farm	316.0		229.7	
Owned	209.7			
Rented	106.3		229.7	
Total farm capital	\$37006	\$42327	\$10888	\$15623
Accounts receivable	887	1018	111	44
Stocks and bonds	5326	6709	1043	1646
Life insurance	1266	1425	245	295
Outside real estate	217	1063	17	59
Other outside investments	206	243	110	174
Total outside investments	7015	9445	1415	2174
Cash on hand and in bank	2981	2672	949	1179
Other household and personal assets	1382	1860	1575	1768
Total cash, household & personal assets	4363	4532	2524	2947
TOTAL ASSETS	49271	57322	14938	20788
Federal Land Bank Mortgage	1260	964		
Other mortg. on land operated	1772	1378		
Mortgages on other real estate	44			
Production Credit Association	68	438	928	1889
Other chattel mortgages	111	456	869	827
Notes payable	1094	1614	785	1081
Accounts payable	221	129	139	336
TOTAL LIABILITIES	4570	4979	2721	4133
Farmer's net worth	44701	52343	12217	16655
Gain in net worth		+7642		+4438

* 9 rented for cash, 5 cash and crop share, 3 crop share and 1 livestock share.

**3 rented for cash, 16 cash and crop share, 2 crop share and 5 livestock share.

Table 6. Summary of Farm Earnings by Tenure, 1947 (Operator's Share)

	Your farm	32 owners	18 part owners	26 renters
FARM RECEIPTS				
Dairy and dual-purpose cows		\$ 366	\$ 179	\$ 213
Dairy products		1227	590	650
Other dairy and dual-purpose cattle		333	439	242
Beef cattle (including feeders)		3760	7255	2732
Hogs		11255	7993	6448
Sheep and wool (including feeders)		987	1712	432
Poultry (including turkeys)		488	765	349
Eggs		1140	972	890
Horses		27	4	58
Corn		793	797	725
Small grain		2023	3857	1302
Other crops		980	960	485
Machinery & equip. sold		429	379	528
Agricultural adjustment payments		78	74	45
Income from work off the farm		381	234	363
Misc.		160	109	27
(1) Total farm sales		24427	26319	15494
(2) Increase in farm capital		6701	5321	4735
(3) Family living from the farm		698	651	617
(4) Total farm receipts (1)+(2)+(3)		31826	32291	20846
FARM EXPENSES				
Dairy and dual-purpose cows bought		\$ 127	\$ 20	\$ 69
Other dairy & dual-pur. cattle bought		54	34	59
Beef cattle bot. (incl. feeders)		2561	1865	2198
Hogs bought		957	564	502
Sheep bought (including feeders)		73	418	275
Poultry bought (including turkeys)		174	212	186
Horses bought		8	6	32
Misc. livestock expenses		355	253	206
Misc. crop expenses		1078	1415	827
Feed bought		5261	4694	3297
Custom work hired		420	318	319
Mech. power mach. (farm share)(new)		814	1158	1056
Mech. power mach. (farm share)(upkp.)		435	359	281
Mech. power (f. share)(gas, oil, etc.)		800	924	652
Crop and general mach. (new)		1020	877	932
Crop and general mach. (upkeep)		327	333	296
Livestock equipment (new)		103	115	198
Livestock equipment (upkeep)		123	92	111
Land, buildings and fencing (new)		1621	1462	17
Buildings and fencing (upkeep)		450	398	108
Hired labor		1014	1041	476
Taxes (real estate & pers. property)		362	315	45
General farm and insurance		206	191	124
Cash rent		-	441	542
Interest paid		397	212	126
(5) Total farm purchases		13740	17717	12934
(6) Decrease in farm capital		-	-	-
(7) Interest on farm capital		1624	1771	537
(8) Unpaid family labor		330	437	169
(9) Board furnished hired labor		192	116	101
(10) Total farm exp. (sum of (5) to (9))		20886	20041	13741
(11) Operator's labor earnings (4)-(10)		10940	12250	7105
(12) Ret. cap. & fam. lab. (7)+(8)+(11)		12894	14458	7811

Table 7. Household and Personal Expenses and Receipts for
Those Farms Which Kept Complete Accounts of These Expenses, 1947

Items	Your farm	Average of 65 farms	13 most profit- able farms	13 least profit- able farms
Number of persons in family		4.0	4.6	4.2
Number of adult equivalents in family		3.1	3.7	2.9
Number of other adult equivalents*		.3	.3	.2
EXPENSES				
Food and meals bought	\$	\$644	\$737	\$552
Operating and supplies		275	239	203
Clothing and clothing materials		343	444	253
Personal care, personal spending		93	112	63
Furnishings and equipment		383	422	386
Education, recreation and development		140	262	103
Medical care and health insurance		242	231	181
Church, welfare, gifts		313	490	168
Personal share of auto expense		114	142	79
Household share of elect. & gas, eg. exp.		39	46	25
H.H. & pers. shr. of new auto, gas, eg. & mct. bet.		66	120	19
Total		\$2662	\$3245	\$2037
State and federal income tax		802	2098	126
Insurance		243	312	126
Total household and pers. cash exp.		3707	5655	2289
Food furnished by the farm		466	583	440
Fuel furnished by the farm		5	9	-
House rental		200	210	197
Total cash expenses and perquisites		4378	6457	2926
Investments		343	929	204
RECEIPTS				
Sale of investments		\$ 57	\$203	\$ 29
Income from outside investments		385	1330	359
Misc. income		249	18	677

* Hired help or others boarded.

