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1961 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
14 Southeastern Minnesota Counties

and the

Southeast Minnesota Farm Management Association
Cooperating

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Report No. 264
Department of Agricultural Economics
Institute of Agriculture
St. Paul 1, Minnesota
May, 1962

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1961 ANNUAL REPORT OF THE SOUTHEASTERN MINNESOTA FARM MANAGEMENT SERVICE

Prepared by T. R. Nodland (1)

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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 southeastern Minnesota counties are cooperating with the Southeast Minnesota Farm Management Association in maintaining a farm management service. The Southeastern Minnesota Farm Management Service was organized late in 1927 and began operation on January 1, 1928. The Southeastern Minnesota Farm Management Association was organized in 1939 by the farmers and now represents the farmers in determining policies and maintaining the field organization and membership. 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 and Leo Wirth 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 the service is handled by Harlund Routhe. Harvey Bjerke was the field agent for this project. At the end of the year S. A. Engene, Roger Johnson and Leo Wirth of the Department of Agricultural Economics and Kenneth Thomas 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 Associations, and the county agricultural extension agents who co-operated in 1961.

County	No. of records	Association Officers	County Agricultural Extension Agent
Dakota	8	George Radke, Director	Clarence O. Quie
Dodge	13	Harry Morton, Director	Loyel Hoseck Jerry Richardson
Freeborn	12	Alvin Ulland, Director	Eldon H. Senske
Goodhue	30	Arnold Maring, Director	G. J. Kunau
Le Sueur	6	Emil Dietz, Director	Roger Wilkowske
Mower	7	Roland Zimmerman, President	Don Hasbargen
Nicollet	11	Kenneth Eckberg, Director	F. E. Wetherill
Olmsted	15	Ralph Pike, Director	Richard Radway
Rice	15	Joe McFarlane, Vice-President	Warren Liebenstein
Scott	7	Dennis Gerold, Director	Robert Wayne
Steele	14	Laurence Schafer, Director	J. R. Gute
Wabasha	11	Lester Christison, Director	Mathas Metz
Waseca*	7	Fred Scholljegerdes, Secretary	C. F. Murphy
Winona	12	Deane Hassig, Director	Oliver Strand
Total	168		

* Includes one record from members of the Waseca Farm and Home Planning Group and supervised by Laurence Christianson.

The data for 164 farms are shown in the tables on succeeding pages. Four farms were omitted from all 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 variations occur 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, 1961*

Items	Your farm		Average of 164 farms	
	Jan. 1	Dec. 31	Jan. 1	Dec. 31
1. Size of farm (acres)			252	
2. Size of business (work units)**			529	
3. Dairy cows	\$	\$	\$3749	\$3929
4. Other dairy cattle			1988	2088
5. Beef cattle (incl. feeders)			2410	2134
6. Hogs			2049	2196
7. Sheep (incl. feeders)			127	120
8. Poultry (incl. turkeys)			192	203
9. Productive livestock (total)	\$	\$	\$10515	\$10670
10. Horses			20	22
11. Crop, seed and feed			6906	8287
12. Auto and truck (farm share)			1113	1125
13. Tractors			2262	2262
14. Crop and general machinery			4538	4453
15. Livestock equip. and supplies			1603	1595
16. Machinery & equipment (total)	\$	\$	\$9516	\$9435
17. Land			17284	17284
18. Buildings, fences, etc.			13192	13658
19. Total farm capital	\$	\$	\$57433	\$59356

Items	33 most profitable farms		33 least profitable	
	Jan. 1	Dec. 31	Jan. 1	Dec. 31
1. Size of farm (acres)	318		218	
2. Size of business (work units)**	651		465	
3. Dairy cows	\$4648	\$4772	\$3506	\$3872
4. Other dairy cattle	2043	2254	1995	1893
5. Beef cattle (incl. feeders)	2356	1816	2057	1940
6. Hogs	3045	3370	1386	1412
7. Sheep (incl. feeders)	63	41	201	262
8. Poultry (incl. turkeys)	198	276	207	210
9. Productive livestock (total)	\$12353	\$12529	\$9352	\$9589
10. Horses	34	32	22	23
11. Crop, seed and feed	8283	11299	6200	6650
12. Auto and truck (farm share)	1191	1383	1017	932
13. Tractors	2548	2628	2041	2150
14. Crop and general machinery	5681	5566	4021	4153
15. Livestock equipment and supplies	2015	1969	1394	1433
16. Machinery & equipment (total)	\$11435	\$11546	\$8473	\$8668
17. Land	21169	21169	16577	16577
18. Buildings, fences, etc.	17008	18407	12996	13219
19. Total farm capital	\$70282	\$74982	\$53620	\$54726

* 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 21 for an explanation of "work units."

