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Southwestern Minnesota Farm Management Association

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

Economic Information Report R 68-2

Department of Agricultural Economics Institute of Agriculture St. Paul, Minnesota 55101 June 1968

1967 ANNUAL REPORT OF THE SOUTHWESTERN MINNESOTA FARM MANAGEMENT ASSOCIATION

Prepared by T. R. Nodland and Janet B. Otis*

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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.

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. Michael Lynch was the field agent for this project. At the end of the year, Carl

^{*} The authors are indebted to Barbara Miller, Dorothy Spreck and Eileen Miley for their assistance in the preparation of this report.

Pherson, Herbert Walch and Walter Fishel of the Department of Agricultural Economics; Duane Wilson, District County Agent Supervisor; Paul Hasbargen, Charles Cuykendall, Richard Hawkins and Jerome Bambenik, Extension Specialists in Farm Management; Lawrence Christenson, Area Farm Management Agent, Waseca, Minnesota; David Johnson, County Agricultural Agent in Yellow Medicine County; and Ernest Johnson, County Agricultural Agent in Redwood County 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 cooperated in 1967.

County	No. of records	Association officers	County Agricultural Extension Agent
Cottonwood	20	John Regier, Director	Paul Sandager
Faribault	22	Leon Chirpich, Director	Gene Williams
		Bernard Stevermer, Director	
Jackson	18	Curtis Pietz, Vice-President	Ray Palmby
		Vernon Voss, Director	
Martin	9	Willard Peters, Director	Floyd Bellin, Jr.
Murray	21	Malcolm McLean, Director	Reuben Boxrud
		Arthur Foster, Secretary-Treasurer	
		Loren Richardson, Director	
Nobles	32	Burton Larson, President	Robert Koehler
		Donald Gingerich, Director	
		Henry J. Peterson, Director	
Pipestone	11	Fred Schuld, Director	Kenneth Rose
Redwood	24	Harold Deal, Director	Ernest Johnson
		Reinhardt Jenniges, Director	
Rock	1	,	Laverne B. Forest
Watonwan	_11	Eldon Torkelson, Director	John Ankeny
Total	169		

The data for 144 farms are shown in the tables on succeeding pages. Twenty-five 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, 1967*

