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**1952 ANNUAL REPORT**  
**SOUTHWESTERN MINNESOTA**  
**FARM MANAGEMENT SERVICE**

UNIVERSITY OF MINNESOTA

Institute 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

- - - 0 - - -

Report No. 207  
Department of Agricultural Economics  
Institute of Agriculture  
St. Paul 1, Minnesota  
April, 1953

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# 1952 ANNUAL REPORT OF THE SOUTHWEST MINNESOTA FARM MANAGEMENT SERVICE

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

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## INTRODUCTION

The Department of Agricultural Economics and the Agricultural Extension Service 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 Department 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 of the Agricultural Extension Service. David S. Johnson was the field agent for this project until April 1 and was followed by Harlund Routhe on August 1. At the end of the year, S. A. Eugene, Niels Rorholm and R. B. Zoller of the Department of Agricultural Economics aided in closing

the records. County agricultural extension agents who cooperate in this project include H. J. Vossen, Fred Geisler, Raymond W. Palmby, Milton Brown, R. J. Clifford, A. B. Hagen, Ross Huntsinger, J. I. Swedberg, Howard Newell, Gregory D. Luehr, and John Ankeny.

The officers for the Southwest Farm Management Association of 1952 were:  
President: Delmar Soderholm, Reading, Nobles county  
Vice-president: Jacob Sells, Beaver Creek, Rock county  
Secretary-Treasurer: Arthur Foster, Garvin, Murray county

The board of directors include these officers and also the following: Walter Schmotzer, Cottonwood county; Orval Paschke, Faribault county; George Rentschler and Steve Rubis, Jackson county; Donald Jensen, Martin county; Handley Richardson, Murray county; Walter Strom and Kenneth Hansberger, Nobles county; and Anton Johnson and Leonard Larson, Redwood county.

The following tabulation shows by counties the number of members who completed records in 1952.

Cottonwood	4	Martin	7	Redwood	21
Faribault	15	Murray	19	Rock	6
Jackson	18	Nobles	40	Watonwan	<u>3</u>
				Total	133

In the tables on page 3 and succeeding pages are shown data for 118 farms. Eleven 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.

The operator's labor earnings were approximately \$1,000 less in 1952 than in 1951. Part of this decrease is due to the lower value of beef cattle and sheep on the ending inventory as compared to the beginning. This fact is reflected in tables 1 to 3 and table 9. The data in these tables show that some farmers with rather large beef cattle enterprises were in the low earnings group.

The data in table 9 illustrates the importance of efficiency of operation. The one-fifth of the farms lowest in earnings maintained an average of 96 animal units; their return per \$100 of feed consumed was 90 per cent of the average. The one-fifth of the farms highest in earnings maintained approximately the same total number of animal units. Their return per \$100 of feed consumed, however, was 10 per cent above the average. A large size of business when efficiently operated is a profitable one under most circumstances. However, under adverse price conditions or when inefficiently operated a large business may produce low earnings.

Table 1. Summary of Farm Inventories, 1952\*

Items	Your farm		Average of 118 farms	
	Jan. 1	Dec. 31	Jan. 1	Dec. 31
Size of farm (acres)			260	
Size of business (work units)**			515	
Dairy and dual purpose cows			\$ 831	\$ 941
Other dairy & dual purpose cattle			727	667
Beef cattle (incl. feeders)			7,182	6,929
Hogs			3,188	2,544
Sheep (including feeders)			937	650
Poultry (including turkeys)			249	271
Productive livestock (total)			13,114	12,002
Horses			39	29
Crop, seed and feed			6,255	8,219
Power mach. (farm share)			3,479	3,383
Crop and general machinery			4,366	4,401
Livestock equipment and supplies			630	629
Machinery & equipment (total)			8,475	8,413
Buildings, fences, etc.			10,784	11,220
Land			18,807	18,807
Total farm capital			57,474	58,690

Items	24 most profitable farms		24 least profitable	
	Jan. 1	Dec. 31	Jan. 1	Dec. 31
Size of farm (acres)	348		256	
Size of business (work units)**	645		544	
Dairy and dual purpose cows	\$ 997	\$1,016	\$ 950	\$1,080
Other dairy & dual purpose cattle	663	768	885	744
Beef cattle (incl. feeders)	7,279	7,279	11,831	11,207
Hogs	4,189	3,789	4,433	2,699
Sheep (including feeders)	309	401	1,833	937
Poultry (including turkeys)	246	271	229	377
Productive livestock (total)	13,683	13,524	20,161	17,044
Horses	27	16	48	33
Crop, seed, and feed	8,333	12,057	6,590	7,251
Power mach. (farm share)	4,151	4,118	4,185	4,086
Crop & general machinery	5,206	5,174	4,971	4,840
Livestock equipment and supplies	584	610	849	769
Machinery & equipment (total)	9,941	9,902	10,005	9,695
Buildings, fences, etc.	10,758	11,022	12,744	13,567
Land	20,298	20,298	21,590	21,590
Total farm capital	63,040	66,819	71,138	69,180

\* For the purpose of comparison, all the data shown in this report with the exception of tables 4 and 5 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 2. Summary of Farm Earnings (Cash Statement), 1952

Items	Your farm	Average of 118 farms	24 most profitable farms	24 least profitable farms
<b>FARM RECEIPTS</b>				
Dairy and dual-purpose cows	_____	\$ 290	\$ 271	\$ 220
Dairy products	_____	1,124	1,266	1,216
Other dairy and dual-purpose cattle	_____	475	359	494
Beef cattle (including feeders)	_____	8,115	11,490	12,598
Hogs	_____	7,322	10,961	8,211
Sheep and wool (including feeders)	_____	1,057	334	2,747
Poultry (including turkeys)	_____	184	191	109
Eggs	_____	875	983	724
Horses	_____	12	11	15
Corn	_____	1,245	1,847	685
Small grain	_____	1,217	1,705	1,229
Other crops	_____	981	1,833	712
Machinery and equipment sold	_____	378	563	402
Agricultural adjustment payments	_____	70	89	56
Income from work off the farm	_____	341	272	242
Miscellaneous	_____	154	157	101
(1) Total farm sales	_____	23,840	32,332	29,761
(2) Increase in farm capital	_____	1,216	3,779	-
(3) Family living from the farm	_____	748	803	789
(4) Total farm receipts (1)+(2)+(3)	_____	25,804	36,914	30,550
<b>FARM EXPENSES</b>				
Dairy and dual-purpose cows bought	_____	\$ 112	\$ 24	\$ 173
Other dairy & dual-pur. cattle bought	_____	152	156	125
Beef cattle bought (incl. feeders)	_____	4,461	7,201	6,937
Hogs bought	_____	361	267	489
Sheep bought (incl. feeders)	_____	569	234	1,471
Poultry bought (incl. turkeys)	_____	122	121	101
Horses bought	_____	4	-	9
Misc. livestock expense	_____	369	472	445
Misc. crop expenses	_____	1,079	1,718	1,103
Feed bought	_____	4,318	5,817	6,002
Custom work hired	_____	439	511	510
Mech. power mach. (farm share)(new)	_____	610	861	767
Mech. power mach. (farm share)(upkp.)	_____	321	399	349
Mech. power (F. share)(gas, oil, etc.)	_____	1,117	1,327	1,323
Crop and general machinery (new)	_____	871	891	817
Crop and general machinery (upkeep)	_____	323	408	451
Livestock equipment (new)	_____	124	138	95
Livestock equipment (upkeep)	_____	121	158	178
Buildings and fencing (new)	_____	1,023	850	1,542
Buildings and fencing (upkeep)	_____	331	278	443
Hired labor	_____	835	920	1,276
Taxes	_____	627	749	666
General farm and insurance	_____	249	285	271
(5) Total farm purchases	_____	18,538	23,785	25,543
(6) Decrease in farm capital	_____	-	-	1,958
(7) Interest on farm capital	_____	2,904	3,246	3,508
(8) Unpaid family labor	_____	335	436	252
(9) Board furnished hired labor	_____	91	110	118
(10) Total farm exp. (sum of (5) to (8))	_____	21,868	27,577	31,379
(11) Oper. labor earnings (4)-(10)	_____	3,936	9,337	-829