Table 8. Family Living from the Farm, 1947

Items	Your farm	27 most		27 least		27 most		27 least	
		Average 137 farms	profit-able farms	profit-able farms	Your farm	Average 137 farms	profit-able farms	profit-able farms	
No. of (fam. adult equiv. (oth.*		3.1 .3	3.6 .4	3.2 .2					
Whole milk		986 qts.	1024	1096		\$ 75.19	\$ 79.41	\$ 83.84	
Skim milk		148 qts.	152	86		1.35	1.21	2.47	
Cream		124 pts.	118	102		31.52	29.43	26.45	
Farm made butter		6 lbs.	-	6		4.58	-	4.53	
Cattle		418 lbs.	549	356		80.63	114.47	56.59	
Hogs		493 lbs.	613	402		121.70	146.66	99.14	
Sheep		3 lbs.	-	-		.57	-	-	
Poultry		100 lbs.	111	94		21.96	21.99	19.37	
Eggs		159 doz.	184	146		57.47	65.23	53.14	
Potatoes		12 bus.	9	27		11.82	15.20	8.57	
Vegetables and fruits						54.73	50.27	71.67	
Farm fuel						5.13	5.00	3.33	
Rental vl. of house						200.72	198.59	190.35	
Total						667.37	727.46	619.45	

*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	8		xxxxxxxxxxxxxxxx	\$ 6484
1	9		xxxxxxxxxxxxxxxx	7200
2	28		xxxxxxxxxxxxxxxx	8765
3 or 4	49		xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	11965
5	22		xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	13641
6	16		xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	13741
7	5		xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	18447

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

Table 10. Measures of Farm Organization and Management Efficiency, 1947

Measures used in chart on page 11	Your farm	Average of 137 farms	27 most profit- able farms	27 least profit- able farms
Operator's labor earnings	\$ _____	\$11391	\$21788	\$4575
(1) Crop yields*	_____	100	106	94
(2) % of tillable land in high ret. crops**	_____	56.9	56.5	56.4
(3) Ret. for \$100 feed to prod. livestock***	_____	100	110	90
(4) Prod. livestock units per 100 acres****	_____	20.1	21.8	18.0
(5) Size of business - work units	_____	483	690	352
(6) Work units per worker	_____	284	288	251
(7) Pow., mach., equip., & bldg. exp. per work unit	\$ _____	\$6.39	\$5.93	\$6.33
Items related to some of the above measures:				
(3) Index of return for \$100 feed from -				
Dairy cattle (See pages 16 & 17)	_____	100	92	94
Dual-purpose cattle (See pp. 18 & 19)	_____	100	89	97
Beef cattle - breeding herd (See p. 20)	_____	100	92	104
Beef cattle - feeders (See page 20)	_____	100	120	66
Hogs (See page 15)	_____	100	109	93
Sheep - farm flock (See page 21)	_____	100	135	83
Sheep - feeders (See page 22)	_____	100	153	58
Turkeys	_____	100	-	-
Chickens (See page 23)	_____	100	108	91
(4) Number of animal units	_____	42.9	64.7	27.4
(5) Work units on crops	_____	170	249	116
Work units on productive livestock	_____	284	401	202
Other work units	_____	29	40	34
(6) Number of family workers	_____	1.2	1.3	1.2
Number of hired workers	_____	.5	1.1	.2
Total number of workers	_____	1.7	2.4	1.4
(7) Power expense per work unit	\$ _____	\$3.21	\$2.93	\$3.39
Crop machinery expense per work unit	_____	1.41	1.39	1.36
Livestock equip. expense per work unit	_____	.43	.44	.54
Bldgs. & fencing exp. per work unit	_____	1.34	1.17	1.04

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

Oper. labor earn- ings	Crop yields	High return crops	Return from pro- ductive livestock	Fr. L.S. units per 100 A.	Work units	Work units per worker	Pow., mach., eq., & bldgs. exp. per work unit
\$22600	140	81.0	140	40.0	805	445	\$2.40
21200	135	78.0	135	37.5	765	425	2.90
19800	130	75.0	130	35.0	725	405	3.40
18400	125	72.0	125	32.5	685	385	3.90
17000	120	69.0	120	30.0	645	365	4.40
15600	115	66.0	115	27.5	605	345	4.90
14200	110	63.0	110	25.0	565	325	5.40
12800	105	60.0	105	22.5	525	305	5.90
11400	100	57.0	100	20.0	485	285	6.40
10000	95	54.0	95	17.5	445	265	6.90
8600	90	51.0	90	15.0	405	245	7.40
7200	85	48.0	85	12.5	365	225	7.90
5800	80	45.0	80	10.0	325	205	8.40
4400	75	42.0	75	7.5	285	185	8.90
3000	70	39.0	70	5.0	245	165	9.40
1600	65	36.0	65	2.5	205	145	9.90