			Average of	7/1/1 forms
Items			Jan. 1	Dec. 31
Trems				
Size of farm (acres)			400	
Size of business (work units) **			449	
			A = 1.03	4 3405
Dairy cows			\$ 1431 888	\$ 1425
Other dairy cattle			13688	872 14215
Beef cattle (incl. feeders)			3867	3525
Hogs Sheep (incl. feeders)			160	168
Poultry (incl. turkeys)			284	220
Productive livestock total			\$20318	\$20425
Horses			11	11
Crop, seed and feed			16478	16288
Autos and trucks (farm share)			1883	1979
Tractors and crop machinery			11684	13077
Livestock equipment			2169	2226
Machinery and equipment total			\$15736	\$17282
Land			66512	66512
Buildings, fences, etc.			17653	18178
Total farm capital managed			\$136708	\$138696
	00 ct		20 Joset 3	omofitable
		profitable		orofitable
Items	29 most p Jan. l	profitable Dec. 31	29 least j Jan. l	profitable Dec. 31
Items				
	Jan. 1		Jan. 1	
Items Size of farm (acres) Size of business (work units)**	Jan. 1 511 571	Dec. 31	Jan. 1 346 334	Dec. 31
Items Size of farm (acres) Size of business (work units)** Dairy cows	Jan. 1 511 571 \$ 1847	Dec. 31	Jan. 1 346 334 \$ 618	Dec. 31
Items Size of farm (acres) Size of business (work units)** Dairy cows Other dairy cattle	Jan. 1 511 571 \$ 1847 962	Dec. 31 \$ 1912 989	Jan. 1 346 334 \$ 618 467	Dec. 31 \$ 584 386
Items Size of farm (acres) Size of business (work units)** Dairy cows Other dairy cattle Beef cattle (incl. feeders)	Jan. 1 511 571 \$ 1847 962 19907	\$ 1912 989 23126	Jan. 1 346 334 \$ 618 467 11375	\$ 584 386 8608
Items Size of farm (acres) Size of business (work units)** Dairy cows Other dairy cattle Beef cattle (incl. feeders) Hogs	Jan. 1 511 571 \$ 1847 962 19907 4371	\$ 1912 989 23126 3491	Jan. 1 346 334 \$ 618 467 11375 2791	\$ 584 386 8608 3025
Items Size of farm (acres) Size of business (work units)** Dairy cows Other dairy cattle Beef cattle (incl. feeders) Hogs Sheep (incl. feeders)	Jan. 1 511 571 \$ 1847 962 19907 4371 25	\$ 1912 989 23126 3491 0	Jan. 1 346 334 \$ 618 467 11375 2791 299	\$ 584 386 8608 3025 369
Items Size of farm (acres) Size of business (work units)** Dairy cows Other dairy cattle Beef cattle (incl. feeders) Hogs Sheep (incl. feeders) Poultry (incl. turkeys)	Jan. 1 511 571 \$ 1847 962 19907 4371 25 118	\$ 1912 989 23126 3491 0	Jan. 1 346 334 \$ 618 467 11375 2791 299 338	\$ 584 386 8608 3025 369 229
Items Size of farm (acres) Size of business (work units)** Dairy cows Other dairy cattle Beef cattle (incl. feeders) Hogs Sheep (incl. feeders) Poultry (incl. turkeys) Productive livestock total	Jan. 1 511 571 \$ 1847 962 19907 4371 25 118 \$27230	\$ 1912 989 23126 3491 0	Jan. 1 346 334 \$ 618 467 11375 2791 299	\$ 584 386 8608 3025 369
Items Size of farm (acres) Size of business (work units)** Dairy cows Other dairy cattle Beef cattle (incl. feeders) Hogs Sheep (incl. feeders) Poultry (incl. turkeys) Productive livestock total Horses	Jan. 1 511 571 \$ 1847 962 19907 4371 25 118 \$27230 3	\$ 1912 989 23126 3491 0 65 \$29583 5	Jan. 1 346 334 \$ 618 467 11375 2791 299 338 \$15888 17	\$ 584 386 8608 3025 369 229 \$13201
Items Size of farm (acres) Size of business (work units)** Dairy cows Other dairy cattle Beef cattle (incl. feeders) Hogs Sheep (incl. feeders) Poultry (incl. turkeys) Productive livestock total Horses Crop, seed and feed	Jan. 1 511 571 \$ 1847 962 19907 4371 25 118 \$27230	\$ 1912 989 23126 3491 0 65 \$29583	Jan. 1 346 334 \$ 618 467 11375 2791 299 338 \$15888	\$ 584 386 8608 3025 369 229 \$13201 17 13638 2122
