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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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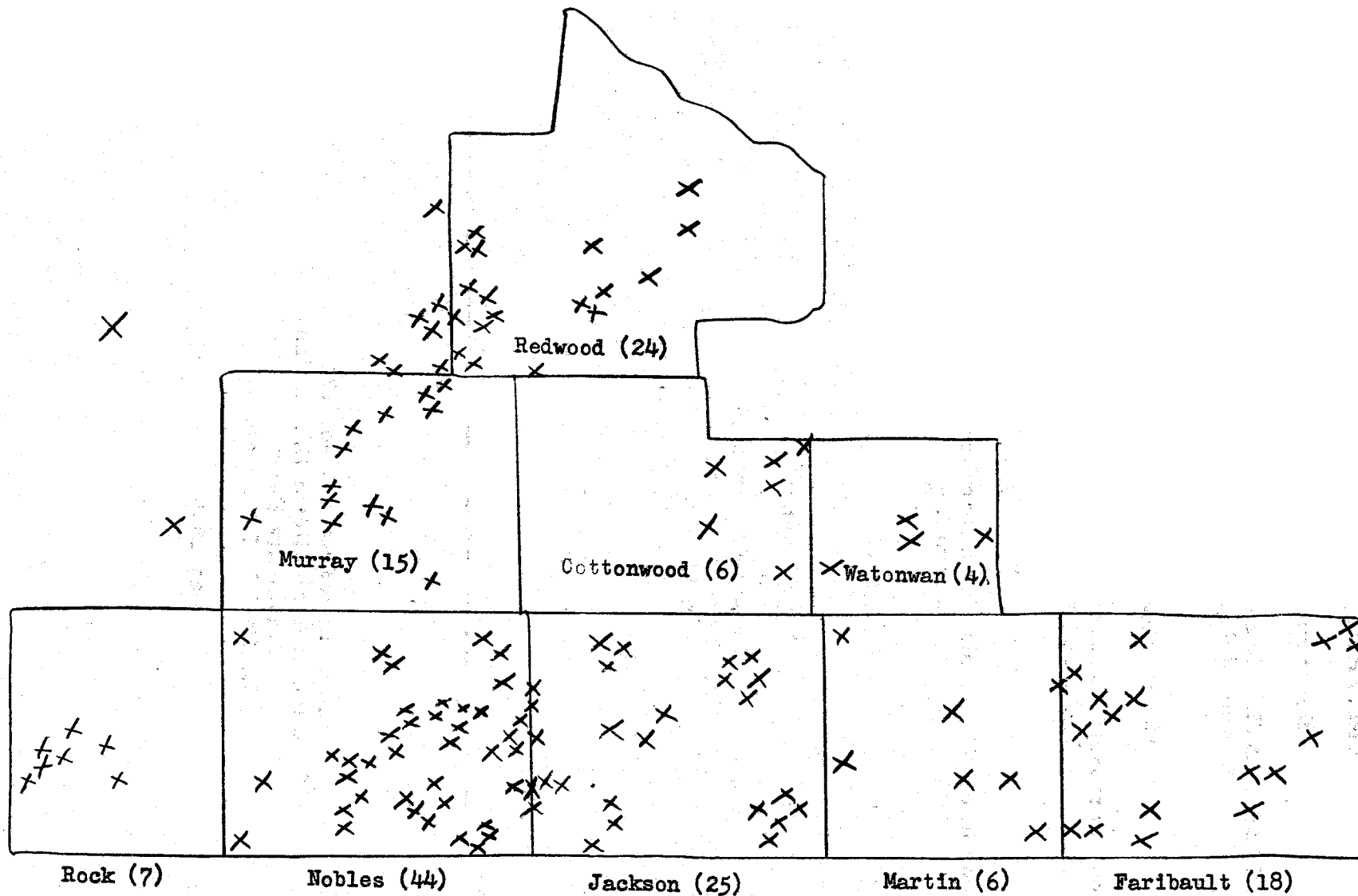
Annual Report
of the
Southwestern Minnesota
Farm Management Service
1949

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Cooperator: _____

Mimeographed Report No. 181
Division of Agricultural Economics
University Farm
St. Paul 1, Minnesota

May 1950



Location of Farms in the Southwest Minnesota Farm Management Association, 1949

X = regular members

ANNUAL REPORT OF THE SOUTHWEST MINNESOTA FARM MANAGEMENT SERVICE, 1949

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

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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, Wm. E. McDaniel, Neils Rorholm and Richard Zoller 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, Milton Brown, A. B. Hagen, Ross Huntsinger, J. I. Swedberg, Howard Newell, and Robert Roufs.

The officers for the Southwest Farm Management Association for 1949 were:
 President; Glenn E. Olson, Jackson, Jackson County
 Vice-President; O. Elof Johnson, Worthington, Nobles County
 Secretary-Treasurer; Arthur Foster, Garvin, Murray County

The board of directors include these officers and also the following:
 Walter Schmotzer, Cottonwood county; Floyd Peter, Faribault County; Claude Drahota, Jackson County; John Talley, Martin County; Goodwin Fresk, Murray County; Vernie Woodboom and Lyle Eide, Nobles County; Anton Johnson and Leonard Larson, Redwood County; Jacob Sills, Rock County; and Clayton Johnson, Watonwan County.

The following tabulation shows by counties the numbers of members who completed records in 1949.

Cottonwood	6	Martin	6	Redwood	24
Faribault	18	Murray	15	Rock	7
Jackson	24	Nobles	44	Watonwan	4
				Total	148

In the tables on page 3 and succeeding pages are shown data for 131 farms. Fourteen farms were omitted from all of the averages in the tables because the records were not sufficiently complete for a full analysis. Three 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		Tracy	
	Precipitation	Departure from normal	Precipitation	Departure from normal	Precipitation	Departure from normal
	Inches	Inches	Inches	Inches	Inches	Inches
January	1.20	+ .57	1.81	+1.01	1.14	+ .59
February	.03	- .74	.18	- .79	0.00	- .64
March	3.32	+2.06	2.70	+1.29	2.36	+1.19
April	.53	-1.55	.93	-1.30	.76	-1.13
May	2.24	-1.70	2.43	-1.49	1.32	-1.60
June	5.58	+1.29	4.52	+ .38	3.07	-1.04
July	2.50	- .89	4.34	+ .78	5.46	+2.67
August	1.63	-2.13	.84	-2.71	.48	-2.60
September	3.00	- .41	3.37	+ .05	2.47	- .37
October	2.54	+ .85	1.02	- .83	1.23	- .43
November	.17	-1.00	.62	- .77	.15	- .82
December	.77	+ .06	1.05	+ .15	.64	+ .05
1949 Total	23.51	-3.59	23.81	-4.23	19.08	-4.13
1948 Total	27.01	-0.09	29.03	+0.99	-	-
1947 Total	25.89	-1.21	30.49	+2.45	26.63	+3.42
1946 Total	27.62	+0.52	37.80	+9.76	26.61	+3.40
Norm. An. Prec.	27.10		28.04		23.21	