Table 3. Summary of Farm Earnings (Enterprise Statement) 1952\*

Items	Your farm	Average of 118 farms	24 most profitable farms	24 least profitable farms
<b><u>RETURNS AND NET INCREASES</u></b>				
Dairy and dual-purpose cows	_____	\$1,214	\$1,314	\$1,268
Other dairy & dual-pur. cattle	_____	583	712	546
Beef breeding herd	_____	755	186	910
Feeder cattle	_____	2,807	4,256	4,208
Hogs	_____	6,392	10,390	6,061
Sheep-farm flock	_____	116	186	197
Sheep-feeders	_____	86	6	186
Turkeys and geese	_____	1	-	3
Chickens	_____	1,038	1,178	949
All productive livestock	_____	12,992	18,228	14,328
Crops, seed, and feed	_____	- 2	-1,582	-3,826
Agricultural conservation payments	_____	70	89	56
Income from labor off the farm	_____	142	135	91
Miscellaneous	_____	374	341	353
(1) Total returns & net increases	_____	13,576	20,375	11,002
<b><u>EXPENSES AND NET DECREASES</u></b>				
Horses	\$ _____	\$ 17	\$ 16	\$ 16
Tractor	_____	990	1,287	1,178
Truck	_____	283	337	455
Auto (farm share)	_____	428	449	399
Elec. & gas engine exp. (F. share)	_____	152	138	188
Hired power	_____	162	186	216
Total power	_____	2,032	2,413	2,452
Crop and general machinery	_____	1,034	1,224	1,320
Livestock equipment	_____	234	266	329
Buildings, fencing, and tiling	_____	802	772	1,032
Misc. productive livestock exp.	_____	368	472	446
Labor	_____	1,390	1,611	1,807
Real estate taxes	_____	485	600	483
Personal property tax	_____	142	149	183
Insurance	_____	87	102	111
General farm	_____	162	183	160
Interest on farm capital	_____	2,904	3,246	3,508
(2) Total expenses & net decreases	_____	9,640	11,038	11,831
(3) Oper. labor earnings (1)-(2)	_____	3,936	9,337	-829

\* 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 4. Net Worth Statement for Those Farmers Who Kept a Complete Record of All Assets and Liabilities, 1952 (Operator's Share)

Items	Your farm		26 Owners	
	Jan. 1	Dec. 31	Jan. 1	Dec. 31
Total acres in farm			226	
Owned			226	
Rented			-	
Total farm capital			\$53,284	\$54,965
Accounts receivable			1,980	1,915
Stocks and bonds			2,755	2,329
Life insurance			1,417	1,559
Outside real estate			2,150	2,098
Other outside investments			526	560
Total outside investments			6,848	6,546
Cash on hand and in bank			1,840	2,036
Other household & personal assets			2,278	2,302
Total cash, household & personal assets			4,118	4,338
<b>TOTAL ASSETS</b>			66,230	67,764
Federal Land Bank Mortgage			1,908	2,824
Other mortg. on land operated			5,207	5,256
Production Credit Association			2,588	2,401
Crop loans			285	630
Other chattel mortgages			1,399	1,463
Notes payable			2,625	2,584
Accounts payable			331	369
<b>TOTAL LIABILITIES</b>			14,343	15,527
Farmer's net worth			51,887	52,237
Gain in net worth				+ 350

Items	16 Part Owners*		25 Renters**	
	Jan. 1	Dec. 31	Jan. 1	Dec. 31
Total acres in farm	235		245	
Owned	138		-	
Rented	97		245	
Total farm capital	\$44,081	\$46,015	\$19,901	\$21,352
Accounts receivable	94	45	746	554
Stocks and bonds	1,054	1,023	2,304	2,392
Life insurance	987	1,034	1,009	1,043
Outside real estate	863	863	34	34
Other outside investments	315	358	249	270
Total outside investments	3,219	3,278	3,596	3,739
Cash on hand and in bank	462	674	1,085	852
Other household and personal assets	2,277	2,299	2,932	3,016
Total cash, household and personal assets	2,739	2,973	4,017	3,868
<b>TOTAL ASSETS</b>	50,133	52,311	28,260	29,513
Federal Land Bank Mortgage	2,125	2,090	-	-
Other mortgages on land operated	3,383	3,298	-	-
Production Credit Association	2,985	536	583	616
Crop loans	150	636	-	390
Other chattel mortgages	1,556	1,616	1,396	1,532
Notes payable	2,336	4,484	1,096	1,266
Accounts payable	554	669	399	345
<b>TOTAL LIABILITIES</b>	13,089	13,329	3,474	4,149
Farmer's net worth	37,044	38,982	24,786	25,364
Gain in net worth		+1,938		+ 578

\* 6 rented for cash, 8 cash and crop share and 2 crop share.

\*\* 3 rented for cash, 13 cash and crop share, 1 crop share and 8 livestock share.



Table 5. Summary of Farm Earnings by Tenure, 1952 (Operator's Share)