Items Size of farm (acres) Size of business (work units)** Dairy cows Other dairy cattle Beef cattle (incl. feeders) Hogs Sheep (incl. feeders) Poultry (incl. turkeys) Productive livestock total Horses	Jan. 1 511 571 \$ 1847 962 19907 4371 25 118 \$27230 3 20545	\$ 1912 989 23126 3491 0 65 \$29583 5 22062 2118 15881	Jan. 1 346 334 \$ 618 467 11375 2791 299 338 \$15888 17 15337 1974 10009	\$ 584 386 8608 3025 369 229 \$13201 17 13638 2122 11162
Items Size of farm (acres) Size of business (work units)** Dairy cows Other dairy cattle Beef cattle (incl. feeders) Hogs Sheep (incl. feeders) Poultry (incl. turkeys) Productive livestock total Horses Crop, seed and feed Autos and trucks (farm share) Tractors and crop machinery	Jan. 1 511 571 \$ 1847 962 19907 4371 25 118 \$27230 3 20545 1881 14178 2447	\$ 1912 989 23126 3491 0 65 \$29583 5 22062 2118 15881 2687	Jan. 1 346 334 \$ 618 467 11375 2791 299 338 \$15888 17 15337 1974 10009 1178	\$ 584 386 8608 3025 369 229 \$13201 17 13638 2122 11162 1302
Items Size of farm (acres) Size of business (work units)** Dairy cows Other dairy cattle Beef cattle (incl. feeders) Hogs Sheep (incl. feeders) Poultry (incl. turkeys) Productive livestock total Horses Crop, seed and feed Autos and trucks (farm share)	Jan. 1 511 571 \$ 1847 962 19907 4371 25 118 \$27230 3 20545 1881 14178	\$ 1912 989 23126 3491 0 65 \$29583 5 22062 2118 15881 2687 \$20686	Jan. 1 346 334 \$ 618 467 11375 2791 299 338 \$15888 17 15337 1974 10009 1178 \$13161	\$ 584 386 8608 3025 369 229 \$13201 17 13638 2122 11162 1302 \$14586
Items Size of farm (acres) Size of business (work units)** Dairy cows Other dairy cattle Beef cattle (incl. feeders) Hogs Sheep (incl. feeders) Poultry (incl. turkeys) Productive livestock total Horses Crop, seed and feed Autos and trucks (farm share) Tractors and crop machinery Livestock equipment	Jan. 1 511 571 \$ 1847 962 19907 4371 25 118 \$27230 3 20545 1881 14178 2447 \$18506 93010	\$ 1912 989 23126 3491 0 65 \$29583 5 22062 2118 15881 2687 \$20686 93010	Jan. 1 346 334 \$ 618 467 11375 2791 299 338 \$15888 17 15337 1974 10009 1178 \$13161 57505	\$ 584 386 8608 3025 369 229 \$13201 17 13638 2122 11162 1302 \$14586 57505
Items Size of farm (acres) Size of business (work units)** Dairy cows Other dairy cattle Beef cattle (incl. feeders) Hogs Sheep (incl. feeders) Poultry (incl. turkeys) Productive livestock total Horses Crop, seed and feed Autos and trucks (farm share) Tractors and crop machinery Livestock equipment Machinery and equipment total	Jan. 1 511 571 \$ 1847 962 19907 4371 25 118 \$27230 3 20545 1881 14178 2447 \$18506	\$ 1912 989 23126 3491 0 65 \$29583 5 22062 2118 15881 2687 \$20686	Jan. 1 346 334 \$ 618 467 11375 2791 299 338 \$15888 17 15337 1974 10009 1178 \$13161	\$ 584 386 8608 3025 369 229 \$13201 17 13638 2122 11162 1302 \$14586
Items Size of farm (acres) Size of business (work units)** Dairy cows Other dairy cattle Beef cattle (incl. feeders) Hogs Sheep (incl. feeders) Poultry (incl. turkeys) Productive livestock total Horses Crop, seed and feed Autos and trucks (farm share) Tractors and crop machinery Livestock equipment Machinery and equipment total Land	Jan. 1 511 571 \$ 1847 962 19907 4371 25 118 \$27230 3 20545 1881 14178 2447 \$18506 93010	\$ 1912 989 23126 3491 0 65 \$29583 5 22062 2118 15881 2687 \$20686 93010	Jan. 1 346 334 \$ 618 467 11375 2791 299 338 \$15888 17 15337 1974 10009 1178 \$13161 57505	\$ 584 386 8608 3025 369 229 \$13201 17 13638 2122 11162 1302 \$14586 57505

