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1953 Annual Report

SOUTHEASTERN MINNESOTA
FARM MANAGEMENT SERVICE

University of Minnesota
Institute of Agriculture
and
United States Department of Agriculture
Agricultural Research Service
and the
County Extension Services of

Dakota, Dodge, Freeborn, Goodhue, LeSueur, Mower, Nicollet, Olmsted,
Rice, Scott, Steele, Wabasha, Waseca and Winona Counties

and the

Southeast Minnesota Farm Management Association
Cooperating

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Report No. 214
Department of Agricultural Economics
Institute of Agriculture
St. Paul 1, Minnesota
April, 1954

1000/4/54

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Twenty-sixth Annual Report of the Southeast Minnesota Farm Management Service.

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

INTRODUCTION

The Department of Agricultural Economics and the Agricultural Extension Service of the University of Minnesota, the Agricultural Research Service of the United States Department of Agriculture, and the county extension services of Dodge, Freeborn, Goodhue, Rice, Steele, and Waseca counties organized late in 1927 the Farm Management Service Project, to operate in the above named counties, beginning January 1, 1928. Additional counties have since been added. This farm management service is offered to farmers who desire to keep farm records, and to have these records summarized and analyzed in connection with those of other farmers. Each farmer who cooperates in this service pays an annual fee which covers a part of the cost. The balance of the cost is defrayed by the University of Minnesota and the United States Department of Agriculture.

General administration of this project, analysis of the records and preparation of the reports is handled by the 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 and E. Hartmans. Harvey Bjerke was the field agent for this project. At the end of the year, R. B. Zoller, S. A. Engene, Donald Moore, Jay Swanson, R. H. Hinton and Niels Rorholm of the Department of Agricultural Economics aided in closing the records. County agricultural extension agents who cooperate in this project include C. O. Quie, V. Sander, R. E. Jacobs, G. J. Kunau, Don Hasbargen, F. L. Liebenstein, F. E. Wetherill, Ray Aune, Warren Liebenstein, Chester Graham, J. R. Gute, Douglas A. Mossberg, Mathas Metz, C. F. Murphy, Esbern Johnson and Gordon Anderson.

The Southeast Minnesota Farm Management Association was organized in 1939 by the farmers cooperating in the S. E. Farm Management Service. This association now represents its membership as an additional cooperating agency to determine policies and especially to maintain the field organization and membership. Officers for 1953 were:

President: Levern Wilker, Owatonna, Steele County
Vice President: Wesley Pierson, Aldine, Freeborn County
Secretary-Treasurer: Ray Miller, New Richland, Waseca County

The board of directors included these officers and also the following: John Harkness, Dakota County; Harry Morton, Dodge County; Felix Mahoney, Goodhue County; Emil Dietz, Le Sueur County; Harvey Holst, Mower County; Russell Malmberg, Nicollet County; Earl Kleinwort, Olmsted County; George Little, Rice County; Merrill Will, Scott County; Everett Freiheit, Wabasha County; and Homer Goss, Winona County.

The following tabulation shows by counties the number of records submitted in 1953:

Dakota	7	Mower	8	Steele	16
Dodge	13	Nicollet	14	Wabasha	13
Freeborn	18	Olmsted	15	Waseca	15
Goodhue	25	Rice	11	Winona	9
LeSueur	4	Scott	5	Total	173

The table on page 4 and succeeding pages show 157 farms. Thirteen farms have been omitted from all the averages in the tables because they differed so widely in type from the others or the records were not sufficiently complete for a full analysis. 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 variation occur among all farmers in the area. To the extent that this is true, this report should be of value to all farmers and to others interested in agriculture in that it illustrates how farm records may be used as a basis for making an analysis of a farm business and for improving the management of a farm.

Table 1. Monthly and Annual Precipitation

	Rochester		Austin		Faribault	
	Precipitation	Departure from normal	Precipitation	Departure from normal	Precipitation	Departure from normal
	Inches	Inches	Inches	Inches	Inches	Inches
January	1.23	0.30	1.33	.44	.95	0.27
February	.94	0.19	.45	-.47	.92	0.23
March	1.67	0.12	1.76	.11	2.03	0.92
April	3.50	1.19	4.70	2.38	3.93	2.02
May	2.82	-0.56	3.04	-1.57	3.49	0.29
June	4.33	0.00	7.43	2.21	5.07	0.70
July	6.95	3.48	6.15	3.07	7.35	4.00
August	1.80	-1.68	4.62	0.37	2.88	-0.53
September	.33	-3.72	.77	-3.21	.77	-2.68
October	.20	-1.49	.99	-0.87	.15	-1.93
November	1.95	0.43	1.80	0.22	1.39	0.05
December	1.26	0.24	1.77	0.90	1.51	0.83
1953 Total	26.98	-1.50	34.81	3.58	30.44	4.17
1952 Total	28.99	+.59	25.99	-5.24	24.97	-1.30
1951 Total	40.39	+11.99	33.76	+2.53	43.73	+17.46
1950 Total	23.23	-5.54	23.57	-7.66	23.79	-2.48
1949 Total	26.60	-2.17	24.12	-7.11	26.47	+.20
Normal Annual Precipitation	28.48		31.23		26.27	

The year, as a whole, was somewhat warmer and considerably wetter than usual. It was the warmest year since 1941 and the wettest since 1951. For the state in general, the 1953 crop season ranks among the very best in terms of aggregate production of all crops. Spring field work which began earlier than usual was later delayed and growth of vegetation retarded by cool, wet weather in April and May. At the close of June the harvesting of a good hay crop was well under way in southern Minnesota and a considerable acreage of corn had reached the "knee-high" stage. Warm, humid, wet weather in July was unfavorable for small grain and considerable rust developed. Corn picking was about completed during the first week in November, with yields and quality excellent. Fall plowing was practically at a standstill in October and November because of extremely dry topsoil.

Table 2. Summary of Farm Inventories, 1953*

Items	Your Farm		Average of 157 farms	
	Jan. 1	Dec. 31	Jan. 1	Dec. 31
Size of farm (acres)			226	
Size of business (work units)**			440	
Dairy and dual purpose cows			\$ 3033	\$ 3015
Other dairy & dual purpose cattle			1799	1546
Beef cattle			1703	1310
Hogs			1213	1319
Sheep			214	197
Poultry (including turkeys)			268	283
Productive livestock (total)			8231	7670
Horses			62	51
Crop, seed, and feed			5807	6256
Power mach. (farm share)			3081	3162
Crop and general mach. (farm share)			4162	4480
Livestock equipment and supplies			692	753
Mach. and equipment (total)			7935	8395
Miscellaneous			9	8
Buildings, fences, etc.			9306	9624
Land			11612	11612
Total farm capital			42962	43616

Items	31 most profitable farms		31 least profitable farms	
	Jan. 1	Dec. 31	Jan. 1	Dec. 31
Size of farm (acres)	279		213	
Size of business (work units)**	541		392	
Dairy & dual purpose cows	\$ 4005	\$ 3976	\$ 3304	\$ 3224
Other dairy & dual purpose cattle	2086	1826	1932	1582
Beef cattle (incl. feeders)	1260	985	1715	1191
Hogs	1810	2242	1030	734
Sheep (including feeders)	95	228	500	331
Poultry (including turkeys)	240	231	206	235
Productive livestock (total)	9496	9488	8687	7297
Horses	57	42	56	44
Crop, seed, and feed	7377	8448	5629	5086
Power mach. (farm share)	3386	3533	3368	3310
Crop & general machinery (farm share)	5197	5810	4340	4427
Livestock equipment & supplies	918	991	582	806
Mach. & equipment (total)	9501	10334	8290	8543
Miscellaneous	-	-	-	-
Buildings, fences etc.	10687	11215	7517	7586
Land	14395	14395	11665	11665
Total farm capital	51513	53922	41844	40221

* 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 23 for an explanation of "work units."