Items	Your farm	26 owners	16 part owners	25 renters
<b>FARM RECEIPTS</b>				
Dairy and dual-purpose cows		\$ 360	\$ 205	\$ 245
Dairy products		1,127	1,118	1,446
Other dairy and dual-purpose cattle		498	248	631
Beef cattle (including feeders)		9,506	7,142	1,793
Hogs		6,488	7,098	6,244
Sheep and wool (including feeders)		1,484	459	223
Poultry (including turkeys)		171	233	296
Eggs		1,047	945	782
Horses		12	18	4
Corn		982	897	512
Small grain		1,182	565	489
Other crops		776	1,035	497
Machinery and equipment sold		346	323	516
Agricultural adjustment payments		77	65	55
Income from work off the farm		241	207	409
Miscellaneous		205	171	77
(1) Total farm sales		24,502	20,729	14,219
(2) Increase in farm capital		1,681	1,934	1,451
(3) Family living from the farm		721	889	658
(4) Total farm receipts (1)+(2)+(3)		26,904	23,552	16,328
<b>FARM EXPENSES</b>				
Dairy and dual-purpose cows bought		\$ 67	\$ 91	\$ 104
Other dairy & dual-purpose cattle bought		77	111	374
Beef cattle bought (incl. feeders)		6,153	3,643	784
Hogs bought		295	331	339
Sheep bought (including feeders)		803	743	10
Poultry bought (including turkeys)		122	129	152
Horses bought		-	16	-
Miscellaneous livestock expenses		323	567	345
Miscellaneous crop expenses		1,077	845	960
Feed bought		4,417	3,863	3,620
Custom work hired		363	507	419
Mech. power mach. (farm share)(new)		430	830	757
Mech. power mach. (farm share)(upkp.)		335	371	302
Mech. power (f. share)(gas, oil, etc.)		1,021	954	913
Crop and general mach. (new)		819	781	865
Crop and general mach. (upkeep)		261	244	227
Livestock equipment (new)		87	53	201
Livestock equipment (upkeep)		88	165	103
Land, buildings and fencing (new)		1,406	1,252	34
Buildings and fencing (upkeep)		370	337	89
Hired labor		899	786	652
Taxes (real estate & personal property)		566	403	103
General farm and insurance		297	250	197
Cash rent		-	513	503
Interest paid		686	553	175
(5) Total farm purchases		20,962	18,338	12,228
(6) Decrease in farm capital		-	-	-
(7) Interest on farm capital		2,020	1,699	856
(8) Unpaid family labor		316	260	274
(9) Board furnished hired labor		62	84	74
(10) Total farm exp. (sum of (5) to (9))		23,360	20,381	13,432
(11) Operator's labor earnings (4)-(10)		3,544	3,171	2,896
(12) Ret. Cap. & fam. lab. (7)+(8)+(11)		5,880	5,130	4,026

Table 6. Household and Personal Expenses and Receipts for Those Farms Which Kept Complete Accounts of These Expenses, 1952

Items	Your farm	Average of 51 farms	10 most profitable farms	10 least profitable farms
Number of persons in family	_____	4.3	4.7	4.0
Number of adult equivalents in family	_____	3.1	3.2	3.0
Number of other adult equivalents*	_____	.2	.2	.4
<b>EXPENSES</b>				
Food and meals bought	\$ _____	\$789	\$748	\$744
Operating and supplies	_____	292	308	396
Clothing and clothing materials	_____	310	290	310
Personal care, personal spending	_____	102	49	110
Furnishings and equipment	_____	174	136	141
Education, recreation and development	_____	176	119	159
Medical care and health insurance	_____	285	306	509
Church, welfare, gifts	_____	321	285	252
Personal share of auto expense	_____	147	133	180
Household share of elect. & gas eg. exp.	_____	81	86	103
H.H. & Pers. shr. of new auto, gas eg. & mot. bot.	_____	17	36	47
Total cash living expenses	_____	2,694	2,496	2,951
State and federal income tax**	_____	438	514	428
Insurance	_____	329	568	280
Total household and pers. cash exp.	_____	3,461	3,578	3,659
Food and fuel furnished by the farm	_____	432	466	426
House rental	_____	297	155	372
Total cash expenses and perquisites	_____	4,190	4,199	4,457
Pur. of stocks, bonds, and other invest.	_____	71	28	6
<b>RECEIPTS</b>				
Income from outside investments	_____	\$308	\$409	\$ 64
Miscellaneous income	_____	130	124	270
Return to capital and family labor	_____	4,638	7,599	2,219

\* Hired help or others boarded

\*\* Tax paid in 1952 on income earned during 1951

Table 7. Family Living from the Farm, 1952

Items	Your farm	Average of 118 farms	Your farm	Average of 118 farms
No. of adult equivalents:				
Family	_____	3.2	_____	
Other *	_____	.2	_____	
Whole milk	_____	687 qts.	_____	\$ 47.92
Skim milk	_____	82 qts.	_____	1.91
Cream	_____	68 pts.	_____	14.20
Farm made butter	_____	2 lbs.	_____	1.61
Cattle	_____	563 lbs.	_____	145.69
Hogs	_____	446 lbs.	_____	75.54
Sheep	_____	5 lbs.	_____	1.34
Poultry	_____	123 lbs.	_____	25.79
Eggs	_____	154 doz.	_____	52.86
Potatoes	_____	3 bus.	_____	7.44
Vegetables & fruits	_____		_____	35.20
Farm fuel	_____		_____	1.56
Rental value of house	_____		_____	336.76
Total	_____		_____	\$747.82

\* 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 accomplishments per worker, and (7) control over expenses. The combined or cumulative influence of these seven management factors on earnings is shown in table 8. The farmer's earnings are determined to a considerable extent by his accomplishments in these seven factors.

Table 8. 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	18	_____	XXXXXXXXXXXXXXXXXXXX	\$ 2,544
2 or 3	48	_____	XXXXXXXXXXXXXXXXXXXX	3,507
4 or 5	42	_____	XXXXXXXXXXXXXXXXXXXX	4,685
6 or 7	14	_____	XXXXXXXXXXXXXXXXXXXX	4,846

The array in table 8 indicates that it will be worth while for each co-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 9. Measures of Farm Organization and Management Efficiency, 1952

Measures used in chart on page 11	Your farm	Average of 118 farms	24 most profit- able farms	24 least profit- able farms
Operator's labor earnings	\$ _____	\$3,936	\$9,337	\$ -829
(1) Crop yields*	_____	100	102	98
(2) Per cent tillable land in high ret. crops**	_____	60.9	57.9	61.6
(3) Ret. for \$100 feed to prod. livestock***	_____	100	110	90
(4) Prod. livestock units per 100 acres****	_____	33.2	31.0	42.4
(5) Size of business - work units	_____	515	645	544
(6) Work units per worker	_____	322	379	286
(7) Pow., mach., equip., & bldg. exp. per work unit	\$ _____	\$ 8.29	\$ 7.39	\$ 10.28
Items related to some of the above measures:				
(3) Index of return for \$100 feed from:				
Dairy cattle (see pages 16 & 17)	_____	100	107	105
Dual-purpose cattle (see pp. 16 & 17)	_____	100	134	-
Beef cattle - breeding herd (see p.15)	_____	100	-	103
Beef cattle - feeders (see page 15)	_____	100	117	77
Hogs (see page 14)	_____	100	116	93
Sheep - farm flock (see page 18)	_____	100	91	184
Sheep - feeders (see page 18)	_____	100	-	-
Turkeys	_____	100	-	-
Chickens (see page 19)	_____	100	106	98
(4) Number of animal units	_____	74.2	92.0	95.9
(5) Work units on crops	_____	186	246	179
Work units on productive livestock	_____	310	380	354
Other work units	_____	19	19	11
(6) Number of family workers	_____	1.2	1.3	1.2
Number of hired workers	_____	.4	.4	.7
Total number of workers	_____	1.6	1.7	1.9
(7) Power expense per work unit	\$ _____	\$4.13	\$3.91	\$4.96
Crop machinery expense per work unit	_____	2.08	1.92	2.68
Livestock equip. expense per work unit	_____	.45	.41	.58
Bldgs. & fencing exp. per work unit	_____	1.63	1.15	2.06

\* Given as a percentage of the average.

\*\* Crops are marked in table 10 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.