Table 2. Summary of Farm Earnings (Cash Statement), 1961

Items	Your farm	Average of 164 farms	33 most profitable farms	33 least profitable farms
FARM RECEIPTS				
1. Dairy cattle	\$	\$1946	\$2060	\$1626
2. Dairy products		7935	10792	7017
3. Beef cattle (including feeders)		2874	3253	1833
4. Hogs		6411	8634	4488
5. Sheep and wool		196	76	511
6. Horses		3	-	6
7. Poultry (including turkeys)		81	170	34
8. Eggs		915	1413	898
9. Corn		1158	2321	1001
10. Small grain		730	996	329
11. Other crops		1876	2708	1456
12. Machinery and equipment sold		268	305	180
13. Income from work off the farm		393	430	283
14. Miscellaneous		255	506	163
15. Total farm sales	\$	\$25041	\$33664	\$19825
16. Increase in farm capital		1923	4700	1106
17. Family living from the farm		304	338	238
18. Total farm receipts	\$	\$27268	\$38702	\$21169
FARM EXPENSES				
19. Dairy cattle bought	\$	\$ 212	\$ 63	\$ 338
20. Beef cattle bought (incl. feeders)		1071	1071	559
21. Hogs bought		416	216	642
22. Sheep bought		81	1	380
23. Horses bought		4	2	2
24. Poultry bought (including turkeys)		89	40	80
25. Miscellaneous livestock expense		692	846	593
26. Feed bought		3848	5369	2911
27. Fertilizers		938	1587	753
28. Other crop expenses		768	1049	603
29. Custom work hired		813	859	794
30. Gas, oil and grease bought (farm share)		980	1211	940
31. Repairs for tractors, trucks & autos (farm share)		611	678	655
32. Repair and upkeep of farm real estate		359	462	313
33. Repair and upkeep of crop & gen. mach.		396	541	391
34. Repair and upkeep of livestock equip.		184	208	161
35. Wages of hired labor		979	1319	855
36. Electricity expense		335	421	308
37. Pers. prop. and real estate taxes		1240	1540	1133
38. Telephone and general farm expense		393	440	420
39. Total cash operating expense	\$	\$14409	\$17923	\$12831
40. Mechanical power bought (farm share)		839	1221	777
41. Crop and general machinery bought		936	1253	995
42. Livestock equipment bought		289	350	294
43. New real estate improvements		1392	2533	1121
44. Total farm purchases	\$	\$17865	\$23280	\$16018
45. Decrease in farm capital		-	-	-
46. Interest on farm capital		2920	3632	2710
47. Unpaid family labor		593	630	695
48. Board furnished hired labor		119	79	197
49. Total farm expenses	\$	\$21497	\$27621	\$19620
50. Labor earnings	\$	\$ 5771	\$11081	\$ 1549

Table 3. Summary of Farm Earnings (Enterprise Statement), 1961*

Items	Your farm	Average of 164 farms	33 most profitable farms	33 least profitable farms
RETURNS AND NET INCREASES				
1. Dairy cows	\$ _____	\$8166	\$11043	\$7259
2. Other cattle	_____	2098	2443	1570
3. Beef breeding herd	_____	268	-	238
4. Feeder cattle	_____	1268	1633	915
5. Hogs	_____	6192	8809	3903
6. Sheep, farm flock	_____	93	54	121
7. Sheep, feeders	_____	15	-	71
8. Chickens	_____	950	1640	893
9. All productive livestock	\$ _____	\$19050	\$25622	\$14970
10. Value of feed fed to livestock	_____	10957	13481	9453
11. Return over feed from livestock	_____	8093	12141	5517
12. Crop, seed and feed	_____	10454	14417	8337
13. Income from labor off the farm	_____	221	253	160
14. Agricultural conservation payments	_____	30	34	32
15. Miscellaneous	_____	225	472	131
16. Total returns and net increases	\$ _____	\$19023	\$27317	\$14177
EXPENSES AND NET DECREASES				
17. Horses	\$ _____	\$ 4	\$ 5	-
18. Truck	_____	345	426	275
19. Auto (farm share)	_____	533	598	573
20. Tractor	_____	1210	1438	1241
21. Electricity (farm share)	_____	348	431	325
22. Hired power	_____	411	435	397
23. Total power	\$ _____	\$ 2851	\$ 3333	\$2811
24. Crop and general machinery	_____	1421	1919	1319
25. Livestock equipment	_____	476	604	410
26. Buildings, fencing, and tiling	_____	1277	1584	1206
27. Misc. productive livestock expense	_____	692	846	593
28. Labor	_____	1982	2338	2026
29. Real estate taxes	_____	1003	1255	926
30. Personal property tax	_____	237	285	207
31. Insurance	_____	188	209	224
32. General farm	_____	205	231	196
33. Interest on farm capital	_____	2920	3632	2710
34. Total expenses and net decreases	\$ _____	\$13252	\$16236	\$12628
35. Labor earnings	\$ _____	\$ 5771	\$11081	\$ 1549

* 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, 1961 (Operator's Share)

Items	Your farm		29 owners	
	Jan. 1	Dec. 31	Jan. 1	Dec. 31
Acres owned			210	
Acres rented			-	
Total farm capital	\$	\$	\$50522	\$51761
Stocks and bonds			2235	2576
Life insurance			2221	2391
Notes and accounts receivable			457	553
Shares in cooperative organizations			850	892
Outside real estate			621	638
Cash on hand and in bank			1435	2278
Household furnishings and clothing			2089	2114
Personal share of auto			421	384
Farm dwelling			5808	5798
Total non-farm assets	\$	\$	\$16137	\$17624
Total assets	\$	\$	\$66659	\$69385
Federal Land Bank mortgage			2614	2493
Other mortgages on farm operated			6353	7053
Production credit association loans			470	1119
FHA chattel mortgage			-	-
Sealed grain			276	399
Other chattel mortgages			3129	1864
Notes payable			2640	2882
Accounts payable			311	262
Total liabilities	\$	\$	\$15793	\$16072
Farmer's net worth			50866	53313
Change in net worth			-	+2447
Items	21 part-owners*		6 renters**	
	Jan. 1	Dec. 31	Jan. 1	Dec. 31
Acres owned	154		-	
Acres rented	148		221	
Total farm capital	\$50724	\$52874	\$15707	\$17723
Stocks and bonds	3680	3926	1051	1440
Life insurance	2318	2598	1736	1939
Notes and accounts receivable	584	699	-	-
Shares in cooperative organizations	822	831	1032	1080
Outside real estate	204	204	39	59
Cash on hand and in bank	2758	3038	927	617
Household furnishings and clothing	2572	2625	2179	2225
Personal share of auto	491	477	232	334
Farm dwelling	3308	3181	-	-
Total non-farm assets	\$16737	\$17579	\$7196	\$7694
Total assets	67461	70453	22903	25417
Federal Land Bank mortgage	454	429	-	-
Other mortgages on farm operated	11433	10856	-	-
Production Credit Association loans	1134	1312	2421	2674
FHA Chattel mortgage	-	-	-	-
Sealed grain	66	-	483	628
Other chattel mortgages	2617	2379	1666	1325
Notes payable	3952	4320	2043	2271
Accounts payable	1711	1195	769	590
Total liabilities	\$21367	\$20491	\$7382	\$7488
Farmer's net worth	46094	49962	15521	17929
Gain in net worth		+3868		+2408

* 14 rented for cash, 4 crop share, and 3 cash and crop share.