Table 3. Summary of Farm Earnings (Cash Statement), 1953

Items	Your farm	Average of 157 farms	31 most profitable farms	31 least profitable farms
FARM RECEIPTS				
Dairy and dual-purpose cows		\$665	\$797	\$688
Dairy products		5070	6442	4536
Other dairy & dual-purpose cattle		633	728	602
Beef cattle (including feeding cattle)		1450	1384	793
Hogs		4411	6912	3053
Sheep and wool		172	66	411
Poultry (including turkeys)		468	1415	127
Eggs		1453	1171	1001
Horses		12	13	22
Corn		1017	1917	767
Small grain		398	530	246
Other crops		908	1890	703
Machinery & equip. sold		143	235	88
Agricultural adjustment payments		51	59	43
Income from work off the farm		302	368	166
Miscellaneous		111	84	68
(1) Total farm sales		17264	24011	13314
(2) Increase in farm capital		654	2409	-
(3) Family living from the farm		446	492	399
(4) Total farm receipts (1)+(2)+(3)		18364	26912	13713
FARM EXPENSES				
Dairy and dual-purpose cows bought		\$ 85	\$ 81	\$ 213
Other dairy & dual-pur. cattle bought		62	38	47
Beef cattle bought (incl. feeding cattle)		506	545	41
Hogs bought		231	183	259
Sheep bought		35	112	17
Poultry bought (including turkeys)		170	306	132
Horses bought		4	2	10
Misc. livestock expenses		421	488	417
Misc. crop expenses		1170	1806	880
Feed bought		2148	2836	1486
Custom work hired		592	665	540
Mech. power mach. (farm share) (new)		640	836	471
Mech. power mach. (farm share) (upkp)		377	416	341
Mech. power (farm share)(gas, oil, etc.)		917	1127	849
Crop and general mach. (new)		1068	1524	790
Crop and general mach. (upkp)		246	306	200
Livestock equipment (new)		206	282	354
livestock equipment (upkeep)		134	133	123
Buildings and fencing (new)		835	1092	525
Buildings and fencing (upkeep)		370	437	313
Hired labor		806	1370	598
Taxes		672	824	653
General farm and insurance		250	287	222
(5) Total farm purchases		11945	15696	9481
(6) Decrease in farm capital		-	-	1623
(7) Interest on farm capital		2164	2636	2052
(8) Unpaid family labor		523	486	712
(9) Board furnished hired labor		138	225	101
(10) Total farm exp.(sum of (5) to (9))		14770	19043	13969
(11) Operator's earnings (4) -(10)		3594	7869	-256

Table 4. Summary of Farm Earnings (Enterprise Statement) 1953*

Items	Your farm	Average of 157 farms	31 most profitable farms	31 least profitable farms
RETURNS AND NET INCREASES				
Dairy and dual purpose cows		\$5155	\$6491	\$4364
Other dairy & dual pur. cows		1216	1525	1083
Beef breeding herd		144	85	305
Feeding cattle		422	469	-2
Hogs		4348	7269	2541
Sheep		121	86	225
Turkeys		242	1124	-
Chickens		1624	1253	1106
All productive livestock		13272	18302	9622
Crops, seed and feed		653	644	-1265
Agricultural conservation payments		51	59	43
Income from labor off the farm		125	109	93
Miscellaneous		99	73	68
(1) Total returns & net increases		12894	19187	8561
EXPENSES AND NET DECREASES				
Horses		\$ 50	\$ 49	\$ 38
Tractor		802	887	807
Truck		296	440	266
Auto (farm share)		346	376	322
Gas engine and elect. exp. (f. share)		212	247	212
Hired power		317	366	276
Total power		2123	2365	1921
Crop and general machinery		998	1170	1007
Livestock equipment		259	268	241
Buildings, fencing and tiling		903	1034	770
Misc. productive livestock expense		418	488	417
Labor		1613	2246	1534
Real estate taxes		528	659	504
Personal property tax		144	165	149
Insurance		105	106	95
General farm		145	181	127
Interest on farm capital		2164	2636	2052
(2) Total expenses & net decreases		9300	11318	8817
(3) Operators earnings (1) - (2)		3594	7869	-256

*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 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, 1953 (Operator's Share)

Items	Your farm		35 Owners	
	Jan. 1	Dec. 31	Jan. 1	Dec. 31
Total acres in farm			182	
Owned			182	
Rented			-	
Total farm capital			\$36886	\$37354
Accounts receivable			173	149
Stocks and bonds			1919	1796
Life insurance			1629	1720
Outside real estate			1217	1188
Other outside investments			371	430
Total outside investments			5136	5134
Dwelling			3959	3878
Cash on hand and in bank			733	931
Other household & personal assets			2238	2337
Total cash, household & personal assets			6930	7146
TOTAL ASSETS			49125	49783
Federal Land Bank Mortgage			1487	1651
Other mortgages on land operated			4063	3342
Production Credit Association			73	92
Sealed Grain			104	146
Other chattel Mortgages			565	533
Notes payable			1528	1361
Accounts payable			138	140
TOTAL LIABILITIES			7958	7265
Farmer's net worth			41167	42518
Gain in net worth				+1351
	13 part-owners*		16 Renters **	
	Jan. 1	Dec. 31	Jan. 1	Dec. 31
Total acres in farm	268		226	
Owner	133		-	
Rented	135		226	
Total farm capital	\$37455	\$39833	\$15068	\$16174
Accounts receivable	162	185	4	11
Stocks and bonds	1680	1863	469	448
Life insurance	1561	1720	842	969
Outside real estate	77	19	375	326
Other outside investments	695	763	113	150
Total outside investments	4013	4365	1799	1893
Dwelling	1749	1803	-	-
Cash on hand and in bank	2742	3152	319	335
Other household & personal assets	2279	2328	2546	2640
Total cash, household & personal assets	6770	7283	2865	2975
TOTAL ASSETS	48400	51666	19736	21053
Federal Land Bank Mortgage	417	927	-	-
Other Mortgages on land operated	3146	2608	-	-
Production Credit Association	400	727	-	-
Sealed Grain	62	127	657	725
Other chattel mortgages	785	1971	1619	2105
Notes payable	2523	2585	2042	2108
Accounts payable	410	161	349	204
TOTAL LIABILITIES	7743	9106	4667	5142
Farmer's net worth	40657	42560	15069	15911
Gain in net worth		+1903		+842

* 7 rented for cash, 1 cash and crop share, 2 crop share and 3 livestock and crop share.