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

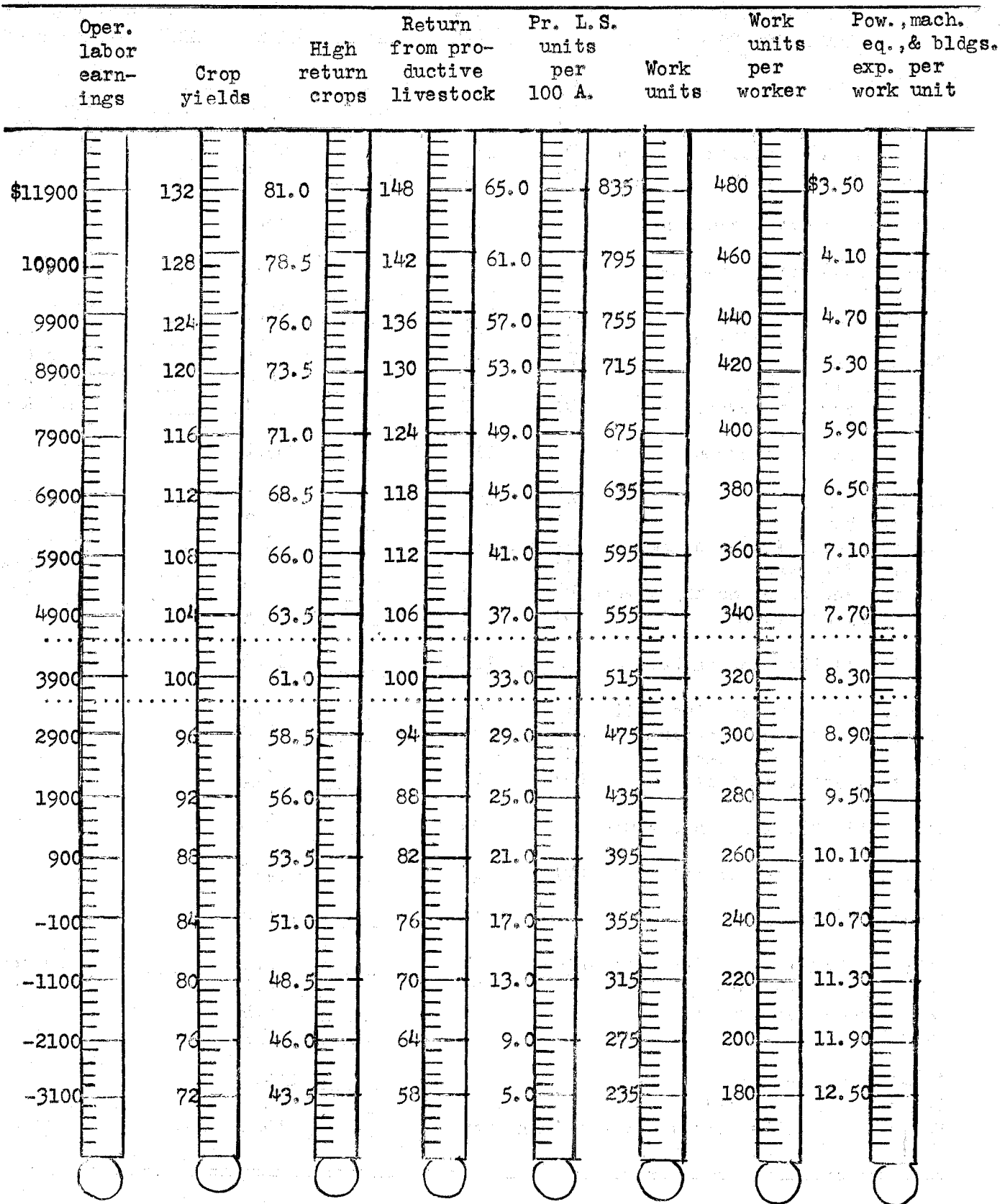


Table 10. Distribution of Acres in Farm and Yield of Crops, 1952

Crop: (A), (B), (C), and (D) refer to ranking used in calculating per cent of tillable land in high return crops (see page 10)	No. growing this crop	Acres in farm		Crop Yields per acre	
		Your farm	Average of 118 farms	Your farm	Average of farms growing each crop
Canning peas (A)	2	—	.4	—	\$25.55
Flax (C)	45	—	12.7	—	13.8 bu.
Barley (D)	21	—	4.5	—	28.9 bu.
Oats and oat mixtures (D)	115	—	50.0	—	44.0 bu.
Wheat, rye or millet (D)	8	—	.5	—	
<b>Total small grain and peas</b>	<b>117</b>	<b>—</b>	<b>68.1</b>	<b>—</b>	
Hybrid seed corn, potatoes & truck crops (A)	4	—	.2	—	
Corn grain (A)	116	—	84.8	—	58.9 bu.
Corn or sorghum silage (B)	61	—	5.6	—	9.5 tons
Sweet corn (B)	3	—	.5	—	4.2 tons
Soybeans for grain (B)	56	—	14.0	—	18.4 bu.
Corn or sorghum fodder (D)	2	—	.1	—	3.5 tons
<b>Total cultivated crops</b>	<b>118</b>	<b>—</b>	<b>105.2</b>	<b>—</b>	
Alfalfa hay (A)	102	—	21.2	—	2.6 tons
Soybean hay (C)	2	—	.3	—	
Mixed legumes & non-legumes (C)	29	—	3.2	—	1.8 tons
Legumes for seed (C)	6	—	.2	—	83 lbs.
Timothy and/or brome hay & seed (D)	6	—	.3	—	1.5 tons
Misc. hay and seed (D)	2	—	.4	—	
<b>Total tillable land in hay</b>	<b>112</b>	<b>—</b>	<b>25.6</b>	<b>—</b>	
Alfalfa and mixtures inc. alf. (A)	63	—	8.3	—	
Other legumes and mixtures (C)	26	—	4.0	—	
Sudan grass and/or rape (C)	7	—	.3	—	
Other tillable pasture (D)	20	—	2.2	—	
<b>Total tillable land in pasture</b>	<b>90</b>	<b>—</b>	<b>14.8</b>	<b>—</b>	
<b>Tillable land not cropped (D)</b>	<b>13</b>	<b>—</b>	<b>1.7</b>	<b>—</b>	
<b>Total tillable land</b>	<b>118</b>	<b>—</b>	<b>215.4</b>	<b>—</b>	
Wild or phalaris hay (non-tillable)	27	—	2.2	—	.9 tons
Non-tillable pasture	75	—	24.3	—	
Roads, waste and timber		—	8.9	—	
Farmstead		—	8.7	—	
<b>Total acres in farm</b>		<b>—</b>	<b>259.5</b>	<b>—</b>	
<b>Per cent land tillable</b>		<b>—</b>	<b>83.0</b>	<b>—</b>	
<b>Per cent tillable land in high return crops</b>		<b>—</b>	<b>60.1</b>	<b>—</b>	

