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1953 ANNUAL REPORT
SOUTHWESTERN 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

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

and the

Southwest Minnesota Farm Management Association
Cooperating

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Report No. 215
Department of Agricultural Economics
Institute of Agriculture
St. Paul 1, Minnesota
June 1954

1953 ANNUAL REPORT OF THE SOUTHWEST MINNESOTA FARM MANAGEMENT SERVICE

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

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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 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 and E. Hartmans of the Agricultural Extension Service. Harlund Routhe is the field agent for this project. At the end of the year S. A. Engene, Niels Rorholm, Donald Moore, Jay Swanson, R. B. Zoller and R. H. Hinton 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, James Johnson, Raymond W. Palmby, R. J. Clifford, A. B. Hagen, Ross Huntsinger, Clem Chase, J. I. Swedberg, Gregory D. Luehr, and John Ankeny.

The officers for the Southwest Farm Management Association for 1953 were:
President: Kenneth Hansberger, Worthington, Nobles County
Vice-president: George Rentschler, Lakefield, Jackson 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; Steve Rubis, Jackson County; Donald Jensen, Martin County; Handley Richardson, Murray County; Walter Strom and Lloyd Standafer, Nobles County; Kenneth Butmans, Pipestone County; Melvin Manguson and Elmer Rolland, Redwood County and James Juhl, Rock County.

The following tabulation shows by counties the number of members who submitted records in 1953.

Cottonwood	6	Martin	9	Redwood	24
Faribault	17	Murray	20	Rock	5
Jackson	24	Nobles	45	Watowan	5
		Pipestone	11	TOTAL	166

In the tables on page 3 and succeeding pages are shown data for 153 farms. Ten farms were omitted from all of the averages in the tables because the records were not sufficiently complete for a full analysis. Three records were not returned for analysis following completion of income tax schedules.

Because the farmers included in this study are, in general, above the average in managerial ability and operate larger and more productive farms, they have returns materially higher than the average for this section of the state. There were, nevertheless, wide variations in the methods and practices followed by these men. It is reasonable to assume that similar variations occur among all farmers in this 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. Summary of Farm Inventories, 1953*

Items	Your farm		Average of 153 farms	
	Jan. 1	Dec. 31	Jan. 1	Dec. 31
Size of farm (acres)			283	
Size of business (work units)**			397	
Dairy and dual purpose cows			\$ 1003	\$ 977
Other dairy & dual purpose cattle			708	501
Beef cattle (Incl. feeders)			7070	5483
Hogs			2367	2686
Sheep (including feeders)			1020	604
Poultry (including turkeys)			254	308
Productive livestock (total)			12422	10559
Horses			21	21
Crop, seed and feed			7843	8480
Power mach. (farm share)			3356	3452
Crop and general machinery			4477	4438
Livestock equipment and supplies			682	732
Machinery & equipment (total)			8515	8622
Miscellaneous			4	5
Buildings, fences, etc.			9417	9610
Land			24389	24389
Total farm capital			62611	61686

Items	31 most profitable farms		31 least profitable	
	Jan. 1	Dec. 31	Jan. 1	Dec. 31
Size of farm (acres)	376		298	
Size of business (Work units)**	503		381	
Dairy and dual purpose cows	\$ 1097	\$ 873	\$ 759	\$ 705
Other dairy & dual purpose cattle	789	394	397	225
Beef cattle (incl. feeders)	7378	7727	11492	8114
Hogs	3663	4577	1689	1435
Sheep (including feeders)	181	174	2690	969
Poultry (including turkeys)	291	374	245	327
Productive livestock (total)	13399	14119	17272	11775
Horses	9	16	41	38
Crop, seed, and feed	10910	11990	8298	8486
Power mach. (farm share)	3731	4026	3777	3551
Crop & general machinery	5054	5274	4787	4597
Livestock equipment and supplies	710	742	674	743
Machinery & equipment (total)	9495	10042	9238	8891
Miscellaneous	-	-	19	22
Buildings, fences, etc.	11215	11393	9847	9932
Land	29463	29466	23059	23059
Total farm capital	74491	77026	67774	62203

* 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), 1953

Items	Your farm	Average of 153 farms	31 most profitable farms	31 least profitable farms
FARM RECEIPTS				
Dairy and dual-purpose cows	_____	\$ 259	\$ 466	\$ 163
Dairy products	_____	1369	1555	651
Other dairy and dual-purpose cattle	_____	313	594	119
Beef cattle (including feeders)	_____	7695	7846	12183
Hogs	_____	7237	11674	4403
Sheep and wool (including feeders)	_____	1633	170	4083
Poultry (including turkeys)	_____	478	724	191
Eggs	_____	1166	1218	1253
Horses	_____	4	2	9
Corn	_____	2742	4010	2326
Small grain	_____	1153	2109	867
Other crops	_____	1102	1605	791
Machinery and equipment sold	_____	170	248	148
Agricultural adjustment payments	_____	65	91	69
Income from work off the farm	_____	346	455	358
Miscellaneous	_____	88	72	136
(1) Total farm sales	_____	25820	32839	27690
(2) Increase in farm capital	_____	-	2535	-
(3) Family living from the farm	_____	344	400	354
(4) Total farm receipts (1)+(2)+(3)	_____	26164	35774	28044
FARM EXPENSES				
Dairy and dual-purpose cows bought	_____	\$ 74	\$ 24	\$ 21
Other dairy & dual-pur. cattle bought	_____	84	134	20
Beef cattle bought (incl. feeders)	_____	2841	3344	4900
Hogs bought	_____	427	369	418
Sheep bought (incl. feeders)	_____	766	3	1690
Poultry bought (incl. turkeys)	_____	187	225	136
Horses bought	_____	9	8	21
Misc. livestock expense	_____	400	532	335
Misc. crop expenses	_____	1496	2213	1454
Feed bought	_____	4060	5467	3881
Custom work hired	_____	468	502	472
Mech. power mach. (farm share)(new)	_____	705	946	480
Mech. power mach. (farm share)(upkp.)	_____	472	617	509
Mech. power (F. share)(gas, oil, etc.)	_____	1080	1330	1148
Crop and general machinery (new)	_____	779	1165	780
Crop and general machinery (upkeep)	_____	333	399	331
Livestock equipment (new)	_____	191	220	200
Livestock equipment (upkeep)	_____	125	113	164
Buildings and fencing (new)	_____	738	839	677
Buildings and fencing (upkeep)	_____	304	306	300
Hired labor	_____	928	1211	1162
Taxes	_____	685	834	772
General farm and insurance	_____	267	336	319
(5) Total farm purchases	_____	17419	21137	20190
(6) Decrease in farm capital	_____	925	-	5571
(7) Interest on farm capital	_____	3107	3788	3249
(8) Unpaid family labor	_____	339	435	484
(9) Board furnished hired labor	_____	100	114	132
(10) Total farm exp. (sum of (5) to (8))	_____	21890	25474	29626
(11) Labor earnings (4)-(10)	_____	4274	10300	-1582

