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1964
annual report

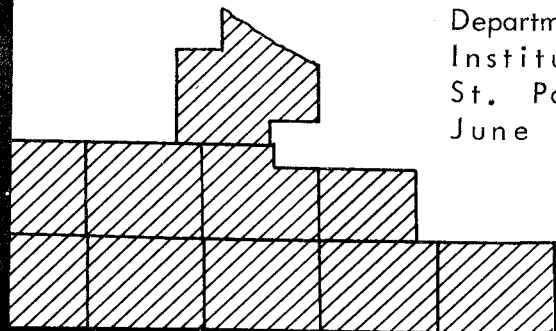
Southwestern Minnesota Farm Management Service

COOPERATING AGENCIES:

University of Minnesota, Institute of Agriculture
United States Department of Agriculture, Agricultural Research Service
County Extension Services of the 10 Southwestern Counties
Southwestern Minnesota Farm Management Association

REPORT NUMBER 281

Department of Agricultural Economics
Institute of Agriculture
St. Paul, Minnesota 55101
June 1965



1964 ANNUAL REPORT OF THE SOUTHWESTERN MINNESOTA FARM MANAGEMENT SERVICE

Prepared by T. R. Nodland¹

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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 Southwestern 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.

1. The author is indebted to Janet Otis, Barbara Miller and Dorothy Spreck for their assistance in the preparation of this report.

The analysis of the records and the preparation of the report are handled by the Department of Agricultural Economics under the direction of T. R. Nodland. Extension work in connection with this service is handled by Paul Hasbargen. Lyle Ross was the field agent for this project. At the end of the year Robert Lansford and Arnold Wells of the Department of Agricultural Economics and Richard Hawkins and Mervin Freeman of the Agricultural Extension Service aided in closing the records.

The following tabulation shows by counties the number of records submitted, the officers of the Association, and the county agricultural extension agents who co-operated in 1964.

Southwestern Minnesota

County	No. of records	Association officers	County Agricultural Extension Agent
Cottonwood	13	Abram Ewert, Director	Herman Vossen
Faribault	19	Lloyd Abraham, Director	Gene Williams
		Howard Paschke, Director	
Jackson	21	Arnold Hussong, Vice-president	Ray Palmby
		Curtis Pietz, Director	
		Edward Freking, Director	
Martin	10	Daryl Beberness, Director	Floyd Bellin
Murray	16	Eldo Langfeldt, Director	Reuben Boxrud
		Arthur Foster, Secretary-treasurer	
		Brent McBeth, Director	
Nobles	35	Burton Larson, Director	Ross Huntsinger
		Jay Strom, Director	
		Henry J. Peterson, Director	
Pipestone	10	William Heesch, Director	Kenneth Rose
Redwood	29	Eugene Hook, President	Ernest Johnson
		Reinhardt Jenniges, Director	
Rock	2		Laverne B. Forest
Watonwan	8	Robert Johnson, Director	John Ankeny
Total	163		

The data for 148 farms are shown in the tables on succeeding pages. Fifteen farms were omitted from all of the averages in the tables because the records were not sufficiently complete for a full analysis or the 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 occurs among all farmers in the area. To the extent that this is true, this report would 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, 1964*

Items	Your farm		Average of 148 farms	
	Jan. 1	Dec. 31	Jan. 1	Dec. 31
Size of farm (acres)			363	
Size of business (work units)**			566	
Dairy cows	\$	\$	\$ 1198	\$ 1280
Other dairy cattle			800	792
Beef cattle (incl. feeders)			12769	10569
Hogs			2853	3072
Sheep (incl. feeders)			177	174
Poultry (incl. turkeys)			270	254
Productive livestock (total)	\$	\$	\$18067	\$16141
Horses			19	16
Crop, seed and feed			11494	11917
Auto (farm share)			1176	1303
Tractors			2872	3109
Crop and general machinery			5092	5541
Livestock equipment and supplies			1738	1866
Machinery and equipment (total)	\$	\$	\$10878	\$11819
Miscellaneous			6	11
Land			53133	53101
Buildings, fences, etc.			15950	15698
Total farm capital managed	\$	\$	\$109547	\$108703
Items	30 most profitable		30 least profitable	
	Jan. 1	Dec. 31	Jan. 1	Dec. 31
Size of farm (acres)	522		334	
Size of business (work units)**	740		533	
Dairy cows	\$ 579	\$ 601	\$ 660	\$ 767
Other dairy cattle	305	281	615	537
Beef cattle (incl. feeders)	19033	16854	17023	11924
Hogs	3388	3562	3061	3296
Sheep (incl. feeders)	27	23	285	224
Poultry (incl. turkeys)	267	387	370	221
Productive livestock (total)	\$23599	\$21708	\$22014	\$16969
Horses	23	7	10	12
Crop, seed and feed	16507	18182	10212	10341
Auto (farm share)	1347	1537	1150	1244
Tractors	5065	5576	2668	2732
Crop and general machinery	6770	7642	5141	5283
Livestock equipment and supplies	1964	2191	1763	1720
Machinery and equipment (total)	\$15146	\$16946	\$10722	\$10979
Miscellaneous	26	54	-	-
Land	77787	77787	42342	42342
Buildings, fences, etc.	20368	20228	16921	16122
Total farm capital managed	\$153456	\$154912	\$102221	\$96765