Table 11. Average Price of Feeds, 1952

Item	Value	Item	Value
Ear corn, per bu.	\$1.34	Alfalfa hay, per ton	\$17.00
Oats, per bu.	.76	Red or alsike clov. hay, per ton	14.50
Barley, per bu.	1.21	Soybean hay, per ton	14.50
Wheat, per bu.	2.12	Timothy, per ton	9.80
Bran, per cwt.	3.45	Wild hay, per ton	8.50
Linseed oilmeal, per cwt.	4.85	Corn fodder, per ton	7.60
Soybean oilmeal, per cwt.	5.60	Corn silage, per ton	5.75
Meat scraps, per cwt.	6.50	Pasture, per mo. per cow	2.50
		Skim milk, per cwt.	.37

Table 12. Power and Machinery Expenses Per Crop Acre, 1952

Items	Your farm	Average of 118 farms	24 most profitable farms	24 least profitable farms
Crop acres per farm	_____	201.1	274.2	191.8
Tractor and horse exp. per crop acre	_____	\$ 5.11	\$ 4.79	\$ 6.66
Crop & gen. mach. exp. per crop acre	_____	5.31	4.52	7.12

**TOTAL FEED COSTS AND RETURNS FROM YOUR LIVESTOCK ENTERPRISES**

The total "return over feed costs" for each class of livestock is shown in Table 14. 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 per cent of the total costs of maintaining dairy cattle and poultry, 50 per cent in the case of a farm flock of sheep and 75 to 90 per cent for hogs, feeder cattle and feeder lambs. Consequently, it is necessary to secure a relatively higher return over feed from dairy cattle and poultry than from the other livestock enterprises in order to be able to cover all the costs other than feed.





Table 15. Feed Costs and Returns from Beef Cattle, 1952

Items	Your farm	Average of all farms	Farms highest in returns above feed	Farms lowest in returns above feed
<b>Beef breeding herd: No. of farms:</b>		32	11	11
<b>Feeds per animal unit, lbs.:</b>				
Concentrates	_____	2,076	2,243	1,538
Legume	_____	2,721	2,662	2,808
Other hay	_____	843	901	705
Fodder and stover	_____	68	76	-
Silage	_____	5,664	4,730	8,409
<b>Feed cost per animal unit:</b>				
Concentrates	\$ _____	\$52.89	\$56.25	\$38.72
Roughages	_____	42.04	39.94	48.12
Pasture	_____	17.11	16.70	17.43
<b>TOTAL FEED COSTS</b>	_____	112.04	112.89	104.27
<b>Value of produce per animal unit:</b>				
Dairy products	\$ _____	\$12.69	\$17.02	-
Net increase in value of animals	_____	129.72	218.00	49.31
<b>TOTAL VALUE PRODUCED</b>	_____	142.41	235.02	49.31
<b>RETURNS ABOVE FEED COST PER ANIMAL UNITS</b>	\$ _____	\$30.37	\$122.13	\$-54.96
<b>RETURNS FOR \$100 OF FEED</b>	\$ _____	\$ 138	\$ 235	\$ 54
Number of cows and herd bulls	_____	17.3	16.5	15.8
Number of other beef cattle	_____	24.6	25.3	22.4
Number of animal units in the herd	_____	21.3	20.8	19.4
Lbs. beef produced	_____	13,186	14,862	10,379
<b>Feeder Cattle: No. of farms</b>		48	16	16
<b>Feeds per cwt. beef produced, lbs.:</b>				
Corn	_____	626	512	802
Small grain	_____	50	54	21
Commercial feeds	_____	52	49	61
Legume hay	_____	314	216	465
Other hay	_____	70	88	28
<b>Total concentrates</b>	_____	728	615	884
<b>Total hay and fodder</b>	_____	384	304	493
<b>Silage</b>	_____	627	412	988
<b>Feed cost per cwt. beef produced:</b>				
Concentrates	\$ _____	\$18.93	\$15.95	\$23.03
Roughages	_____	4.78	3.46	6.86
Pasture	_____	1.30	1.28	1.37
<b>TOTAL FEED COSTS</b>	_____	25.01	20.69	31.26
Net increase in value of feeders	_____	22.56	26.55	17.98
<b>RETURNS ABOVE FEED COST PER CWT. BEEF PROD.</b>	_____	-2.45	5.86	-13.28
<b>RETURNS FOR \$100 OF FEED</b>	\$ _____	\$ 97	\$ 136	\$ 56
Price recd. per cwt. beef sold	\$ _____	\$30.16	\$31.33	\$28.30
Price paid for feeder cattle bought	_____	27.35	27.27	26.07
Number of animal units	_____	54.1	60.6	43.7
Pounds of beef produced	_____	29,850	34,966	22,373

Table 16. Factors of Cost and Returns from Dairy and Dual-Purpose Cows, 1952

Items	Your farm	Average of 37 dairy herds	Average of 11 dual-purpose herds
Pounds of butterfat per cow	_____	282	171
Price rec. per lb. B.F. sold (cts.)	_____	90.2	81.2
As manufacturing cream (cts.)	_____	79.7	80.3
Other (cents)	_____	105.1	-
Feeds per cow, lbs.:			
Corn	_____	1,757	1,357
Small grain	_____	887	490
Commercial feeds	_____	339	59
Legume hay	_____	4,160	4,088
Other hay	_____	410	560
Fodder and stover	_____	-	-
Total concentrates	_____	2,983	1,906
Total dry roughage	_____	4,570	4,648
Silage	_____	6,075	6,521
Feed cost per cow:			
Concentrates	\$ _____	\$80.98	\$47.06
Roughages	_____	54.64	55.90
Pasture	_____	12.49	11.60
TOTAL FEED COSTS	\$ _____	148.11	114.56
Value of produce per cow:			
B.F. sales	\$ _____	\$240.38	\$124.46
Dairy produce used in house	_____	13.74	13.93
Milk to livestock	_____	17.15	11.45
Net increases in value of cows	_____	-5.48	5.94
TOTAL VALUE PRODUCED	_____	265.79	155.78
RETURNS ABOVE FEED COST PER COW	\$ _____	117.68	41.22
RETURNS FOR \$100 OF FEED	\$ _____	\$ 190	\$ 147
Feed cost per lb. B.F. (cts.)	_____	52.5	67.0
Number of cows*	_____	11.3	7.1

\* 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 and Dual-Purpose Cattle, 1952

Items	Your farm	Average of 34 dairy herds*	Average of 10 dual-purpose herds*
Feeds per head, lbs.:			
Concentrates	_____	752	973
Hay and fodder	_____	1,478	1,310
Silage	_____	1,982	1,522
Skim milk	_____	407	263
Whole milk	_____	196	84
TOTAL FEED COSTS PER HEAD	\$ _____	\$48.72	\$47.22
Net inc. in value of other dairy cattle	_____	85.54	79.25
RETURNS ABOVE FEED COST PER HEAD	\$ _____	36.82	32.03
RETURNS FOR \$100 OF FEED	\$ _____	\$174	\$209
Number of head of other dairy cattle	_____	17.3	12.6