Table 3. Summary of Farm Earnings (Enterprise Statement) 1953*

Items	Your farm	Average of 153 farms	31 most profitable farms	31 least profitable farms
RETURNS AND NET INCREASES				
Dairy and dual-purpose cows	_____	\$ 1333	\$ 1582	\$ 617
Other dairy & dual-pur. cattle	_____	364	410	62
Beef breeding herd	_____	510	335	718
Feeder cattle	_____	2843	4631	3363
Hogs	_____	7204	12305	3762
Sheep-farm flock	_____	192	159	263
Sheep-feeders	_____	260	-	411
Turkeys	_____	294	674	-
Chickens	_____	1289	1199	1466
All productive livestock	_____	14289	21295	10662
Crops, seed, and feed	_____	50	1104	-1141
Agricultural conservation payments	_____	65	91	69
Income from labor off the farm	_____	172	260	150
Miscellaneous	_____	80	72	139
(1) Total returns & net increases	_____	14656	22822	9879
EXPENSES AND NET DECREASES				
Horses	_____	\$ 15	\$ 8	\$ 41
Tractor	_____	1078	1403	1125
Truck	_____	284	337	350
Auto (farm share)	_____	454	495	516
Elec. & gas engine exp.(F. share)	_____	157	178	153
Hired power	_____	207	219	209
Total power	_____	2195	2640	2394
Crop and general machinery	_____	1158	1278	1324
Livestock equipment	_____	253	264	287
Buildings, fencing, and tiling	_____	837	963	893
Misc. productive livestock exp.	_____	400	532	334
Labor	_____	1480	1887	1889
Real estate taxes	_____	534	668	616
Personal property tax	_____	151	166	156
Insurance	_____	101	172	115
General farm	_____	166	164	204
Interest on farm capital	_____	3107	3788	3249
(2) Total expenses & net decreases	_____	10382	12522	11461
(3) Labor earnings (1)-(2)	_____	4274	10300	-1582

* 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, 1953 (Operator's Share)

Items	Your farm		26 owners	
	Jan. 1	Dec. 31	Jan. 1	Dec. 31
Total acres in farm			216	
Owned			216	
Rented			-	
Total farm capital			\$ 53155	\$ 51078
Accounts receivable			88	87
Stocks and bonds			2622	2717
Life insurance			1517	1625
Outside real estate			1232	1175
Other outside investments			558	588
Total outside investments			5929	6105
Dwelling			4079	4013
Cash on hand and in bank			1571	3132
Other household & personal assets			2614	2863
Total cash, household & personal assets			8264	10008
TOTAL ASSETS			67436	67278
Federal Land Bank Mortgage			2622	2555
Other mortg. on land operated			6259	6140
Production Credit Association			2089	1214
Crop loans			865	1033
Other chattel mortgages			2064	1172
Notes payable			3290	2654
Accounts payable			186	102
TOTAL LIABILITIES			17375	14870
Farmer's net worth			50061	52408
Gain in net worth				+2347

Items	21 part owners*		39 renters**	
	Jan. 1	Dec. 31	Jan. 1	Dec. 31
Total acres in farm	274		480	
Owned	152		-	
Rented	122		480	
Total farm capital	\$ 41367	\$ 47317	\$ 19997	\$ 21186
Accounts receivable	625	429	8	157
Stocks and bonds	1993	2022	1058	1030
Life insurance	1399	1463	899	1027
Outside real estate	800	2038	55	55
Other outside investments	216	233	209	232
Total outside investments	4408	5756	2221	2344
Dwelling	4453	4955	-	-
Cash on hand and in bank	2077	2222	808	1229
Other household and personal assets	2738	2846	2391	2601
Total cash, household and pers. assets	9268	10023	3199	3830
TOTAL ASSETS	55668	63525	25425	27517
Federal Land Bank Mortgage	1198	1163	-	-
Other mortgages on land operated	3157	9061	-	385
Mortgages on other real estate	38	1181	-	-
Production Credit Association	409	329	593	381
Crop loans	372	936	415	863
Other chattel mortgages	2561	1956	2487	1845
Notes payable	1839	1692	2168	1993
Accounts payable	299	231	335	795
TOTAL LIABILITIES	9873	16549	5998	6262
Farmer's net worth	45795	46976	19427	21255
Gain in net worth		+1181		+1828

* 7 rented for cash, 7 cash and crop share and 7 crop share.

** 4 rented for cash, 18 cash and crop share, 2 crop share and 15 livestock share.

Table 5. Summary of Farm Earnings by Tenure, 1953 (Operator's Share)

Items	Your farm	26 owners	21 part owners	39 renters
FARM RECEIPTS				
Dairy and dual-purpose cows		\$ 264	\$ 210	\$ 174
Dairy products		1614	1241	911
Other dairy and dual-purpose cattle		519	298	227
Beef cattle (including feeders)		10413	5221	3786
Hogs		7308	9137	6133
Sheep and wool (including feeders)		695	1214	544
Poultry (including turkeys)		1962	227	139
Eggs		1538	1178	821
Horses		1	9	5
Corn		1460	964	1221
Small grain		727	495	697
Other crops		458	1011	663
Machinery and equipment sold		160	160	91
Agricultural adjustment payments		66	51	50
Income from work off the farm		166	314	303
Miscellaneous		137	60	38
(1) Total farm sales		27488	21790	15803
(2) Increase in farm capital		-	5950	1189
(3) Family living from the farm		316	426	331
(4) Total farm receipts (1)+(2)+(3)		27804	28166	17323
FARM EXPENSES				
Dairy and dual-purpose cows bought		\$ 17	\$ 10	\$ 105
Other dairy & dual-purpose cattle bought		67	27	71
Beef cattle bought (incl. feeders)		3077	2022	1329
Hogs bought		294	521	442
Sheep bought (including feeders)		12	307	191
Poultry bought (including turkeys)		443	144	124
Horses bought		3	14	4
Miscellaneous livestock expenses		445	510	276
Miscellaneous crop expenses		1484	1015	1148
Feed bought		5601	3681	3146
Custom work hired		542	425	374
Mech. power mach. (farm share)(new)		875	680	732
Mech. power mach. (farm share)(upkp.)		502	433	400
Mech. power (f. share)(gas, oil, etc.)		930	1000	837
Crop and general mach. (new)		612	614	791
Crop and general mach. (upkeep)		283	228	275
Livestock equipment (new)		283	103	122
Livestock equipment (upkeep)		116	155	80
Land, buildings and fencing (new)		1084	7801	462
Buildings and fencing (upkeep)		328	246	92
Hired labor		882	1120	592
Taxes (real estate & personal property)		596	393	98
General farm and insurance		329	258	183
Cash rent		-	527	481
Interest paid		887	379	254
(5) Total farm purchases		19692	22613	12609
(6) Decrease in farm capital		2077	-	-
(7) Interest on farm capital		1719	1838	779
(8) Unpaid family labor		194	340	167
(9) Board furnished hired labor		97	55	73
(10) Total farm exp. (sum of (5) to (8))		23779	24846	13628
(11) Labor earnings (4)-(10)		4025	3320	3695
(12) Ret. to cap. & fam. lab. (7)+(8)+(11)		5938	5498	4641