* 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), 1964

Items	Your farm	Average of 148 farms	30 most profitable farms	30 least profitable farms
FARM RECEIPTS				
Dairy cattle	\$ _____	\$ 565	\$ 350	\$ 388
Dairy products	_____	2348	1583	1060
Beef cattle (incl. feeders)	_____	20825	38470	23364
Hogs	_____	8701	11799	8426
Sheep and wool (incl. feeders)	_____	200	32	323
Horses	_____	4	8	5
Poultry (incl. turkeys)	_____	492	1382	848
Eggs	_____	1051	1128	885
Corn	_____	4402	6724	2394
Small grain	_____	659	1014	606
Other crops	_____	6180	11823	4055
Machinery and equipment sold	_____	550	532	658
Income from work off the farm	_____	476	473	508
Miscellaneous	_____	400	587	315
Total farm sales	\$ _____	\$46853	\$75905	\$43835
Increase in farm capital	_____	-	1456	-
Family living from the farm	_____	271	287	274
Total farm receipts	\$ _____	\$47124	\$77648	\$44109
FARM EXPENSES				
Dairy cattle bought	\$ _____	\$ 156	\$ 54	\$ 557
Beef cattle bought (incl. feeders)	_____	9343	18225	9847
Hogs bought	_____	774	1170	778
Sheep bought (incl. feeders)	_____	21	6	1
Horses bought	_____	3	-	8
Poultry bought (incl. turkeys)	_____	297	608	215
Miscellaneous livestock expense	_____	637	849	578
Feed bought	_____	7599	11353	8555
Fertilizers bought	_____	1664	2529	1473
Other crop expenses	_____	1389	2185	1300
Custom work hired	_____	934	959	823
Gas, oil and grease (farm share)	_____	1228	1548	1209
Rep. tractor, truck, auto (fm.sh.)	_____	770	1001	770
Rep. and upkeep of farm real estate	_____	349	492	371
Rep. and upkeep of crop & gen. mach.	_____	533	792	552
Rep. and upkeep of lvstk. equipment	_____	203	282	196
Wages of hired labor	_____	1161	2031	668
Electricity expense (farm share)	_____	293	335	282
Pers. prop. and real estate taxes	_____	1723	2406	1648
Telephone and general farm expense	_____	469	554	515
Total cash operating expense	\$ _____	\$29546	\$47379	\$30346
Mech. power bought (farm share)	_____	1086	1651	888
Crop and gen. machinery bought	_____	1315	2111	1095
Livestock equipment bought	_____	407	543	230
New real estate improvements	_____	848	1250	524
Total farm purchases	\$ _____	\$33202	\$52934	\$33083
Decrease in farm capital	_____	844	-	5456
Interest on farm capital	_____	5456	7709	4975
Unpaid family labor	_____	494	714	487
Board furnished hired labor	_____	85	111	83
Total farm expenses	\$ _____	\$40081	\$61468	\$44084
Labor earnings	\$ _____	\$ 7043	\$16180	\$ 25

Table 3. Summary of Farm Earnings (Enterprise Statement), 1964*

Items	Your farm	Average of 148 farms	30 most profitable farms	30 least profitable farms
RETURNS AND NET INCREASES				
Dairy cows	\$ _____	\$ 2389	\$ 1561	\$ 1068
Other dairy cattle	_____	652	356	323
Beef breeding herd	_____	278	131	625
Feeder cattle	_____	9031	18112	7538
Hogs	_____	8198	10858	7936
Sheep--farm flock	_____	170	23	261
Sheep--feeders	_____	5	-	-
Turkeys	_____	339	1027	646
Chickens	_____	913	1019	746
All productive livestock	\$ _____	\$21975	\$33087	\$19143
Value of feed fed to livestock	_____	16758	23984	17362
Return over feed from livestock	\$ _____	\$ 5217	\$ 9103	\$ 1781
Crops, seed and feed	_____	17734	29144	13203
Income from labor off the farm	_____	274	199	280
Agricultural conservation payments	_____	28	39	-
Miscellaneous	_____	465	576	491
Total returns and net increases	\$ _____	\$23718	\$39061	\$15755
EXPENSES AND NET DECREASES				
Horses	\$ _____	\$ 3	\$ 11	\$ 4
Truck	_____	302	483	327
Auto (farm share)	_____	522	574	503
Tractor	_____	1415	1884	1436
Electricity (farm share)	_____	298	340	288
Hired power	_____	399	400	370
Total power	\$ _____	\$ 2939	\$ 3692	\$ 2928
Crop and general machinery	_____	1519	2081	1549
Livestock equipment	_____	473	593	470
Buildings, fencing and tiling	_____	1404	1822	1554
Misc. productive livestock expense	_____	637	849	578
Labor	_____	2055	3175	1513
Real estate taxes	_____	1444	2043	1344
Personal property tax	_____	279	363	304
Insurance	_____	224	285	243
General farm expense	_____	245	269	272
Interest on farm capital	_____	5456	7709	4975
Total expenses and net decreases	\$ _____	\$16675	\$22881	\$15730
Labor earnings	\$ _____	\$ 7043	\$16180	\$ 25

* 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 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, 1964 (Operator's Share)

Items	Your farm		24 owners	
	Jan. 1	Dec. 31	Jan. 1	Dec. 31
Total acres in farm			274	
Owned			274	
Rented			-	
Total farm capital	\$	\$	\$87537	\$94604
Stocks and bonds			1673	2137
Life insurance			3102	3316
Notes and accounts receivable			1280	1332
Shares in cooperative organizations			2186	2300
Outside real estate			4000	4175
Cash on hand and in bank			3874	3687
Household furnishings and clothing			3369	3340
Personal share of auto			451	440
Farm dwelling			7433	8137
Total non-farm assets	\$	\$	\$27368	\$28864
Total assets	\$	\$	\$114905	\$123468
Federal Land Bank mortgage			3902	4489
Other real estate mortgages			19383	21820
Production Credit Association loans			4769	3494
Farmers Home Adm. chattel loans			544	534
Sealed grain			1785	1176
Other chattel mortgages			3656	6465
Notes payable			5569	5334
Accounts payable			1243	1314
Total liabilities	\$	\$	\$40851	\$44626
Farmer's net worth	\$	\$	\$74054	\$78842
Change in net worth		\$		\$+4788

Items	33 part-owners*		24 renters**	
	Jan. 1	Dec. 31	Jan. 1	Dec. 31
Owned	199		-	
Rented	215		293	
Total farm capital	\$80128	\$83941	\$24108	\$24185
Stocks and bonds	2086	2200	1484	1651
Life insurance	2521	2947	1402	1484
Notes and accounts receivable	917	1092	138	173
Shares in cooperative organizations	1253	1447	344	378
Outside real estate	1620	1725	444	653
Cash on hand and in bank	1432	1187	1422	1517
Household furnishings and clothing	3248	3392	2363	2484
Personal share of auto	430	489	234	311
Farm dwelling	5526	6565	-	-
Total non-farm assets	\$19033	\$21044	\$ 7831	\$ 8651
Total assets	\$99161	\$104985	\$31939	\$32836
Federal Land Bank mortgage	4537	6090	-	-
Other real estate mortgages	15002	14576	-	-
Production Credit Association loans	3720	3701	4183	4080
Farmers Home Adm. chattel loans	439	486	410	228
Sealed grain	698	849	211	242
Other chattel mortgages	5922	4156	5087	5336
Notes payable	6571	6693	4416	4180
Accounts payable	1513	1321	1704	1859
Total liabilities	\$38402	\$37872	\$16011	\$15925
Farmer's net worth	\$60759	\$67113	\$15928	\$16911
Change in net worth		\$+6354		\$ +983

* 6 rented for cash, 16 cash and crop share, 10 crop share, 1 lvstk and crop share.