^{*} 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 15 for an explanation of "work units."

Table 2. Summary of Farm Earnings (Cash Statement), 1967

	Average	29 most	29 least
	of 144	profitable	profitable
Items	farms	farms	farms
FARM RECEIPTS	\$ 774	φ OE3	\$ EEQ
Dairy cattle sold		\$ 953	\$ 558 857
Dairy products sold	3398	5317	857
Beef cattle (incl. feeders) sold	23989	40397	14820 8114
Hogs sold	10724	13627	
Sheep and wool (incl. feeders) sold	158	23	298
Horses sold	266	1226	
Poultry (incl. turkeys) sold	366		114
Eggs sold	863	324	905
Corn sold	6078	6683	8242
Soybeans sold	<i>55</i> 66	8639	4015
Small grain sold	504	491	326 3402
Other crops sold	2026	3122	1403
Machinery and equipment sold	434	555	447
Income from work off the farm	784	837	495
Miscellaneous farm income	844	1424	564 4113 58
Total farm sales	\$56508	\$83618	\$41158
Increase in farm capital	1988	7038	~~
Family living from the farm	289	323	277
Total farm receipts	\$58785	\$90979	\$41435
FARM EXPENSES			1
Dairy cattle bought	\$ 99	\$ 109	\$ 202
Beef cattle bought (incl. feeders)	12940	23649	5987
Hogs bought	801	670	1533
Sheep bought (incl. feeders)	50	1	104
Horses bought	2	2	
Poultry bought (incl. turkeys)	234	256	168
Miscellaneous livestock expense	738	1015	457
Feed bought	7867	11444	5191
Fertilizers bought	3058	3943	2819
Other crop expenses	2720	4058	2435
Custom work hired	1284	1533	1205
Gas, oil, and grease (farm share)	1474	1751	1321
Repair truck and auto (farm share)	443	535	429
Repair and upkeep of farm real estate	420	379	406
Repair & upkeep of tractors & crop machinery	1311	1697	1188
Repair & upkeep of livestock equipment	230	346	201
Wages of hired labor	1399	2174	782
Electricity expense (farm share)	333	363	302
Personal property and real estate taxes	2000	2577	1789
Telephone and general farm expense	581	673	519
Total cash operating expense	\$37984	\$57175	\$27038
Trucks and autos bought (farm share)	549	748	550
Crop and power machinery bought	3628	4487	3313
Livestock equipment bought	480	654	440
New real estate and improvements	1949	2737	1469
Total farm purchases	\$44590	\$65801	\$32810
Decrease in farm capital	-	-	2800
Interest on farm capital @ 5.5 percent	7574	10032	6380
Unpaid family labor	699	1094	400
Board furnished hired labor	69	93	47
Total farm expenses	\$52932	\$77020	\$42437
	5853	13959	-1002
Labor earnings		<u> </u>	

Table 3. Summary of Farm Earnings (Enterprise Statement), 1967*

Items	Average	29 most	29 least
	of 144	profitable	profitable
	farms	farms	farms
RETURNS AND NET INCREASES Dairy cows Other dairy cattle Beef breeding herd Feeder cattle Hogs Sheep - farm flock Sheep - feeders Chickens Turkeys All productive livestock Value of feed fed to livestock Return over feed from livestock Crops, seed and feed Income from labor off the farm Miscellaneous farm income Total returns and net increases	\$3457	\$5417	\$ 884
	828	1243	397
	477	197	667
	11118	19670	5428
	9626	12133	6853
	115	-3	265
	-	-3	-
	730	263	702
	217	987	80
	\$26568	\$39907	\$15276
	18021	25342	12482
	\$ 8547	\$14565	\$ 2794
	18335	26300	14314
	398	385	222
	844	1424	564
	\$28124	\$42674	\$17894
EXPENSES AND NET DECREASES Horses Truck Auto (farm share) Electricity (farm share) Hired power Tractors and crop machinery Livestock equipment Building, fencing and tiling Miscellaneous productive livestock expense Labor Real estate taxes Personal property tax General farm expense and telephone Interest on farm capital @ 5.5 percent Total expenses and net decreases	\$ 3	\$ -	\$ 4
	438	528	395
	703	818	677
	333	363	302
	887	1021	858
	3989	4975	3746
	631	752	483
	1830	2088	1710
	737	1015	458
	2565	3873	1575
	1687	2166	1544
	313	411	245
	581	673	519
	7574	10032	6380
	\$22271	\$28715	\$18896
Labor earnings	\$ <i>5</i> 853	\$13959	\$_1002

^{*} 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 (Operator's Share), 1967