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

Table 5. Summary of Farm Earnings by Tenure, 1961 (Operator's share)

Items	Your farm	29 owners	21 part owners	6 renters
FARM RECEIPTS				
Dairy cattle		\$1952	\$2182	\$1470
Dairy products		7825	9111	5364
Beef cattle (including feeders)		2579	2411	1019
Hogs		6952	4736	4850
Sheep and wool (including feeders)		153	698	22
Horses		2	4	-
Poultry (including turkeys)		27	33	6
Eggs		729	673	438
Corn		412	1601	484
Small grain		267	608	202
Other crops		728	2505	831
Machinery and equipment sold		209	232	140
Income from work off the farm		296	427	501
Miscellaneous		230	586	109
(1) Total farm sales		\$22361	\$25807	\$15436
(2) Increase in farm capital		1239	2150	2015
(3) Family living from the farm		283	330	292
(4) Total farm receipts (1)+(2)+(3)		\$23883	\$28287	\$17743
FARM EXPENSES				
Dairy cattle bought		\$ 159	\$ 180	\$ -
Beef cattle bought (incl. feeders)		1386	306	-
Hogs bought		393	401	704
Sheep bought (including feeders)		13	567	-
Horses bought		11	7	-
Poultry (including turkeys)		54	69	34
Miscellaneous livestock expense		719	696	537
Feed		3352	2702	3177
Fertilizers		763	1221	779
Other crop expense		625	827	316
Custom work hired		911	818	645
Gas, oil and grease		839	1079	674
Rep. tractor, truck & auto (farm share)		670	714	516
Rep. and upkeep of real estate		336	410	104
Rep. and upkeep of crop & gen. mach.		346	452	107
Rep. and upkeep of livestock equip.		169	150	139
Wages of hired labor		696	1249	459
Electricity expense (farm share)		306	369	243
Real est. and pers. prop. taxes		1067	809	160
Cash rent		-	1420	1221
General farm and insurance		386	402	254
Interest paid		883	1050	329
Total cash operating expense		\$14084	\$15898	\$10398
Mech. power bought (farm share)		673	1763	1070
Crop and gen. mach. bought		445	1225	533
Livestock equipment bought		333	293	136
Farm purchase & real estate improvements		1145	846	-
(5) Total farm purchases		\$16680	\$20025	\$12137
(6) Decrease in farm capital		-	-	-
(7) Interest on farm capital		1674	1540	507
(8) Unpaid family labor		366	454	475
(9) Board furnished hired labor		153	101	151
(10) Total farm expenses (5)+(6)+(7)+(8)+(9)		\$18873	\$22120	\$13270
(11) Labor earnings (4)-(10)		5010	6167	4473
(12) Ret. to cap. & fam. lab. (7)+(8)+(11)		7050	8161	5455

Table 6. Household and Personal Expenses for Those Farms Which Kept Complete Accounts of These Expenses, 1961

Items	Your farm	Average of 59 farms	12 most profit- able farms	12 least profit- able farms
Number of persons - family	_____	5.1	5.8	3.6
Number of adult equiv. - family	_____	3.8	4.1	3.1
other*	_____	.3	-	.4
EXPENSES				
Food and meals bought	_____	\$1104	\$1141	\$862
Operating and supplies	_____	347	381	296
Furnishings and equipment	_____	289	229	592
Clothing and clothing materials	_____	426	453	293
Personal care and spending	_____	109	87	117
Education and recreation	_____	246	245	184
Gifts and special events	_____	139	141	96
Medical and hosp. expense	_____	485	417	396
Church and welfare	_____	252	230	247
Personal share of auto expense	_____	182	166	160
Upkeep on dwelling	_____	57	80	30
Pers. share of tele. and elect. exp.	_____	134	153	125
Total cash living expense	_____	\$3770	\$3723	\$3398
Personal share of new autos	_____	174	259	40
New dwelling	_____	96	-	416
Taxes	_____	285	256	237
Life insurance	_____	363	451	351
Other savings and investments	_____	424	977	56
Total household & pers. cash exp.	_____	\$5112	\$5666	\$4498
Family living from the farm	_____	294	371	169
Total cash expenses & perquisites	_____	\$5406	\$6037	\$4667
RECEIPTS				
Return to capital and family labor	_____	\$7117	\$10980	\$2981
Income from outside investments	_____	172	207	25
Other personal income	_____	312	132	741

* Hired help or others boarded.

Table 7. Family Living from the Farm, 1961

Items	Your farm	Average of 164 farms	Your farm	Average of 164 farms
No. of adult equivalents:				
Family	_____	3.6		
Other*	_____	.3		
Whole milk	_____	1187 qts.		\$86.42
Skim milk	_____	16 qts.		.82
Cream	_____	22 pts.		2.22
Cattle	_____	726 lbs.		133.05
Hogs	_____	410 lbs.		50.16
Sheep	_____	1 lb.		.02
Poultry	_____	56 lbs.		7.26
Eggs	_____	89 doz.		24.04
				\$303.99

*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. ^{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

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
0 or 1	17	_____	XXXXXXXXXXXX	\$3314
2 or 3	65	_____	XXXXXXXXXXXXXXXXXXXX	5353
4 or 5	66	_____	XXXXXXXXXXXXXXXXXXXX	6035
6 or 7	16	_____	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	8988

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/} Pond, G. A. and Nodland, T. R., "Some Factors Affecting Earnings of Farmers in South-eastern Minnesota, 1950-1959". University of Minnesota Department of Agricultural Economics Report No. 261, December 1961.