** 3 rented for cash, 17 cash and crop share, 1 crop share, 3 lvstk and crop share.

Table 5. Summary of Farm Earnings by Tenure, 1964 (Operator's share)

Items	Your farm	24 owners	33 part- owners	24 renters
FARM RECEIPTS				
Dairy cattle	\$ _____	\$ 180	\$ 797	\$ 485
Dairy products	_____	418	3449	1986
Beef cattle (incl. feeders)	_____	25098	19607	7722
Hogs	_____	9245	6565	6520
Sheep and wool (incl. feeders)	_____	243	316	186
Horses	_____	4	5	7
Poultry (incl. turkeys)	_____	2669	72	49
Eggs	_____	2232	1156	347
Corn	_____	4587	2573	1347
Small grain	_____	493	318	258
Other crops	_____	3930	6047	2892
Machinery and equipment sold	_____	297	391	400
Income from work off the farm	_____	372	576	346
Miscellaneous	_____	508	463	191
(1) Total farm sales	\$ _____	\$50276	\$42335	\$22736
(2) Increase in farm capital	_____	7067	3813	77
(3) Family living from the farm	_____	227	298	225
(4) Total farm receipts (1)+(2)+(3)	\$ _____	\$57570	\$46446	\$23038
FARM EXPENSES				
Dairy cattle bought	\$ _____	\$ -	\$ 130	\$ 151
Beef cattle bought (incl. feeders)	_____	13709	8788	2590
Hogs bought	_____	552	734	278
Sheep bought (incl. feeders)	_____	-	13	47
Horses bought	_____	8	2	-
Poultry bought (incl. turkeys)	_____	1031	270	40
Miscellaneous livestock expense	_____	676	651	413
Feed	_____	10828	5558	5035
Fertilizers	_____	1826	1408	820
Other crop expense	_____	1447	1388	897
Custom work hired	_____	808	1084	809
Gas, oil and grease	_____	1076	1248	958
Rep. tractor, truck, auto (farm share)	_____	658	794	645
Rep. and upkeep of real estate	_____	451	301	115
Rep. and upkeep of crop and gen. machinery	_____	482	510	311
Rep. and upkeep of livestock equipment	_____	209	214	119
Wages of hired labor	_____	1372	1150	607
Electricity expense (farm share)	_____	296	292	200
Real estate and personal property taxes	_____	1480	1020	188
Cash rent	_____	-	770	908
General farm expense and insurance	_____	538	502	267
Interest paid	_____	2304	2212	789
Total cash operating expense	\$ _____	\$39751	\$29039	\$16187
Mechanical power bought (farm share)	_____	843	835	997
Crop and general machinery bought	_____	1442	1508	855
Livestock equipment bought	_____	418	753	218
Real estate improvements and farm purchases	_____	5909	4251	336
(5) Total farm purchases	\$ _____	\$48363	\$36386	\$18593
(6) Decrease in farm capital	_____	-	-	-
(7) Interest on farm capital	_____	2250	1890	418
(8) Unpaid family labor	_____	244	196	177
(9) Board furnished hired labor	_____	68	81	86
(10) Total farm expense (5)+(6)+(7)+(8)+(9)	\$ _____	\$50925	\$38553	\$19274
(11) Labor earnings (4)-(10)	\$ _____	\$ 6645	\$ 7893	\$ 3764
(12) Ret. to cap. & fam. labor (7)+(8)+(11)	\$ _____	\$ 9139	\$ 9979	\$ 4359

Table 6. Household and Personal Expenses for Those Farms Which Kept Complete Accounts of These Expenses, 1964

Items	Your farm	Average of 73 farms	15 most profit- able farms	15 least profit- able farms
Number of persons--family	_____	4.6	5.4	3.9
Number of adult equivalents--family	_____	3.7	4.4	3.3
other*	_____	.1	.1	.1
EXPENSES				
Food and meals bought	\$ _____	\$1089	\$1370	\$ 936
Operating and supplies	_____	347	360	319
Furnishings and equipment	_____	331	524	230
Clothing and clothing materials	_____	461	546	357
Personal care and spending	_____	142	223	106
Education and recreation	_____	366	345	398
Gifts and special events	_____	139	146	122
Medical and hospital insurance	_____	441	512	420
Church and welfare	_____	315	447	337
Personal share of auto expense	_____	211	264	177
Upkeep on dwelling	_____	93	103	131
Pers. share of tel. & elec. expense	_____	122	137	87
Total cash living expense	\$ _____	\$4057	\$4977	\$3620
Personal share of new autos	_____	109	113	47
New dwelling	_____	625	375	-
Taxes	_____	302	279	190
Life insurance	_____	580	836	596
Other savings and investments	_____	274	128	42
Total household & pers. cash expense	\$ _____	\$5947	\$6708	\$4495
Family living from the farm	_____	268	284	243
Total cash expense & perquisites	\$ _____	\$6215	\$6992	\$4738
RECEIPTS				
Return to capital and family labor	\$ _____	\$7489	\$13712	\$1459
Income from outside investments	_____	204	152	314
Other personal income	_____	1594	1508	307

* Hired help or others boarded.

Table 7. Family Living from the Farm, 1964

Items	Your farm	Average of 148 farms	Your farm	Average of 148 farms
Number of adult equivalents:				
Family	_____	3.9		
Other*	_____	.2		
Whole milk	_____	443 qts.	\$ _____	\$34.31
Cream	_____	3 pts.	_____	.81
Cattle	_____	822 lbs.	_____	161.10
Hogs	_____	353 lbs.	_____	51.48
Sheep	_____	2 lbs.	_____	.36
Poultry	_____	54 lbs.	_____	7.69
Eggs	_____	64 dox.	_____	15.50
Total			\$ _____	\$271.25

* 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 of expenses.¹ 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 Labor Earnings to the Number of Factors in Which the Farmer Excels

Number of factors in which farmer excels	Number 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	18	_____	XXXXXXXXXX	\$ 2933
2 or 3	58	_____	XXXXXXXXXXXXXXXXXXXXXXXXXX	6667
4 or 5	54	_____	XXXXXXXXXXXXXXXXXXXXXXXXXX	7614
6 or 7	18	_____	XXXXXXXXXXXXXXXXXXXXXXXXXX	10675

The array in Table 8 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.

1. Nodland, T. R., and G. A. Pond, "Some Factors Affecting the Earnings of Farmers in Southwestern Minnesota." University of Minnesota Department of Agricultural Economics, Report No. 219, November 1954.