Table 2. Summary of Farm Inventories, 1949*

Items	Your farm		26 most profitable farms	
	Jan. 1	Dec. 31	Jan. 1	Dec. 31
Size of farm (acres)			348	
Size of business (work units)**			655	
Dairy and dual purpose cows			\$669	\$717
Other dairy & dual purpose cattle			396	462
Beef cattle (incl. feeders)			3618	5028
Hogs			3672	3386
Sheep (including feeders)			204	231
Poultry (including turkeys)			255	718
Productive livestock (total)			8814	10542
Horses			62	48
Crop, seed and feed			8636	10840
Power mach. (farm share)			3116	3783
Crop & general mach. (farm share)			4053	4856
Livestock equipment & supplies			731	687
Mach. & equipment (total)			7900	9326
Buildings, fences, etc.			10036	11021
Land			21556	21556
Total farm capital			57004	63333

Items	Average of 131 farms		26 least profitable	
	Jan. 1	Dec. 31	Jan. 1	Dec. 31
Size of farm (acres)	249		248	
Size of business (work units)**	483		480	
Dairy and dual purpose cows	\$607	\$606	\$442	\$400
Other dairy & dual purpose cows	338	391	241	279
Beef cattle (incl. feeders)	3355	3530	5294	4365
Hogs	3029	2309	3202	2270
Sheep (including feeders)	143	363	74	360
Poultry (including turkeys)	251	323	226	197
Productive livestock (total)	7723	7522	9479	7871
Horses	61	49	68	56
Crop, seed, and feed	6471	6469	7326	5893
Power mach. (farm share)	2304	2804	2182	2450
Crop & general mach.	3023	3622	2706	3549
Livestock equipment & supplies	494	481	450	491
Mach. & equipment (total)	5821	6907	5338	6490
Buildings, fences, etc.	9230	9619	10190	10717
Land	16516	16516	18057	18057
Total farm capital	45822	47082	50458	49084

*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 20 for an explanation of "work units".

Table 3. Summary of Farm Earnings (Cash Statement), 1949

Items	Your farm	26 most profitable farms	Average of 131 farms	26 least profitable farms
FARM RECEIPTS				
Dairy and dual-purpose cows	\$ 287	\$ 268	\$ 147	
Dairy products	997	874	599	
Other dairy & dual-purpose cattle	376	304	199	
Beef cattle (including feeders)	6687	4988	6892	
Hogs	9445	6358	6114	
Sheep and wool (including feeders)	244	308	500	
Poultry (including turkeys)	1395	485	196	
Eggs	1067	1052	1016	
Horses	16	12	6	
Corn	2566	1606	1293	
Small grain	2625	1626	1358	
Other crops	1310	772	870	
Machinery & equip. sold	922	470	333	
Agricultural adjustment payments	37	29	31	
Income from work off the farm	333	277	285	
Miscellaneous	68	66	39	
(1) Total farm sales	\$28375	\$19495	\$19878	
(2) Increase in farm capital	6329	1260	-	
(3) Family living from the farm	660	649	719	
(4) Total farm receipts (1)+(2)+(3)	\$35364	\$21404	\$20597	
FARM EXPENSES				
Dairy and dual-purpose cows bought	\$ 120	\$ 109	\$ 62	
Other dairy and dual-pur. cattle bot	131	105	77	
Beef cattle bot (incl. feeders)	4493	2733	3246	
Hogs bought	755	441	649	
Sheep bought (incl. feeders)	72	365	649	
Poultry bought (including turkeys)	442	179	112	
Horses bought	3	2	-	
Misc. livestock expense	513	304	307	
Misc. crop expenses	1226	851	994	
Feed bought	5203	2929	2830	
Custom work hired	511	375	425	
Mech. power mach. (farm share) (new)	1601	1116	852	
Mech. power mach. (farm share) (upkp.)	347	290	330	
Mech. power (farm share) (gas, oil, etc.)	1270	943	998	
Crop and general mach. (new)	1836	1319	1472	
Crop and general mach. (upkeep)	440	310	325	
Livestock equipment (new)	100	88	138	
Livestock equipment (upkeep)	183	126	135	
Buildings and fencing (new)	1507	908	1179	
Buildings and fencing (upkeep)	444	384	493	
Hired labor	1632	872	901	
Taxes	653	499	542	
General farm and insurance	226	202	204	
(5) Total farm purchases	\$23708	\$15450	\$16920	
(6) Decrease in farm capital	-	-	1373	
(7) Interest on farm capital	3008	2323	2489	
(8) Unpaid family labor	333	356	414	
(9) Board furnished hired labor	116	102	133	
(10) Total farm exp. (sum of (5) to (8))	\$27165	\$18231	\$21329	
(11) Oper. labor earnings (4)-(10)	8199	3173	-732	

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

Items	Your farm	26 most profitable farms	Average of 131 farms	26 least profitable farms
RETURNS AND NET INCREASES				
Dairy and dual purpose cows		\$1250	\$ 994	\$ 680
Other dairy & dual pur. cattle		456	406	205
Beef breeding herd		743	735	626
Feeder cattle		2910	1786	2216
Hogs		8494	5274	4600
Sheep - farm flock		199	138	57
Sheep - feeders		-	28	81
Turkeys		1341	271	-
Chickens		1211	1225	1143
All productive livestock		16604	10857	9608
Crops, seed, and feed		2297	246	-1690
Agricultural conservation payments		37	29	31
Income from labor off the farm		204	152	129
Miscellaneous		257	255	266
(1) Total returns & net increases		19399	11539	8344
EXPENSES AND NET DECREASES				
Horses	\$	\$ 40	\$ 27	\$ 28
Tractor		1195	850	886
Truck		214	199	224
Auto (farm share)		407	362	380
Elec. and gas engine exp.(f.share)		133	113	126
Hired power		189	142	166
Total power		2178	1693	1810
Crop and general machinery		1248	896	883
Livestock equipment		271	210	231
Buildings, fencing, and tiling		855	791	1026
Misc. productive livestock expense		513	303	307
Labor		2248	1449	1584
Real estate taxes		523	398	436
Personal property tax		130	101	106
Insurance		54	56	60
General farm		172	146	144
Interest on farm capital		3008	2323	2489
(2) Total expenses & net decreases		11200	8366	9076
(3) Oper. labor earnings (1)-(2)		8199	3173	-732