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

Items	Your farm	Average of 70 farms	14 most profitable farms	14 least profitable farms
Number of persons - family	_____	4.3	5.2	3.7
Number of adult equiv. - family	_____	3.0	3.4	2.8
other*	_____	.3	.2	.3
Food and meals bought	_____	\$ 789	\$ 886	\$ 636
Operating and supplies	_____	272	322	269
Clothing and clothing materials	_____	312	358	275
Personal care, personal spending	_____	94	54	125
Furnishings and equipment	_____	278	370	218
Education, recreation and development	_____	183	99	122
Medical care and health insurance	_____	326	267	602
Church, welfare	_____	246	169	269
Personal share of auto expense	_____	137	120	184
Household share of electric expense	_____	74	74	73
H.H. & pers. share of new auto, new dwelling	_____	266	226	397
House upkeep	_____	43	13	35
Gifts and special events	_____	136	114	155
Misc. taxes	_____	2	6	1
Total cash living expenses	_____	3158	3078	3361
State and Federal income taxes	_____	271	473	147
Insurance	_____	264	333	242
Total household and personal cash expense	_____	3693	3884	3750
Food furnished by the farm	_____	\$ 384	\$ 399	\$ 412
Fuel furnished by the farm	_____	5	9	-
Total cash expenses & perquisites	_____	4082	4292	4162
Purchase of stocks, bonds, and other invest.	_____	290	45	145
Receipts:				
Income from investments	_____	172	204	251
Miscellaneous income	_____	277	502	93
Return to capital and family labor	_____	5117	9249	630

* Hired help or others boarded.

Table 7. Family Living from the Farm, 1953

Items	Your farm	Average of 153 farms	Your farm	Average of 153 farms
No. of adult equivalents:				
Family	_____	3.1	_____	1.17
Other*	_____	.3	_____	
Whole milk	_____	645 qts.	_____	\$ 51.17
Skim milk	_____	68 qts.	_____	1.14
Cream	_____	54 pts.	_____	12.70
Cattle	_____	575 lbs.	_____	107.87
Hogs	_____	292 lbs.	_____	59.35
Sheep	_____	8 lbs.	_____	1.68
Poultry	_____	121 lbs.	_____	25.48
Eggs	_____	121 doz.	_____	46.37
Potatoes	_____	2 bus.	_____	2.33
Vegetables & fruits	_____		_____	31.13
Farm fuel	_____		_____	4.75
Total	_____		_____	343.97

* 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 labor earnings
None or 1	20	_____	XXXXXXXXXX	\$ 1925
2 or 3	58	_____	XXXXXXXXXXXXXXXXXXXXXX	3251
4 or 5	59	_____	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	5680
6 or 7	16	_____	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	5740

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, 1953

Measures used in chart on page 11	Your farm	Average of 153 farms	31 most profit- able farms	31 least profit- able farms
Labor earnings	\$ _____	\$ 4274	\$10300	\$-1582
(1) Crop yields*	_____	100	105	88
(2) Per cent tillable land in high ret.crops**	_____	64.8	66.3	67.5
(3) Ret. for \$100 feed to prod. livestock***	_____	100	114	86
(4) Prod. livestock units per 100 acres****	_____	31.3	34.2	28.4
(5) Size of business - work units	_____	397	503	381
(6) Work units per worker	_____	234	265	201
(7) Pow., mach., equip., & bldg. exp. per work unit	\$ _____	\$11.66	\$10.18	\$13.65
Items related to some of the above measures:				
(3) Index of return for \$100 feed from:				
Dairy cattle (see pages 16 & 17)	_____	100	118	71
Dual-purpose cattle (see pp. 16 & 17)	_____	100	-	82
Beef cattle - breeding herd (see p.15)	_____	100	90	105
Beef cattle - feeders (see page 15)	_____	100	135	80
Hogs (see page 14)	_____	100	106	98
Sheep - farm flock (see page 18)	_____	100	130	84
Sheep - feeders (see page 18)	_____	100	-	86
Turkeys	_____	100	-	-
Chickens (see page 19)	_____	100	93	99
(4) Number of animal units	_____	75.8	96.6	77.7
(5) Work units on crops	_____	137	180	141
Work units on productive livestock	_____	239	290	221
Other work units	_____	21	33	19
(6) Number of family workers	_____	1.2	1.3	1.3
Number of hired workers	_____	.5	.6	.6
Total number of workers	_____	1.7	1.9	1.9
(7) Power expense per work unit	\$ _____	\$ 5.82	\$ 5.25	\$ 6.66
Crop machinery expense per work unit	_____	3.04	2.55	3.81
Livestock equip. expense per work unit	_____	.63	.53	.73
Bldgs. & fencing exp. per work unit	_____	2.17	1.85	2.45

* 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.