Table 9. Measures of Farm Organization and Management Efficiency, 1964

Measures used in chart on page 11	Your farm	Average of 148 farms	30 most profit- able farms	30 least profit- able farms
Labor earnings	\$ _____	\$7043	\$16180	\$ 25
Crop yields*	_____	100	113	83
Percent tillable land in high return crops**	_____	67.4	67.6	65.7
Return for \$100 feed to productive livestock***	_____	100	112	91
Productive livestock units per 100 acres****	_____	40.6	42.5	45.4
Size of business--work units	_____	566	740	533
Work units per worker	_____	354	370	355
Pow., mach., equip., & bldg. exp. per work unit	\$ _____	\$12.56	\$12.17	\$13.23
Items related to some of the above measures:				
Index of return for \$100 feed from:				
Dairy cattle (see pages 16 and 17)	_____	100	-	80
Beef cattle--breeding herd (see page 18)	_____	100	-	126
Beef cattle--feeders (see page 18)	_____	100	109	79
Hogs (see page 15)	_____	100	106	96
Sheep--farm flock (see page 19)	_____	100	-	90
Sheep--feeders	_____	100	-	-
Turkeys	_____	100	-	-
Chickens (see page 20)	_____	100	89	89
Number of animal units	_____	129.1	182.2	137.8
Work units on crops	_____	176	248	162
Work units on productive livestock	_____	365	474	346
Other work units	_____	25	18	25
Number of family workers	_____	1.2	1.3	1.2
Number of hired workers	_____	.4	.7	.3
Total number of workers	_____	1.6	2.0	1.5
Power expense per work unit	\$ _____	\$5.86	\$5.40	\$6.01
Crop machinery expense per work unit	_____	3.09	3.19	3.17
Livestock equipment expense per work unit	_____	.81	.82	.87
Bldg. & fencing expense per work unit	_____	2.80	2.76	3.18

* Given as a percentage of the average.

** Crops are marked in Table 10 as A, B, C, and D. All of the acres in A crops, one-half of the acres in B crops, and one-fourth of the acres in C crops are used in calculating percent 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 148 farms included in this summary are located between the dotted lines across the center of this page.