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

Table 5. Net worth Statement for Those Farmers Who Kept a Complete Record of All Assets and Liabilities, 1949 (Operator's Share)

	Your farm		25 Owners	
	Jan. 1	Dec. 31	Jan. 1	Dec. 31
Total acres in farm			226.9	
Owned			226.9	
Rented			-	
Total farm capital			\$43599	\$43536
Accounts receivable			868	1314
Stocks and bonds			3694	3577
Life insurance			1357	1468
Outside real estate			3004	3427
Other outside investments			327	503
Total outside investments			8382	8975
Cash on hand and in bank			2017	1329
Other household & personal assets			1872	2142
Total cash, household & personal assets			3889	3471
TOTAL ASSETS			56738	57296
Federal Land Bank Mortgage			1721	1959
Other mortg. on land operated			3489	2802
Mortgages on other real estate			400	360
Production Credit Association			1335	834
Crop loans			173	662
Other chattel mortgages			140	-
Notes payable			1469	1931
Accounts payable			90	155
TOTAL LIABILITIES			8817	8703
Farmer's net worth			47921	48593
Gain in net worth				+672

	19. Part Owners*		20 Renters**	
	Jan. 1	Dec. 31	Jan. 1	Dec. 31
Total acres in farm	322.7		248.8	
Owned	174.2			
Rented	148.5		248.8	
Total farm capital	\$35255	\$38885	\$14552	\$15661
Accounts receivable	60	123	369	245
Stocks and bonds	5396	4914	1695	1838
Life insurance	1409	1524	679	761
Outside real estate	1279	1603	150	127
Other outside investments	382	555	124	194
Total outside investments	8466	8596	2648	2920
Cash on hand and in bank	1809	1433	1421	1305
Other household and personal assets	1805	2138	1992	2286
Total cash, household & personal assets	3614	3571	3413	3591
TOTAL ASSETS	47395	51175	20982	22417
Federal Land Bank Mortgage	711	678	-	-
Other mortg. on land operated	1778	1346	-	-
Mortgages on other real estate	42	42	-	-
Production Credit Association	421	-	470	894
Crop loans	855	1622	-	105
Other chattel mortgages	21	233	692	674
Notes payable	2639	3563	704	852
Accounts payable	140	161	220	259
TOTAL LIABILITIES	6607	7645	2086	2784
Farmer's net worth	40788	43530	18896	19633
Gain in net worth		+2742		+737

* 7 rented for cash, 6 cash and crop share, 5 crop share and 1 livestock share.

**3 rented for cash, 11 cash and crop share, 2 crop share and 4 livestock share.

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

	Your farm	25 owners	19 part owners	20 renters
FARM RECEIPTS				
Dairy and dual-purpose cows		\$ 331	\$ 94	\$ 440
Dairy products		1288	517	914
Other dairy and dual-purpose cattle		290	231	427
Beef cattle (including feeders)		5280	4867	1391
Hogs		7841	6238	5022
Sheep and wool (including feeders)		198	266	257
Poultry (including turkeys)		872	197	276
Eggs		1104	985	1127
Horses		10	10	9
Corn		1497	902	879
Small grain		1546	1656	830
Other crops		1231	780	354
Machinery & equip. sold		385	687	603
Agricultural adjustment payments		27	37	14
Income from work off the farm		234	287	158
Misc.		79	51	58
(1) Total farm sales		22213	17805	12759
(2) Increase in farm capital		-	3630	1109
(3) Family living from the farm		738	566	522
(4) Total farm receipts (1)+(2)+(3)		22951	22001	14390
FARM EXPENSES				
Dairy and dual-purpose cows bought		\$ 38	\$ 25	\$ 249
Other dairy & dual-pur. cattle bought		39	84	233
Beef cattle bought (incl. feeders)		2637	2546	649
Hogs bought		597	454	314
Sheep bought (including feeders)		78	633	34
Poultry bought (including turkeys)		213	97	120
Horses bought		3	1	-
Misc. livestock expenses		420	271	267
Misc. crop expenses		968	882	775
Feed bought		3474	2316	2492
Custom work hired		419	432	320
Mech. power mach. (farm share) (new)		1125	1344	888
Mech. power mach. (farm share) (upkp.)		308	311	252
Mech. power (f. share)(gas, oil, etc.)		884	1052	823
Crop and general mach. (new)		1152	1161	1574
Crop and general mach. (upkeep)		252	286	345
Livestock equipment (new)		29	113	115
Livestock equipment (upkeep)		159	103	144
Land, buildings and fencing (new)		1979	1561	38
Buildings and fencing (upkeep)		577	291	202
Hired labor		1110	1081	704
Taxes (real estate & pers. property)		488	379	75
General farm and insurance		240	176	172
Cash rent		-	367	460
Interest paid		326	240	86
(5) Total farm purchases		17515	16206	11331
(6) Decrease in farm capital		63	-	-
(7) Interest on farm capital		1852	1614	669
(8) Unpaid family labor		388	420	188
(9) Board furnished hired labor		116	30	87
(10) Total farm exp. (sum of (5) to (9))		19934	18270	12275
(11) Operator's labor earnings (4)-(10)		3017	3731	2115
(12) Ret. cap. & fam. lab. (7)+(8)+(11)		5257	5765	2972