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

Table 6. Summary of Farm Earnings by Tenure, 1953 (Operator's Share)

Items	Your farm	35 owners	13 part- owners	16 renters
FARM RECEIPTS				
Dairy and dual purpose cows		\$665	\$419	\$424
Dairy products		4849	4734	3564
Other dairy and dual purpose cattle		454	557	236
Beef cattle (including feeding cattle)		625	3228	293
Hogs		3529	4533	2654
Sheep and wool		123	93	176
Poultry (including turkeys)		337	113	119
Eggs		1779	886	880
Horses		9	17	-
Corn		758	1557	876
Small grain		379	463	279
Other crops		598	699	1065
Machinery & equipment sold		104	146	246
Agricultural adjustment payments		56	58	50
Income from work off the farm		353	388	385
Miscellaneous		52	146	96
(1) Total farm sales		14670	18037	11343
(2) Increase in farm capital		468	2378	1106
(3) Family living from the farm		427	444	443
(4) Total farm receipts (1)+(2)+(3)		\$15565	\$20859	\$12892
FARM EXPENSES				
Dairy and dual purpose cows bought		\$ 95	\$181	\$ 45
Other dairy & dual purpose cattle bought		30	48	51
Beef cattle bought (including feeding cattle)		240	1232	33
Hogs bought		78	509	159
Sheep bought		105	8	10
Poultry bought (including turkeys)		199	92	56
Horses bought		-	4	-
Misc. livestock expenses		408	352	300
Misc. crop expenses		1013	1359	868
Feed bought		1811	1853	1607
Custom work hired		579	626	473
Mech. power mach. (farm share) (new)		724	802	479
Mech. power (farm share) (upkeep)		335	400	285
Mech. power (farm share) (gas, oil, etc.)		770	973	805
Crop and general mach. (new)		678	2080	1419
Crop and general mach. (upkeep)		257	256	189
Livestock equipment (new)		233	155	108
Livestock equipment (upkeep)		113	159	65
Land, buildings & fencing (new)		617	1334	290
Buildings and fencing (upkeep)		371	247	46
Hired labor		657	1118	724
Taxes (real estate & personal property)		557	469	115
General farm and insurance		231	222	170
Cash rent		-	672	626
Interest paid		339	366	123
(5) Total farm purchases		\$10440	\$15517	\$ 9046
(6) Decrease in farm capital		-	-	-
(7) Interest on farm capital		1517	1566	658
(8) Unpaid family labor		358	240	305
(9) Board furnished hired labor		110	202	156
(10) Total farm expense (sum of (5) to (9))		\$12425	\$17525	\$10165
(11) Operator's earning (4) - (10)		3140	3334	2727
(12) Return to cap. & family lab. (7)+(8)+(11)		5015	5140	3690

Table 7. Household and Personal Expenses for
Those Farms Which Kept Complete Accounts of These Expenses, 1953

Items	Your farm	Average of 81 farms	16 most profit- able farms	16 least profit- able farms
Number of persons - family	_____	4.3	4.3	4.0
Number of adult equiv. - family	_____	3.2	3.1	3.0
other*	_____	.3	.5	.3
Food and meals bought	_____	\$688	\$731	\$602
Operating and supplies	_____	274	279	206
Clothing and clothing materials	_____	300	329	247
Personal care, personal spending	_____	92	63	53
Furnishings and equipment	_____	246	280	189
Education, recreation and development	_____	152	179	100
Medical care and health insurance	_____	286	362	220
Church, welfare	_____	198	211	112
Personal share of auto expense	_____	120	157	107
Household share of elect. & gas engine expense	_____	75	86	71
H.H. & pers. share of new auto, new dwelling	_____	156	258	239
House upkeep	_____	67	122	41
Gifts and special events	_____	79	81	54
Misc. taxes	_____	8	2	16
Total cash living expenses	_____	\$2741	\$3140	\$2257
State and Federal income taxes	_____	\$167	\$215	\$ 57
Insurance	_____	208	357	137
Total household and personal cash expense	_____	3116	3712	2451
Food furnished by the farm	_____	\$451	\$546	\$354
Fuel furnished by the farm	_____	9	11	12
Total cash expenses & perquisites	_____	3576	4269	2817
Purchase of stocks bonds, and other invest.	_____	\$383	\$1535	\$ 6
Receipts:				
Sale of investments	_____	\$ 6	\$ 30	\$ -
Income from investments	_____	169	407	39
Miscellaneous income	_____	107	37	330

*Hired help or others boarded.

Table 8. Family Living From the Farm, 1953

Items	Your farm	Average 157 farms	Your farm	Average 157 farms
Adult equiv. - family	_____	3.2		
- others	_____	.4		
Whole milk	_____	1276	_____	\$87.99
Skim milk	_____	92	_____	.92
Cream	_____	56	_____	12.68
Beef	_____	673	_____	101.33
Hogs	_____	331	_____	63.87
Sheep	_____	3	_____	.49
Poultry	_____	112	_____	23.04
Eggs	_____	194	_____	78.56
Potatoes	_____	5	_____	6.79
Vegetables & fruit	_____		_____	58.92
Farm fuel	_____	2	_____	11.25
Total			_____	\$445.84

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 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 earnings	Average operator's earnings
None or 1	19	_____	xxxxx	\$ 932
2	22	_____	xxxxxxxxxxxxxxxxx	2711
3	32	_____	xxxxxxxxxxxxxxxxxxxxx	3355
4	42	_____	xxxxxxxxxxxxxxxxxxxxxxxxx	3896
5	26	_____	xxxxxxxxxxxxxxxxxxxxxxxxxxxxx	4821
6 or 7	16	_____	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	5656

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, 1953

Measures used in chart on page 11	Your farm	Average of 157 farms	31 most profit- able farms	31 least profit- able farms
Operator's earnings	\$ _____	\$3593	\$7869	\$-256
(1) Crop yields*	_____	100	101	92
(2) % of tillable land in high ret. crops**	_____	65.7	67.6	63.1
(3) Ret. for \$100 feed to prod. livestock***	_____	100	106	87
(4) Prod. livestock units per 100 acres****	_____	30.7	33.0	27.3
(5) Size of business - work units	_____	440	541	392
(6) Work units per worker	_____	244	258	218
(7) Pow., mach., equip., & bldg. exp. per work unit	_____	\$9.70	\$9.13	\$10.31

Measures and items related to some of the above measures:

(3) Index of return for \$100 feed from:				
Dairy cattle (see pages 16&17)	_____	100	109	85
Dual purpose cattle (see pages 18&19)	_____	100	-	-
Beef breeding herd (see page 15)	_____	100	-	82
Feeding cattle (see page 15)	_____	100	103	-
Hogs (see page 14)	_____	100	106	90
Native sheep (see page 22)	_____	100	73	92
Turkeys (see page 23)	_____	100	98	-
Chickens (see pages 20 & 21)	_____	100	100	88
(4) Number of animal units prod. livestock	_____	57.8	70.2	50.3
(5) Work units on crops	_____	99	129	94
Work units on productive livestock	_____	323	397	285
Other work units	_____	18	15	13
(6) Number of family workers	_____	1.3	1.3	1.5
Number of hired workers	_____	.5	.8	.3
Total number of workers	_____	1.8	2.1	1.8
(7) Power expense per work unit	\$ _____	\$4.76	\$4.51	\$5.11
Crops mach. expense per work unit	_____	2.34	2.22	2.59
Livestock equip. exp. per work unit	_____	.58	.48	.62
Building exp. per work unit	_____	2.02	1.92	1.99

* Given as a percentage of the average.