Table 9. Measures of Farm Organization and Management Efficiency, 1961

Measures used in chart on page 11	Your farm	Average of 164 farms	33 most profit- able farms	33 least profit- able farms
Labor earnings	_____	\$5771	\$11081	\$1549
Crop yields*	_____	100	102	96
Percent tillable land in high return crops**	_____	61.9	63.9	62.3
Return for \$100 feed to prod. livestock***	_____	100	110	92
Prod. livestock units per 100 acres****	_____	36.9	35.6	35.7
Size of business--work units	_____	529	651	465
Work units per worker	_____	291	326	258
Power, mach., equip., & bldg. exp. per work unit	_____	\$11.97	\$12.66	\$12.95
Items related to some of the above measures:				
Index of return for \$100 feed from:				
Dairy cattle (see pages 16 and 17)	_____	100	107	94
Beef cattle--breeding herd (see page 18)	_____	100	-	70
Beef cattle--feeders (see page 18)	_____	100	121	81
Hogs (see page 15)	_____	100	107	90
Sheep--farm flock (see page 19)	_____	100	90	113
Sheep--feeders	_____	100	-	-
Chickens (see page 20)	_____	100	119	99
Number of animal units	_____	77.9	97.0	68.1
Work units on crops	_____	107	140	93
Work units on productive livestock	_____	400	485	356
Other work units	_____	22	26	16
Number of family workers	_____	1.3	1.4	1.4
Number of hired workers	_____	.5	.6	.4
Total number of workers	_____	1.8	2.0	1.8
Power expense per work unit	_____	\$5.69	\$5.50	\$6.45
Crop machinery expense per work unit	_____	2.90	3.44	3.04
Livestock equip. expense per work unit	_____	.87	.89	.84
Bldg. & fencing exp. per work unit	_____	2.51	2.83	2.62