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

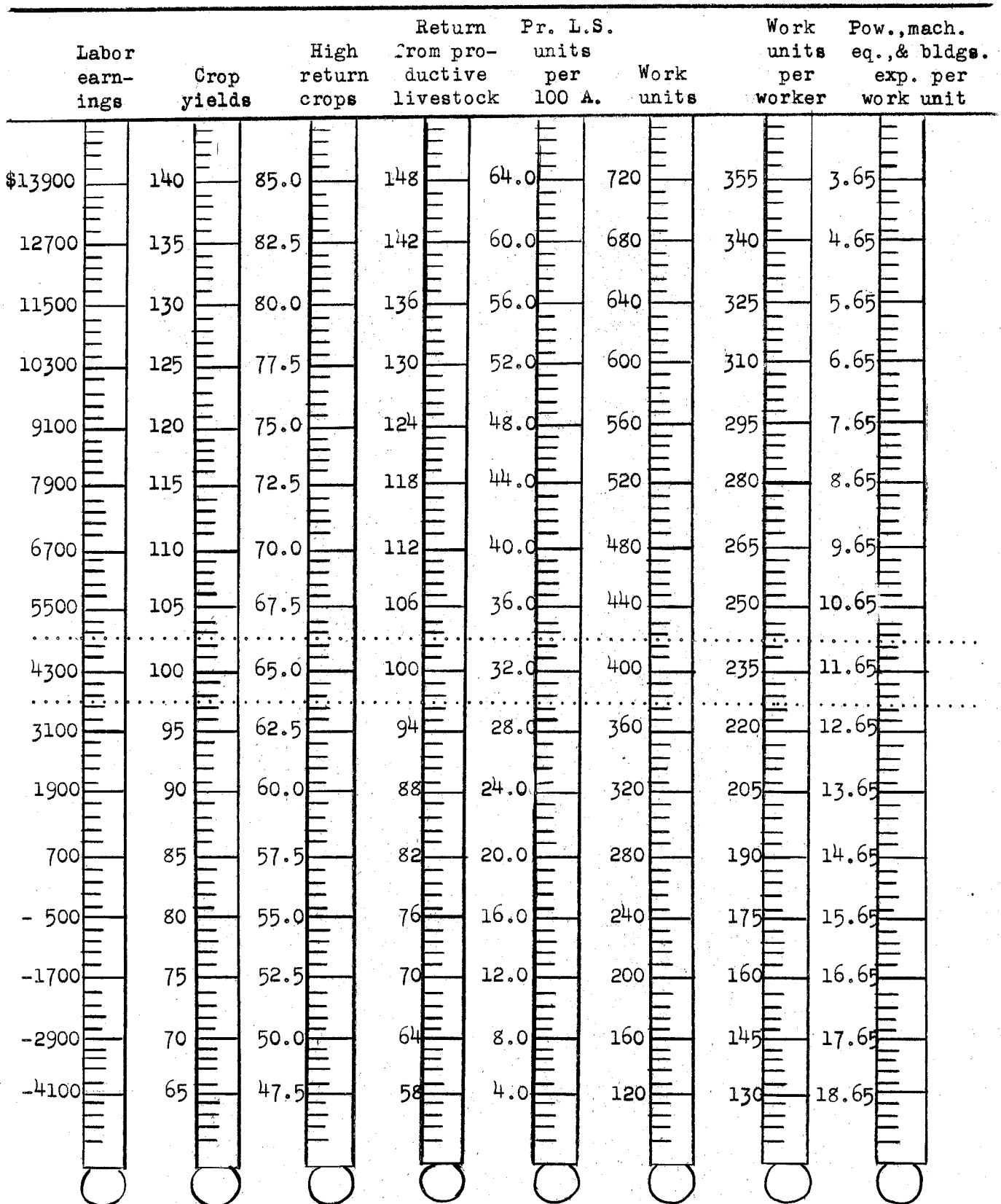


Table 10. Distribution of Acres in Farm and Yield of Crops, 1953

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 153 farms	Your farm	Average of farms growing each crop
Canning peas (A)	6	—	.9	—	\$ 29.68
Flax (C)	63	—	14.8	—	9.2 bu.
Barley (D)	15	—	3.7	—	22.4 bu.
Oats and oat mixtures (D)	145	—	48.5	—	27.7 bu.
Wheat (D)	4	—	.3	—	22.3 bu.
Rye (D)	3	—	.2	—	24.1 bu.
Total small grain and peas	151	—	68.4	—	
Hybrid seed corn, potatoes & truck crops (A)	6	—	.1	—	
Corn grain (A)	153	—	96.1	—	59.9 bu.
Corn or sorghum silage (B)	79	—	6.7	—	9.7 tons
Sweet corn (B)	4	—	1.6	—	2.7 tons
Soybeans for grain (B)	75	—	14.5	—	20.6 bu.
Corn or sorghum fodder (D)	1	—	.1	—	
Total cultivated crops	153	—	119.1	—	
Alfalfa hay (A)	139	—	28.6	—	2.9 tons
Mixed legumes & non-legumes (C)	27	—	2.2	—	2.2 tons
Legumes for seed (C)	4	—	.2	—	94 lbs.
Timothy and/or brome hay & seed (D)	6	—	.3	—	
Misc. hay and seed (D)	5	—	.3	—	
Total tillable land in hay	148	—	31.6	—	
Alfalfa and mixtures inc. alf. (A)	90	—	9.8	—	
Other legumes and mixtures (C)	16	—	1.8	—	
Sudan grass and/or rape (C)	7	—	.2	—	
Other tillable pasture (D)	37	—	3.9	—	
Total tillable land in pasture	115	—	15.7	—	
Tillable land not cropped (D)	13	—	1.4	—	
Total tillable land	153	—	236.2	—	
Wild or phalaris hay (non-tillable)	34	—	3.3	—	1.0 tons
Non-tillable pasture	91	—	25.6	—	
Roads, waste and timber		—	9.3	—	
Farmstead		—	8.8	—	
Total acres in farm		—	283.2	—	
Per cent land tillable		—	83.4	—	
Per cent tillable land in high return crops		—	64.9	—	

Table 11. 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	7.90
Linseed oilmeal, per cwt.	4.05	Corn silage, per ton	5.85
Soybean oilmeal, per cwt.	4.40	Pasture, per mo. per cow	2.50
Meat scraps, per cwt.	5.30	Skimmilk per cwt.	.36

Table 12. Power and Machinery Expenses Per Crop Acre, 1953

Items	Your farm	Average of 153 farms	31 most profitable farms	31 least profitable farms
Crop acres per farm	_____	222	293	229
Tractor and horse exp. per crop acre	_____	\$ 5.14	\$ 5.39	\$ 5.23
Crop & gen. mach. exp. per crop acre	_____	5.56	5.20	6.31

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 13. Total Feed Costs and Returns from Your Livestock Enterprises, 1953

Items	Dairy or dual purpose cattle			Beef	Feeder
	Cows	Other	All	breeding herd	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 14. Feed Costs and Returns from Hogs, 1953