** Crops are marked on page 12 as (A), (B), (C), and (D). All of the acres in (A) crops, one-half of acres in (B) crops, and one-fourth of acres in (C) crops are used in calculating per cent of tillable land in high return crops.

***An index weighted by the animal units of livestock.

****Acres in timber not pastured, roads, waste, and farmstead were not included.

Thermometer Chart

Using your figures from page 10, locate your standing with respect to the various measures of farm organization and management efficiency. The averages for the 157 farms included in this summary are located between the dotted lines across the center of this page.

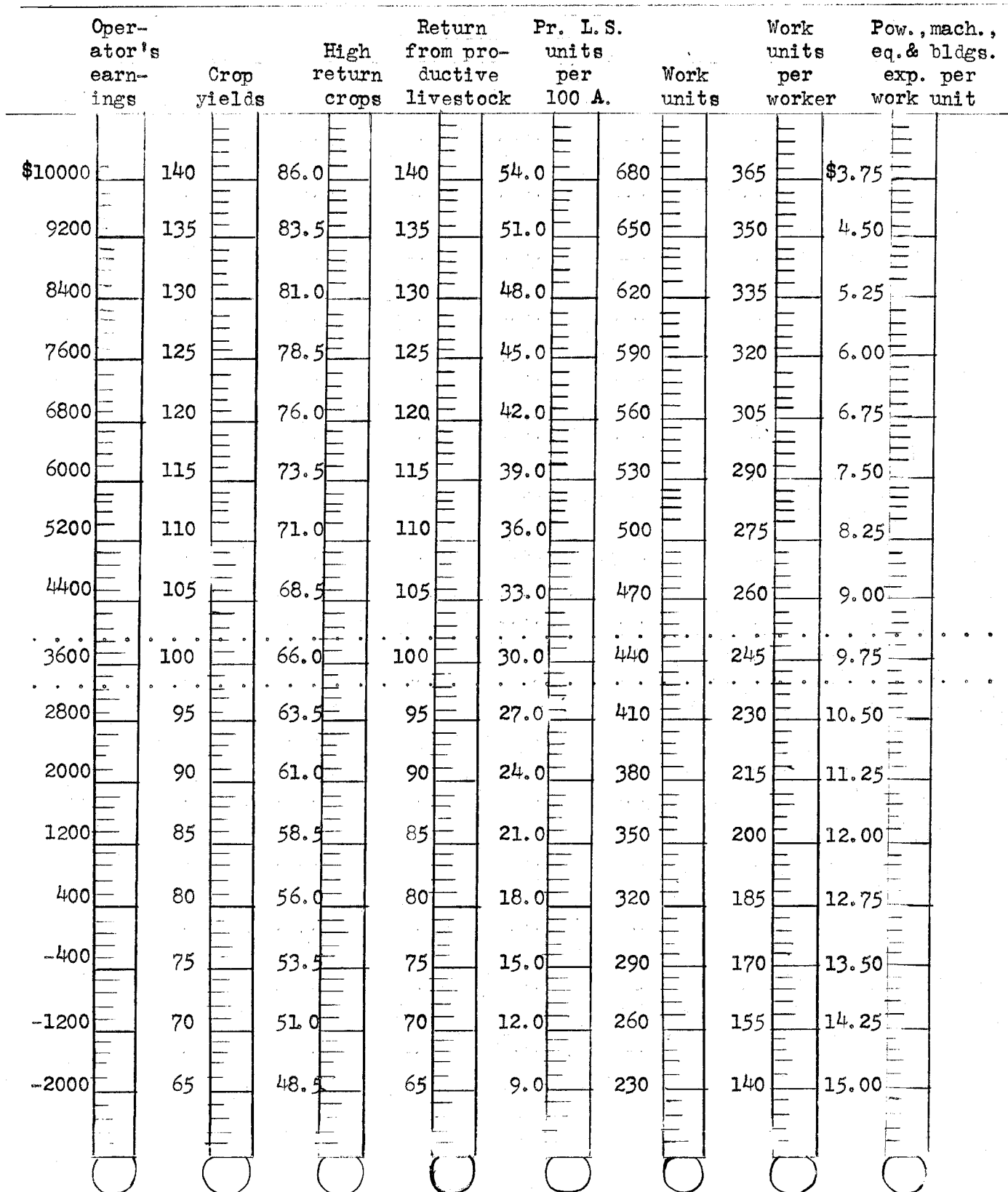


Table 11. Distribution of Acres in Farm and Yield of Crops, 1953

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	Acres in farm		Crop yields per acre	
		Your farm	Average of 157 farms	Your farm	Ave. of farms growing each crop
Canning peas	(A) 18		1.8		\$48.49
Flax	(C) 12		.9		7.1 bu.
Barley	(D) 19		2.2		25.9 bu.
Oats and barley	(D) 14		1.7		34.2 bu.
Oats	(D) 152		35.9		37.4 bu.
Oats and wheat	(D) 8		.8		42.6 bu.
Wheat	(D) 20		1.6		23.0 bu.
Rye	(D) 5		.2		13.7 bu.
Total small grain and peas	156		45.1		
Sugar beets, hybrid seed corn, potatoes and truck crops	(A) 11		1.2		
Corn grain	(A) 157		52.2		61.8 bu.
Corn silage	(B) 106		6.9		9.4 tons
Sweet corn	(B) 15		1.9		2.3 tons
Soybeans for grain	(C) 54		9.1		20.3 bu.
Corn fodder	(D) 1		--		
Total cultivated crops	157		71.3		
Alfalfa hay	(A) 151		33.7		2.9 tons
Red clover hay	(B) 26		2.3		2.1 tons
Mixed legumes & non-legumes	(C) 8		.8		1.7 tons
Legumes for seed	(C) 1		--		
Timothy and /or brome hay and seed	(D) 4		.2		
Other annual hay	(D) 3		.1		
Total tillable land in hay	156		37.1		
Alfalfa and mixtures incl. alf.	(A) 115		16.5		
Other legumes and mixtures	(C) 20		1.9		
Sudan grass or rape pasture	(C) 11		.3		
Other tillable land in pasture	(D) 27		2.6		
Total tillable and in pasture	133		21.3		
Tillable land not cropped	(D) 17		1.1		
Total tillable land	157		175.9		
Wild hay (non-tillable)	36		3.0		.5 tons
Non-tillable pasture	114		23.1		
Timber (not pastured)	61		6.5		
Roads and waste			10.3		
Farmstead			6.7		
Total acres in farm			225.5		
Per cent land tillable			78.0		
Per cent tillable land in high ret. crops			65.7		

Table 12. Average Price of Feeds, 1953

Item	Value	Item	Value
Ear corn, per bu.	\$1.31	Alfalfa hay, per ton	\$17.50
Oats, per bu.	.71	Red or alsike clov. hay, per ton	14.80
Barley, per bu.	1.11	Timothy, per ton	10.10
Wheat, per bu.	2.10	Wild hay, per ton	8.75
Bran, per cwt.	2.95	Corn fodder, per ton	7.85
Linseed oilmeal, per cwt.	4.10	Corn silage, per ton	5.85
Soybean oilmeal, per cwt.	4.40	Pasture, per mo. per cow	2.50
Meatscraps per cwt.	5.30	Skim milk, per cwt.	.36

Table 13. Power and Machinery Expenses per Crop Acre, 1953

Items	Your farm	Average of 157 farms	31 most profitable farms	31 least profitable farms
Crop acres per farm	_____	156.5	206.7	141.3
Tractor and horse exp. per crop acre	_____	\$5.72	\$5.10	\$6.19
Crop & gen. mach. exp. per crop acre	_____	6.67	5.90	7.05

TOTAL RETURNS AND FEED COST 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 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 cost other than feed.