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

Items	Your farm	12 most profit-able farms	Average of 59 farms	12 least profit-able farms
Number of persons in family	_____	4.5	4.1	4.2
Number of adult equivalents in family	_____	3.1	3.0	3.3
Number of other adult equivalents*	_____	.7	.2	.3
<u>EXPENSES</u>				
Food and meals bought	\$ _____	\$670	\$682	\$630
Operating and supplies	_____	335	288	393
Clothing and clothing materials	_____	445	360	354
Personal care, personal spending	_____	195	142	63
Furnishings and equipment	_____	431	310	397
Education, recreation and development	_____	243	140	57
Medical care and health insurance	_____	265	214	243
Church, welfare, gifts	_____	433	331	383
Personal share of auto expense	_____	97	132	193
Household share of elect. & gas eg. exp.	_____	80	62	69
H.H.&pers. shr. of new auto, gas, eg. & mot. bot	_____	294	211	201
Total cash living expenses	_____	3488	2872	2983
State and federal income tax	_____	1829	932	880
Insurance	_____	398	334	309
Total household and pers. cash exp.	_____	5715	4138	4172
Food furnished by the farm	_____	340	319	338
Fuel furnished by the farm	_____	3	6	3
House rental	_____	284	260	256
Total cash expenses and perquisites	_____	6342	4723	4769
Pur. of stocks, bonds, and other invest.	_____	\$1342	\$733	\$1090
<u>RECEIPTS</u>				
Income from outside investments	_____	1226	395	44
Misc. income	_____	46	134	22

*Hired help or others boarded

Table 10. Measures of Farm Organization and Management Efficiency, 1949

Measures used in chart on page 11	Your farm	26 most profit- able farms	Average of 131 farms	26 least profit- able farms
Operator's labor earnings	\$ _____	\$8199	\$3173	\$-732
(1) Crop yields*	_____	106	100	99
(2) % of tillable land in high ret.crops**	_____	58.9	58.3	59.2
(3) Ret. for \$100 feed to prod. livestock***	_____	109	100	83
(4) Prod. livestock units per 100 acres****	_____	20.1	19.3	20.4
(5) Size of business - work units	_____	655	483	480
(6) Work units per worker	_____	328	284	282
(7) Pow., mach., equip., & bldg. exp. per work unit	\$ _____	\$7.42	\$7.75	\$8.76

Items related to some of the above measures:

(3) Index of return for \$100 feed from -				
Dairy cattle (See pages 15 & 17)	_____	98	100	83
Dual-purpose cattle (See pp. 16 & 17)	_____	-	100	-
Beef cattle - breeding herd (see p. 18)	_____	-	100	91
Beef cattle - feeders (See page 18)	_____	110	100	83
Hogs (See page 15)	_____	121	100	82
Sheep - farm flock (See page 19)	_____	-	100	92
Sheep - feeders	_____	-	100	-
Turkeys	_____	-	100	-
Chickens (See page 20)	_____	100	100	105
(4) Number of animal units	_____	59.0	42.5	46.4
(5) Work units on crops	_____	250	183	190
Work units on productive livestock	_____	371	275	269
Other work units	_____	34	25	21
(6) Number of family workers	_____	1.2	1.2	1.2
Number of hired workers	_____	.8	.5	.5
Total number of workers	_____	2.0	1.7	1.7
(7) Power expense per work unit	\$ _____	\$3.63	\$3.71	\$4.14
Crop machinery expense per work unit	_____	2.00	1.93	1.95
Livestock equip. expense per work unit	_____	.43	.45	.49
Bldgs. & fencing exp. per work unit	_____	1.36	1.66	2.18