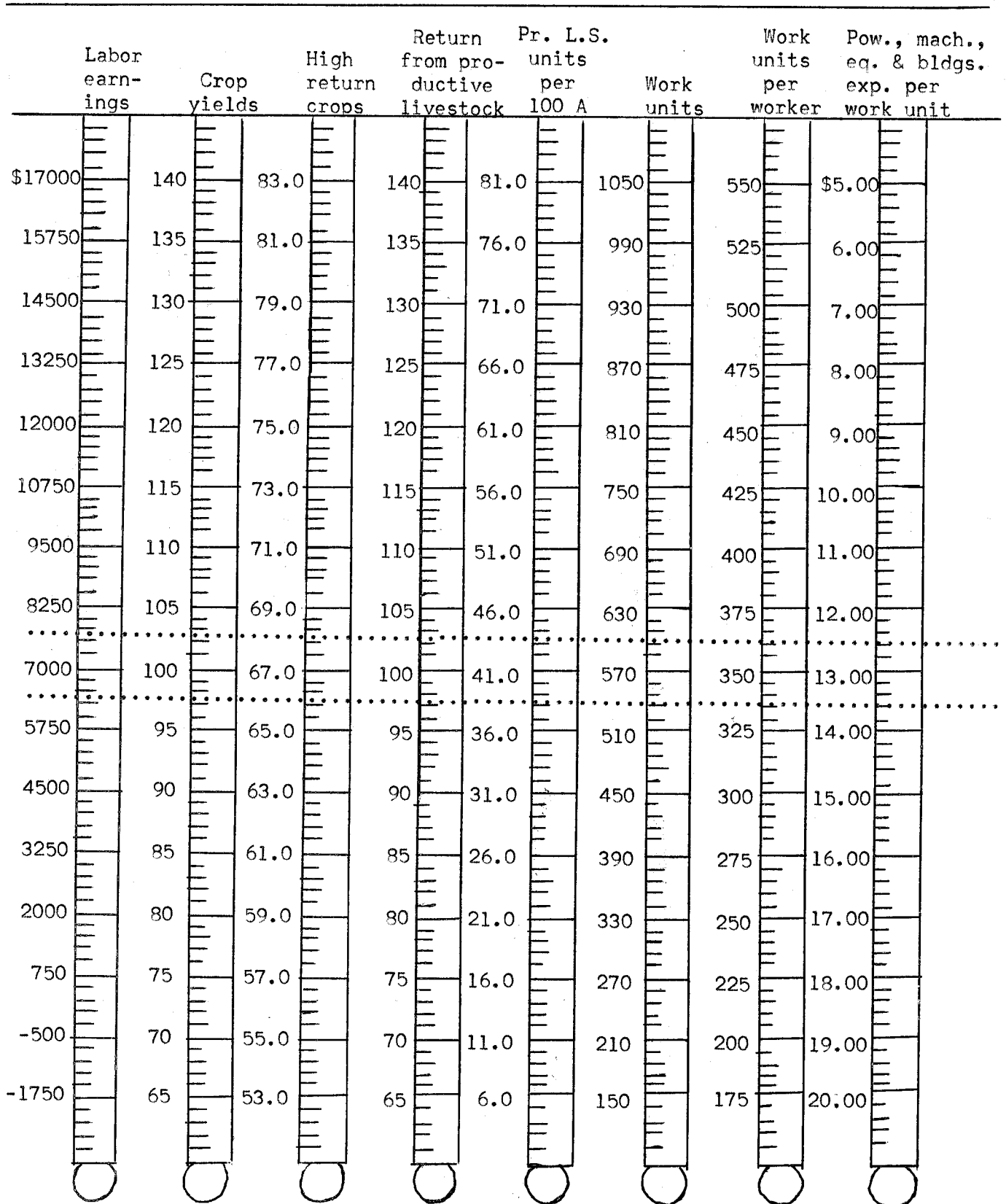


Table 10. Distribution of Acres in Farm, 1964

Crop	Crop ratings*	Number growing this crop	Your farm	Average of 148 farms	Ave. per farm growing each crop
Canning peas	B	4	_____	.4	16.1
Flax	C	21	_____	4.9	34.6
Wheat	C	13	_____	1.2	14.0
Oats for silage	C	10	_____	1.0	15.0
Oats for grain	D	101	_____	19.3	28.3
Barley and rye	D	2	_____	.6	42.5
Total small grain and peas		114	_____	27.4	35.7
Corn grain	A	148	_____	135.1	135.1
Soybeans for grain	B	127	_____	60.1	70.0
Sweet Corn	B	4	_____	.5	16.8
Corn silage	B	102	_____	17.6	25.5
Total cultivated crops		148	_____	213.3	213.3
Alfalfa hay	B	138	_____	30.0	32.2
Other legumes	C	5	_____	.6	19.4
Timothy and brome hay or seed	D	2	_____	.5	35.0
Annual hay	D	5	_____	.4	10.5
Total tillable land in hay		141	_____	31.5	33.0
Alfalfa pasture	B	63	_____	5.4	12.7
Other tillable pasture	D	5	_____	.6	16.8
Total tillable land in pasture		65	_____	6.0	13.6
Feed grain program	B	104	_____	35.3	50.2
Tillable land not cropped	D	11	_____	1.3	17.5
Total tillable land		148	_____	314.8	314.8
Wild hay		33	_____	2.4	11.1
Non-tillable pasture		78	_____	20.4	38.7
Timber not pastured		11	_____	.7	9.5
Roads and waste			_____	13.7	
Farmstead			_____	10.5	
Total acres in farm			_____	362.5	
Percent land tillable			_____	87.3	
Percent tillable land in high return crops			_____	67.4	

*A, B, C and D refer to ranking used in calculating percent of tillable land in high return crops.

Table 11. Crop Yields per Acre, 1964

Crop	Your farm	Average of farms growing each crop
Canning peas, dollars	\$ _____	\$61.80
Flax, bu.	_____	12.7
Wheat, bu.	_____	27.7
Oat silage, tons	_____	5.6
Oats grain, bu.	_____	59.2
Barley, bu.	_____	46.8
Corn grain, bu.	_____	73.2
Soybeans, bu.	_____	24.7
Sweet corn, tons	_____	4.0
Corn silage, tons	_____	11.7
Alfalfa hay, tons	_____	2.8
Timothy or brome hay, tons	_____	1.0
Annual hay, tons	_____	4.2
Feed grain program, dollars	\$ _____	\$47.80
Wild hay, tons	_____	.6

Table 12. Average Price of Feeds, 1964

Items	Value	Items	Value
Ear corn, per bu.	\$1.06	Alfalfa hay, per ton	\$20.00
Oats, per bu.	.63	Red or alsike clover hay, per ton	17.00
Barley, per bu.	.90	Timothy, per ton	11.60
Wheat, per bu.	1.76	Wild hay, per ton	10.00
Soybean meal, per cwt.	4.60	Corn silage, per ton	6.75
Meat scraps, per cwt.	5.25	Pasture, per mo. per cow	3.00

Table 13. Power and Machinery Expenses per Crop Acre, 1964

Items	Your farm	Average of 148 farms	30 most profitable farms	30 least profitable farms
Crop acres per farm	_____	275	394	241
Tractor expense per crop acre	\$ _____	\$5.24	\$4.95	\$5.92
Crop & gen. mach. exp. per crop acre	_____	5.70	5.47	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 cows and in the total feed cost for other dairy cattle. The value of milk consumed by calves is not included in either the total returns or the feed cost of "all dairy" cattle. The return over feed is not a net return, but rather the amount available from the gross income, after paying the feed bill, to cover the outlay for hired labor, power, equipment, taxes, insurance, interest, and veterinary bills and to provide a return for the use of family labor and capital.

Table 14. Total Feed Costs and Returns from Your Livestock Enterprises, 1964

	Dairy cattle			Beef breeding herd
	Cows	Other	All	
Total returns	_____	_____	_____	_____
Total feed cost	_____	_____	_____	_____
Total return over feed	_____	_____	_____	_____
	Feeder cattle	Hogs	Farm flock of sheep	Chickens
Total returns	_____	_____	_____	_____
Total feed cost	_____	_____	_____	_____
Total return over feed	_____	_____	_____	_____

Feed is the largest single item of cost for all classes of livestock. However, the proportion of the total cost represented by feed varies considerably between classes of livestock. Feed makes up approximately 45 percent of the total costs of maintaining dairy cattle and poultry, 50 percent in the case of a farm flock of sheep, and 75 to 90 percent for hogs, feeder cattle and feeder lambs. Consequently, it is necessary to secure a relatively higher return over feed from dairy cattle and poultry than from the other livestock enterprises in order to be able to cover all the costs other than feed.

Table 15. Feed Costs and Returns from Hogs, 1964

Items	Your farm	Average of 122 farms	97 farms with breeding stock		25 farms with purchased feeder pigs	
			Average of 97 farms	19 farms highest in returns above feed		19 farms lowest in returns above feed
Feed per cwt. hogs produced, lbs.:						
Corn	_____	306	305	244	423	307
Small grain	_____	38	42	45	51	25
Commercial feeds	_____	83	89	69	85	59
Total concentrates	_____	427	436	358	559	391
Feed cost per cwt. hogs produced	\$ _____	\$10.76	\$11.07	\$ 9.00	\$13.81	\$ 9.57
Net increase in value per cwt. hogs produced	\$ _____	\$14.26	\$14.69	\$15.58	\$13.82	\$12.62
Return above feed cost per cwt. hogs produced	\$ _____	\$ 3.50	\$ 3.62	\$ 6.58	\$.01	\$ 3.05
RETURN FOR \$100 FEED	\$ _____	\$137	\$137	\$174	\$104	\$135
Price received per cwt. hogs sold	\$ _____	\$14.65	\$14.56	\$15.01	\$14.09	\$14.98
Total number of litters raised	_____	33	42	36	36	1
Number of pigs born per litter	_____	9.0	9.1	9.3	9.0	7.1
Number of pigs weaned per litter	_____	7.2	7.4	7.8	7.0	4.6
Number of feeder pigs bought	_____	58	6	-	10	259
Total weight of feeder pigs bought	_____	2549	243	-	295	11500
Price paid per feeder pig	_____	\$12.06	\$11.76	-	\$12.10	\$12.19
Pounds of hogs produced	_____	69268	74682	69508	67339	48258