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

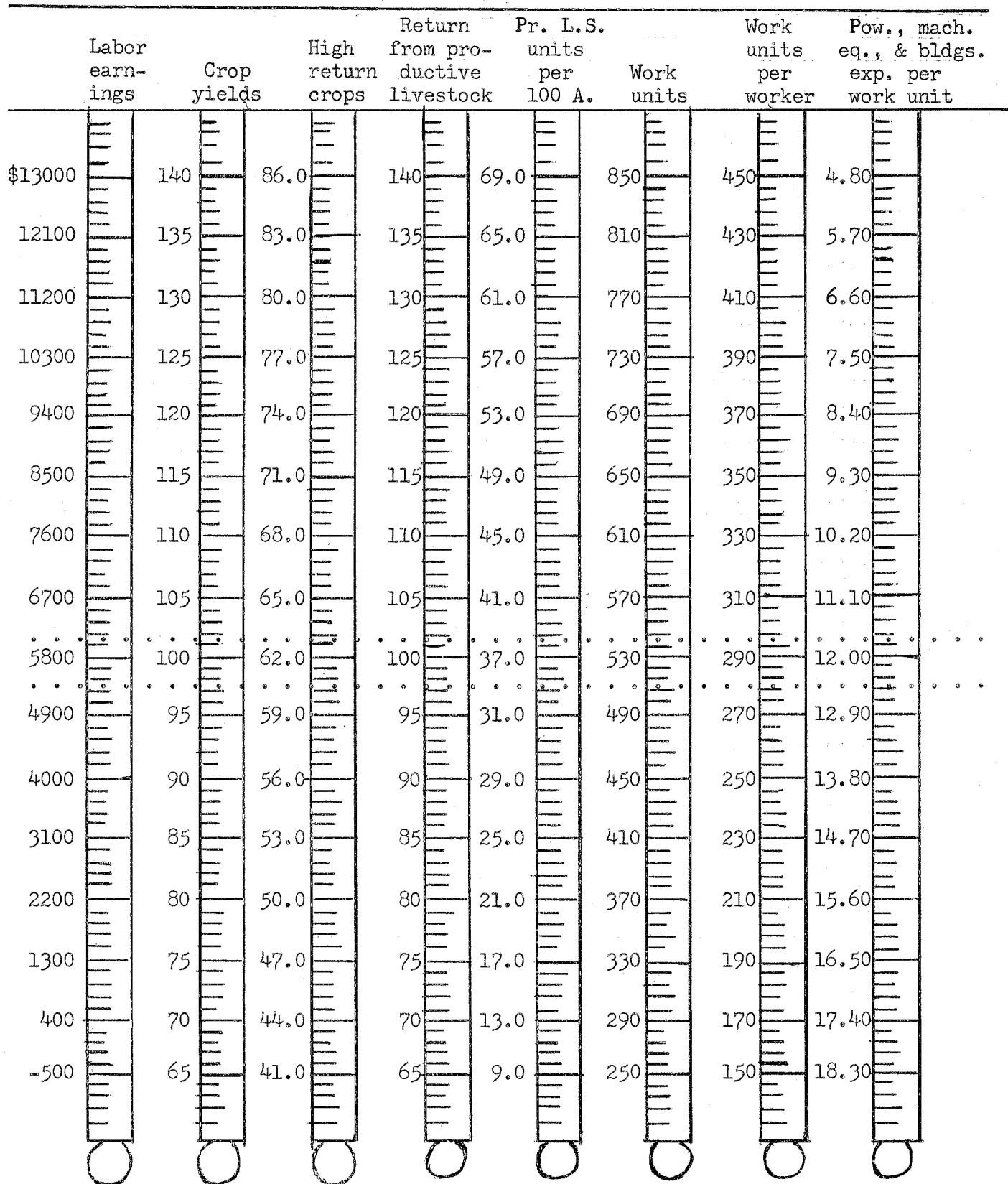


Table 10. Distribution of Acres in Farm, 1961

Crop	Crop ratings*	Number growing this crop	Your farm	Average of 164 farms
Canning peas	B	10	_____	1.5
Wheat	C	49	_____	5.1
Oats for silage	C	21	_____	1.9
Oats for grain	D	148	_____	25.0
Barley	D	14	_____	1.6
Rye	D	2	_____	.1
Total small grains and peas		160	_____	35.2
Seed corn, potatoes, truck crops	A	1	_____	.1
Corn grain	A	163	_____	69.1
Corn silage	B	116	_____	7.5
Sweet corn	B	17	_____	2.7
Soybeans for grain	B	86	_____	17.0
Total cultivated crops		164	_____	96.4
Alfalfa hay	B	162	_____	37.2
Other legumes and mixtures	C	1	_____	.1
Timothy and brome hay or seed	D	2	_____	.1
Annual hay	D	4	_____	.2
Total tillable land in hay		162	_____	37.6
Alfalfa pasture	B	125	_____	15.2
Other legumes and mixtures	C	11	_____	1.0
Sudan and/or rape	C	8	_____	.2
Other tillable pasture	D	20	_____	.7
Total tillable land in pasture		130	_____	17.1
Feed-grain program	A	80	_____	15.9
Tillable land not cropped	D	10	_____	.8
Total tillable land		164	_____	203.0
Wild hay		26	_____	1.1
Non-tillable pasture		116	_____	22.1
Timber not pastured		76	_____	8.5
Roads and waste			_____	9.7
Farmstead			_____	7.4
Total acres in farm				251.8
Percent land tillable			_____	80.6
Percent tillable land in high return crops			_____	61.9

*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, 1961

Crop	Your farm	Average of farms growing each crop
Canning peas, dollars	\$ _____	\$52.14
Wheat, bu.	_____	36.6
Oats for silage, tons	_____	9.2
Oats for grain, bu.	_____	59.6
Barley, bu.	_____	53.8
Corn grain, bu.	_____	82.3
Corn silage, tons	_____	13.5
Sweet corn, tons	_____	5.3
Soybeans, bu.	_____	27.4
Alfalfa hay, tons	_____	3.0
Annual hay, tons	_____	4.0
Wild hay, tons	_____	.2
Feed-grain program, dollars	\$ _____	\$36.60

Table 12. Average Price of Feeds, 1961

Item	Value	Item	Value
Ear corn, per bu.	\$.94	Alfalfa hay, per ton	\$19.50
Oats, per bu.	.60	Red or alsike clover hay, per ton	16.50
Barley, per bu.	.93	Timothy, per ton	11.30
Wheat, per bu.	2.00	Wild hay, per ton	9.75
Soybean meal, per cwt.	4.35	Corn silage, per ton	6.75
Meat scraps, per cwt.	5.60	Pasture, per mo. per cow	2.50
		Skim milk per cwt.	.32

Table 13. Power and Machinery Expenses per Crop Acre, 1961

Items	Your farm	Average of 164 farms	33 most profitable farms	33 least profitable farms
Crop acres per farm	_____	170	223	145
Tractor exp. per crop acre	_____	\$7.60	\$6.55	\$9.11
Crop & gen.mach.exp. per crop acre	_____	8.68	8.82	9.63

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, 1961

Item	Dairy cattle			Beef breeding herd
	Cows	Other	All	
Total returns	_____	_____	_____	_____
Total feed cost	_____	_____	_____	_____
Total return over feed	_____	_____	_____	_____
Item	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, 1961

Items	Your farm	Average of 121 farms	24 farms highest in returns above feed	24 farms lowest in returns above feed
Feed per cwt. hogs produced, lbs.:				
Corn	_____	339	296	448
Small grain	_____	67	31	111
Commercial feeds	_____	66	69	65
Total concentrates	_____	472	396	624
Total feed costs per cwt. hogs produced	_____	\$10.43	\$8.88	\$13.13
Net increase in value per cwt. hogs produced	_____	\$16.15	\$17.93	\$14.82
RETURNS ABOVE FEED COST PER CWT. HOGS PRODUCED	_____	\$ 5.72	\$ 9.05	\$ 1.69
RETURNS FOR \$100 OF FEED	_____	\$160	\$204	\$115
Price received per cwt. hogs sold	_____	\$16.59	\$17.36	\$16.40
Total number of litters raised	_____	29.2	50.3	19.8
No. of pigs born per litter	_____	8.8	8.8	9.2
No. of pigs weaned per litter	_____	7.2	7.5	7.1
No. of feeder pigs purchased	_____	32	-	68
Total weight of feeders purchased	_____	1170	-	2585
Price paid per feeder pig	_____	\$13.65	-	\$13.91
Pounds of hogs produced	_____	50763	70565	39729

Table 16. Factors of Cost and Returns from Dairy Cows, 1961

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		367	452	280
Pounds of milk per cow*		10106	12201	7896
Percent of butterfat in milk		3.7	3.7	3.6
Price rec. per lb. B.F. sold (¢)		96.4	98.0	93.7
As manufacturing cream (cents)		69.0	-	69.0
Whole milk (cents)		96.6	98.0	94.9
Price rec. per cwt. milk sold*		\$3.58	\$3.66	\$3.44
Feeds per cow, lbs.:				
Corn		2546	3101	2199
Small grain		749	807	688
Commercial feeds		555	619	482
Legume hay		5281	5431	5147
Other hay		218	415	360
Total concentrates		3850	4527	3369
Total hay and fodder		5499	5846	5507
Silage		7038	8231	5704
Feed cost per cow:				
Concentrates		\$79.15	\$91.64	\$69.51
Roughages		74.82	81.00	70.42
Pasture		10.03	9.93	10.06
TOTAL FEED COST		\$164.00	\$182.57	\$149.99
Value of produce per cow:				
Dairy product sales		\$346.04	\$433.73	\$251.51
Dairy produce used in home		4.42	4.12	5.75
Milk fed to livestock		5.28	4.92	7.32
Net increase in value of cows		2.00	2.00	1.47
TOTAL VALUE PRODUCED		\$357.74	\$444.77	\$266.05
RETURNS ABOVE FEED COST PER COW		\$193.74	\$262.20	\$116.06
RETURNS FOR \$100 OF FEED		\$222	\$251	\$182
Feed cost per lb. B.F. (cents)		44.7	40.4	53.5
Number of cows**		28.5	30.6	22.2

*Average for farms selling whole milk.