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

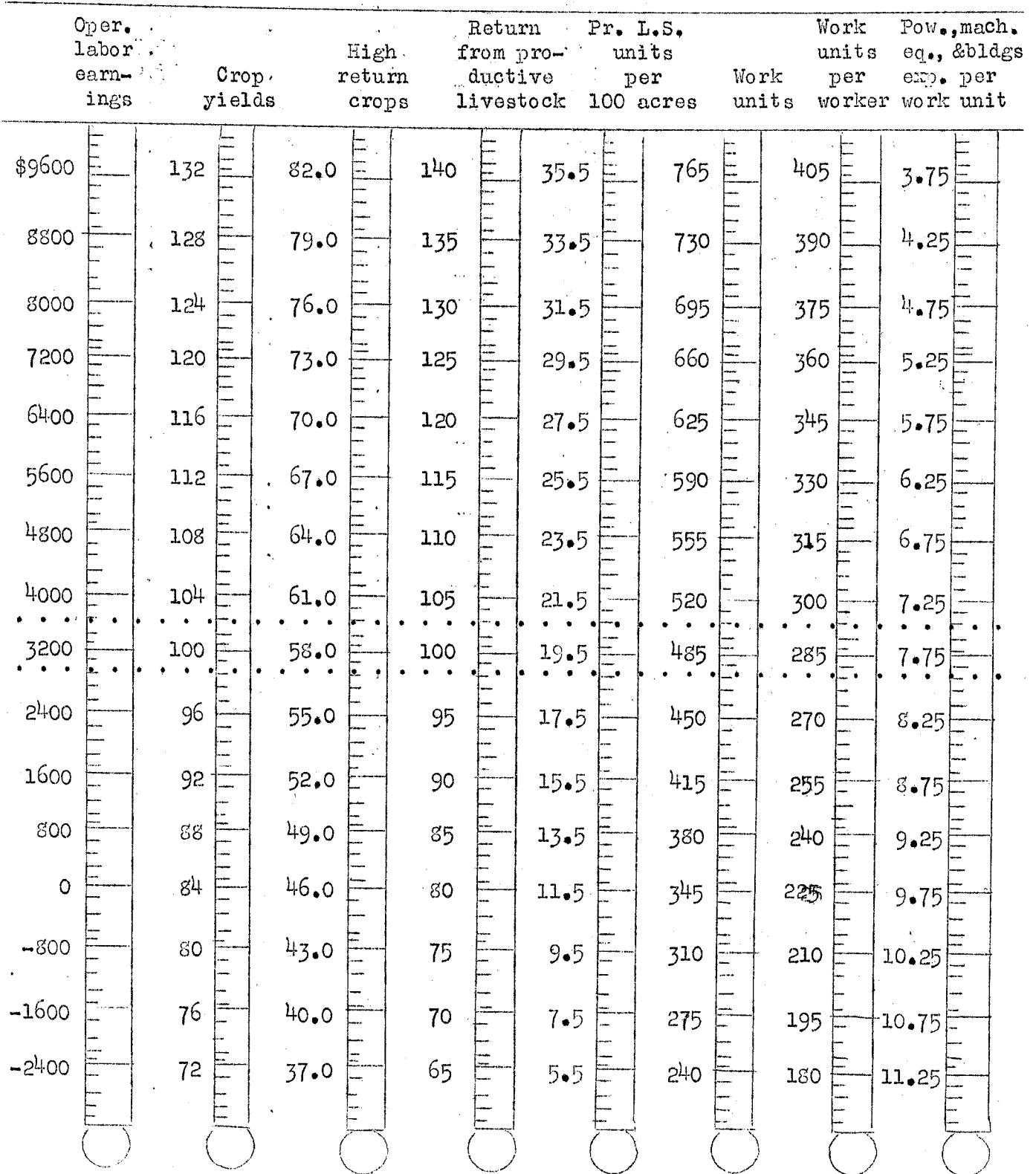


Table 11. Distribution of Acres in Farm, 1949

Crop: (A), (B), (C) and (D) refer to ranking used in calculating % of tillable land in High return Crops (see page 10)	No. growing This Crop	Your farm	26 most profitable farms	Average of 131 farms	26 least profitable farms
Canning peas (A)	5	—	.3	.6	1.3
Flax (C)	94	—	38.7	23.5	22.7
Barley (D)	36	—	12.7	8.8	10.7
Oats (C)	128	—	52.6	42.7	37.0
Wheat (D)	4	—	.3	.2	.2
Total small grain and peas	129	—	104.6	75.8	71.9
Hybrid seed corn, potatoes & truck crops (A)	6	—	.1	1.0	2.5
Corn grain (A)	130	—	118.8	84.9	86.7
Corn or sorghum silage (B)	62	—	5.0	4.2	4.3
Sweet corn (B)	4	—	.8	.5	.8
Soybeans for grain (B)	62	—	20.1	11.0	9.9
Corn or sorghum fodder (D)	5	—	—	.1	—
Total cultivated crops	131	—	144.8	101.7	104.2
Alfalfa hay (A)	95	—	18.1	14.0	14.2
Soybean hay (C)	5	—	—	.2	.4
Mixed legumes & non-legumes (C)	17	—	2.1	1.2	1.8
Legumes for seed (C)	5	—	2.3	.7	—
Timothy and/or brome hay & seed (D)	9	—	.5	.9	.4
Misc. hay and seed (D)	6	—	.5	.3	.3
Total tillable land in hay	117	—	23.5	17.3	17.1
Alfalfa and mixtures inc. alf. (A)	53	—	8.2	6.1	5.4
Other legumes and mixtures (C)	19	—	3.9	2.3	.7
Sudan grass and/or rape (C)	17	—	.6	.6	.2
Other tillable pasture (D)	38	—	5.9	4.5	3.1
Total tillable land in pasture	113	—	18.6	13.5	9.4
Tillable land not cropped (D)	6	—	2.5	.8	.1
Total tillable land	131	—	294.0	209.1	202.7
Wild or phalaris hay (non-tillable)	31	—	3.4	2.0	2.7
Non-tillable pasture	84	—	27.0	20.5	25.2
Roads, waste and timber		—	13.8	9.3	8.6
Farmstead		—	9.6	8.2	8.7
Total acres in farm		—	347.8	249.1	247.9
% land tillable		—	84.5	83.9	81.8
% tillable land in high return crops		—	58.9	58.3	59.2

Table 12. Crop Yields per Acre, 1949

Crop	Your farm	Average of farms growing each crop
Canning peas, value above seed cost, dollars	_____	\$58.46
Flax, bu.	_____	12.9
Barley, bu.	_____	24.4
Oats, bu.	_____	42.7
Wheat, bu.	_____	17.5
Corn grain, bu.	_____	49.1
Corn or sorghum silage, tons	_____	9.2
Sweet corn, tons	_____	3.3
Soybeans, bu.	_____	18.9
Corn or sorghum fodder, tons	_____	2.3
Alfalfa hay, tons	_____	2.0
Soybean hay, tons	_____	1.6
Mixed legume & non-legume hay, tons	_____	1.4
Legume seed, lbs.	_____	99.0
Timothy and/or brome hay, tons	_____	.9
Other annual hay, tons	_____	1.5
Wild hay, tons	_____	.8

Table 13. Average Price of Feeds, 1949

Item	Value	Item	Value
Earn corn, per bu.	\$1.02	Alfalfa hay, per ton	\$20.00
Oats, per bu.	.59	Red or alsike clov. hay, per ton	17.00
Barley, per bu.	.99	Soybean hay, per ton	17.00
Wheat, per bu.	2.00	Timothy, per ton	11.60
Bran, per cwt.	2.80	Wild hay, per ton	10.00
Linseed oilmeal, per cwt.	4.00	Corn fodder, per ton	9.00
Soybean oilmeal, per cwt.	4.05	Corn silage, per ton	6.00
Tankage, per cwt.	6.25	Pasture, per mo. per an. unit	1.40
		Skim milk, per cwt.	.34

Table 14. Feed Costs For Horses, 1949

Items	Your farm	Average of 58 farms
Feed per horse, lbs.:		
Grain	_____	426
Hay	_____	1258
Fodder & stover	_____	108
Feed Cost per horse:		
Grain	_____	\$8.31
Roughage	_____	9.92
Pasture	_____	5.84
Total feed cost	_____	24.07
Number of work horses	_____	2.3
Number of colts	_____	-

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

Items	Your farm	26 most profitable farms	Average of 131 farms	26 least profitable farms
Crop acres per farm	_____	276.3	196.8	195.9
Tractor and horse exp. per crop acre	_____	\$4.68	\$4.54	\$4.86
Crop & gen. mach. exp. per crop acre	_____	4.67	4.65	4.74