Table 11. Distribution of Acres in Farm, 1947

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 137 farms	27 most profitable farms	27 least profitable farms	Average per farm growing crop
Canning peas (A)	5	_____	6	-	1.0	17.6
Soybeans (B)	90	_____	17.2	23.9	16.3	26.2
Flax (C)	97	_____	25.2	38.3	13.9	35.5
Barley (D)	33	_____	5.8	10.5	2.3	24.1
Oats and barley (D)	3	_____	.3	-	.8	13.9
Oats (C)	127	_____	33.7	49.4	23.0	36.3
Wheat, Rye, millet and buckwheat (D)	11	_____	1.5	4.1	1.0	18.8
Total Small Grain, peas & Soybeans	134	_____	84.3	126.2	58.3	86.2
Sugar beets, hybrid seed corn, potatoes & truck crops (A)	7	_____	.2	.1	1.0	4.6
Corn grain (A)	137	_____	72.6	109.6	46.1	72.6
Corn or sorghum silage (B)	58	_____	4.9	6.2	1.6	11.3
Sweet corn (B)	4	_____	.6	-	-	20.0
Corn or sorghum fodder (D)	4	_____	.1	-	.2	5.0
Total cultivated crops	137	_____	78.4	115.9	48.9	78.4
Alfalfa hay (A)	111	_____	15.1	24.7	8.6	18.7
Soybean hay (C)	3	_____	.1	-	.5	4.6
Mixed legumes & non-legumes (C)	41	_____	3.5	5.1	3.2	11.7
Legumes for seed (C)	10	_____	.4	.4	.4	5.0
Timothy and/or brome hay (D)	12	_____	.8	1.4	-	9.2
Misc. hay and seed (D)	3	_____	-	.1	.1	2.0
Total tillable land in hay	129	_____	19.9	31.7	12.8	21.2
Alfalfa and mixtures inc. alf. (A)	46	_____	4.5	5.4	1.7	13.4
Sweet clover pasture (B)	7	_____	1.2	4.8	.7	23.7
Other legumes and mixtures (C)	25	_____	2.2	3.3	3.5	12.2
Sudan grass and/or rape (C)	10	_____	.4	.3	.1	5.3
Other tillable pasture (D)	45	_____	5.5	7.1	2.9	16.6
Total tillable land in pasture	101	_____	13.8	20.9	8.9	18.7
Tillable land not cropped (D)	30	_____	5.3	13.0	1.8	24.0
Total tillable land	137	_____	201.7	307.7	130.7	201.7
Wild or phalaris hay (non-tillable)	43	_____	3.0	4.3	3.9	9.4
Non-tillable pasture	91	_____	21.3	24.8	18.4	32.1
Roads, waste and timber		_____	9.2	14.7	4.9	
Farmstead		_____	7.8	9.6	7.1	
Total acres in farm		_____	243.0	361.1	165.0	
% land tillable		_____	83.0	85.2	79.2	
% tillable land in high return crops		_____	56.9	56.5	56.4	

Table 12. Crop Yields per Acre, 1947

Crop	Your farm	Average of 137 farms	27 most profitable farms	27 least profitable farms
Canning peas, value above seed cost, dollars	_____	\$30.02	-	-
Soybeans, bu.	_____	15.3	16.8	14.7
Flax, bu.	_____	13.4	14.6	11.7
Barley, bu.	_____	28.9	30.2	21.6
Oats, and barley, bu.	_____	40.8	-	-
Oats, bu.	_____	42.0	49.0	35.3
Wheat, bu.	_____	21.6	-	-
Rye, bu.	_____	23.2	-	-
Corn grain, bu.	_____	40.4	41.9	38.4
Corn or sorghum silage, tons	_____	6.9	7.6	6.3
Sweet corn, tons	_____	1.6	-	-
Corn or sorghum fodder, tons	_____	2.1	-	-
Alfalfa hay, tons	_____	2.2	2.2	2.3
Soybean hay, tons	_____	1.2	-	-
Mixed legume & non-legume hay, tons	_____	1.7	1.6	1.6
Legume seed, lbs.	_____	171.0	-	-
Timothy and/or brome hay, tons	_____	1.3	1.2	-
Other annual hay, tons	_____	1.6	-	-
Wild hay, tons	_____	.7	1.3	.6

Table 13. Average Price of Feeds, 1947

Item	Value	Item	Value
Ear corn, per bu.	\$1.54	Alfalfa hay, per ton	\$22.00
Oats, per bu.	.90	Red or alsike clov. hay, per ton	18.50
Barley, per bu.	1.80	Soybean hay, per ton	18.50
Wheat, per bu.	2.40	Timothy hay, per ton	12.50
Soybeans, per bu.	3.12	Wild hay, per ton	11.00
Bran, per cwt.	3.20	Corn fodder, per ton	10.00
Linseed oilmeal, per cwt.	4.25	Corn silage, per ton	8.00
Soybean oilmeal, per cwt.	4.80	Skim milk, per cwt.	.40
Tankage, per cwt.	6.75	Pasture, per mo. per an. unit	1.40

Table 14. Feed Costs for Horses and Misc. Power and Machinery Expense, 1947

Items	Your farm	Average of 102 farms*	22 most profitable farms*	16 least profitable farms*
Feed per horse, **lbs.:				
Grain	_____	755	1010	319
Hay	_____	1760	2309	918
Fodder and stover	_____	36		
Feed costs per horse:				
Grain	\$ _____	\$20.95	\$28.14	\$8.82
Roughage	_____	14.44	19.12	7.14
Pasture	_____	7.69	6.75	9.79
TOTAL FEED COSTS	\$ _____	\$43.08	\$54.01	\$25.75
Number of work horses	_____	2.7	3.3	2.2
Number of colts	_____	.1	.1	-
Crop acres per farm	_____	185.6	275.0	123.9
Tractor and horse exp. per crop acre	\$ _____	\$4.20	\$4.27	\$4.21
Crop and gen. mach. exp. per crop acre	_____	3.57	3.67	3.47

*35 farmers did not have horses. The crop acres and expenses per crop acre are averages of 137 farms.