Table 16. Factors of Cost and Returns from Dairy Cows, 1964

Items	Your farm	Average of 32 farms	16 farms highest in butterfat per cow	16 farms lowest in butterfat per cow
Pounds of butterfat per cow	_____	362	409	316
Pounds of milk per cow	_____	10375	11852	8897
Percent of butterfat in milk	_____	3.5	3.5	3.6
Price received per lb. BF sold (cents)	_____	95.3	98.1	92.4
Price received per cwt. milk sold	\$ _____	\$3.34	\$3.40	\$3.28
Feeds per cow, lbs.				
Corn	_____	3360	3699	3022
Small grain	_____	537	683	391
Commercial feeds	_____	350	409	291
Legume hay	_____	5698	6007	5390
Other hay	_____	113	80	145
Total concentrates	_____	4247	4791	3704
Total hay and fodder	_____	5811	6087	5535
Silage	_____	9247	8601	9893
Feed cost per cow				
Concentrates	\$ _____	\$95.49	\$108.30	\$82.67
Roughages	_____	88.16	89.18	87.14
Pasture	_____	9.52	7.40	11.64
TOTAL FEED COST	\$ _____	\$193.17	\$204.88	\$181.45
Value of produce per cow				
Dairy product sales	\$ _____	\$333.87	\$390.13	\$277.61
Dairy produce used in home	_____	4.70	3.39	6.01
Milk to livestock	_____	7.87	6.67	9.07
Net increase in value of cows	_____	-4.92	-5.13	-4.72
TOTAL VALUE PRODUCED	\$ _____	\$341.52	\$395.06	\$287.97
RETURNS ABOVE FEED COST PER COW	\$ _____	\$148.35	\$190.18	\$106.52
RETURNS FOR \$100 OF FEED	\$ _____	\$180	\$196	\$165
Feed cost per pound of BF (cents)	_____	53.4	50.1	57.4
Number of cows*	_____	30.3	31.9	28.8

* 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 in computing this table. There is some variation in the number of months of dry period per cow; however, this variation is small for the majority of farms.

Table 17. Feed Costs and Returns from Other Dairy Cattle, 1964

Items	Your farm	Average of 32 farms	16 farms highest in butterfat per cow	16 farms lowest in butterfat per cow
Feed per head, lbs.:				
Concentrates	_____	862	1036	687
Hay and fodder	_____	1910	2284	1537
Silage	_____	2488	2283	2694
Whole milk	_____	326	433	218
TOTAL FEED COST PER HEAD	\$ _____	\$62.03	\$72.65	\$51.41
Net increase in value of other dairy cattle	\$ _____	\$89.80	\$112.00	\$67.59
RETURNS ABOVE FEED COST PER HEAD	\$ _____	\$27.77	\$39.35	\$16.18
RETURNS FOR \$100 OF FEED	\$ _____	\$141	\$158	\$124
Number of head of other dairy	_____	35.5	34.2	36.9

Table 18. Feed Costs and Returns from All Dairy Cattle, 1964

Items	Your farm	Average of 32 farms	16 farms highest in butterfat per cow	16 farms lowest in butterfat per cow
Feed per cow, lbs.:				
Concentrates	_____	5284	5914	4654
Hay and fodder	_____	7923	8438	7409
Silage	_____	11871	10791	12951
TOTAL FEED COST PER COW	\$ _____	\$253.67	\$267.48	\$239.86
Value of produce per cow:				
Dairy products	\$ _____	\$338.63	\$393.51	\$283.75
Net increase in value of dairy cattle	_____	87.00	90.09	83.91
TOTAL VALUE PRODUCED	\$ _____	\$425.63	\$483.60	\$367.66
RETURNS ABOVE FEED PER COW	\$ _____	\$171.96	\$216.12	\$127.80
RETURNS PER \$100 OF FEED	\$ _____	\$169	\$183	\$155

Table 19. Feed Costs and Returns from Beef Cattle, 1964

Items	Your farm	Average of all farms
Beef breeding herd: Number of farms		16
Feed per animal unit, lbs.:		
Concentrates	_____	389
Legume hay	_____	2433
Other hay	_____	126
Silage	_____	262
Feed cost per animal unit:		
Concentrates	\$ _____	\$11.36
Roughages	_____	40.73
Pasture	_____	20.19
TOTAL FEED COST	\$ _____	\$72.28
TOTAL VALUE PRODUCED	\$ _____	\$84.15
RETURNS ABOVE FEED COST PER ANIMAL UNIT	\$ _____	\$11.87
RETURNS FOR \$100 OF FEED	\$ _____	\$136
Pounds of beef produced	_____	14711
Number of cows and herd bulls	_____	30.5
Number of other beef cattle	_____	21.8
Number of animal units in the herd	_____	30.4
Feeder cattle: Number of farms		105
Feeds per cwt. beef produced, lbs.:		
Corn	_____	567
Small grain	_____	15
Commercial feeds	_____	46
Legume hay	_____	286
Other hay	_____	9
Total concentrates	_____	628
Total hay	_____	295
Silage	_____	633
Feed cost per cwt. beef produced		
Concentrates	\$ _____	\$13.61
Roughages	_____	4.92
Pasture	_____	.31
TOTAL FEED COSTS	\$ _____	\$18.84
Net increase in value of feeders	\$ _____	\$20.22
RETURNS ABOVE FEED COST PER CWT. BEEF PRODUCED	\$ _____	\$ 1.38
RETURNS FOR \$100 OF FEED	\$ _____	\$113
Price paid per cwt. beef bought	\$ _____	\$21.75
Price received for feeder cattle sold	\$ _____	\$21.46
Number of animal units	_____	100.5
Pounds of beef produced	_____	61209

Table 20. Feed Costs and Returns from a Farm Flock of Sheep, 1964

Items	Your farm	Average of 19 farms
Feeds per ewe, lbs.:		
Concentrates	_____	157
Legume hay	_____	700
Other hay	_____	21
Silage	_____	45
Feed cost per ewe:		
Concentrates	\$ _____	\$ 3.49
Roughages	_____	7.24
Pasture	_____	3.75
TOTAL FEED COSTS	\$ _____	\$14.48
Value of produce per ewe:		
Wool	\$ _____	\$ 6.15
Net increase in value of sheep	_____	15.21
TOTAL VALUE PRODUCED	\$ _____	\$21.36
RETURNS ABOVE FEED COST PER EWE	\$ _____	\$ 6.88
RETURNS FOR \$100 OF FEED	\$ _____	\$156
Price per cwt. of lambs sold	\$ _____	\$20.36
Price per pound of wool sold (cents)	_____	61.2
Pounds of wool per sheep sheared	_____	8.6
Percent lamb crop*	_____	102
Percent death loss*	_____	6.6
Pounds of sheep produced	_____	4537
Number of head of ewes	_____	59