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

	Your farm	Average of 45 dairy herds	Average of 15 dual purpose herds
Pounds of butterfat per cow	_____	284	170
% fat test of milk	_____	3.7	3.7
Price rec. per lb. B.F. sold (cts.)	_____	73.3	66.4
As manufacturing cream (cts.)	_____	65.7	66.2
Other (cents)	_____	89.3	-
Feeds per cow, lbs.:			
Corn	_____	1700	1644
Small grain	_____	1080	693
Commercial feeds	_____	297	133
Legume hay	_____	3443	2532
Other hay	_____	954	568
Fodder and stover	_____	53	-
Total concentrates	_____	3077	2470
Total dry roughage	_____	4450	3100
Silage	_____	3978	5154
Total digestible nutrients*	_____	5266	4333
T.D.N. per lb. B.F.	_____	18.5	25.5
% T.D.N. that is protein	_____	14.1	12.9
Feed cost per cow:			
Concentrates	\$ _____	\$62.90	\$48.34
Roughages	_____	51.64	43.35
Pasture	_____	6.74	5.85
TOTAL FEED COSTS	\$ _____	\$121.28	\$97.54
Value of produce per cow:			
B.F. sales	\$ _____	\$192.23	\$100.24
Dairy produce used in house	_____	14.31	12.27
Milk to livestock	_____	14.80	9.29
Net increases in value of cows	_____	6.10	18.66
TOTAL VALUE PRODUCED	\$ _____	\$227.44	\$140.46
RETURNS ABOVE FEED COST PER COW	\$ _____	\$106.16	\$42.92
RETURNS FOR \$100 OF FEED	\$ _____	\$195	\$152
Feed cost per lb. B.F. (cts.)	_____	42.7	57.4
Number of cows**	_____	9.9	7.5

*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, 1949

Items	Your farm	Average of 43 dairy herds	Average of 13 dual purpose herds
Feeds per head, lbs.:			
Concentrates	_____	745	1440
Hay and fodder	_____	1567	574
Silage	_____	1516	1117
Skim milk	_____	922	173
Whole milk	_____	168	82
TOTAL FEED COSTS PER HEAD	\$ _____	\$43.32	\$39.86
Net inc. in value of other dairy cattle	_____	\$78.66	\$100.76
RETURNS ABOVE FEED COST PER HEAD	\$ _____	\$35.34	\$60.90
RETURNS FOR \$100 of FEED	\$ _____	\$182	\$352
Number of head of other dairy cattle	_____	11.0	13.5

Table 20. Feed Costs and Returns from All Dairy and Dual Purpose Cattle, 1949

Items	Your farm	Average of 45 dairy herds	Average of 15 dual purpose herds
Feeds per animal unit, lbs.:			
Concentrates	_____	2613	2659
Hay and fodder	_____	3853	2367
Silage	_____	3618	4466
TOTAL FEED COSTS PER ANIMAL UNIT	\$ _____	\$104.10	\$93.15
Value of produce per animal unit:			
Dairy products	\$ _____	\$144.08	\$76.76
Net incr. in value of dairy cattle	_____	53.59	76.69
TOTAL VALUE PRODUCED	\$ _____	\$197.67	\$153.45
RETURNS ABOVE FEED PER ANIMAL UNIT	\$ _____	\$93.57	\$60.30
RETURNS PER \$100 OF FEED	\$ _____	\$192	\$168
Animal units of dairy cattle	_____	15.3	13.6

*Some farmers having both a milking herd and a beef herd, used a beef bull, and included all the young stock in the beef herd.

Table 21. Feed Costs and Returns from Beef Cattle, 1949

Items	Your farm	Farms	Farms
		Highest in returns above feed	average lowest in returns above feed
Beef breeding herd: No. of farms:		15	30
Feeds per animal unit, lbs.:			
Concentrates		2093	1762
Legume hay		1521	1451
Other hay		531	634
Fodder and stover		155	101
Silage		3158	3261
Feed cost per animal unit:			
Concentrates	\$	\$40.70	\$33.96
Roughages		27.72	27.53
Milk*		.48	.28
Pasture		6.22	7.44
TOTAL FEED COSTS		75.12	69.21
Value of produce per animal unit:			
Dairy products	\$	\$26.16	\$15.77
Net increase in value of animals		129.66	103.95
TOTAL VALUE PRODUCED		155.82	119.72
RETURNS ABOVE FEED COST PER ANIMAL UNIT\$		\$80.70	\$50.51
RETURNS FOR \$100 OF FEED	\$	\$225	\$182
Number of cows and herd bulls		15.8	14.6
Number of animal units in the herd		27.2	25.0
Lbs. beef produced		14073	11306
Feeder cattle: No. of farms		12	50
Feeds per cwt. beef produced, lbs.:			
Corn		620	711
Small grain		25	31
Commercial feeds		56	51
Legume hay		127	150
Other hay		26	64
Fodder and stover		9	6
Total concentrates		701	793
Total hay and fodder		162	220
Silage		444	281
Feed cost per cwt. beef produced:			
Concentrates	\$	\$13.81	\$15.76
Roughages		2.79	2.70
Pasture		.58	.62
TOTAL FEED COSTS		\$17.18	\$19.08
Net increase in value of feeders		37.93	27.86
RETURNS ABOVE FEED COST PER CWT. BEEF PROD.		\$20.75	\$8.78
RETURNS FOR \$100 OF FEED	\$	\$222	\$159
Price recd. per cwt. beef sold	\$	\$26.50	\$24.50
Price pd. for feeder cattle bct.		23.23	20.91
No. of animal units		42.8	30.8
Pounds of beef produced		24799	17712

*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 a Farm Flock of Sheep, 1949

Items	Your farm	12 farms highest in returns above feed	Average of 24 farms	12 farms lowest in returns above feed
Feeds per head, *lbs.				
Concentrates	_____	88	106	124
Legume hay	_____	115	89	63
Other hay	_____	94	97	100
Fodder and stover	_____	39	20	-
Silage	_____	77	95	113
Feed cost per head:				
Concentrates	\$ _____	\$1.97	\$2.19	\$2.42
Roughages	_____	1.93	2.00	2.07
Pasture	_____	1.14	1.06	.98
TOTAL FEED COSTS	\$ _____	5.04	5.25	5.47
Value of produce per head:				
Wool	\$ _____	\$2.85	\$2.85	\$2.84
Net increase in value of sheep	_____	14.53	10.98	7.43
TOTAL VALUE PRODUCED	\$ _____	17.38	13.83	10.27
RETURNS ABOVE FEED COST PER HEAD	\$ _____	\$12.34	\$8.58	\$4.80
RETURNS FOR \$100 OF FEED	\$ _____	\$356	\$300	\$210
Price per cwt. of lambs sold	\$ _____	\$21.58	\$21.60	\$21.61
Price per lb. wool sold (cts.)	_____	42.3	41.5	40.7
Pounds of wool per sheep sheared	_____	8.3	8.4	8.5
Number of ewes kept for lambing	_____	26	29	33
% lamb crop**	_____	127	117	106
% death loss**	_____	7.9	8.8	9.7
Pounds of sheep produced	_____	2473	2707	2942
No. of head of sheep*	_____	40.9	43.5	46.1