Items	Your farm	Average of 128 farms	26 farms highest in returns above feed	26 farms lowest in returns above feed
Feed per cwt. hogs produced, lbs.:				
Corn	_____	313	258	372
Small grain	_____	89	89	102
Commercial feeds	_____	58	54	64
Total concentrates	_____	460	401	538
Skim milk and buttermilk	_____	37	24	62
Feed cost per cwt. hogs produced:				
Concentrates	\$ _____	\$ 12.01	\$ 10.35	\$ 14.23
Skim milk and buttermilk	_____	.13	.09	.22
Pasture	_____	.13	.12	.14
TOTAL FEED COSTS	\$ _____	\$ 12.27	\$ 10.56	\$ 14.59
Net increase in val. per cwt. hogs prod.	\$ _____	\$ 22.95	\$ 25.94	\$ 20.42
RETURNS ABOVE FEED COST PER CWT. HOGS PROD.	_____	\$ 10.68	\$ 15.38	\$ 5.83
RETURNS FOR \$100 OF FEED	\$ _____	\$ 195	\$ 256	\$ 142
Price received per cwt. hogs sold	\$ _____	\$ 21.19	\$ 22.54	\$ 20.45
No. of spring litters raised	_____	15.4	16.5	12.7
No. of fall litters raised	_____	5.8	4.5	5.0
Total no. of litters raised	_____	21.2	21.0	17.7
No. of pigs born per litter	_____	8.3	8.1	8.3
No. of pigs weaned per litter	_____	6.7	6.4	6.4
Pounds of hogs produced	_____	37277	34379	33370

Table 15. Feed Costs and Returns from Beef Cattle, 1953

Items	Your farm	Average of all farms
Beef breeding herd: No. of farms:		50
Feeds per animal unit, lbs.:		
Concentrates	_____	1427
Legume	_____	3007
Other hay	_____	692
Fodder and stover	_____	65
Silage	_____	4723
Feed cost per animal unit:		
Concentrates	\$ _____	\$ 34.89
Roughages	_____	43.22
Milk *	_____	.68
Pasture	_____	17.52
TOTAL FEED COSTS	_____	96.31
Value of produce per animal unit:		
Dairy products	\$ _____	\$ 10.28
Net increase in value of animals	_____	51.74
TOTAL VALUE PRODUCED	_____	62.02
RETURNS ABOVE FEED COST PER ANIMAL UNITS	\$ _____	\$ -34.29
RETURNS FOR \$100 OF FEED	\$ _____	\$ 71
Number of cows and herd bulls	_____	19.4
Number of other beef cattle	_____	20.2
Number of animal units in the herd	_____	22.3
Lbs. beef produced	_____	10763
Feeding Cattle: No. of farms		91
Feeds per cwt. beef produced, lbs.:		
Corn	_____	630
Small grain	_____	26
Commercial feeds	_____	57
Legume hay	_____	315
Other hay	_____	43
Fodder and stover	_____	3
Total concentrates	_____	713
Total hay and fodder	_____	361
Silage	_____	600
Feed cost per cwt. beef produced:		
Concentrates	\$ _____	\$ 18.21
Roughages	_____	4.50
Pasture	_____	.73
TOTAL FEED COSTS	_____	23.44
Net increase in value of feeders	_____	16.94
RETURNS ABOVE FEED COST PER CWT. BEEF PROD.	_____	-6.50
RETURNS FOR \$100 OF FEED	\$ _____	\$ 93
Price paid per cwt. beef bot	\$ _____	\$ 14.93
Price recd. for feeder cattle sold	_____	20.36
Number of animal units	_____	44.6
Pounds of beef produced	_____	24589

* From the dairy herd

Table 16. Factors of Cost and Returns from Dairy and Dual-Purpose Cows, 1953

	Your farm	Average of 49 dairy herds	Average of 13 dual-pur- pose herds
Pounds of butterfat per cow	_____	286	196
% butterfat in milk	_____	3.7	3.6
Price rec. per lb. B. F. sold (cts.)	_____	84.2	74.0
As manufacturing cream (cts.)	_____	71.0	70.7
Other (cents)	_____	96.0	-
Feeds per cow, lbs.:			
Corn	_____	1750	1555
Small grain	_____	966	439
Commercial feeds	_____	311	137
Legume hay	_____	3894	3980
Other hay	_____	266	405
Fodder and stover	_____	-	-
Total concentrates	_____	3027	2131
Total dry roughage	_____	4160	4385
Silage	_____	6164	4773
Feed cost per cow:			
Concentrates	\$ _____	\$ 76.06	\$ 53.61
Roughages	_____	54.31	50.20
Pasture	_____	12.53	10.81
TOTAL FEED COSTS	\$ _____	142.90	114.62
Value of produce per cow:			
B.F. sales	\$ _____	\$ 231.30	\$ 127.38
Dairy produce used in house	_____	11.07	13.34
Milk to livestock	_____	16.42	23.96
Net increases in value of cows	_____	-22.26	-15.74
TOTAL VALUE PRODUCED	_____	236.53	148.94
RETURNS ABOVE FEED COST PER COW	\$ _____	93.63	34.32
RETURNS FOR \$100 OF FEED	\$ _____	\$ 170	\$ 140
Feed cost per lb. B.F. (cts.)	_____	50.0	58.5
Number of cows*	_____	13.5	8.7

* 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, 1953

Items	Your farm	Average of 49 dairy herds	Average of 11 dual-purpose herds*
Feeds per head, lbs.:			
Concentrates	_____	702	831
Hay and fodder	_____	1385	1233
Silage	_____	2017	1219
Skim milk	_____	558	963
Whole milk	_____	229	440
TOTAL FEED COSTS PER HEAD	\$ _____	\$ 49.47	\$ 58.32
Net inc. in value of other dairy cattle	_____	63.32	58.88
RETURNS ABOVE FEED COST PER HEAD	\$ _____	13.85	.56
RETURNS FOR \$100 OF FEED	\$ _____	\$ 128	\$ 101
Number of head of other dairy cattle	_____	16.6	14.7

Table 18. Feed Costs and Returns from All Dairy and Dual-Purpose Cattle, 1953

Items	Your farm	Average of 49 dairy herds	Average of 13 dual-purpose herds
Feeds per animal unit, lbs.:			
Concentrates	_____	2415	1860
Hay and fodder	_____	3689	3677
Silage	_____	5395	4443
TOTAL FEED COSTS PER ANIMAL UNIT	\$ _____	\$120.36	\$101.83
Value of produce per animal unit:			
Dairy products	\$ _____	\$160.10	\$ 90.36
Net inc. in value of dairy cattle	_____	28.91	34.54
TOTAL VALUE PRODUCED	\$ _____	189.01	124.90
RETURNS ABOVE FEED PER ANIMAL UNIT	\$ _____	68.65	23.07
RETURNS PER \$100 OF FEED	\$ _____	\$ 164	\$ 137
Animal units of dairy cattle	_____	22.0	15.2