Table 18. Feed Costs and Returns from All Dairy and Dual-Purpose Cattle, 1952

Items	Your farm	Average of 37 dairy herds	Average of 11 dual-purpose herds
Feeds per animal unit, lbs.:			
Concentrates	_____	2,412	1,953
Hay and fodder	_____	3,939	3,683
Silage	_____	5,283	5,382
TOTAL FEED COSTS PER ANIMAL UNIT	\$ _____	\$123.42	\$104.07
Value of produce per animal unit:			
Dairy products	\$ _____	\$160.15	\$ 83.73
Net inc. in value of dairy cattle	_____	57.93	69.55
TOTAL VALUE PRODUCED	\$ _____	218.08	153.28
RETURNS ABOVE FEED PER ANIMAL UNIT	\$ _____	94.66	49.21
RETURNS PER \$100 OF FEED	\$ _____	\$ 186	\$ 161
Animal units of dairy cattle	_____	21.1	14.3

\* 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 19. Feed Costs and Returns from a Farm Flock of Sheep, 1952

Items	Your farm	Average of 34 farms	11 farms highest in returns above feed	11 farms lowest in returns above feed
Feeds per head,* lbs.				
Concentrates		87	66	95
Legume hay		314	264	382
Other hay		36	12	31
Silage		125	242	61
Feed cost per head:				
Concentrates	\$	2.18	\$ 1.57	\$ 2.51
Roughages		3.13	3.02	3.36
Pasture		2.46	2.59	2.42
TOTAL FEED COSTS	\$	7.77	7.18	8.29
Value of produce per head:				
Wool	\$	2.61	\$ 2.63	\$ 2.92
Net increase in value of sheep		3.16	11.23	-5.58
TOTAL VALUE PRODUCED	\$	5.77	13.86	-2.66
RETURNS ABOVE FEED COST PER HEAD	\$	-2.00	6.68	-10.95
RETURNS FOR \$100 OF FEED	\$	\$ 80	\$ 210	\$ -48
Price per cwt. of lambs sold	\$	\$22.86	\$22.95	\$24.19
Price per lb. wool sold (cts.)		41.5	40.4	44.0
Pounds of wool per sheep sheared		8.3	8.1	9.1
Number of ewes kept for lambing		41	46	40
Per cent lamb crop**		94	104	78
Per cent death loss**		9.5	7.2	12.0
Pounds of sheep produced		3,589	4,046	2,984
No. of head of sheep*		61.1	64.2	62.9

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

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

Table 20. Feed Costs and Returns from Feeder Lambs, 1952

Items	Your farm	Average of 4 farms
Feed per cwt. lambs produced, lbs.:		
Concentrates		851
Legume hay		248
Other hay		99
Silage		162
Feed cost per cwt. lambs produced		\$ 25.28
Net increase in value per cwt. produced		15.67
Return above feed cost per cwt. produced		-9.61
RETURN FOR \$100 OF FEED		\$ 62
Price received per cwt. lambs sold		\$ 25.13
Price paid per cwt. lambs bought		23.44
Pounds of lambs produced		13,758

Table 21. Feed Costs and Returns from Chickens, 1952\*

Items	Your farm	Average of 90 farms	18 farms highest in return above feed	18 farms lowest in return above feed
Feed per hen, lbs.:				
Grain	_____	101	85	109
Commercial feeds	_____	48	50	40
Total concentrates	_____	149	135	149
Skim milk and buttermilk	_____	3	2	9
TOTAL FEED COST PER HEN	\$ _____	\$ 4.88	\$ 4.64	\$ 4.83
Value of produce per hen:				
Eggs sold and used in house	_____	\$ 5.00	\$ 6.36	\$ 3.45
Net increase in value of chickens	_____	.50	1.11	-.05
TOTAL VALUE PRODUCED	\$ _____	5.50	7.47	3.40
RETURNS ABOVE FEED COST PER HEN	\$ _____	\$ .62	\$ 2.83	\$-1.43
RETURNS FOR \$100 OF FEED	\$ _____	\$ 115	\$ 165	\$ 67
Price rec'd per doz. eggs sold (cts.)	_____	34.3	35.7	32.6
Eggs laid per hen	_____	174	214	126
Ave. no. of hens on farm during year	_____	231	253	191
Per cent of hens that are pullets	_____	88	94	88
Per cent death loss of hens	_____	14	9	15
Number of chicks started:				
Straight run	_____	120	194	102
Pullets	_____	298	302	182
Cockerels	_____	23	17	20
Lbs. chickens produced	_____	1,351	1,606	908

\* Includes feeds and returns from laying flock and rearing flock.

Table 22. Feed Cost and Returns from Laying Hens, 1952

Items	Your farm	Average of 29 farms
Feed per hen, lbs.:		
Grain	_____	77
Commercial feeds	_____	34
Total concentrates	_____	111
Skim milk	_____	4
Total feed cost per hen	\$ _____	\$ 3.69
Value of produce per hen:		
Eggs sold and used in home	\$ _____	\$ 5.07
Less depreciation and death loss	_____	-.86
Total value produced	_____	4.21
Return above feed cost per hen	\$ _____	\$ .52
Return for \$100 of feed	\$ _____	\$ 114
Eggs laid per hen	_____	176
Price rec'd per doz. eggs sold (cts.)	_____	34.3
Ave. no. hens on farm during year	_____	256
No. of hens on hand beginning of year	_____	307
Per cent death loss	_____	14
Per cent of hens that are pullets	_____	82

Table 23. Feed Costs and Returns from Chicks, 1952

Items	Your farm	Average of 22 farms
Feed per 100 chicks raised, lbs.:		
Grain	_____	1,132
Commercial feeds	_____	920
Total concentrates	_____	2,052
Skim milk	_____	64
Total feed cost per 100 chicks raised	\$ _____	\$75.71
Net increase in value per 100 chicks	_____	74.69
Return over feed cost per 100 chicks	_____	-1.02
Return for \$100 of feed	\$ _____	\$ 99
Number of chicks bought:		
Pullets	_____	602
Straight run	_____	134
Cockerels	_____	165
Price paid per 100 chicks bought:		
Pullets	\$ _____	\$39.77
Straight run	_____	23.20
Cockerels	_____	4.46
Per cent death loss	_____	16
Number chicks raised	_____	732
Price rec'd per pound sold (cts.)	_____	21.8
Pounds of poultry produced	_____	2,980

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-purpose 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	5.0 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 dairy cow or bull, two other dairy cattle, 1 1/4 beef cows or bull, 1 feeder steer or heifer, 3 1/3 other beef cattle, 7 sheep, 14 lambs, 2 1/2 hogs, 5 pigs, 50 hens or 1,100 pounds of turkeys produced.