**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 Cattle, 1961

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	_____	815	798	691
Hay and fodder	_____	2350	2332	2182
Silage	_____	2029	2788	1454
Skim milk	_____	23	4	107
Whole milk	_____	147	129	172
TOTAL FEED COSTS PER HEAD	_____	\$56.41	\$57.50	\$52.30
Net inc. in value of other dairy cattle	_____	\$86.04	\$92.54	\$80.05
RETURNS ABOVE FEED COST PER HEAD	_____	\$29.63	\$35.04	\$27.75
RETURNS FOR \$100 OF FEED	_____	\$164	\$166	\$162
Number of head of other dairy cattle	_____	30.8	34.5	23.7

Table 18. Feed Costs and Returns from All Dairy Cattle, 1961

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	_____	3053	3442	2647
Hay and fodder	_____	5192	5347	5048
Silage	_____	5927	7216	4711
TOTAL FEED COSTS PER ANIMAL UNIT	_____	\$141.50	\$153.43	\$128.01
Value of produce per animal unit:				
Dairy products	_____	\$226.44	\$278.05	\$166.71
Net increase in val. of dairy cattle	_____	60.35	65.88	54.37
TOTAL VALUE PRODUCED	_____	\$286.79	\$343.93	\$221.08
RETURNS ABOVE FEED PER ANIMAL UNIT	_____	\$145.29	\$190.50	\$ 93.07
RETURNS PER \$100 OF FEED	_____	\$206	\$230	\$177
Animal units of dairy cattle	_____	44.2	48.5	34.2

Table 19. Feed Costs and Returns from Beef Cattle, 1961

Items	Your farm	Average of all farms
Beef breeding herd: No. of farms:		11
Feeds per animal unit, lbs.:		
Concentrates		1373
Legume hay		6344
Other hay		679
Fodder and stover		78
Silage		4315
Feed cost per animal unit:		
Concentrates		\$25.65
Roughages		71.79
Pasture		17.68
TOTAL FEED COST		\$115.12
Value of produce per animal unit:		
Dairy products		\$ -
Net increase in value of animal		112.40
TOTAL VALUE PRODUCED		\$112.40
RETURNS ABOVE FEED COST PER ANIMAL UNIT		\$ -2.72
RETURNS FOR \$100 OF FEED		\$110
Pounds of beef produced		17984
Number of cows and herd bulls		26.8
Number of other beef cattle		33.3
Number of animal units in the herd		31.5
Feeding cattle: No. of farms:		31
Feeds per cwt. beef produced, lbs.:		
Corn		593
Small grain		38
Commercial feeds		63
Legume hay		287
Other hay		13
Total concentrates		694
Total hay and fodder		300
Silage		524
Feed cost per cwt. beef produced:		
Concentrates		\$13.56
Roughages		4.63
Pasture		.34
TOTAL FEED COSTS		\$18.53
Net increase in value of feeders		21.54
RETURNS ABOVE FEED COST PER CWT. BEEF PRODUCED		3.01
RETURNS FOR \$100 OF FEED		\$123
Price paid per cwt. beef bought		\$27.66
Price received for feeder cattle sold		24.98
Number of animal units		59.0
Pounds of beef produced		32116

Table 20. Feed Costs and Returns from a Farm Flock of Sheep, 1961

Items	Your farm	Average of 23 farms
Feeds per ewe,* lbs.:		
Concentrates	_____	218
Legume hay	_____	588
Other hay	_____	18
Silage	_____	137
Feed cost per ewe:		
Concentrates	_____	\$4.11
Roughages	_____	6.62
Pasture	_____	3.51
TOTAL FEED COSTS	_____	\$14.24
Value of produce per ewe:		
Wool	_____	\$ 6.34
Net increase in value of sheep	_____	11.93
TOTAL VALUE PRODUCED	_____	\$18.27
RETURNS ABOVE FEED COST PER EWE	_____	\$4.03
RETURNS FOR \$100 OF FEED	_____	\$158
Price per cwt. of lambs sold	_____	\$16.54
Price per lb. wool sold (cents)	_____	58.2
Pounds of wool per sheep sheared	_____	9.9
Percent lamb crop**	_____	108
Percent death loss**	_____	6.9
Pounds of sheep produced	_____	2830
Number of head of ewes	_____	32.5

*Includes feeds and returns from lambs.

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

Table 21. Feed Costs and Returns from Chickens, 1961*

Items	Your farm	Average of 50 farms	10 farms highest in return above feed	10 farms lowest in return above feed
Feed per hen, lbs.:				
Grain	_____	81	63	89
Commercial feeds	_____	37	41	28
Total concentrates	_____	118	104	117
 TOTAL FEED COST PER HEN	_____	\$3.30	\$3.05	\$3.08
Value of produce per hen:				
Eggs sold and used in house	_____	\$5.19	\$6.40	\$3.74
Net increase in value of chickens	_____	-.27	-.02	-.62
TOTAL VALUE PRODUCED	_____	\$4.92	\$6.38	\$3.12
 RETURNS ABOVE FEED COST PER HEN	_____	\$1.62	\$3.33	\$.04
 RETURNS FOR \$100 OF FEED	_____	\$152	\$213	\$101
Price rec'd. per doz. eggs sold (¢)	_____	29.7	31.2	28.3
Eggs laid per hen	_____	210	247	158
Ave. no. of hens on farm during year	_____	531	887	342
Percent of hens that are pullets	_____	64	64	45
Percent death loss of hens	_____	10	10	12
Number of chicks started:				
Pullets	_____	577	898	199
Cockerels	_____	21	14	-
Pounds of chicken produced	_____	1800	3191	339

* 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	No. of work units	Item	No. 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, 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, $1\frac{1}{4}$ beef cows or bull, 1 feeder steer or heifer, $3\frac{1}{3}$ other beef cattle, 7 sheep, 14 lambs, $2\frac{1}{2}$ hogs, 5 pigs, 50 hens or 1,100 pounds of turkeys produced.