**Two colts equal one horse.

Table 15. Feed Costs and Returns from Hogs, 1947

Items	Your farm	26 farms	
		Average of 129 farms	highest in lowest in returns returns above feed above feed
Feed per cwt. hogs produced, lbs.:			
Corn	_____	409	334
Small grain	_____	104	84
Commercial feeds	_____	37	32
Total concentrates	_____	550	450
Skim milk and buttermilk	_____	43	37
Feed cost per cwt. hogs produced:			
Concentrates	\$ _____	\$16.25	\$13.32
Skim milk and buttermilk	_____	.16	.17
Pasture	_____	.23	.22
TOTAL FEED COSTS	\$ _____	\$16.64	\$13.71
Net increase in val. per cwt. hogs prod.	\$ _____	\$25.73	\$29.11
RETURNS ABOVE FEED COST PER CWT. HOGS PROD.	\$ _____	\$9.09	\$15.40
RETURNS FOR \$100 OF FEED	\$ _____	\$162	\$218
Price received per cwt. hogs sold	\$ _____	\$24.66	\$26.21
No. of spring litters raised	_____	16.5	17.2
No. of fall litters raised	_____	4.2	3.7
Total no. of litters raised	_____	20.7	20.9
No. of pigs born per litter	_____	7.6	7.8
No. of pigs weaned per litter	_____	6.1	6.4
Pounds of hogs produced	_____	36161	38249

Table 16. Factors of Cost and Returns from Dairy Cows, 1947

	Your farm	Average of 43 farms	10 farms highest in butterfat per cow	10 farms lowest in butterfat per cow
Pounds of butterfat per cow		259	338	182
% fat test of milk		3.7	3.5	3.6
Price rec. per lb. B.F. sold (cts.)		83.9	89.6	78.8
As manufacturing cream (cts.)		75.9	78.2	74.9
Other (cents)		99.3	106.7	94.1
Feeds per cow, lbs.:				
Corn		1713	1823	1822
Small grain		900	1008	404
Commercial feeds		205	369	107
Legume hay		3316	4365	2869
Other hay		1025	656	1322
Fodder and stover		250	500	330
Total concentrates		2818	3200	2333
Total dry roughage		4591	5521	4521
Silage		4690	5429	5004
Total digestible nutrients*		5245	6178	4828
T.D.N. per lb. B.F.		20.3	18.3	26.5
% T.D.N. that is protein		13.7	14.8	12.9
Feed cost per cow:				
Concentrates	\$	\$81.00	\$93.21	\$65.96
Roughages		60.38	73.42	59.62
Pasture		7.04	7.15	7.16
TOTAL FEED COSTS	\$	\$148.42	\$173.78	\$132.74
Value of produce per cow:				
B.F. sales	\$	\$196.66	\$278.93	\$121.66
Dairy produce used in house		14.90	14.39	13.69
Milk to livestock		20.93	24.51	20.04
Net increases in value of cows		19.93	39.65	13.68
TOTAL VALUE PRODUCED		252.42	357.48	169.07
RETURNS ABOVE FEED COST PER COW	\$	\$104.00	\$183.70	\$ 36.33
RETURNS FOR \$100 OF FEED	\$	\$177	\$211	\$151
Feed cost per lb. B.F. (cts.)		57.3	51.4	72.9
% fall freshening		46	54	46
Number of cows**		11.8	14.7	9.3

*Not including nutrients received from pasture.

**All dairy cows which have at some time in the past freshened are included in the dairy herd, and affect the average number of cows used in computing this table. There is some variation in the number of months of dry period per cow; however, this variation is small for the majority of farms.

Table 17. Feed Costs and Returns from Other Dairy Cattle, 1947

Items	Your farm	Average of 42 farms*	10 farms highest in butterfat per cow	10 farms lowest in butterfat per cow
Feeds per head, lbs.:				
Concentrates		829	882	714
Hay and fodder		1670	2223	978
Silage		1761	2246	1893
Skim milk		821	632	939
Whole milk		292	315	263
TOTAL FEED COSTS PER HEAD	\$	\$60.12	\$69.81	\$50.45
Net inc. in value of other dairy cattle	\$	\$79.74	\$93.14	\$68.95
RETURNS ABOVE FEED COST PER HEAD	\$	\$19.62	\$23.33	\$18.50
RETURNS FOR \$100 OF FEED	\$	\$164	\$157	\$157
Number of head of other dairy cattle		13.9	16.2	9.8

Table 18. Feed Costs and Returns from All Dairy Cattle, 1947

Items	Your farm	Average of 43 farms	10 farms highest in butterfat per cow	10 farms lowest in butterfat per cow
Feeds per animal unit, lbs.:				
Concentrates		2370	2564	1967
Hay and fodder		4009	5009	3406
Silage		4139	4934	4360
TOTAL FEED COSTS PER ANIMAL UNIT	\$	\$126.44	\$147.88	\$109.47
Value of produce per animal unit:				
Dairy products	\$	\$137.01	\$186.83	\$92.91
Net incr. in value of dairy cattle		66.96	94.75	52.53
TOTAL VALUE PRODUCED		\$203.97	\$281.58	\$145.44
RETURNS ABOVE FEED PER ANIMAL UNIT	\$	\$77.53	\$133.70	\$35.97
RETURNS PER \$100 OF FEED	\$	\$169	\$195	\$151
Animal units of dairy cattle		19.0	23.1	14.5

*One farmer had both a dairy and a beef herd, used a beef bull, and included all the young stock in the beef herd.