Table 14. Total Feed Costs and Returns From Your Livestock Enterprises, 1953

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

Table 15. Feed Costs and Returns from Hogs, 1953

Items	Your farm	Average of 118 farms	24 farms highest in returns above feed	24 farms lowest in returns above feed
Feed per cwt. hogs produced, lbs.:				
Corn	_____	352	304	507
Small grain	_____	89	72	94
Commercial feeds	_____	49	29	51
Total concentrates	_____	490	405	652
Skim milk, buttermilk and whey	_____	56	87	45
Feed cost per cwt. hogs produced:				
Concentrates	\$ _____	\$12.73	\$10.15	\$16.84
Skim milk, buttermilk and whey	_____	.21	.31	.20
Pasture	_____	.10	.09	.11
TOTAL FEED COSTS	_____	13.04	10.55	17.15
Net increase in value per cwt hogs prod.	\$ _____	\$23.21	\$24.77	\$22.00
RETURNS ABOVE FEED COST PER CWT.				
HOGS PROD.	\$ _____	\$10.17	\$14.22	\$4.85
RETURNS FOR \$100 OF FEED	\$ _____	\$189	\$242	\$139
Price received per cwt. hogs sold	\$ _____	\$21.28	\$21.50	\$20.57
No. of spring litters raised	_____	10.0	11.0	7.5
No. of fall litters raised	_____	5.6	5.5	5.5
Total no. of litters raised	_____	15.6	16.5	13.0
No. of pigs born per litter	_____	8.2	8.0	8.3
No. of pigs weaned per litter	_____	6.7	6.7	6.3
Pounds of hogs produced	_____	24837	26612	21646

Table 16. Feed Costs and Returns from Beef Cattle, 1953

Items	Your farm	Average of all farms
Beef breeding herd: No. of farms:		13
Feeds per animal unit, lbs:		
Concentrates	_____	1636
Legume hay	_____	3847
Other hay	_____	506
Silage	_____	5716
Feed cost per animal unit:		
Concentrates	\$ _____	\$40.09
Roughages	_____	52.82
Pasture	_____	14.28
TOTAL FEED COSTS	_____	107.19
Value of produce per animal unit:		
Dairy products	\$ _____	\$2.94
Net increase in value of animals	_____	67.27
TOTAL VALUE PRODUCED	_____	70.21
RETURNS ABOVE FEED COST PER ANIMAL UNIT	_____	-36.98
RETURNS FOR \$100 OF FEED	_____	\$65
Number of cows and herd bulls	_____	20.8
Number of young beef cattle	_____	35.6
Number of animal units in the herd	_____	27.3
Lbs. beef produced	_____	14715
<hr/>		
Feeder cattle: No. of farms:		22
Feeds per cwt. beef produced, lbs.:		
Corn	_____	430
Small grain	_____	21
Commercial feeds	_____	47
Legume hay	_____	384
Other hay	_____	37
Total concentrates	_____	498
Total dry roughages	_____	421
Silage	_____	558
Feed cost per cwt. beef produced:		
Concentrates	\$ _____	\$12.60
Roughages	_____	5.24
Pasture	_____	1.33
TOTAL FEED COSTS	\$ _____	19.17
Net increase in value of feeders	\$ _____	14.87
RETURNS ABOVE FEED COST PER CWT.	_____	
BEEF PRODUCED	\$ _____	\$-4.30
RETURNS FOR \$100 OF FEED	_____	\$75
Price paid per cwt. beef bought in 1953	_____	\$17.68
Price recd. per cwt. beef sold in 1953	_____	20.73
No. of animal units	_____	40.6
Pounds of beef produced	_____	19480

Table 17. Factors of Cost and Returns from Dairy Cows, 1953

Items	Your farm	Average of 128 farms	26 farms highest in butterfat per cow	26 farms lowest in butterfat per cow
Pounds of butterfat per cow	_____	309	394	226
% of butterfat in milk	_____	3.8	3.7	3.9
Price rec. per lb. B.F. sold(cents)	_____	94.5	98.8	87.5
As manufacturing cream (cents)	_____	75.4	77.7	74.2
Other (cents)	_____	97.3	99.1	94.3
Feeds per cow, lbs.:				
Corn	_____	1705	2318	1483
Small grain	_____	767	1052	604
Commercial feeds	_____	383	550	244
Legume hay	_____	4317	4208	4383
Other hay	_____	528	608	231
Fodder and stover	_____	7	-	17
Total concentrates	_____	2855	3920	2331
Total hay and fodder	_____	4852	4816	4631
Silage	_____	6490	8216	5496
Feed cost per cow:				
Concentrates	_____	\$72.86	\$99.39	\$56.96
Roughages	_____	59.67	63.43	56.08
Pasture	_____	11.53	10.90	12.23
TOTAL FEED COSTS	_____	144.06	173.72	125.27
Value of produce per cow:				
Dairy product sales	_____	\$275.91	\$363.71	\$180.56
Dairy produce used in house	_____	5.98	5.95	6.10
Milk to livestock	_____	12.50	15.21	15.88
Net increase in value of cows	_____	-11.97	-11.88	-6.98
TOTAL VALUE PRODUCED	_____	282.42	372.99	195.56
RETURNS ABOVE FEED COST PER COW	_____	\$138.36	\$199.27	\$70.29
RETURNS FOR \$100 OF FEED	_____	\$199	\$220	\$156
Feed cost per lb. B.F. (cents)	_____	46.6	44.1	55.4
Number of cows*	_____	21.2	22.1	18.2

* 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 18. Feed Costs and Returns from Other Dairy Cattle, 1953

Items	Your farm	Average of 128 farms	26 farms highest in butterfat per cow	26 farms lowest in butterfat per cow
Feed per head, lbs.:				
Concentrates	_____	720	845	734
Hay and fodder	_____	2055	1963	2098
Silage	_____	2104	2167	2033
Skim milk	_____	185	44	384
Whole milk	_____	318	418	357
TOTAL FEED COSTS PER HEAD	_____	\$58.26	\$63.69	\$59.93
Net inc. in value of other dairy cattle	_____	61.45	74.13	62.29
RETURNS ABOVE FEED COST PER HEAD	_____	3.19	10.44	2.36
RETURNS FOR \$100 OF FEED	_____	105	\$116	\$104
Number of head of other dairy cattle	_____	23.0	25.0	19.2

Table 19. Feed Costs and Returns from All Dairy Cattle, 1953

Items	Your farm	Average of 128 farms	26 farms highest in butterfat per cow	26 farms lowest in butterfat per cow
Feeds per animal unit, lbs.:				
Concentrates	_____	2321	3074	1989
Hay and fodder	_____	4545	4459	4425
Silage	_____	5627	6681	4949
TOTAL FEED COSTS PER ANIMAL UNITS	_____	\$125.60	\$145.67	\$113.62
Value of produce per animal unit:				
Dairy products	_____	\$182.49	\$233.58	\$124.75
Net increase in val. of dairy cattle	_____	33.82	44.96	34.52
TOTAL VALUE PRODUCED	_____	\$216.31	\$278.54	\$159.27
RETURNS ABOVE FEED PER ANIMAL UNIT	_____	\$90.71	\$132.87	\$45.65
RETURNS PER \$100 OF FEED	_____	\$175	\$194	\$143
Animal units of dairy cattle	_____	32.9	35.0	28.4