Table 23. Summary by Years

	Average 1928-29	Average 1930-34	Average 1935-39	Average 1940-44	Average 1945-49	Average 1950-54	1955	1956	1957	1958	1959	1960	1961
Number of farms	148	140	149	177	169	162	165	165	165	159	172	158	164
Acres in farm	170	199	218	227	223	226	226	231	229	240	247	247	252
Crop A. in farm	116	136	147	148	148	155	156	159	164	159	172	178	170
Farm inventory	\$24574	\$19851	\$20286	\$25912	\$31402	\$42663	\$45086	\$46305	\$48215	\$51930	\$55173	\$55842	\$58394
Farm earnings													
FARM EXPENSES													
Cattle bought	\$ 141	\$ 83	\$ 213	\$ 441	\$ 485	\$ 902	\$ 750	\$ 947	\$ 957	\$ 1310	\$ 1774	\$ 1549	\$ 1283
Hogs bought	85	52	72	154	194	202	139	177	206	398	372	328	416
Sheep bought	6	14	94	64	64	35	155	89	103	158	209	148	81
Poultry bought	37	41	80	142	176	154	145	120	162	111	83	108	89
Horses bought	36	33	43	32	14	6	6	5	5	5	9	3	4
Misc. livestock exp.	66	64	94	124	228	359	433	476	508	604	631	671	692
Misc. crop expense	186	160	222	301	701	1010	1344	1280	1509	1724	1785	1674	1706
Feed bought	440	313	535	1273	1954	2241	2348	2491	2675	2943	3279	3172	3848
Custom work hired	-	-	-	165	401	552	649	688	761	839	786	808	813
Power (new & exp.)	399	321	559	717	1562	2028	2078	2250	2433	2770	2541	2738	2765
Mach. & equip. (new)	190	122	281	392	845	1231	827	1195	1687	1693	1471	1123	1225
Mach. & equip. (upk)	72	55	67	144	280	350	392	432	484	526	525	520	580
Bldgs. (new)	130	81	245	331	778	983	747	807	979	1085	1289	870	1392
Bldgs. (upkeep)	52	32	79	188	323	368	263	305	310	384	336	358	359
Hired labor	272	243	398	585	849	857	828	878	939	906	841	850	979
Taxes and ins.	298	313	281	303	449	736	844	921	967	1074	1201	1282	1428
General farm	30	28	35	52	93	136	146	162	175	192	203	187	205
Total farm purch.	\$24440	\$1955	\$3298	\$5408	\$9396	\$12150	\$12094	\$13223	\$14860	\$16722	\$17335	\$16389	\$17865
Decr. in farm cap.	-	230	-	-	-	-	862	-	-	-	-	66	-
Board to hired lab.	102	87	145	158	174	166	140	130	133	135	133	103	119
Int. on farm cap.	1228	992	1014	1296	1570	2133	2254	2315	2411	2597	2759	2792	2920
Unpd. fam. labor	358	261	239	326	511	496	543	526	545	547	540	549	593
Total farm exp.	\$4128	\$3525	\$4696	\$7188	\$11651	\$14945	\$15893	\$16194	\$17949	\$20001	\$20767	\$19899	\$21497

Table 23. Summary by Years (Continued)

	Average 1928-29	Average 1930-34	Average 1935-39	Average 1940-44	Average 1945-49	Average 1950-54	1955	1956	1957	1958	1959	1960	1961
FARM RECEIPTS													
Cattle	\$ 753	\$ 431	\$ 713	\$1335	\$2022	\$2981	\$2688	\$2781	\$3267	\$4450	\$4472	\$4445	\$4820
Dairy products	1662	1188	1451	2138	4080	4702	5145	5934	6308	6412	6363	7120	7935
Hogs	1164	793	1074	2517	3598	4253	3525	3717	4610	6040	5373	5593	6411
Sheep and wool	52	60	200	186	232	171	327	237	247	255	293	304	196
Poultry	140	166	381	629	672	354	349	197	306	132	75	132	81
Eggs	275	243	372	751	1319	1297	1350	1276	989	1039	719	916	915
Horses	30	27	55	34	20	14	9	15	11	6	1	4	3
Corn	37	62	153	121	335	766	1682	2004	2002	1720	2226	1932	1158
Small grain	241	177	357	278	659	495	366	378	363	510	790	517	730
Other crops	163	155	174	455	819	853	1226	1390	1456	1354	1243	1113	1876
Inc.-labor off farm	102	118	168	141	178	182	287	268	327	238	226	215	221
Agr. adj. payments	0	74	230	254	58	59	43	59	47	35	40	71	30
Miscellaneous	134	138	247	282	470	625	471	642	722	779	805	719	665
Total farm sales	\$4753	\$3632	\$5575	\$9121	\$14462	\$16752	\$17468	\$18898	\$20655	\$22970	\$22626	\$23081	\$25041
Inc. in farm cap.	617	-	524	921	1411	1905	-	1656	1178	2057	680	-	1923
Fam.liv.from farm	325	232	273	566	715	620	318	290	286	338	287	310	304
Total farm recpt.	\$5695	\$3864	\$6372	\$10608	\$16588	\$19277	\$17786	\$20844	\$22119	\$25365	\$23593	\$23391	\$27268
Total farm exp.	4128	3525	4696	7188	11651	14945	15893	16194	17949	20001	20767	19899	21497
Labor earnings	1567	339	1676	3420	4937	4332	1893	4650	4170	5364	2826	3492	5771
MISCELLANEOUS ITEMS													
Yield per acre:													
Corn (bu.)	44.8	43.4	47.2	55.7	47.6	59.8	67.5	78.6	76.8	70.4	72.4	63.2	82.3
Barley (bu.)	36.0	26.2	28.7	24.8	30.8	29.1	37.3	33.8	39.2	53.3	43.5	35.5	53.8
Oats (bu.)	46.0	40.0	43.4	44.2	48.2	32.8	55.3	50.1	54.7	67.9	63.5	51.0	59.6
Alfalfa (tons)	3.0	2.3	2.3	2.4	2.3	2.7	3.0	2.9	2.7	2.8	2.9	3.0	3.0
Perc. high ret.cr.	31.9	35.8	41.0	43.3	50.9	62.8	68.0	68.9	56.6	58.1	62.1	58.1	61.9
A.U. lvstk.per 100A.	19.2	20.6	19.3	24.5	22.8	28.9	33.9	32.7	33.4	34.2	34.5	35.5	36.9
No. of work units	599	747	777	670	601	535	472	475	490	491	502	519	529
Work units per wrkr.	310	338	341	305	300	284	268	264	272	273	295	305	291
Exp. per work unit	\$1.76	\$1.26	\$1.37	\$2.35	\$4.69	\$8.18	\$9.87	\$10.23	\$10.69	\$11.70	\$11.54	\$11.45	\$11.97
No. of milk cows	14.2	17.8	17.8	17.6	17.0	17.7	19.0	19.6	20.3	20.6	19.6	21.4	22.3