Table 19. Factors of Cost and Returns from Dual Purpose Cows, 1947

Items.	Your farm	Average of 20 farms	7 farms highest in butterfat per cow	7 farms lowest in butterfat per cow
Pounds of butterfat per cow	_____	185	242	142
Average fat test of milk	_____	3.7	3.7	3.6
Price recd. per lb. B.F. sold (cts.)	_____	75.9	75.1	76.4
As manufacturing cream (cents)	_____	75.1	73.1	75.2
Other (cents)	_____	82.6	80.0	-
Feeds per cow, lbs.:				
Corn	_____	1744	2121	1876
Small grain	_____	464	472	223
Commercial feeds	_____	68	77	47
Legume hay	_____	2991	3602	2084
Other hay	_____	531	996	416
Fodder and stover	_____	107	306	-
Total concentrates	_____	2276	2670	2146
Total dry roughage	_____	3629	4904	2500
Silage	_____	3655	3258	1301
Total digestible nutrients*	_____	4239	5125	3202
T.D.N. per lb. B.F.	_____	22.9	21.2	22.5
% T.D.N. that is protein	_____	12.9	12.8	12.6
Feed Cost per cow:				
Concentrates	\$ _____	\$64.40	\$75.16	\$60.28
Roughages	_____	49.03	58.92	28.41
Pasture	_____	7.58	7.72	7.25
TOTAL FEED COSTS	\$ _____	121.01	141.80	95.94
Value of produce per cow:				
B.F. Sales	\$ _____	\$117.48	\$157.20	\$86.70
Dairy produce used in house	_____	19.92	22.27	18.30
Milk to livestock	_____	18.82	18.76	15.14
Net increases in value of cows	_____	23.70	19.35	20.14
TOTAL VALUE PRODUCED	_____	\$179.92	\$217.58	\$140.28
RETURNS ABOVE FEED COST PER COW	\$ _____	58.91	75.78	44.34
RETURNS FOR \$100 OF FEED	_____	\$157	\$155	\$167
Feed cost per lb. B.F. (cts.)	_____	65.4	58.6	67.6
% fall freshening	_____	29	20	29
Number of cows	_____	6.8	5.2	6.3

* Not including nutrients received from pasture.

Table 20. Feed Costs and Returns from Other Dual-Purpose Cattle, 1947

Items	Your farm	6 farms	
		Average of 17 farms*	highest in lowest in returns above feed
Feeds per head, lbs.:			
Concentrates		1448	1471
Hay and fodder		1123	1120
Silage		841	379
Skim milk		611	933
Whole milk		314	365
TOTAL FEED COSTS PER HEAD	\$	\$69.92	\$72.09
Net Increase in value	\$	81.01	124.29
RETURNS ABOVE FEED COST PER HEAD	\$	11.09	52.20
RETURNS FOR \$100 OF FEED	\$	\$120	\$182
No. of head of other dual-purpose cattle		9.9	9.5

Table 21. Feed Costs and Returns from All Dual-Purpose Cattle, 1947

Items	Your farm	7 farms	
		Average of 21 farms	highest in lowest in returns above feed
Feeds per animal unit, lbs.:			
Concentrates		2355	1804
Hay and fodder		3095	4492
Silage		3208	2659
FEED COSTS PER ANIMAL UNIT	\$	\$115.39	\$110.31
Value of produce per animal unit:			
Dairy products		93.83	107.92
Net increase in value		75.27	96.11
TOTAL VALUE PRODUCED		169.10	204.03
RETURNS ABOVE FEED PER ANIMAL UNIT	\$	53.71	93.72
RETURNS FOR \$100 OF FEED	\$	\$150	\$188
		10.7	8.7

*Four farmers having both a dual-purpose and a beef herd used a beef bull and included all the young stock in the beef herd.

Table 22. Feed Costs and Returns from Beef Cattle, 1947

Items	Your farm	Average of all farms	Farms highest in returns above feed	Farms lowest in returns above feed
Beef breeding herd: No. of farms:		30	10	10
Feeds per animal unit, lbs.:				
Concentrates		1606	1756	1737
Legume hay		2024	2039	2082
Other hay		701	623	750
Fodder and stover		132	168	83
Silage		2770	2226	2940
Feed cost per animal unit:				
Concentrates	\$	\$45.24	\$49.88	\$48.86
Roughages		37.34	35.00	38.08
Milk*		.17	.44	-
Pasture		6.45	6.22	6.28
TOTAL FEED COSTS		89.20	91.54	93.22
Value of produce per animal unit:				
Dairy products	\$	\$14.39	\$19.93	\$ 9.29
Net increase in value of animals		128.08	184.63	86.96
TOTAL VALUE PRODUCED		142.47	204.56	96.25
RETURNS ABOVE FEED COST PER ANIMAL UNIT	\$	\$53.27	\$113.02	\$ 3.03
RETURNS FOR \$100 OF FEED	\$	\$172	\$240	\$110
Number of cows and herd bulls		13.6	8.8	14.6
Number of animal units in the herd		25.0	20.0	25.9
Lbs. beef produced		12040	11719	10555
Feeder cattle: No. of farms		50	12	12
Feeds per cwt. beef produced, lbs.:				
Corn		741	475	1179
Small grain		45	20	44
Commercial feeds		29	20	26
Legume hay		353	337	516
Other hay		79	40	108
Fodder and stover		18	-	-
Total Concentrates		815	515	1249
Total dry roughages		450	377	624
Silage		358	293	470
Feed cost per cwt. beef produced:				
Concentrates	\$	\$22.95	\$14.70	\$34.45
Roughages		5.59	4.78	7.73
Pasture		.70	.55	1.37
TOTAL FEED COSTS		\$29.24	\$20.03	\$43.55
Net increase in value of feeders		38.34	43.15	31.58
RETURNS ABOVE FEED COST PER CWT. BEEF PROD.	\$	\$ 9.10	\$23.12	-\$11.97
RETURNS FOR \$100 OF FEED	\$	\$151	\$220	\$ 80
Price recd. per cwt. beef sold in 1947	\$	\$23.45	\$26.45	\$19.39
Price pd. for feeder cattle bot. in 1947		20.24	21.34	19.97
No. of animal units		27.3	46.2	20.8
Pounds of beef produced		15571	28868	8989