* 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, 1953

Items	Your farm	Average of 37 farms	12 farms highest in returns above feed	12 farms lowest in returns above feed
Feeds per head,* lbs.				
Concentrates	_____	99	96	117
Legume hay	_____	315	230	413
Other hay	_____	42	18	44
Silage	_____	108	137	115
Feed cost per head:				
Concentrates	\$ _____	\$ 2.34	\$ 2.27	\$ 2.74
Roughages	_____	3.34	2.51	4.27
Pasture	_____	2.27	2.24	2.37
TOTAL FEED COSTS	\$ _____	7.95	7.02	9.38
Value of produce per head:				
Wool	\$ _____	\$ 3.51	\$ 3.68	\$ 3.40
Net increase in value of sheep	_____	6.50	12.33	.28
TOTAL VALUE PRODUCED	\$ _____	10.01	16.01	3.68
RETURNS ABOVE FEED COST PER HEAD	\$ _____	\$ 2.06	\$ 8.99	\$ -5.70
RETURNS FOR \$100 OF FEED	\$ _____	\$ 136	\$ 232	\$ 31
Price per cwt. of lambs sold	\$ _____	\$18.78	\$19.38	\$18.50
Price per lb. wool sold (cts.)	_____	53.0	54.6	53.2
Pounds of wool per sheep sheared	_____	8.6	9.4	7.8
Number of ewes kept for lambing	_____	53	51	57
Per cent lamb crop**	_____	108	123	101
Per cent death loss**	_____	9.3	5.7	12.2
Pounds of sheep produced	_____	4157	5846	2513
No. of head of sheep*	_____	76.2	74.9	76.6

* 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, 1953

Items	Your farm	Average of 11 farms
Feed per cwt. lambs produced, lbs.:		
Concentrates	_____	1015
Legume hay	_____	530
Other hay	_____	98
Fodder and stover	_____	27
Silage	_____	348
Feed cost per cwt. lambs produced	_____	\$31.86
Net increase in value per cwt. produced	_____	32.24
Return above feed cost per cwt. produced	_____	.38
RETURN FOR \$100 OF FEED	_____	\$ 116
Price paid per cwt. lambs bought	_____	\$16.26
Price received per cwt. lambs sold	_____	20.71
% death loss	_____	4.2
Pounds of lambs produced	_____	14119

Table 21. Feed Costs and Returns from Chickens, 1953*

Items	Your farm	Average of 106 farms	21 farms highest in return above feed	21 farms lowest in return above feed
Feed per hen, lbs.:				
Grain	_____	92	84	112
Commercial feeds	_____	52	53	52
Total concentrates	_____	144	137	164
Skim milk and buttermilk	_____	2	8	1
TOTAL FEED COST PER HEN	\$ _____	\$ 4.64	\$ 4.32	\$ 5.22
Value of produce per hen:				
Eggs sold and used in house	\$ _____	\$ 6.19	\$ 7.11	\$ 4.80
Net increase in value of chickens	_____	.65	1.34	.41
TOTAL VALUE PRODUCED	\$ _____	6.84	8.45	5.21
RETURNS ABOVE FEED COST PER HEN	\$ _____	2.20	4.13	-.01
RETURNS FOR \$100 OF FEED	\$ _____	\$ 153	\$ 201	\$ 103
Price rec'd per doz. eggs sold(cts.)	_____	40.0	40.8	39.5
Eggs laid per hen	_____	186	209	147
Ave. no. of hens on farm during year	_____	261	319	178
Per cent of hens that are pullets	_____	92	92	92
Per cent death loss of hens	_____	14	10	17
Number of chicks started:				
Pullets	_____	332	407	215
Straight run	_____	92	87	114
Cockerels	_____	35	58	31
Lbs. chickens produced	_____	1477	2430	956

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

Table 22. Feed Cost and Returns from Laying Hens, 1953

Items	Your farm	Average of 35 farms
Feed per hen, lbs.:		
Grain	_____	69
Commercial feeds	_____	37
Total concentrates	_____	106
Skim milk	_____	2
Total feed cost per hen	\$ _____	\$ 3.35
Value of produce per hen:		
Eggs sold and used in home	\$ _____	\$ 6.21
Less depreciation and death loss	_____	-.91
Total value produced	_____	5.30
Return above feed cost per hen	\$ _____	\$ 1.95
Return for \$100 of feed	\$ _____	\$ 159
Eggs laid per hen	_____	187
Price rec'd per doz. eggs sold (cts.)	_____	40.1
Ave. no. hens on farm during year	_____	284
No. of hens on hand beginning of year	_____	320
Per cent death loss	_____	12
Per cent of hens that are pullets	_____	85

Table 23. Feed Costs and Returns from Chicks, 1953

Items	Your farm	Average of 30 farms
Feed per 100 chicks raised, lbs.:		
Grain	_____	1128
Commercial feeds	_____	1058
Total concentrates	_____	2186
Skim milk	_____	53
Total feed cost per 100 chicks raised	\$ _____	\$ 80.40
Net increase in value per 100 chicks	_____	100.62
Return over feed cost per 100 chicks	_____	20.22
Return for \$100 of feed	\$ _____	\$ 125
Number of chicks bought:		
Pullets	_____	402
Straight run	_____	104
Cockerels	_____	41
Price paid per 100 chicks bought:		
Pullets	\$ _____	\$ 44.98
Straight run	_____	19.62
Cockerels	_____	9.97
Per cent death loss	_____	13
Number chicks raised	_____	478
Price rec'd per pound sold (cts.)	_____	20.8
Pounds of poultry produced	_____	1960

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	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 - feeders	.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 25. Summary of Farm Earnings by Years