Table 23. Summary of Years (Concluded)

	Average 1928-29	Average 1930-34	Average 1935-39	Average 1940-44	Average 1945-49	Average 1950-54	1955	1956	1957	1958	1959	1960	1961
MISCELLANEOUS ITEMS (cont.)													
No. of litt.of pigs	9.3	10.8	9.5	14.4	11.7	13.5	15.7	14.5	16.2	19.2	20.7	20.1	18.0
Lbs. of hogs prod.	12706	15153	13438	21586	18505	17579	24852	24220	26544	32742	33003	35306	37529
No. of head of ewes	-	-	-	-	-	32	34	31	30	38	33	36	32
No. of hens	136	169	182	222	235	219	238	236	204	195	170	175	169
Lbs.BF per dairy cow	244	240	238	252	278	308	320	340	339	348	361	364	367
Pigs weaned per lit.	6.3	6.1	6.4	6.2	6.5	6.7	6.9	7.1	6.5	7.1	6.9	6.8	7.2
No.of eggs laid per hen	95	114	131	145	177	194	204	203	198	209	200	197	210
PRICE RECEIVED PER:													
Lb. BF as cream	\$.52	\$.28	\$.34	\$.47	\$.80	\$.75	\$.64	\$.65	\$.67	\$.68	\$.66	\$.65	\$.69
Cwt. hogs sold	8.92	4.98	8.26	10.93	19.36	19.54	14.45	14.45	17.76	19.42	13.89	15.34	16.59
Cwt. feed.catt.sold	-	-	-	11.55	20.56	26.22	18.45	18.13	19.78	24.63	24.95	22.40	24.98
Pounds wool sold	.36	.16	.25	.39	.43	.58	.40	.54	.63	.39	.56	.66	.58
Doz. eggs sold	.28	.16	.19	.27	.39	.37	.34	.33	.30	.31	.25	.30	.30
RETURN ABOVE FEED COST PER:													
Dairy cow	\$76.50	28.15	49.95	81.83	161.27	156.86	123.74	157.31	168.23	188.66	176.36	183.05	193.74
Cwt. hogs prod.	1.50	.48	2.98	3.93	6.09	6.47	1.22	4.61	7.29	8.78	1.20	6.49	5.72
Ewe	-	-	-	-	-	-	-	-	-	-	-	-	4.03
Hen	1.82	.99	1.12	1.82	2.11	1.60	2.11	1.46	1.22	1.80	.37	1.64	1.62
FEED COST PER:													
Dairy cow	\$69.50	47.30	44.93	63.13	123.22	142.59	148.41	146.38	143.00	141.77	155.68	153.89	164.00
Cwt. hogs prod.	7.66	4.21	5.10	7.52	13.23	12.95	10.96	11.26	10.67	9.98	10.36	10.06	10.43
Ewe	-	-	-	-	-	-	-	-	-	-	-	-	14.24
Hen	1.62	1.13	1.57	2.38	4.39	4.76	4.03	4.11	3.68	3.67	3.42	3.22	3.30
PRICE OF FEED:													
Corn (per bu.)	\$.70	\$.45	\$.59	\$.71	\$1.29	\$1.31	\$1.23	\$1.25	\$1.10	\$.98	\$.98	\$.96	\$.94
Barley (per bu.)	.60	.42	.49	.59	1.31	1.16	.93	.94	.91	.90	.92	.87	.93
Oats (per bu.)	.48	.26	.28	.46	.75	.74	.61	.63	.61	.54	.58	.58	.60
Oilmeal (per cwt.)	3.00	1.96	2.12	2.30	3.84	4.19	4.10	3.70	3.50	3.50	3.85	3.85	4.35
Alfalfa (per ton)	14.75	11.10	9.30	9.90	18.40	18.30	18.00	18.50	17.00	17.75	19.75	19.50	19.50

Footnote for pages 22, 23, and 24.

The values of farm real estate in 1931 were reduced approximately 25 percent from 1928-30 values. The values in 1932 were reduced about 29 percent from the 1931 values. Only land was affected by the reduction in 1931, but in 1932 buildings and improvements were cut 25 percent. In 1936 the values of land were adjusted upward 10 percent. 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 1961.

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 1961 were as follows:

Year	Unpaid family labor	Board for hired labor	Year	Unpaid family labor	Board for hired labor
1928-30	\$60	\$20	1942	\$60	\$25
1931	40	15	1943	75	25
1932-34	30	10	1944	85	25
1935	40	15	1945	90	25
1936	43	18	1946	100	30
1937-40	45	18	1947-55	125	36
1941	50	20	1956-60	135	38
			1961	150	40

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 percent 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. 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 1957 and the animal unit equivalents 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 farm buildings since 1940, was omitted from all the records except the net worth statements.

These adjustments should be considered in comparing 1961 results with previous years.