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

Table 23. Feed Costs and Returns from a Farm Flock of Sheep, 1947

Items	Your farm	Average of 30 farms	10 farms highest in returns above feed	10 farms lowest in returns above feed
Feeds per head, *lbs.				
Concentrates	_____	116	138	113
Legume hay	_____	273	289	353
Other hay	_____	94	101	129
Silage	_____	69	2	134
Feed cost per head:				
Concentrates	\$ _____	\$2.40	\$1.26	\$3.14
Roughages	_____	3.10	1.81	5.02
Pasture	_____	1.31	1.21	1.44
TOTAL FEED COSTS	\$ _____	6.81	4.28	9.60
Value of produce per head:				
Wool	\$ _____	\$2.50	\$2.72	\$2.00
Net increase in value of sheep	_____	11.02	14.65	8.13
TOTAL VALUE PRODUCED	\$ _____	\$13.52	\$17.37	\$10.13
RETURNS ABOVE FEED COST PER HEAD	\$ _____	\$6.71	\$13.09	\$.53
RETURNS FOR \$100 OF FEED	\$ _____	\$264	\$455	\$106
Price per cwt. of lambs sold	\$ _____	\$21.16	\$21.05	\$20.76
Price per lb. wool sold (cts.)	_____	36.5	38.7	34.7
Pounds of wool per sheep sheared	_____	9.4	9.4	9.0
Number of ewes kept for lambing	_____	32	21	38
% lamb crop**	_____	110	125	105
% death loss**	_____	9.4	12.3	7.5
Pounds of sheep produced	_____	2283	1457	2886
No. of head of sheep*	_____	42.7	29.6	54.1

* 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, 1947

Items	Your farm	Average of 13 farms
Feeds per cwt., sheep produced, lbs.:		
Concentrates		1133
Legume hay		434
Other hay		141
Fodder and stover		2
Silage		384
Feed cost per cwt.:		
Concentrates	\$	\$32.24
Roughages		5.82
Pasture		.12
TOTAL FEED COSTS	\$	38.18
Net increase in value of sheep	\$	\$35.04
RETURNS ABOVE FEED COST PER CWT. PROD.	\$	-43.14
RETURNS FOR \$100 OF FEED	\$	\$92
Price per cwt. sheep sold	\$	\$24.76
Price per cwt. for sheep bot.	\$	21.31
% death loss		4.1
Pounds of sheep produced		5486

Table 25. Feed Costs and Returns from Chickens, 1947

Items	Your farm	Average of 118 farms	24 farms highest in return above feed	24 farms lowest in return above feed
Feed per hen, lbs.:				
Grain	_____	95	94	115
Commercial feeds	_____	46	50	52
Total concentrates	_____	141	144	167
Skim milk and buttermilk	_____	5	6	3
TOTAL FEED COST PER HEN	\$ _____	\$4.99	\$5.03	\$6.05
Value of produce per hen:				
Eggs sold and used in house	_____	\$5.48	\$6.83	\$4.39
Net increase in value of chickens	_____	.98	2.12	.39
TOTAL VALUE PRODUCED	\$ _____	\$6.46	\$8.95	\$4.78
RETURNS ABOVE FEED COST PER HEN	\$ _____	\$1.47	\$3.92	-\$1.27
RETURNS FOR \$100 OF FEED	\$ _____	\$138	\$193	\$ 80
Price rec'd per doz. eggs sold (cts.)	_____	38.0	39.3	36.7
Eggs laid per hen	_____	170	208	138
Ave. no. of hens on farm during the year	_____	232	266	193
% of hens that are pullets	_____	85	85	86
% death loss of hens	_____	12	9	14
Number of chicks put on feed	_____	504	614	422
Price paid per 100 chicks bot.	_____	\$25.89	\$22.01	\$25.95
Lbs. chickens produced	_____	1581	2565	1324

TOTAL FEED COSTS AND RETURNS FROM YOUR LIVESTOCK ENTERPRISES

The total "return over feed costs" for each class of livestock is shown in Table 26. This differs from the "return over feed" shown in the enterprise statement in that it is the total for each class of livestock instead of a return "per head" "per unit" or "per 100 pounds". These data indicate the relative importance of different classes of livestock as a source of income and as a market for feed. The total return is the same as the returns and net increases shown on page 5. The 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.

Table 26. Total Feed Costs and Returns from Your Livestock Enterprises, 1947

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

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.