Table 25. Summary of Farm Earnings by Years

Items	Average										
	1940-42	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952
No. of farms	165	164	163	153	142	137	136	131	139	122	118
Total farm capital	\$35688	\$37602	\$36000	\$35876	\$36810	\$39671	\$44143	\$46452	\$50868	\$54869	\$58082
Monthly charge for:											
Unpaid family labor*	52	75	85	90	110	130	130	130	130	130	130
Board to hired labor*	21	25	25	25	30	36	36	36	36	36	36
<b>FARM EXPENSES</b>											
Dairy and dual-pur. cattle bought	\$ 118	\$ 135	\$ 112	\$ 118	\$ 237	\$ 135	\$ 170	\$ 214	\$ 321	\$ 252	\$ 264
Beef cattle bought (incl. feeders)	1576	1187	1109	1390	1754	1916	2341	2733	4120	5581	4461
Hogs bought	217	408	315	377	382	646	389	441	478	395	361
Sheep bought (incl. feeders)	655	694	321	600	464	301	97	365	543	881	569
Poultry bought (incl. turkeys)	111	165	200	195	164	156	133	179	164	246	122
Horses bought	38	33	43	15	14	14	11	2	6	5	4
Miscellaneous livestock expense	110	199	173	194	198	270	273	304	328	391	369
Miscellaneous crop expenses	308	507	582	575	750	1055	1112	851	966	995	1079
Feed bought	1654	3080	2164	2416	2669	4014	3926	2929	3807	4973	4318
Custom work hired	163	215	261	292	300	394	421	375	382	406	439
Power machinery (new)	360	180	337	200	449	847	1173	1116	1164	1063	610
Power machinery (upkeep, gas, oil)	480	617	699	817	963	1116	1277	1233	1308	1336	1438
Crop and general machinery (new)	374	221	332	414	601	897	1328	1319	1248	1121	871
Crop and general machinery (upkeep)	96	157	174	195	258	290	368	310	292	306	323
Livestock equipment (new)	110	138	91	78	97	122	108	88	124	157	124
Livestock equipment (upkeep)	37	87	78	94	92	114	131	126	125	142	121
Buildings and fencing (new)	391	236	297	370	409	754	941	908	741	1082	1023
Buildings and fencing (upkeep)	128	168	192	219	268	311	413	384	331	286	331
Hired labor	525	739	651	636	723	796	944	872	843	910	835
Taxes	335	335	311	311	367	378	459	499	534	565	627
Insurance	27	40	41	41	49	61	71	56	78	77	87
General farm	<u>58</u>	<u>72</u>	<u>80</u>	<u>84</u>	<u>108</u>	<u>112</u>	<u>140</u>	<u>146</u>	<u>146</u>	<u>165</u>	<u>162</u>
Total farm purchases	7871	9613	8563	9631	11316	14699	16226	15450	18049	21335	18538
Decrease in farm capital	-	-	412	-	-	-	-	-	-	-	-
Interest on farm capital	1784	1880	1800	1794	1841	1984	2207	2323	2543	2743	2904
Unpaid family labor	300	335	316	322	363	422	421	356	360	367	335
Board furnished hired labor	148	147	118	83	105	116	127	102	99	79	91
Total farm expense	\$10103	\$11975	\$11209	\$11830	\$13625	\$17221	\$18981	\$18231	\$21051	\$24524	\$21868

\* These adjustments should be considered in comparing 1952 results with previous years.

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

Items	Average										
	1940-42	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952
<b>FARM RECEIPTS</b>											
Dairy and dual-pur. cattle	\$ 368	\$ 419	\$ 392	\$ 473	\$ 515	\$ 688	\$ 616	\$ 572	\$ 904	\$ 781	\$ 765
Dairy products	711	916	865	906	1083	1031	1046	874	885	1015	1124
Beef cattle	3211	3590	2478	3777	3711	4248	4508	4988	6438	9411	8115
Hogs	2601	5630	4671	4484	6166	8662	8207	6358	6801	7930	7322
Sheep and wool	968	968	768	926	834	766	421	308	810	753	1057
Poultry (incl. turkeys)	456	622	829	659	620	444	418	485	590	838	184
Eggs	389	905	911	977	993	1043	1108	1052	790	1055	875
Horses	43	45	47	27	24	28	25	12	14	6	12
Corn	539	724	578	587	814	1183	1498	1606	1542	997	1245
Small grain	1034	1382	669	949	1446	2436	3818	1626	1694	1240	1217
Other crops	296	510	600	673	878	911	1160	772	677	901	981
Machinery and equip. sold	220	137	185	251	363	383	355	470	446	644	378
Agri. adjustment payment	504	264	74	51	121	61	65	29	57	72	70
Income work off the farm	184	137	183	295	343	344	306	277	290	398	341
Miscellaneous	245	185	197	48	67	83	124	66	112	130	154
Total farm sales	\$11769	\$16434	\$13447	\$15083	\$17978	\$22311	\$23675	\$19495	\$22050	\$26171	\$23840
Increase in farm capital	1966	2	-	314	3223	5634	1542	1260	5214	2561	1216
Family living from farm	535	588	572	635	679	667	702	649	669	708	748
Total farm receipts	\$14270	\$17024	\$14019	\$16032	\$21880	\$28612	\$25919	\$21404	\$27933	\$29440	\$25804
Total farm expenses	10103	11975	11209	11830	13625	17221	18981	18231	21051	24524	21868
Oper. lab. earn.	4167	5049	2810	4202	8255	11391	6938	3173	6882	4916	3936
<b>MEAS. OF FARM ORG. AND MANAGEMENT</b>											
Per cent high return crops*	37.1	40.3	54.2	55.7	55.4	56.9	55.7	58.3	54.4	60.2	60.9
Livestock units per 100 A.**	23.8	25.1	21.4	22.1	20.7	20.1	19.5	19.3	20.0	31.7	33.2
Work units	608	586	530	535	514	483	489	483	502	529	515
Work units per worker	269	279	279	297	286	284	272	284	295	311	322
Expenses per work unit	\$2.46	\$3.52	\$4.20	\$4.52	\$5.08	\$6.39	\$7.41	\$7.75	\$8.01	\$7.75	\$8.29
<b>ACRES PER FARM</b>											
Crop acres per farm	288	280	268	268	260	243	250	249	257	256	260
<b>YIELDS PER ACRE</b>											
Flax, bu.	12.4	9.5	6.0	13.8	13.3	13.4	15.2	12.9	15.1	9.8	13.8
Barley, bu.	32.0	10.7	18.8	44.3	33.4	28.9	39.3	24.4	38.0	23.2	28.9
Oats, bu.	43.8	34.3	36.3	51.8	42.1	42.0	53.0	42.7	47.0	47.7	44.0
Corn, grain bu.	53.2	39.6	49.6	33.5	53.1	40.4	63.1	49.1	44.9	38.3	58.9
Corn silage, ton	9.4	8.5	7.5	7.1	8.9	6.9	10.1	9.2	8.7	7.5	9.5
Alfalfa hay, ton	2.2	2.3	2.0	2.1	2.1	2.2	2.1	2.0	2.0	2.5	2.6

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

\*\* The basis for computing animal units was revised in 1951.