Items	Average										
	1940-43	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953
No. of farms	165	163	153	142	137	136	131	139	122	118	153
Total farm capital	\$36167	\$36000	\$35876	\$36810	\$39671	\$44143	\$46452	\$50868	\$54869	\$58082	\$62148
Monthly charge for:											
Unpaid family labor*	58	85	90	110	130	130	130	130	130	130	130
Board to hired labor*	22	25	25	30	36	36	36	36	36	36	36
FARM EXPENSES											
Dairy and dual-pur. cattle bought	\$ 122	\$ 112	\$ 118	\$ 237	\$ 135	\$ 170	\$ 214	\$ 321	\$ 252	\$ 264	\$ 158
Beef cattle bought (incl. feeders)	1478	1109	1390	1754	1916	2341	2733	4120	5581	4461	2841
Hogs bought	265	315	377	382	646	389	441	478	395	361	427
Sheep bought (incl. feeders)	665	321	600	464	301	97	365	543	881	569	766
Poultry bought (incl. turkeys)	125	200	195	164	156	133	179	164	246	122	187
Horses bought	37	43	15	14	14	11	2	6	5	4	9
Miscellaneous livestock expense	132	173	194	198	270	273	304	328	391	369	400
Miscellaneous crop expenses	358	582	575	750	1055	1112	851	966	995	1079	1496
Feed bought	2010	2164	2416	2669	4014	3926	2929	3807	4973	4318	4060
Custom work hired	176	261	292	300	394	421	375	382	406	439	468
Power machinery (new)	315	337	200	449	847	1173	1116	1164	1063	610	705
Power machinery (upkeep, gas, oil)	515	699	817	963	1116	1277	1233	1308	1336	1438	1552
Crop and general machinery (new)	336	332	414	601	897	1328	1319	1248	1121	871	779
Crop and general machinery (upkeep)	111	174	195	258	290	368	310	292	306	323	333
Livestock equipment (new)	117	91	78	97	122	108	88	124	157	124	191
Livestock equipment (upkeep)	49	78	94	92	114	131	126	125	142	121	125
Buildings and fencing (new)	352	297	370	409	754	941	908	741	1082	1023	738
Buildings and fencing (upkeep)	138	192	219	268	311	413	384	331	286	331	304
Hired labor	578	651	636	723	796	944	872	843	910	835	928
Taxes	335	311	311	367	378	459	499	534	565	627	685
Insurance	30	41	41	49	61	71	56	78	77	87	101
General farm	62	80	84	108	112	140	146	146	165	162	166
Total farm purchases	8306	8563	9631	11316	14699	16226	15450	18049	21335	18538	17419
Decrease in farm capital	-	412	-	-	-	-	-	-	-	-	925
Interest on farm capital	1808	1800	1794	1841	1984	2207	2323	2543	2743	2904	3107
Unpaid family labor	309	316	322	363	422	421	356	360	367	335	339
Board furnished hired labor	148	118	83	105	116	127	102	99	79	91	100
Total farm expense	\$10571	\$11209	\$11830	\$13625	\$17221	\$18981	\$18231	\$21051	\$24524	\$21868	\$21890

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

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

Items	Average 1940-43	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953
FARM RECEIPTS											
Dairy and dual-pur. cattle	\$ 380	\$ 392	\$ 473	\$ 515	\$ 688	\$ 616	\$ 572	\$ 904	\$ 781	\$ 765	\$ 612
Dairy products	762	865	906	1083	1031	1046	874	885	1015	1124	1369
Beef cattle	3306	2478	3777	3711	4248	4508	4988	6438	9411	8115	7695
Hogs	3358	4671	4484	6166	8662	8207	6358	6801	7930	7322	7237
Sheep and wool	968	768	926	834	766	421	308	810	753	1057	1633
Poultry (incl. turkeys)	497	829	659	620	444	418	485	590	838	184	478
Eggs	518	911	977	993	1043	1108	1052	790	1055	875	1166
Horses	44	47	27	24	28	25	12	14	6	12	4
Corn	586	578	587	814	1183	1498	1606	1542	997	1245	2742
Small grain	1121	669	949	1446	2436	3818	1626	1694	1240	1217	1153
Other crops	350	600	673	878	911	1160	772	677	901	981	1102
Machinery and equip. sold	199	185	251	363	383	355	470	446	644	378	170
Agri. adjustment payment	444	74	51	121	61	65	29	57	72	70	65
Income work off the farm	172	183	295	343	344	306	277	290	398	341	346
Miscellaneous	230	197	48	67	83	124	66	112	130	154	88
Total farm sales	\$12935	\$13447	\$15083	\$17978	\$22311	\$23675	\$19495	\$22050	\$26171	\$23840	\$25820
Increase in farm capital	1475	-	314	3223	5634	1542	1260	5214	2561	1216	-
Family living from farm	549	572	635	679	667	702	649	669	708	748	344
Total farm receipts	\$14959	\$14019	\$16032	\$21880	\$28612	\$25919	\$21404	\$27933	\$29440	\$25804	\$26164
Total farm expenses	10571	11209	11830	13625	17221	18981	18231	21051	24524	21868	21890
Labor earnings	4388	2810	4202	8255	11391	6938	3173	6882	4916	3936	4274
MEAS. OF FARM ORG. AND MANAGEMENT											
Per cent high return crops*	37.9	54.2	55.7	55.4	56.9	55.7	58.3	54.4	60.2	60.9	64.8
Livestock units per 100 A.**	24.2	21.4	22.1	20.7	20.1	19.5	19.3	20.0	31.7	33.2	31.3
Work units***	602	530	535	514	483	489	483	502	529	515	397
Work units per worker***	272	279	297	286	284	272	284	295	311	322	234
Expenses per work unit***	\$2.72	\$4.20	\$4.52	\$5.08	\$6.39	\$7.41	\$7.75	\$8.01	\$7.75	\$8.29	\$11.66
ACRES PER FARM											
Crop acres per farm	286	268	268	260	243	250	249	257	256	260	283
YIELDS PER ACRE											
Flax, bu.	11.7	6.0	13.8	13.3	13.4	15.2	12.9	15.1	9.8	13.8	9.2
Barley, bu.	26.6	18.8	44.3	33.4	28.9	39.3	24.4	38.0	23.2	28.9	22.4
Oats, bu.	41.4	36.3	51.8	42.1	42.0	53.0	42.7	47.0	47.7	44.0	27.7
Corn, grain bu.	49.8	49.6	33.5	53.1	40.4	63.1	49.1	44.9	38.3	58.9	59.9
Corn silage, ton	9.2	7.5	7.1	8.9	6.9	10.1	9.2	8.7	7.5	9.5	9.7
Alfalfa hay, ton	2.2	2.0	2.1	2.1	2.2	2.1	2.0	2.0	2.5	2.6	2.9

* 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.