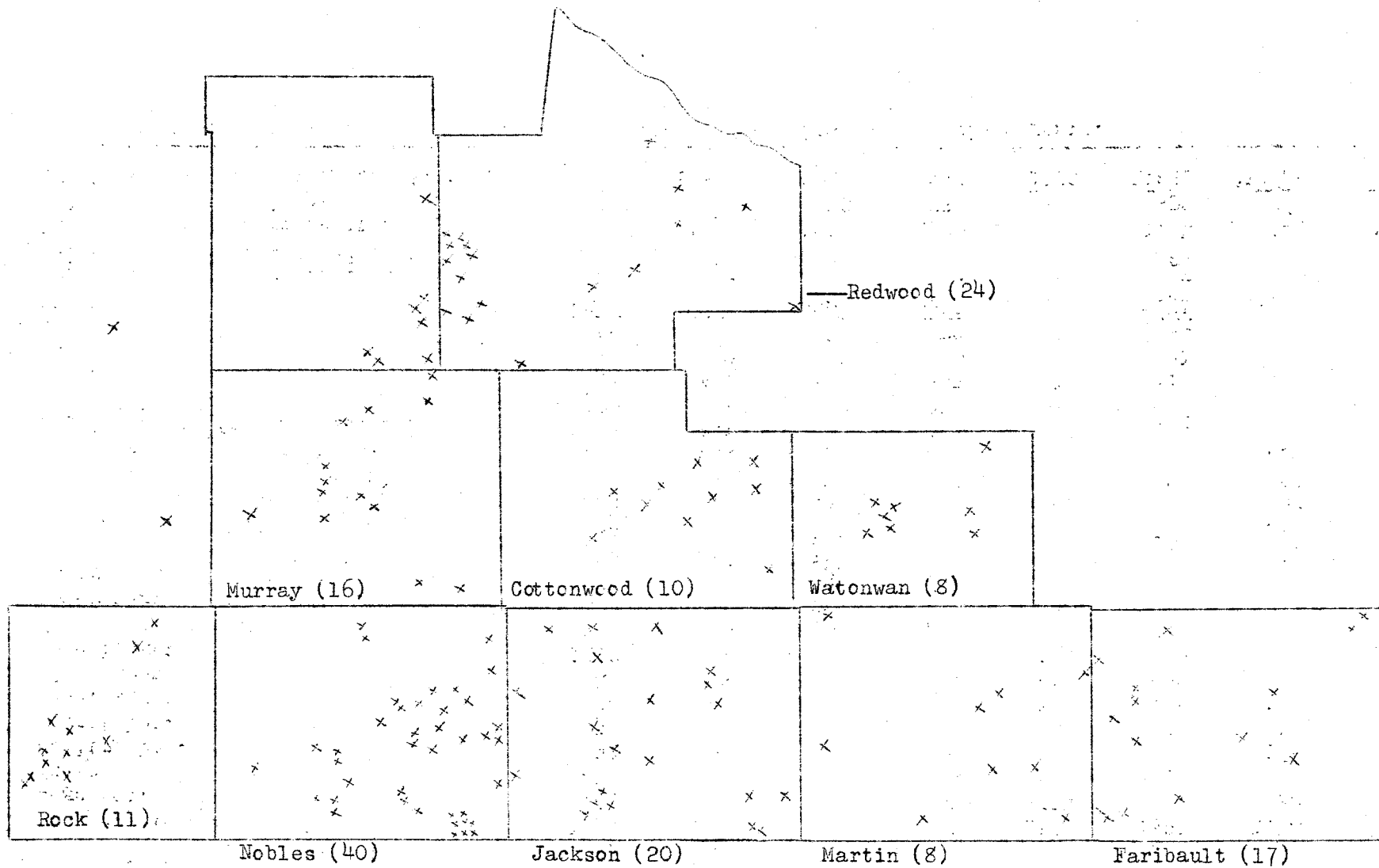
EXPLANATION OF "WORK UNITS"

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 27.

Table 27. 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.



LOCATION OF FARMS IN THE SOUTHWEST MINNESOTA FARM MANAGEMENT ASSOCIATION, 1947

Table 28. Summary of Farm Earnings by Years*

Items	1940	1941	1942	1943	1944	1945	1946	1947
No. of farms	165	166	165	164	163	153	142	137
Total farm capital	\$32724	\$36613	\$37728	\$37602	\$36000	\$35876	\$36810	\$39671
Monthly charge for unpaid family lab.*	45	50	60	75	85	90	110	130
Monthly charge for board to hired labor.*	18	20	25	25	25	25	30	36
FARM EXPENSES								
Dairy and dual-pur. cattle bot.	\$ 76	\$ 138	\$ 141	\$ 135	\$ 112	\$ 118	\$ 237	\$ 135
Beef cattle bot. (incl. feeders)	1243	1766	1718	1187	1109	1390	1754	1916
Hogs bot.	103	209	339	408	315	377	382	646
Sheep bot. (incl. feeders)	414	686	866	694	321	600	464	301
Poultry bot. (incl. turkeys)	99	96	138	165	200	195	164	156
Horses bot.	32	32	49	33	43	15	14	14
Misc. livestock expense	72	109	148	199	173	194	198	270
Misc. crop expenses	243	303	377	507	582	575	750	1055
Feed bought	1007	1718	2235	3080	2164	2416	2669	4014
Custom work hired	150	140	199	215	261	292	300	394
Power mach. (new)	379	446	256	180	337	200	449	847
Power mach. (upkeep)	411	497	533	617	699	817	963	1116
Crop and gen. mach. (new)	319	416	387	221	332	414	601	897
Crop and gen. mach. (upkeep)	69	84	135	157	174	195	258	290
Livestock equipment (new)	74	123	134	138	91	78	97	122
Livestock equipment (upkeep)	20	32	57	87	78	94	92	114
Buildings and fencing (new)	412	434	327	236	297	370	409	754
Buildings and fencing (upkeep)	88	141	156	168	192	219	268	311
Hired labor	392	561	622	739	651	636	723	796
Taxes	313	337	355	335	311	311	367	378
Insurance	15	32	35	40	41	41	49	61
General farm	59	55	60	72	80	84	108	112
(1) Total farm purchases	5990	8355	9267	9613	8563	9631	11316	14699
(2) Decrease in farm capital	-	-	-	-	412	-	-	-
(3) Board furnished hired labor	131	171	143	147	118	83	105	116
(4) Interest on farm capital	1635	1831	1886	1880	1800	1794	1841	1984
(5) Unpaid family labor	252	288	360	335	316	322	363	422
(6) Total farm exp. (sum of (1) to (5))	\$8008	\$10645	\$11656	\$11975	\$11209	\$11830	\$13625	\$17221

*These adjustments should be considered in comparing 1947 results with previous years.