Table 26. Summary of Miscellaneous Items by Years

Items	Average										
	1940-42	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952
<b>RETURN ABOVE FEED COST PER:</b>											
Dairy cow	\$56.68	\$69.86	\$69.45	\$92.30	\$121.08	\$104.00	\$151.25	\$106.16	\$130.70	\$139.19	\$117.68
Dual-purpose cow	39.97	41.21	46.01	61.28	94.26	58.91	65.54	49.92	63.97	66.65	41.22
Animal unit in beef herd*	26.26	18.54	12.20	24.00	42.12	53.27	62.42	50.51	85.59	130.06	30.37
100 lbs. feeder cattle prod.	3.52	1.43	3.56	7.38	8.59	9.10	10.49	8.78	17.09	13.00	-2.45
Head of sheep in farm flock	4.95	3.37	3.00	4.86	10.97	6.71	9.90	8.58	14.29	13.33	-2.00
100 lbs. feeder sheep prod.	5.60	4.24	10.85	9.44	18.02	-3.14	-18.19	-	20.52	-	-9.61
100 lbs. hogs produced	4.66	2.93	3.31	5.23	7.68	9.09	5.07	4.37	6.85	4.85	2.48
Hen	1.46	2.48	1.71	2.63	2.27	1.47	1.95	2.44	.83	2.09	.62
100 lbs. turkeys produced	9.82	12.31	10.27	12.17	16.13	-	-	-	3.31	-	-
<b>FEED COST PER:</b>											
Dairy cow	\$54.20	\$88.03	\$88.04	\$92.68	\$103.69	\$148.42	\$140.00	\$121.28	\$136.67	\$150.85	\$148.11
Dual-purpose cow	42.53	70.09	68.02	78.02	87.82	121.01	122.80	97.55	123.55	108.86	114.56
Animal unit in beef herd*	32.66	46.58	49.92	52.84	58.59	89.20	71.66	69.21	82.24	114.85	112.04
Cwt. of feeder cattle prod.	10.16	17.25	15.06	15.62	18.03	29.24	26.34	19.08	20.13	23.44	25.01
Head of sheep in farm flock	2.79	4.14	3.78	4.33	4.74	6.81	6.95	5.25	7.06	7.59	7.77
Cwt. feeder sheep produced	9.92	13.85	12.98	15.15	19.30	38.18	34.89	-	25.51	-	25.28
100 lbs. hogs produced	5.53	9.89	10.32	9.04	11.95	16.64	15.80	11.05	12.03	14.17	13.87
Hen	1.59	3.17	3.46	3.53	3.95	4.99	4.99	3.94	4.35	4.85	4.88
100 lbs. turkeys produced	8.98	14.96	14.88	14.89	15.80	-	-	-	20.51	-	-
<b>MISC. LIVESTOCK INFORMATION</b>											
No. of work horses	4.1	3.7	3.3	3.1	2.6	2.0	1.6	1.1	.8	.6	.5
No. of colts and ponies	.9	.7	.6	.3	.2	.1	-	-	-	.1	-
No. dairy or dual-pur. cows	8.8	7.6	6.6	6.1	5.7	5.2	4.8	4.6	4.6	4.5	4.5
Head in beef breeding herd	9.4	10.7	13.5	10.8	10.7	8.0	9.0	8.3	8.0	8.9	11.6
Lbs. feeder cattle produced	10961	8483	5315	7695	6083	5717	7117	6768	8699	10852	12152
Litters of pigs	16.9	25.4	16.7	19.4	18.1	19.5	20.2	20.3	22.7	23.4	21.5
Lbs. of hogs produced	27802	39596	29054	33994	34524	34163	35651	33129	37633	39702	38436
No. of hens	177	223	230	215	210	200	200	185	186	180	179
Lbs. of butterfat per:											
Dairy cow	251	251	226	242	244	259	258	284	277	280	282
Dual-purpose cow	186	182	172	182	191	185	172	170	213	169	171
No. pigs weaned per litter	6.3	6.0	5.9	6.2	6.4	6.1	6.6	6.5	6.5	6.6	6.7
Per cent lamb crop	110	105	94	99	108	110	111	117	113	115	94
Eggs per hen	122	146	157	163	174	170	170	177	175	176	174

\* The basis for computing animal units was revised in 1951.

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

Items	Average 1940-42	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952
<b>PRICE RECEIVED PER:</b>											
Lb. B.F. to creameries	\$ .37	\$ .53	\$ .58	\$ .62	\$ .76	\$ .76	\$ .86	\$ .66	\$ .66	\$ .75	\$ .80
100 lbs. fat cattle	10.39	13.68	13.83	14.95	16.54	23.45	29.12	24.50	27.24	33.73	30.16
100 lbs. feeder sheep	10.43	14.52	15.32	15.91	18.44	24.76	29.23	-	25.82	-	25.13
Pound of wool	.36	.41	.41	.42	.43	.37	.42	.42	.55	1.00	.42
100 lbs. of hogs	9.12	13.80	13.12	14.27	17.17	24.66	23.29	18.29	17.93	19.61	17.34
Dozen eggs	.21	.35	.31	.35	.34	.38	.40	.39	.30	.40	.34
Pounds of turkeys	.20	.32	.34	.32	.37	-	-	-	.29	-	-
<b>PRICE OF FEED</b>											
Corn, bu.	\$ .56	\$ .91	\$ .92	\$ .86	\$1.14	\$1.54	\$1.64	\$1.02	\$1.20	\$1.36	\$1.34
Oats, bu.	.33	.60	.70	.64	.70	.90	.88	.59	.72	.81	.76
Barley, bu.	.41	.77	.92	.94	1.22	1.80	1.59	.99	1.20	1.23	1.21
Alfalfa hay, ton	8.00	11.00	15.00	15.00	16.00	22.00	20.00	20.00	21.00	19.00	17.00
Timothy hay, ton	5.15	6.75	9.00	9.00	9.60	12.50	11.60	11.60	12.20	11.00	9.80
Corn silage, ton	2.45	3.62	5.00	5.00	5.50	8.00	5.85	6.00	6.70	6.00	5.75
Bran, cwt.	1.60	2.10	2.20	2.18	2.70	3.20	4.00	2.80	2.80	3.20	3.45
Linseed oilmeal, cwt.	2.05	2.55	2.85	2.88	3.30	4.25	4.55	4.00	3.95	4.00	4.85
Tankage, cwt.	3.25	4.00	4.18	4.10	5.10	6.75	6.45	6.25	6.30	6.15	6.50
Soybean meal, cwt.	2.20	2.80	3.15	3.00	3.80	4.80	5.10	4.05	3.95	4.00	5.60

Table 27. Monthly and Annual Precipitation

	Worthington		Fairmont		Tracy	
	Precip- itation Inches	Departure from normal Inches	Precip- itation Inches	Departure from normal Inches	Precip- itation Inches	Departure from normal Inches
January	1.16	+ .53	1.36	+ .56	1.14	+ .59
February	.72	- .05	.63	- .34	1.28	+ .64
March	1.28	+ .02	2.11	+ .70	2.01	+ .84
April	.93	-1.15	1.18	-1.05	.72	-1.17
May	1.80	-2.14	2.25	-1.67	2.06	- .86
June	5.54	+1.25	4.71	+ .57	4.56	+ .45
July	1.71	-1.68	5.89	+2.33	2.38	- .41
August	3.39	- .37	7.79	+4.24	2.55	- .53
September	1.17	-2.24	.80	-2.52	.51	-2.33
October	.00	-1.69	.00	-1.85	.00	-1.66
November	.54	- .63	.86	- .53	.58	- .39
December	.42	- .29	.47	- .43	.29	- .30
1952 Total	18.66	-8.44	28.05	+ .01	18.08	-5.13
1951 Total	28.91	+1.81	40.80	+12.76	28.26	+5.05
1950 Total	21.24	-5.86	26.54	-1.50	21.38	-1.83
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
Norm. An. Prec.	27.10		28.04		23.21	