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

Table 21. Feed Costs and Returns from Chickens, 1964*

Items	Your farm	Average of 45 farms	11 farms highest in returns above feed	11 farms lowest in returns above feed
Feed per hen, lbs.:				
Grain	_____	73	74	56
Commercial feeds	_____	39	26	58
Total concentrates	_____	112	100	114
TOTAL FEED COST PER HEN	\$ _____	\$3.44	\$3.23	\$3.58
Value of produce per hen:				
Eggs sold and used in home	\$ _____	\$4.52	\$5.35	\$3.43
Net increase in value of chickens	_____	-.45	-.09	-.88
TOTAL VALUE PRODUCED	\$ _____	\$4.07	\$5.26	\$2.55
RETURNS ABOVE FEED COST PER HEN	\$ _____	\$.63	\$2.03	-1.03
RETURNS FOR \$100 OF FEED	\$ _____	\$122	\$167	\$ 71
Price rec'd per doz. eggs sold (cents)	_____	25.6	27.0	25.7
Eggs laid per hen	_____	211	236	157
Avg. number of hens on farm during year	_____	730	1251	457
Percent of hens that are pullets	_____	81	84	69
Percent death loss of hens	_____	9	9	12
Number of chicks started:				
Pullets	_____	422	619	141
Cockerels	_____	31	59	33
Number of pullet hens bought	_____	294	791	214
Number of older hens bought	_____	3	-	11

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

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 22.

Table 22. Number of Work Units for Each Class of Livestock and Each Acre of Crop

Item	Number of work units	Item	Number of work units
Dairy cows	10.0 per cow	Small grain	.5 per acre
Other dairy 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

* An 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 23. Summary of Farm Earnings by Years

Items	Average 1940-44	Average 1945-49	Average 1950-54	Average 1955-59	1960	1961	1962	1963	1964
Number of farms	165	140	138	135	121	127	136	143	148
Total farm capital managed	\$36133	\$40590	\$57692	\$75246	\$89567	\$92876	\$100800	\$107166	\$109125
Monthly charge for									
Unpaid family labor*	63	118	130	134	135	150	150	150**	150**
Board to hired labor*	23	33	36	38	38	40	40	40	40
FARM EXPENSES									
Dairy cattle bought	\$ 120	\$ 175	\$ 215	\$ 151	\$ 206	\$ 190	\$ 128	\$ 52	\$ 156
Beef cattle bought	1405	2027	4097	7619	10558	12429	12583	10854	9343
Hogs bought	275	447	448	473	635	672	704	830	774
Sheep bought (incl. feeders)	596	365	599	517	54	207	13	50	21
Poultry bought (incl. turkeys)	140	165	190	225	212	235	238	239	297
Horses bought	39	11	6	5	3	3	2	2	3
Miscellaneous livestock expense	140	248	378	525	560	607	594	562	637
Miscellaneous crop expense	402	869	1234	1814	2027	2106	2203	2648	3053
Feed bought	2041	3191	4323	5503	6250	6233	7707	8334	7599
Custom work hired	193	356	438	694	827	854	929	827	934
Power machinery (new)	320	757	864	898	473	844	1022	1034	1086
Power machinery (upkeep, gas, oil)	551	1081	1422	1802	2152	2105	2261	2362	2291
Crop and general machinery (new)	335	912	1000	993	1131	921	1147	1310	1315
Crop and general machinery (upkeep)	124	284	313	398	469	423	470	524	533
Livestock equipment (new)	112	99	164	327	364	388	503	413	407
Livestock equipment (upkeep)	55	111	135	194	176	215	218	223	203
Buildings and fencing (new)	341	676	881	832	828	1424	1126	863	848
Buildings and fencing (upkeep)	149	319	312	320	311	326	353	351	349
Hired labor	593	794	883	993	1017	1072	1074	1134	1161
Taxes	330	403	622	910	1245	1287	1413	1579	1723
Insurance	33	56	90	154	190	190	201	185	224
General farm expense	65	118	170	210	225	228	230	232	245
Total farm purchases	\$ 8359	\$13464	\$18784	\$25557	\$29913	\$32959	\$35119	\$34608	\$33202
Decrease in farm capital	-	-	-	-	-	-	-	997	844
Interest on farm capital	1806	2030	2885	3762	4454	4644	5040	5358	5456
Unpaid family labor	310	377	358	379	464	492	464	586	494
Board furnished hired labor	142	107	91	92	103	69	76	77	85
Total farm expense	\$10617	15978	\$22118	\$29790	\$34934	\$38164	\$40699	\$41626	\$40081

* These adjustments should be considered in comparing 1964 results with previous years.

** A charge of \$200 per month was made for the second operator on a farm.

Table 23. Summary of Farm Earnings by Years (continued)

Items	Average 1940-44	Average 1945-49	Average 1950-54	Average 1955-59	1960	1961	1962	1963	1964
FARM RECEIPTS									
Dairy cattle	\$ 383	\$ 573	\$ 695	\$ 585	\$ 593	\$ 614	\$ 496	\$ 546	\$ 565
Dairy products	783	988	1085	1450	1761	2027	1608	1694	2348
Beef cattle	3140	4246	7918	13025	19601	18855	21109	20512	20825
Hogs	3622	6775	7455	7158	7251	8528	9038	8639	8701
Sheep and wool	928	651	978	981	305	279	318	213	200
Poultry (including turkeys)	563	525	526	530	672	429	448	485	492
Eggs	597	1035	965	1013	1078	989	1157	1094	1051
Horses	44	23	8	5	10	3	4	-	4
Corn	584	1138	1855	3149	2443	2799	3427	3932	4402
Small grain	1031	2055	1236	807	1022	1147	708	873	659
Other crops	400	879	1023	1759	1816	2995	3421	4862	6180
Machinery and equipment sold	196	364	367	266	289	417	298	313	550
Agricultural adjustment payment	370	65	64	44	96	34	25	34	28
Income from work off the farm	174	313	349	398	350	305	346	502	476
Miscellaneous	224	78	137	306	293	358	444	462	372
Total farm sales	\$13039	\$19708	\$24661	\$31476	\$37580	\$39779	\$42847	\$44161	\$46853
Increase in farm capital	1098	2395	1845	1157	2136	3483	2243	-	-
Family living from the farm	553	666	553	278	309	284	299	277	271
Total farm receipts	\$14690	\$22769	\$27059	\$32911	\$40025	\$43546	\$45389	\$44438	\$47124
Total farm expenses	10617	15978	22118	29790	34934	38164	40699	41626	40081
Labor earnings	\$ 4073	\$ 6791	\$ 4941	\$ 3121	\$ 5091	\$ 5382	\$ 4690	\$ 2812	\$ 7043
MEASURES OF FARM ORGANIZATION AND MANAGEMENT									
Percent high return crops*	41.2	56.4	59.7	63.4	67.0	69.9	69.4	67.1	67.1
Livestock units per 100 acres**	23.6	20.3	30.3	39.4	41.7	44.2	43.6	44.8	40.6
Work units***	588	501	470	469	514	510	510	567	566
Work units per worker***	273	285	283	279	302	300	300	334	354
Expenses per work unit***	\$3.02	\$6.23	\$9.49	\$12.81	\$13.45	\$13.73	\$14.30	\$13.07	\$12.56

* The crop ratings used in calculating the percentage of the tillable land in high return crops were changed considerably in 1944 and 1957.