Table 20. Factors of Costs and Returns from Dual Purpose Cows, 1953

Items	Your farm	Average of 11 farms
Pounds of butterfat per cow	_____	181
Per cent butterfat in milk	_____	3.5
Price received per lb. B.F. sold (cents)	_____	81.9
As manufacturing cream (cents)	_____	73.6
Other (cents)	_____	93.2
Feeds per cow, lbs.:		
Corn	_____	851
Small grain	_____	504
Commercial feeds	_____	135
Legume hay	_____	4001
Other hay	_____	532
Total concentrates	_____	1490
Total hay and fodder	_____	4533
Silage	_____	5094
Feed cost per cow:		
Concentrates	_____	\$36.37
Roughages	_____	52.52
Pasture	_____	12.12
TOTAL FEED COSTS	_____	\$101.01
Value of produce per cow:		
Dairy product sales	_____	\$130.01
Dairy produce used in house	_____	7.21
Milk to livestock	_____	22.88
Net increases in value of cows	_____	-24.86
TOTAL VALUE PRODUCED	_____	\$135.24
RETURNS ABOVE FEED COST PER COW	_____	\$34.23
RETURNS FOR \$100 OF FEED	_____	\$135
Feed cost per lb. B.F. (cents)	_____	55.8
Number of cows	_____	17.1

Table 21. Feed Costs and Returns from Other Dual Purpose Cattle, 1953

Items	Your farm	Average of 11 farms
Feeds per head, lbs.:		
Concentrates	_____	678
Hay and fodder	_____	1679
Silage	_____	1854
Skim milk	_____	315
Whole milk	_____	441
TOTAL FEED COST PER HEAD	_____	\$54.66
Net increase in value	_____	\$54.40
RETURNS ABOVE FEED COST PER HEAD	_____	\$-.26
RETURNS FOR \$100 OF FEED	_____	\$100
Number of head	_____	24.7

Table 22. Feed Costs and Returns from All Dual Purpose Cattle, 1953

Items	Your farm	Average of 11 farms
Feeds per animal unit, lbs.:		
Concentrates	_____	1416
Hay and fodder	_____	3940
Silage	_____	4334
TOTAL FEED COSTS PER ANIMAL UNIT	_____	\$90.36
Value of produce per animal unit:		
Dairy products	_____	\$81.54
Net increase in value	_____	30.22
TOTAL VALUE PRODUCED	_____	\$111.76
RETURNS ABOVE FEED PER ANIMAL UNIT	_____	\$21.40
RETURNS FOR \$100 OF FEED	_____	\$123
Animal units	_____	29.7

Table 23. Feed Costs and Returns from Chickens, 1953*

Items	Your farm	Average of 123 farms	25 farms highest in return above feed	25 farms lowest in return above feed
Feed per hen, lbs.:				
Grain	_____	95	92	109
Commercial feeds	_____	51	48	51
Total concentrates	_____	146	140	160
Skim milk and buttermilk	_____	1	4	2
TOTAL FEED COST PER HEN	\$ _____	\$4.69	\$4.49	\$5.05
Value of produce per hen:				
Eggs sold and used in house	\$ _____	\$6.80	\$8.50	\$4.81
Net increase in value of chickens	_____	.39	.97	.08
TOTAL VALUE PRODUCED	_____	\$7.19	\$9.47	\$4.89
RETURNS ABOVE FEED COST PER HEN	\$ _____	\$2.50	\$4.98	\$-.16
RETURNS FOR \$100 OF FEED	\$ _____	\$159	\$216	\$98
Price received per doz. eggs sold (cents)	_____	42.1	42.5	41.5
Eggs laid per hen	_____	194	242	141
Ave. no. of hens on farm during year	_____	275	359	232
Per cent of hens that are pullets	_____	82	95	73
Per cent of death loss of hens	_____	14	10	15
Number of chicks started - pullets	_____	341	481	309
- straight run	_____	52	46	44
-cockerels	_____	24	41	22
Pounds of poultry produced	_____	1208	1987	808

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

Table 24. Feed Costs and Returns from Chicks, 1953

Items	Your farm	Average of 57 farms
Number of cases		
Feed per 100 chicks raised, lbs.:		
Grain		1422
Commercial feeds		1314
Total concentrates		2736
Total feed cost per 100 chicks raised		\$98.22
Net increase in val. per 100 chicks		104.02
Return over feed cost per 100 chicks		5.80
Return for \$100 of feed		\$106
Number of chicks bot:		
Pullets		431
Straight run		33
Cockerels		21
Price paid per 100 chicks bot:		
Pullets		\$43.80
Straight run		19.40
Cockerels		4.31
Per cent death loss		15.2
Number chicks raised		403
Price rec'd per pound sold (cts.)		26.9
Pounds of poultry produced		1660

Table 25. Feed Cost and Returns from Laying Hens, 1953

Items	Your farm	Eggs laid per hen		
		Below 175	175-224	225 and over
Number of cases		16	27	23
Feed per hen, lbs.:				
Grain		78	79	76
Commercial feeds		31	39	42
Total concentrates		109	118	118
Skim milk		4	-	4
Total feed cost per hen		\$3.10	\$3.69	\$3.72
Value of produce per hen:				
Eggs sold and used in home		\$5.00	\$7.08	\$8.67
Less depreciation and death loss		.75	1.05	1.16
Total value produced		4.25	6.03	7.51
Return above feed cost per hen		\$1.15	\$2.34	\$3.79
Return for \$100 of feed		\$137	\$163	\$202
Eggs laid per hen		140	202	249
Price rec'd per doz. eggs sold (cts.)		42.8	42.3	42.0
Ave. no. hens on farm during year		254	324	317
No. of hens on hand beginning of year		292	356	361
% death loss		16	14	12
% hens that are pullets		56	92	96

Table 26. Feed Costs and Returns from a Farm Flock of Sheep, 1953

Items	Your farm	Average of 37 farms	18 farms	18 farms
			highest in returns above feed	lowest in returns above feed
Feeds per head, *lbs.:				
Concentrates	_____	81	78	87
Legume hay	_____	316	248	379
Other hay	_____	31	20	43
Silage	_____	124	92	161
Feed cost per head:				
Concentrates	\$ _____	\$1.97	\$1.94	\$2.05
Roughages	_____	3.31	2.57	4.02
Pasture	_____	2.53	2.51	2.57
TOTAL FEED COSTS	\$ _____	\$7.81	\$7.02	\$8.64
Value of produce per head:				
Wool	_____	\$3.75	\$3.75	\$3.79
Net increase in value of sheep	_____	5.15	8.18	2.11
TOTAL VALUE PRODUCED	\$ _____	\$8.90	\$11.93	\$5.90
RETURN ABOVE FEED COST PER HEAD	_____	\$1.09	\$4.91	\$-2.74
RETURNS FOR \$100 OF FEED	_____	\$120	\$170	\$68
Price per cwt. of lambs sold	\$ _____	\$18.62	\$19.49	\$17.95
Price per lb. wool sold (cts.)	_____	50.2	51.5	49.0
Pounds of wool per sheep sheared	_____	9.3	9.6	9.1
Number of ewes kept for lambing	_____	34	27	40
% lamb crop**	_____	94	97	94
% death loss**	_____	8.7	8.1	9.5
Pounds of sheep produced	_____	2377	2028	2765
No. of head of sheep*	_____	46.9	36.9	57.3