			21 0	wners
Items		-arrets edges commissions guarantees or enter process comments arrange of startes	Jan. l	Dec. 31
			222	
Total acres in farm			300	
Owned			300	
Rented			40005/	47.07.7.00
Total farm capital - operator's			\$990 <i>5</i> 6	\$101183
Stocks and bonds			1251	1642
Life insurance cash value			3535	3838
Notes and accounts receivable			2004	2046
Shares in cooperative organizations			2396	2529
Outside real estate			2657	3390
Cash on hand and in bank			4775	3688
Household furnishings and clothing			4184	4409
Personal share of auto and truck			737	845
Farm dwelling			7251	7166
Total non-farm assets - operator's			\$28790	\$29553
Total assets - operator's			\$127846	\$130736
Mortgages on farm operated			26482	25383
Mortgages on other real estate			786	7/500
Chattel mortgages			13059	16522
Notes payable			4246	3583
Accounts payable			21 <u>1</u> \$44784	241
Total liabilities - operator's				\$45729
Farmer's net worth			\$83062	\$85007
Change in net worth				\$+1945
The state of the s	***************************************	t-owners		enters
Items	Jan. l	Dec. 31	Jan. l	Dec. 31
Total acres in farm	432		408	
Owned	00/			
	226		Minte	
Rented	226 206		408	
Rented Total farm capital - operator's		\$114838	408 \$ 42009	\$ 41884
	206	2516		\$ 41884 560
Total farm capital - operator's	206 \$105068		\$ 42009	
Total farm capital - operator's Stocks and bonds	206 \$105068 2318	2516	\$ 42009 484	560
Total farm capital - operator's Stocks and bonds Life insurance cash value Notes and accounts receivable	206 \$105068 2318 3723	2516 3887	\$ 42009 484 2225	560 2396
Total farm capital - operator's Stocks and bonds Life insurance cash value	206 \$105068 2318 3723 2009	2516 3887 1941	\$ 42009 484 2225 3197	560 2396 3628
Total farm capital - operator's Stocks and bonds Life insurance cash value Notes and accounts receivable Shares in cooperative organizations	206 \$105068 2318 3723 2009 1789	2516 3887 1941 2182	\$ 42009 484 2225 3197 500	560 2396 3628 550
Total farm capital - operator's Stocks and bonds Life insurance cash value Notes and accounts receivable Shares in cooperative organizations Outside real estate Cash on hand and in bank	206 \$105068 2318 3723 2009 1789 1974	2516 3887 1941 2182 4977	\$ 42009 484 2225 3197 500 5312	560 2396 3628 550 5312
Total farm capital - operator's Stocks and bonds Life insurance cash value Notes and accounts receivable Shares in cooperative organizations Outside real estate	206 \$105068 2318 3723 2009 1789 1974 2492	2516 3887 1941 2182 4977 2937	\$ 42009 484 2225 3197 500 5312 2146	560 2396 3628 550 5312 3011
Total farm capital - operator's Stocks and bonds Life insurance cash value Notes and accounts receivable Shares in cooperative organizations Outside real estate Cash on hand and in bank Household furnishings and clothing	206 \$105068 2318 3723 2009 1789 1974 2492 3226	2516 3887 1941 2182 4977 2937 3417	\$ 42009 484 2225 3197 500 5312 2146 2916 582	560 2396 3628 550 5312 3011 3010
Total farm capital - operator's Stocks and bonds Life insurance cash value Notes and accounts receivable Shares in cooperative organizations Outside real estate Cash on hand and in bank Household furnishings and clothing Personal share of auto	206 \$105068 2318 3723 2009 1789 1974 2492 3226 859 8171 \$ 26561	2516 3887 1941 2182 4977 2937 3417 887	\$ 42009 484 2225 3197 500 5312 2146 2916	560 2396 3628 550 5312 3011 3010 876 \$ 19343
Total farm capital - operator's Stocks and bonds Life insurance cash value Notes and accounts receivable Shares in cooperative organizations Outside real estate Cash on hand and in bank Household furnishings and clothing Personal share of auto Farm dwelling Total non-farm assets - operator's	206 \$105068 2318 3723 2009 1789 1974 2492 3226 859 8171	2516 3887 1941 2182 4977 2937 3417 887 8197	\$ 42009 484 2225 3197 500 5312 2146 2916 582	560 2396 3628 550 5312 3011 3010 876