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

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

Table 24. Summary of Miscellaneous Items by Years

Items	Average 1940-44	Average 1945-49	Average 1950-54	Average 1955-59	1960	1961	1962	1963	1964
RETURN ABOVE FEED COST PER									
Dairy cow	\$61.87	\$114.96	\$111.51	\$125.34	\$155.52	\$156.03	\$115.38	\$129.56	\$148.35
Animal unit in beef herd	21.90	46.46	42.51	30.08	71.65	23.81	27.49	19.05	11.87
100 lbs. feeder cattle produced	3.11	8.87	5.26	5.88	5.77	2.48	6.18	-6.09	1.38
Ewe	-	-	-	-	7.14	2.93	4.80	12.27	6.88
100 lbs. hogs produced	4.05	6.29	6.23	4.52	6.10	5.44	4.53	1.85	3.50
Hen	1.72	2.15	1.09	1.05	1.63	.97	.64	.69	.63
FEED COST PER									
Dairy cow	67.74	121.21	142.90	147.40	152.64	177.88	203.16	181.76	193.17
Animal unit in beef herd	38.90	68.30	97.48	83.69	73.70	76.40	65.04	77.43	72.28
100 lbs. feeder cattle produced	14.56	21.66	22.68	17.70	16.69	17.59	19.33	19.15	18.84
Ewe	-	-	-	-	12.94	12.92	13.06	13.68	14.48
100 lbs. hogs produced	7.36	12.70	12.95	10.48	10.16	10.20	10.73	11.40	10.76
Hen	2.28	4.28	4.66	3.89	3.22	3.56	3.50	3.51	3.44
MISCELLANEOUS LIVESTOCK INFORMATION									
Number of dairy cows	8.1	5.3	4.7	5.2	5.5	5.9	5.1	5.4	6.7
Head in beef breeding herd	10.5	9.4	11.1	10.6	4.1	5.3	4.5	4.9	5.9
Pounds feeder cattle produced	9336	6676	12137	27685	38554	39059	40633	47896	43504
Litters of pigs	18.5	19.5	21.7	24.6	25.6	28.9	28.2	30.0	27.5
Pounds of hogs produced	30411	34292	37265	44369	45578	51584	53713	56129	57134
Number of hens	197	202	187	204	210	190	239	232	224
Pounds of BF per dairy cow	246	257	282	311	344	352	340	346	362
Number of pigs weaned per litter	6.1	6.3	6.7	7.2	6.7	7.2	7.0	7.1	7.2
Percent lamb crop	105	109	107	111	108	99	90	114	102
Eggs per hen	134	171	180	200	204	208	209	208	211

Table 24. Summary of Miscellaneous Items by Years (continued)

Items	Average 1940-44	Average 1945-49	Average 1950-54	Average 1955-59	1960	1961	1962	1963	1964
PRICE RECEIVED FOR									
Pound of BF in milk	\$.64	\$.98	\$.94	\$.91	\$.92	\$.97	\$.94	\$.93	\$.95
100 pounds fat cattle	11.73	21.71	26.61	22.51	23.63	22.43	24.46	22.33	21.46
Pound of wool	.38	.41	.60	.51	.59	.54	.62	.56	.61
Dozen eggs	.26	.37	.35	.29	.29	.29	.26	.26	.26
100 pounds hogs sold	10.86	19.54	19.43	15.96	15.18	16.43	16.17	14.80	14.65
PRICE OF FEED									
Corn, bu.	.70	1.24	1.31	1.11	.96	.94	.96	1.05	1.06
Oats, bu.	.46	.74	.74	.59	.58	.60	.61	.62	.63
Barley, bu.	.58	1.31	1.15	.92	.87	.93	.99	.84	.90
Alfalfa hay, ton	10.00	18.60	18.30	18.20	19.50	19.50	19.00	19.00	20.00
Timothy hay, ton	6.24	10.86	10.60	10.58	11.20	11.30	11.00	11.00	11.60
Corn silage, ton	3.20	6.07	6.00	6.08	6.50	6.75	6.50	6.50	6.75
Soybean meal, cwt.	2.51	4.15	4.50	-	3.85	4.35	4.40	4.60	4.60
ACRES PER FARM									
Small grains	89.9	73.9	70.5	48.8	48.3	40.4	40.7	40.5	27.4
Cultivated crops	89.5	100.3	107.0	153.7	185.9	167.6	169.7	198.3	213.3
Tillable land in hay	27.4	19.1	28.1	34.9	34.7	29.5	28.7	30.6	31.5
Tillable land in pasture	24.5	15.2	14.8	13.2	6.7	8.3	7.3	5.7	6.0
Tillable land not cropped	5.1	2.4	1.4	2.2	1.6	26.1*	39.2*	26.1*	36.6*
Total tillable land	236.4	210.9	221.8	252.8	277.2	271.9	285.6	301.2	314.8
Non-tillable land	45.6	43.1	43.4	40.5	43.3	41.5	45.6	45.1	47.7
Total acres per farm	282.0	254.0	265.2	293.3	320.5	313.4	331.2	346.3	362.5
YIELDS PER ACRE									
Flax, bu.	10.5	13.7	11.5	13.0	16.1	16.8	9.8	12.8	12.7
Barley, bu.	25.1	34.1	29.0	34.6	42.7	42.6	25.0	30.5	46.8
Oats, bu.	40.4	46.3	41.4	51.7	56.0	59.9	48.6	50.1	59.2
Corn grain, bu.	49.7	47.8	53.7	57.1	64.7	74.6	66.2	78.0	73.2
Corn silage, tons	8.9	8.4	9.2	9.7	10.2	13.9	10.8	12.3	11.7
Soybeans, bu.	17.8	14.4	19.8	22.5	24.7	27.4	23.2	27.7	24.7
Alfalfa hay, tons	2.2	2.1	2.5	2.5	2.8	3.1	3.0	3.1	2.8

* Including feed grain program.