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

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

Table 27. Feed Costs and Returns for Turkeys, 1953

Items	Your farm	Average of 4 farms
Feed per cwt. turkeys produced, lbs.:		
Grain	_____	380
Commercial feeds	_____	152
Total concentrates	_____	532
Feed cost per cwt. turkeys produced	\$ _____	\$16.29
Net increase in value per cwt. turkeys produced	\$ _____	\$31.11
RETURNS ABOVE FEED COST PER CWT. TURKEYS PRODUCED	\$ _____	\$14.82
RETURNS FOR \$100 FEED	\$ _____	\$192
No. of poults put on feed	_____	2512
Price paid per poult purchased (cts.)	_____	57.6
Per cent death loss	_____	15.5
Price received per lb. turkeys sold(cts.)	_____	36.0
Weight per bird sold (lbs.)	_____	14.2
Pounds of turkey produced		31862

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 28.

Table 28. 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	10.0 per cow	Small grain	.5 per acre
Other dairy & du.pur.cattle	3.5 per an. unit*	Sugar beets	1.5 per acre
Beef breeding herd	3.5 per an. unit*	Sweet corn	.7 per acre
Feeder cattle	.25 per 100 lbs.	Corn husked	.7 per acre
Sheep - farm flock	1.5 per an. unit*	Corn, hogged	.4 per acre
Sheep - feeder	.3 per 100 lbs.	Corn, shredded	1.5 per acre
Hogs	.2 per 100 lbs.	Corn, silage	1.0 per acre
Turkeys	.5 per 100 lbs.	Corn, fodder	1.0 per acre
Hens	20.0 per 100 hens	Alfalfa hay	.6 per acre
Canning peas	.5 per acre	Soybean hay	.8 per acre
Soybeans for grain	.5 per acre	Other hay crops	.4 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 29. Summary by Years

	Average 1928-29	Average 1930-34	Average 1935-39	Average 1940-44	Average 1945-48	1949	1950	1951	1952	1953
Number of farms	148	140	149	177	171	164	165	162	160	157
Acres in farm	170	199	218	227	223	223	222	222	229	226
Crop acres in farm	116	136	147	148	148	150	153	153	158	156
Farm inventory	\$24574	\$19851	\$20286	\$25912	\$30428	\$35300	\$37768	\$42333	\$45863	\$43289
Farm earnings (see page 27.)										
FARM EXPENSES										
Cattle	\$ 141	\$ 83	\$ 213	\$ 441	\$ 447	\$ 636	\$ 807	\$ 1271	\$ 1084	\$ 653
Hogs bought	85	52	72	154	188	217	179	219	136	231
Sheep bought	6	14	94	64	76	18	10	54	26	35
Poultry bought	37	41	80	142	175	182	148	145	161	170
Horses bought	36	33	43	32	14	12	9	5	11	4
Misc. livestock expense	66	64	94	124	217	268	315	327	323	421
Misc. crop expenses	186	160	222	301	682	780	819	876	957	1170
Feed bought	440	313	535	1273	2000	1773	1972	2299	2383	2148
Custom work hired	-	-	-	165	386	461	446	522	583	592
Power mach. (new & exp.)	399	321	559	717	1421	2128	2186	2194	1932	1934
Mach. and equip. (new)	190	122	281	392	808	990	1251	1380	1181	1274
Mach. and equip. (upkeep)	72	55	67	144	277	290	304	346	364	380
Bldgs., fencing (new)	130	81	245	331	696	1109	1139	1218	972	835
Bldgs., fencing (upkeep)	52	32	79	188	303	403	409	359	377	370
Hired labor	272	243	398	585	813	990	891	885	901	806
Taxes and insurance	298	313	281	303	418	575	656	671	756	777
General farm	30	28	35	52	87	115	116	128	140	145
Total farm purchases	\$2,440	\$1,955	\$3,298	\$5,408	\$9,008	\$10,947	\$11,657	\$12,899	\$12,287	\$11,945
Decrease in farm capital	-	230	-	-	-	-	-	-	-	-
Board to hired labor	102	87	145	158	166	203	205	189	170	138
Interest on farm capital	1,228	992	1,014	1,296	1,521	1,765	1,888	2,117	2,293	2,164
Unpaid family labor	358	261	239	326	518	483	462	505	480	523
Total farm expenses	\$4,128	\$3,525	\$4,696	\$7,188	\$11,213	\$13,398	\$14,212	\$15,710	\$15,230	\$14,770

Table 29. Summary by Years (continued)

	Average 1928-29	Average 1930-34	Average 1935-39	Average 1940-44	Average 1945-48	1949	1950	1951	1952	1953
FARM RECEIPTS										
Cattle	\$ 753	\$ 431	\$ 713	\$ 1,335	\$ 1,877	\$ 2,602	\$ 2,844	\$ 3,551	\$ 2,992	\$ 2,748
Dairy products	1,662	1,188	1,451	2,138	4,134	3,866	4,005	4,500	5,021	5,070
Hogs	1,164	793	1,074	2,517	3,505	3,971	3,926	4,646	4,233	4,411
Sheep and wool	52	60	200	186	254	143	160	177	159	172
Poultry	140	166	381	629	735	416	327	359	342	468
Eggs	275	243	372	751	1,312	1,347	1,158	1,522	1,240	1,453
Horses	30	27	55	34	20	17	19	10	17	12
Corn	37	62	153	121	277	576	433	444	697	1,017
Small grain	241	177	357	278	695	511	766	461	500	398
Other crops	163	155	174	455	856	672	669	739	982	908
Income from labor off farm	102	118	168	141	183	153	199	232	151	125
Agric. adj. payments	0	74	230	254	64	36	59	60	72	51
Misc.	134	138	247	282	462	503	788	792	619	431
Total farm sales	\$ 4,753	\$ 3,632	\$ 5,575	\$ 9,121	\$14,374	\$14,813	\$15,353	\$17,493	\$17,025	\$17,264
Increase in farm cap.	617	-	524	921	1,632	527	3,457	3,064	1,364	654
Fam. living from farm	325	232	273	566	718	700	702	816	805	446
Total farm receipts	5,695	3,864	6,372	10,608	16,724	16,040	19,512	21,373	19,194	18,364
Total farm expenses	4,128	3,525	4,696	7,188	11,213	13,398	14,212	15,710	15,230	14,770
Operator's earnings	1,567	339	1,676	3,420	5,511	2,642	5,300	5,663	3,964	3,594
MISCELLANEOUS ITEMS										
Yield per A. corn (bu.)	44.8	43.4	47.2	55.7	46.6	51.3	52.0	50.8	65.0	61.8
Yield per A. barley (bu.)	36.0	26.2	28.7	24.8	31.4	28.2	34.6	27.9	25.7	25.9
Yield per A. oats (bu.)	46.0	40.0	43.4	44.2	48.5	47.2	45.7	48.6	45.7	37.4
Yield per A. alfalfa (tons)	3.0	2.3	2.3	2.4	2.4	2.2	2.2	2.9	2.7	2.9
Per cent high return crops	31.9	35.8	41.0	43.3	49.6	56.0	55.9	63.2	64.0	65.7
A.U. livestock per 100 A.	19.2	20.6	19.3	24.5	22.8	22.7	22.7	29.6	29.9	30.7
No. of work units	599	747	777	670	607	577	588	594	599	440
Work units per worker	310	338	341	305	304	288	294	313	315	244
Expenses per work unit	\$1.76	\$1.26	\$1.37	\$2.35	\$4.37	\$5.97	\$5.95	\$6.54	\$6.96	\$9.70
No. of work horses	5.4	5.4	4.5	3.9	2.7	2.0	1.6	1.3	1.1	.9
No. of colts and ponies	.8	.7	1.2	.8	.3	.2	.1	.1	.2	.2
No. of milk cows	14.2	17.8	17.8	17.6	16.9	17.4	17.2	16.6	17.2	18.6