*** The basis for computing work units was revised in 1953.

Table 26. Summary of Miscellaneous Items by Years

Items	Average 1940-43	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953
RETURN ABOVE FEED COST PER:											
Dairy cow	\$59.98	\$69.45	\$92.30	\$121.08	\$104.00	\$151.25	\$106.16	\$130.70	\$139.19	\$117.68	\$93.63
Dual-purpose cow	40.28	46.01	61.28	94.26	58.91	65.54	49.92	63.97	66.65	41.22	34.32
Animal unit in beef herd*	24.33	12.20	24.00	42.12	53.27	62.42	50.51	85.59	130.06	30.37	-34.29
100 lbs. feeder cattle prod.	3.00	3.56	7.38	8.59	9.10	10.49	8.78	17.09	13.00	-2.45	-6.50
Head of sheep in farm flock	4.55	3.00	4.86	10.97	6.71	9.90	8.58	14.29	13.33	-2.00	2.06
100 lbs. feeder sheep prod.	5.26	10.85	9.44	18.02	-3.14	-18.19	-	20.52	-	-9.61	.38
100 lbs. hogs produced	4.23	3.31	5.23	7.68	9.09	5.07	4.37	6.85	4.85	2.48	10.68
Hen	1.72	1.71	2.63	2.27	1.47	1.95	2.44	.83	2.09	.62	2.20
100 lbs. turkeys produced	10.44	10.27	12.17	16.13	-	-	-	3.31	-	-	-
FEED COST PER:											
Dairy cow	\$62.66	\$88.04	\$92.68	\$103.69	\$148.42	\$140.00	\$121.28	\$136.67	\$150.85	\$148.11	\$142.90
Dual-purpose cow	49.42	68.02	78.02	87.82	121.01	122.80	97.55	123.55	108.86	114.56	114.62
Animal unit in beef herd*	36.14	49.92	52.84	58.59	89.20	71.66	69.21	82.24	114.85	112.04	96.31
Cwt. of feeder cattle prod.	14.43	15.06	15.62	18.03	29.24	26.34	19.08	20.13	23.44	25.01	23.44
Head of sheep in farm flock	3.13	3.78	4.33	4.74	6.81	6.95	5.25	7.06	7.59	7.77	7.95
Cwt. feeder sheep produced	10.90	12.98	15.15	19.30	38.18	34.89	-	25.51	-	25.28	31.86
100 lbs. hogs produced	6.62	10.32	9.04	11.95	16.64	15.80	11.05	12.03	14.17	13.87	12.27
Hen	1.98	3.46	3.53	3.95	4.99	4.99	3.94	4.35	4.85	4.88	4.64
100 lbs. turkeys produced	10.47	14.88	14.89	15.80	-	-	-	20.51	-	-	-
MISC. LIVESTOCK INFORMATION											
No. of work horses	4.0	3.3	3.1	2.6	2.0	1.6	1.1	.8	.6	.5	.3
No. of colts and ponies	.8	.6	.3	.2	.1	-	-	-	.1	-	.1
No. dairy or dual-pur. cows	8.5	6.6	6.1	5.7	5.2	4.8	4.6	4.6	4.5	4.5	5.3
Head in beef breeding herd	9.8	13.5	10.8	10.7	8.0	9.0	8.3	8.0	8.9	11.6	13.4
Lbs. feeder cattle produced	10342	5315	7695	6083	5717	7117	6768	8699	10852	12152	14674
Litters of pigs	19.0	16.7	19.4	18.1	19.5	20.2	20.3	22.7	23.4	21.5	17.7
Lbs. of hogs produced	30751	29054	33994	34524	34163	35651	33129	37633	39702	38436	31283
No. of hens	188	230	215	210	200	200	185	186	180	179	187
Lbs. of butterfat per:											
Dairy cow	251	226	242	244	259	258	284	277	280	282	286
Dual-purpose cow	185	172	182	191	185	172	170	213	169	171	196
No. pigs weaned per litter	6.2	5.9	6.2	6.4	6.1	6.6	6.5	6.5	6.6	6.7	6.7
Per cent lamb crop	108	94	99	108	110	111	117	113	115	94	108
Eggs per hen	128	157	163	174	170	170	177	175	176	174	186

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

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

Items	Average 1940-43	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953
PRICE RECEIVED PER:											
Lb. B.F. to creameries	\$.41	\$.58	\$.62	\$.76	\$.76	\$.86	\$.66	\$.66	\$.75	\$.80	\$.71
100 lbs. fat cattle	11.21	13.83	14.95	16.54	23.45	29.12	24.50	27.24	33.73	30.16	20.36
100 lbs. feeder sheep	11.45	15.32	15.91	18.44	24.76	29.23	-	25.82	-	25.13	20.71
Pound of wool	.37	.41	.42	.43	.37	.42	.42	.55	1.00	.42	.53
100 lbs. of hogs	10.29	13.12	14.27	17.17	24.66	23.29	18.29	17.93	19.61	17.34	21.19
Dozen eggs	.25	.31	.35	.34	.38	.40	.39	.30	.40	.34	.40
Pounds of turkeys	.23	.34	.32	.37	-	-	-	.29	-	-	-
PRICE OF FEED											
Corn, bu.	\$.65	\$.92	\$.86	\$1.14	\$1.54	\$1.64	\$1.02	\$1.20	\$1.36	\$1.34	\$1.31
Oats, bu.	.40	.70	.64	.70	.90	.88	.59	.72	.81	.76	.71
Barley, bu.	.50	.92	.94	1.22	1.80	1.59	.99	1.20	1.23	1.21	1.11
Alfalfa hay, ton	8.75	15.00	15.00	16.00	22.00	20.00	20.00	21.00	19.00	17.00	17.50
Timothy hay, ton	5.55	9.00	9.00	9.60	12.50	11.60	11.60	12.20	11.00	9.80	10.10
Corn silage, ton	2.75	5.00	5.00	5.50	8.00	5.85	6.00	6.70	6.00	5.75	5.85
Bran, cwt.	1.70	2.20	2.18	2.70	3.20	4.00	2.80	2.80	3.20	3.45	2.95
Linseed oilmeal, cwt.	2.20	2.85	2.88	3.30	4.25	4.55	4.00	3.95	4.00	4.85	4.05
Soybean meal, cwt.	2.35	3.15	3.00	3.80	4.80	5.10	4.05	3.95	4.00	5.60	4.40

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	.55	-.08	1.88	+1.08	1.05	+0.50
February	1.53	+ .76	.85	-0.12	1.49	+0.85
March	2.33	+1.07	2.17	+0.76	2.14	+0.97
April	4.12	+2.04	3.32	+1.09	5.15	+3.26
May	4.45	+0.51	1.87	-2.05	4.50	+1.58
June	6.51	+2.22	4.93	+0.79	5.61	+1.50
July	4.19	+0.80	3.81	+0.25	4.21	+1.42
August	5.44	+1.68	2.61	-0.94	2.83	-0.25
September	1.18	-2.23	.95	-2.37	1.25	-1.59
October	.38	-1.31	.38	-1.47	.62	-1.04
November	1.36	+0.19	1.97	+0.58	1.63	+0.66
December	<u>1.74</u>	<u>+1.03</u>	<u>.97</u>	<u>+0.07</u>	<u>1.44</u>	<u>+0.85</u>
1953 Total	33.78	+6.68	25.71	-2.33	31.92	+8.71
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	