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

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

Table 23. Feed Costs and Returns from Chickens, 1949

Items	Your farm	21 farms highest in return above feed	Average of 107 farms	21 farms lowest in return above feed
Feed per hen, lbs.:				
Grain	_____	98	103	137
Commercial feeds	_____	44	45	50
Total concentrates	_____	142	148	187
Skim milk and buttermilk	_____	3	4	5
TOTAL FEED COST PER HEN	\$ _____	\$3.67	\$3.94	\$4.79
Value of produce per hen:				
Eggs sold and used in house	_____	\$7.19	\$5.79	\$4.45
Net increase in value of chickens	_____	1.15	.59	.30
TOTAL VALUE PRODUCED	\$ _____	\$8.34	\$6.38	\$4.75
RETURNS ABOVE FEED COST PER HEN	\$ _____	\$4.67	\$2.44	\$-.04
RETURNS FOR \$100 OF FEED	\$ _____	\$242	\$176	\$99
Price rec'd. Per doz. eggs sold (cts.)	_____	39.9	39.4	39.6
Eggs laid per hen	_____	219	177	136
Ave. no. of hens on farm during the year	_____	274	223	194
% of hens that are pullets	_____	97	85	74
% death loss of hens	_____	7	11	14
Number of chicks started:				
Straight run	_____	433	263	190
Pullets	_____	209	174	199
Cockerels	_____	17	24	23
Lbs. chickens produced	_____	1922	1296	885

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 24.

Table 24. 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 25. Summary of Farm Earnings by Years

Items	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949
No. of farms	165	166	165	164	163	153	142	137	136	131
Total farm capital	\$32724	\$36613	\$37728	\$37602	\$36000	\$35876	\$36810	\$39671	\$44143	\$46452
Monthly charge for unpd. family lab.*	45	50	60	75	85	90	110	130	130	130
No. charge for board to hired lab.*	18	20	25	25	25	25	30	36	36	36
FARM EXPENSES										
Dairy and dual-pur. cattle bct.	\$ 76	\$ 138	\$ 141	\$ 135	\$ 112	\$ 118	\$ 237	\$ 135	\$ 170	\$ 214
Beef cattle bct. (incl. feeders)	1243	1766	1718	1187	1109	1390	1754	1916	2341	2733
Hogs bct.	103	209	339	408	315	377	382	646	389	441
Sheep bct. (incl. feeders)	414	686	866	694	321	600	464	301	97	365
Poultry bct. (incl. turkeys)	99	96	138	165	200	195	164	156	133	179
Horses bct.	32	32	49	33	43	15	14	14	11	2
Misc. livestock expense	72	109	148	199	173	194	198	270	273	304
Misc. crop expenses	243	303	377	507	582	575	750	1055	1112	851
Feed bought	1007	1718	2235	3080	2164	2416	2669	4014	3926	2929
Custom work hired	150	140	199	215	261	292	300	394	421	375
Power mach. (new)	379	446	256	180	337	200	449	847	1173	1116
Power mach. (upkeep)	411	497	533	617	699	817	963	1116	1277	1233
Crop and gen. mach. (new)	319	416	387	221	332	414	601	897	1328	1319
Crop and gen. mach. (upkeep)	69	84	135	157	174	195	258	290	368	310
Livestock equipment (new)	74	123	134	138	91	78	97	122	108	88
Livestock equipment (upkeep)	20	32	57	87	78	94	92	114	131	126
Buildings and fencing (new)	412	434	327	236	297	370	409	754	941	908
Buildings and fencing (upkeep)	88	141	156	168	192	219	268	311	413	384
Hired labor	392	561	622	739	651	636	723	796	944	872
Taxes	313	337	355	335	311	311	367	378	459	499
Insurance	15	32	35	40	41	41	49	61	71	56
General farm	59	55	60	72	80	84	108	112	140	146
Total farm purchases	5990	8355	9267	9613	8563	9631	11316	14699	16226	15450
Decrease in farm capital	-	-	-	-	412	-	-	-	-	-
Interest on farm capital	1635	1831	1886	1880	1800	1794	1841	1984	2207	2323
Unpaid family labor	252	288	360	335	316	322	363	422	421	356
Board furnished hired labor	131	171	143	147	118	83	105	116	127	102
Total farm exp.	\$8008	\$10645	\$11656	\$11975	\$11209	\$11830	\$13625	\$17221	\$18981	\$18231

*These adjustments should be considered in comparing 1949 results with previous years.

Table 25. Summary of Farm Earnings by years (continued)

Items	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949
FARM RECEIPTS										
Dairy and dual-purpose cattle	\$ 265	\$ 392	\$ 446	\$ 419	\$ 392	\$ 473	\$ 515	\$ 688	\$ 616	\$ 572
Dairy products	570	758	804	916	865	906	1083	1031	1046	874
Beef cattle (incl. feeders)	2373	3399	3860	3590	2478	3777	3711	4248	4508	4988
Hogs	1162	2306	4336	5630	4671	4484	6166	8662	8207	6358
Sheep and wool (incl. feeders)	470	1032	1402	968	768	926	834	766	421	308
Poultry (including turkeys)	372	396	598	622	829	659	620	444	418	485
Eggs	244	334	589	905	911	977	993	1043	1108	1052
Horses	42	41	47	45	47	27	24	28	25	12
Corn	516	477	625	724	578	587	814	1183	1498	1606
Small grain	849	1133	1120	1382	669	949	1446	2436	3818	1626
Other crops	239	283	366	510	600	673	878	911	1160	772
Machinery and equipment sold	249	278	133	137	185	251	363	383	355	470
Agri. adjustment payment	506	503	503	264	74	51	121	61	65	29
Income from work off the farm	193	196	163	137	183	295	343	344	306	277
Miscellaneous	394	176	166	185	197	48	67	83	124	66
Total farm sales	\$8444	\$11704	\$15158	\$16434	\$13447	\$15083	\$17978	\$22311	\$23675	\$19495
Increase in farm capital	1179	2618	2102	2	-	314	3223	5634	1542	1260
Family living from farm	483	538	584	588	572	635	679	667	702	649
Tot. farm rec.	\$10106	\$14860	\$17844	\$17024	\$14019	\$16032	\$21880	\$28612	\$25919	\$21404
Total farm expenses	8008	10645	11656	11975	11209	11830	13625	17221	18981	18231
Oper. lab. earn.	2098	4215	6188	5049	2810	4202	8255	11391	6938	3173
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	55.7	58.3
Livestock units per 100 A.	22.1	24.7	24.7	25.1	21.4	22.1	20.7	20.1	19.5	19.3
Work units	569	631	624	586	530	535	514	483	489	483
Work units per worker	263	264	281	279	279	297	286	284	272	284
Expenses per work unit	\$2.17	\$2.30	\$2.90	\$3.52	\$4.20	\$4.52	\$5.08	\$6.39	\$7.41	\$7.75
ACRES PER FARM	279	295	291	280	268	268	260	243	250	249
Crop acres per farm	213	223	219	212	191	203	200	186	197	197
YIELDS PER ACRE										
Flax, bu.	13.7	12.0	11.5	9.5	6.0	13.8	13.3	13.4	15.2	12.9
Barley bu.	42.3	29.6	24.0	10.7	18.8	44.3	33.4	28.9	39.3	24.4
Oats, bu.	60.1	26.4	44.8	34.3	36.3	51.8	42.1	42.0	53.0	42.7
Corn, grain bu.	46.2	55.9	57.4	39.6	49.6	33.5	53.1	40.4	63.1	49.1
Corn silage, ton	8.5	9.5	10.3	8.5	7.5	7.1	8.9	6.9	10.1	9.2
Alfalfa hay, ton	2.0	2.0	2.5	2.3	2.0	2.1	2.1	2.2	2.1	2.0