Table 29. Summary by Years (continued)

Misc. Items (cont.)	Average 1928-29	Average 1930-34	Average 1935-39	Average 1940-44	Average 1945-48	1949	1950	1951	1952	1953
No. of litters of pigs	9.3	10.8	9.5	14.4	11.2	13.7	14.0	15.5	13.4	11.8
Lbs. of hogs produced	12,706	15,153	13,438	21,586	17,772	21,438	21,593	23,957	22,967	18,799
No. of head of sheep	7.0	13.5	18.8	15.8	11.2	9.3	8.4	10.1	10.9	11.3
No. of hens	136	169	182	222	239	220	219	224	217	217
Lbs. B.F. per dairy cow	244	240	238	252	271	305	312	307	299	309
Lbs. B.F. per dual pur. cow	-	-	-	185	177	197	206	204	185	181
Pigs weaned per litter	6.3	6.1	6.4	6.2	6.4	6.7	6.6	6.5	6.9	6.7
No. of eggs laid per hen	95	114	131	145	174	191	198	193	192	194
PRICE RECEIVED PER:										
Lb. B.F. sold as cream	\$.52	\$.28	\$.34	\$.47	\$.82	\$.70	\$.70	\$.79	\$.85	\$.75
Cwt. hogs sold	8.92	4.98	8.26	10.93	19.74	17.84	18.25	19.69	17.43	21.28
Cwt. feeder cattle sold	-	-	-	11.55	19.87	23.32	27.31	33.83	28.91	20.73
Lb. wool sold	.36	.16	.25	.39	.43	.45	.55	.93	.44	.50
Doz. eggs sold	.28	.16	.19	.27	.39	.40	.33	.44	.37	.42
Lb. turkey sold	-	-	.20	.27	.38	.40	.36	.39	.38	.36
RETURN ABOVE FEED COST PER:										
Dairy cow	\$76.50	\$28.15	\$49.95	\$81.83	\$165.33	\$145.03	\$160.62	\$189.01	\$178.78	\$138.36
Dual purpose cow	-	-	-	51.55	105.44	99.52	104.44	130.72	89.25	34.23
Cwt. hogs produced	1.50	.48	2.98	3.93	6.25	5.43	6.99	5.94	2.68	10.17
Head of sheep	5.50	.81	2.82	4.63	7.24	6.70	13.25	14.72	1.20	1.09
Hen	1.82	.99	1.12	1.82	2.14	2.99	1.62	2.73	1.00	2.50
Cwt. turkeys prod.	-	-	10.81	13.54	14.09	16.52	10.83	12.02	10.40	14.82
FEED COST PER:										
Dairy cow	\$69.50	\$47.30	\$44.93	\$63.13	\$121.46	\$130.28	\$136.97	\$144.56	\$144.82	\$144.06
Dual purpose cow	-	-	-	52.08	83.46	88.73	99.65	101.54	98.59	101.01
Cwt. hogs produced	7.66	4.21	5.10	7.52	13.94	10.40	12.20	13.31	13.87	13.04
Head of sheep	2.82	2.23	2.62	3.30	5.12	5.35	6.25	7.18	7.71	7.81
Hen	1.62	1.13	1.57	2.38	4.50	3.95	4.49	4.83	5.13	4.69
Cwt. turkeys prod.	-	-	8.47	12.86	20.34	17.08	19.32	21.11	21.61	16.29
Horse	55.09	35.59	36.02	41.52	43.96	36.75	42.66	44.31	-	-
PRICE OF FEED:										
Corn (per bu.)	\$.70	\$.45	\$.59	\$.71	\$ 1.36	\$ 1.02	\$ 1.20	\$ 1.36	\$ 1.34	\$ 1.31
Barley (per bu.)	.60	.42	.49	.59	1.39	.99	1.20	1.23	1.21	1.11
Oats (per bu.)	.48	.26	.28	.46	.79	.59	.72	.81	.76	.71
Bran (per cwt.)	1.70	.98	1.22	1.80	2.74	2.85	2.80	3.20	3.50	2.95
Oilmeal (per cwt.)	3.00	1.96	2.12	2.30	3.80	4.00	3.95	3.85	4.85	4.10
Alfalfa (per ton)	14.75	11.10	9.30	9.90	18.00	20.00	21.00	19.00	17.00	17.50

Foot note for pages 24, 25, and 26.

The values of farm real estate in 1931 were reduced approximately 25 per cent from 1928-1930 values. The values in 1932 were reduced about 29 per cent from the 1931 values. Only land was affected by the reduction in 1931, but in 1932 buildings and improvements were cut 25 per cent. In 1936 the values of land were adjusted upward 10 per cent. The value of dairy cows was also adjusted downward in 1932 and upward in 1936. The capital losses were not included in the inventory decreased in the financial statement but the changes in valuation resulted in variations in the interest charge. No changes in the basis of inventory valuations were made in the years 1933 to 1935 and 1937 to 1953.

The charges for unpaid family labor and board for hired labor were also changed from year to year. The rates used for the period 1928 to 1953 were as follows:

<u>Year</u>	<u>Unpaid family labor</u>	<u>Board for hired labor</u>	<u>Year</u>	<u>Unpaid family labor</u>	<u>Board for hired labor</u>
1928-30	\$60	\$20	1941	\$50	\$20
1931	40	15	1942	60	25
1932-34	30	10	1943	75	25
1935	40	15	1944	85	25
1936	43	18	1945	90	25
1937-40	45	18	1946	100	30
			1947-53	125	36

Several changes were made in the 1940 records. The value of the house which had previously been omitted from the farm business was included and a rental charge equal to 10 per cent of the average value of the house was included with the farm perquisites. The standards used in the calculation of work units were changed in accordance with the new information made available. This latter change also affected the work units per worker and the factor of expense per work unit. The acres in protected woodlots, roads, waste and farmstead were omitted from the acreage used in the calculation of amount of livestock per 100 acres. Several new livestock statements were added. Cattle were classified into two groups: "specialized dairy cattle" and "dual purpose cattle". Statements for beef breeding cattle, feeder cattle and feeder sheep were also included.

The crop ratings used in calculating the percentage of the tillable land in high return crops were changed considerably in 1944 and the animal unit equivalent were changed in 1951.

The standards used in the calculation of work units were changed in 1953. Also the value of the house, which had been included in the investment of the farm buildings since 1940, was omitted from all the records except the net worth statements.

These adjustments should be considered in comparing 1953 results with previous years.