Table 28. Summary of Farm Earnings by years (continued)

Items	1940	1941	1942	1943	1944	1945	1946	1947
FARM RECEIPTS								
Dairy and dual-purpose cattle	\$ 265	\$ 392	\$ 446	\$ 419	\$ 392	\$ 473	\$ 515	\$ 688
Dairy products	570	758	804	916	855	906	1083	1031
Beef cattle (incl. feeders)	2373	3399	3860	3590	2478	3777	3711	4248
Hogs	1162	2306	4336	5630	4671	4484	6166	8662
Sheep and wool (incl. feeders)	470	1032	1402	968	768	926	834	766
Poultry (including turkeys)	372	396	598	622	829	659	620	444
Eggs	244	334	589	905	911	977	993	1043
Horses	42	41	47	45	47	27	24	28
Corn	516	477	625	724	578	587	814	1183
Small grain	849	1133	1120	1382	669	949	1446	2436
Other crops	239	283	366	510	600	673	878	911
Machinery and equipment sold	249	278	133	137	185	251	363	383
Agri. adjustment payment	506	503	503	264	74	51	121	61
Income from work off the farm	193	196	163	137	183	295	343	344
Miscellaneous	394	176	166	185	197	48	67	83
(7) Total farm sales	\$8444	\$11704	\$15158	\$15434	\$13447	\$15083	\$17978	\$22311
(8) Increase in farm capital	1179	2618	2102	2	-	314	3223	5634
(9) Family living from farm	483	538	584	588	572	635	679	667
(10) Tot. farm rec. (7)+(8)+(9)	\$10106	\$14860	\$17844	\$17024	\$14019	\$16032	\$21880	\$28612
(6) Total farm expenses	8008	10645	11656	11975	11209	11830	13625	17221
(11) Oper. lab. earn. (10) - (6)	2098	4215	6188	5049	2810	4202	8255	11391
MEAS. OF FARM ORG. AND MANAGEMENT EFFICIENCY								
% high return crops*	35.9	36.5	38.9	40.3	54.2	55.7	55.4	56.9
Prod. livestock units per 100 A.	22.1	24.7	24.7	25.1	21.4	22.1	20.7	20.1
Work units	569	631	624	586	530	535	514	483
Work units per worker	263	264	281	279	279	297	286	284
Expenses per work unit	\$2.17	\$2.30	\$2.90	\$3.52	\$4.20	\$4.52	\$5.08	\$6.39
ACRES PER FARM								
Crop acres per farm	279	295	291	280	268	268	260	243
	213	223	219	212	191	203	200	186
CROP YIELDS PER ACRE								
Flax, bu.	13.7	12.0	11.5	9.5	6.0	13.8	13.3	13.4
Barley, bu.	42.3	29.6	24.0	10.7	18.8	44.3	33.4	28.9
Oats, bu.	60.1	26.4	44.8	34.3	36.3	51.8	42.1	42.0
Corn, grain, bu.	46.2	55.9	57.4	39.6	49.6	33.5	53.1	40.4
Corn silage, tons	8.5	9.5	10.3	8.5	7.5	7.1	8.9	6.9
Alfalfa hay, tons	2.0	2.0	2.5	2.3	2.0	2.1	2.1	2.2

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

Table 29. Summary of Miscellaneous Items by Years

Items	1940	1941	1942	1943	1944	1945	1946	1947
<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
Dual-purpose cow	26.49	39.13	54.28	41.21	46.01	61.28	94.26	58.91
Animal unit in beef breeding herd	18.20	25.06	35.53	18.54	12.20	24.00	42.12	53.27
100 lbs. feeder cattle produced	2.92	3.99	3.64	1.43	3.56	7.38	8.59	9.10
Head of sheep in farm flock	3.27	5.96	5.61	3.37	3.00	4.86	10.97	6.71
100 lbs. feeder sheep produced	2.13	8.01	6.67	4.24	10.85	9.44	18.02	-3.14
100 lbs. hogs produced	1.23	5.15	7.61	2.93	3.31	5.23	7.68	9.09
Hen	.96	1.35	2.07	2.48	1.71	2.63	2.27	1.47
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
Dual-purpose cow	34.85	44.19	48.55	70.09	68.02	78.02	87.82	121.01
Animal unit in beef breeding herd	29.86	33.57	34.55	46.58	49.92	52.84	58.59	89.20
100 lbs. of feeder cattle produced	8.00	9.21	13.27	17.25	15.06	15.62	18.03	29.24
Head of sheep in farm flock	2.60	2.76	3.01	4.14	3.78	4.33	4.74	6.81
100 lbs. feeder sheep produced	7.16	8.38	14.23	13.85	12.98	15.15	19.30	38.18
100 lbs. hogs produced	4.29	5.55	6.76	9.89	10.32	9.04	11.95	16.64
Hen	1.11	1.50	2.15	3.17	3.46	3.53	3.95	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
<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
No. of colts	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
Head in beef breeding herd	9.0	9.4	9.9	10.7	13.5	10.8	10.7	8.0
Lbs. feeder cattle produced	8678	14087	10119	8483	5315	7695	6083	5717
Litters of pigs	13.6	16.9	20.1	25.4	16.7	19.4	18.1	19.5
Lbs. of hogs produced	21335	27550	34522	39596	29054	33994	34524	34163
No. of hens	161	173	196	223	230	215	210	200
Lbs. of butterfat per dairy cow	250	254	250	251	226	242	244	259
Lbs. of butterfat per dual-pur. cow	179	190	190	182	172	182	191	185
No. of pigs weaned per litter	6.2	6.4	6.3	6.0	5.9	6.2	6.4	6.1
% lamb crop	110	110	109	105	94	99	108	110
Eggs per hen	113	117	135	146	157	163	174	170

Table 29. Summary of Miscellaneous Items by Years (continued)

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