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

Table 26. Summary of Miscellaneous Items by Years

Items	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949
<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	\$106.16
Dual-purpose cow	26.49	39.13	54.28	41.21	46.01	61.28	94.26	58.91	65.54	49.92
Animal unit in beef breed. herd	18.20	25.06	35.53	18.54	12.20	24.00	42.12	53.27	62.42	50.51
100 lbs. feeder cattle prod.	2.92	3.99	3.64	1.43	3.56	7.38	8.59	9.10	10.49	8.78
Head of sheep in farm flock	3.27	5.96	5.61	3.37	3.00	4.86	10.97	6.71	9.90	8.58
100 lbs. feeder sheep prod.	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	4.37
Hen	.96	1.35	2.07	2.48	1.71	2.63	2.27	1.47	1.95	2.44
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	\$121.28
Dual-purpose cow	34.85	44.19	48.55	70.09	68.02	78.02	87.82	121.01	122.80	97.55
Animal unit in beef breed. herd	29.86	33.57	34.55	46.58	49.92	52.84	58.59	89.20	71.66	69.21
100 lbs. of feeder cattle prod.	8.00	9.21	13.27	17.25	15.06	15.62	18.03	29.24	26.34	19.08
Head of sheep in farm flock	2.60	2.76	3.01	4.14	3.78	4.33	4.74	6.81	6.95	5.25
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	11.05
Hen	1.11	1.50	2.15	3.17	3.46	3.53	3.95	4.99	4.99	3.94
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	24.07
<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	1.1
No. of colts	1.0	1.0	.7	.7	.6	.3	.2	.1	-	-
No. of dairy or dual-pur. cows	8.6	9.1	8.6	7.6	6.6	6.1	5.7	5.2	4.8	4.6
Head in beef breeding herd	9.0	9.4	9.9	10.7	13.5	10.8	10.7	8.0	9.0	8.3
Lbs. feeder cattle produced	8678	14087	10119	8483	5315	7695	6083	5717	7117	6768
Litters of pigs	13.6	16.9	20.1	25.4	16.7	19.4	18.1	19.5	20.2	20.3
Lbs. of hogs produced	21335	27550	34522	39596	29054	33994	34524	34163	35651	33129
No. of hens	161	173	196	223	230	215	210	200	200	185
<u>Lbs. of butterfat per:</u>										
Dairy cow	250	254	250	251	226	242	244	259	258	284
Dual purpose cow	179	190	190	182	172	182	191	185	172	170
No. of pigs weaned per litter	6.2	6.4	6.3	6.0	5.9	6.2	6.4	6.1	6.6	6.5
% lamb crop	110	110	109	105	94	99	108	110	111	117
Eggs per hen	113	117	135	146	157	163	174	170	170	177

Table 26. Summary of Miscellaneous Items by Years (continued)

Items	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949
<u>PRICE RECEIVED PER:</u>										
Lb. B.F. sold to creameries	\$.31	\$.37	\$.42	\$.53	\$.58	\$.62	\$.76	\$.76	\$.86	\$.66
100 lbs. feeder cattle	8.81	10.13	12.22	13.68	13.83	14.95	16.54	23.45	29.12	24.50
100 lbs. feeder sheep	8.74	10.08	12.47	14.52	15.32	15.91	18.44	24.76	29.23	-
Pound of wool	.29	.38	.41	.41	.41	.42	.43	.37	.42	.42
100 lbs. of hogs	5.15	9.07	13.13	13.80	13.12	14.27	17.17	24.66	23.29	18.29
Dozen eggs	.15	.21	.28	.35	.31	.35	.34	.38	.40	.39
Pounds of turkeys	.14	.18	.29	.32	.34	.32	.37	-	-	-
<u>PRICE OF FEED</u>										
Corn, bu.	\$.47	\$.54	\$.68	\$.91	\$.92	\$.86	\$1.14	\$1.54	\$1.64	\$1.02
Oats, bu.	.26	.32	.41	.60	.70	.64	.70	.90	.88	.59
Barley, bu.	.31	.39	.52	.77	.92	.94	1.22	1.80	1.59	.99
Alfalfa hay, ton	7.50	8.50	8.00	11.00	15.00	15.00	16.00	22.00	20.00	20.00
Timothy hay, ton	4.80	5.45	5.15	6.75	9.00	9.00	9.60	12.50	11.60	11.60
Corn silage, ton	2.10	2.55	2.75	3.62	5.00	5.00	5.50	8.00	5.85	6.00
Bran, cwt.	1.20	1.50	2.10	2.10	2.20	2.18	2.70	3.20	4.00	2.80
Linseed oilmeal, cwt.	1.75	2.00	2.40	2.55	2.85	2.88	3.30	4.25	4.55	4.00
Tankage, cwt.	2.50	3.20	4.10	4.00	4.18	4.10	5.10	6.75	6.45	6.25
Soybean meal, cwt.	1.70	2.10	2.75	2.80	3.15	3.00	3.80	4.80	5.10	4.05