Total farm capital - operator's Stocks and bonds Life insurance cash value Notes and accounts receivable Shares in cooperative organizations Outside real estate Cash on hand and in bank Household furnishings and clothing Personal share of auto Farm dwelling Total non-farm assets - operator's Total assets - operator's	206 \$105068 2318 3723 2009 1789 1974 2492 3226 859 8171 \$ 26561	2516 3887 1941 2182 4977 2937 3417 887 8197 \$ 30941 \$145779 28845	\$ 42009 484 2225 3197 500 5312 2146 2916 582 - \$ 17362	560 2396 3628 550 5312 3011 3010 876 - \$ 19343 \$ 61227
Total farm capital - operator's Stocks and bonds Life insurance cash value Notes and accounts receivable Shares in cooperative organizations Outside real estate Cash on hand and in bank Household furnishings and clothing Personal share of auto Farm dwelling Total non-farm assets - operator's Total assets - operator's Mortgages on farm operated	206 \$105068 2318 3723 2009 1789 1974 2492 3226 859 8171 \$ 26561 \$131629	2516 3887 1941 2182 4977 2937 3417 887 8197 \$ 30941 \$145779	\$ 42009 484 2225 3197 500 5312 2146 2916 582 	560 2396 3628 550 5312 3011 3010 876 - \$ 19343 \$ 61227
Total farm capital - operator's Stocks and bonds Life insurance cash value Notes and accounts receivable Shares in cooperative organizations Outside real estate Cash on hand and in bank Household furnishings and clothing Personal share of auto Farm dwelling Total non-farm assets - operator's Total assets - operator's	206 \$105068 2318 3723 2009 1789 1974 2492 3226 859 8171 \$ 26561 \$131629 23896	2516 3887 1941 2182 4977 2937 3417 887 8197 \$ 30941 \$145779 28845	\$ 42009 484 2225 3197 500 5312 2146 2916 582 - \$ 17362 \$ 59371	560 2396 3628 550 5312 3011 3010 876 - \$ 19343 \$ 61227 - 856 13605
Total farm capital - operator's Stocks and bonds Life insurance cash value Notes and accounts receivable Shares in cooperative organizations Outside real estate Cash on hand and in bank Household furnishings and clothing Personal share of auto Farm dwelling Total non-farm assets - operator's Total assets - operator's Mortgages on farm operated Mortgages on other real estate	206 \$105068 2318 3723 2009 1789 1974 2492 3226 859 8171 \$ 26561 \$131629 23896 65	2516 3887 1941 2182 4977 2937 3417 887 8197 \$ 30941 \$145779 28845 1961	\$ 42009 484 2225 3197 500 5312 2146 2916 582 	560 2396 3628 550 5312 3011 3010 876 - \$ 19343 \$ 61227 - 856 13605 6972
Total farm capital - operator's Stocks and bonds Life insurance cash value Notes and accounts receivable Shares in cooperative organizations Outside real estate Cash on hand and in bank Household furnishings and clothing Personal share of auto Farm dwelling Total non-farm assets - operator's Total assets - operator's Mortgages on farm operated Mortgages on other real estate Chattel mortgages	206 \$105068 2318 3723 2009 1789 1974 2492 3226 859 8171 \$ 26561 \$131629 23896 65 17522	2516 3887 1941 2182 4977 2937 3417 887 8197 \$30941 \$145779 28845 1961 20720	\$ 42009 484 2225 3197 500 5312 2146 2916 582 \$ 17362 \$ 59371 - 875 13343 7299 2559	560 2396 3628 550 5312 3011 3010 876 - \$ 19343 \$ 61227 - 856 13605 6972 2561
Total farm capital - operator's Stocks and bonds Life insurance cash value Notes and accounts receivable Shares in cooperative organizations Outside real estate Cash on hand and in bank Household furnishings and clothing Personal share of auto Farm dwelling Total non-farm assets - operator's Total assets - operator's Mortgages on farm operated Mortgages on other real estate Chattel mortgages Notes payable	206 \$105068 2318 3723 2009 1789 1974 2492 3226 859 8171 \$ 26561 \$131629 23896 65 17522 7284 708 \$ 49475	2516 3887 1941 2182 4977 2937 3417 887 8197 \$ 30941 \$145779 28845 1961 20720 8524 803 \$ 60853	\$ 42009 484 2225 3197 500 5312 2146 2916 582 - \$ 17362 \$ 59371 - 875 13343 7299	560 2396 3628 550 5312 3011 3010 876 - \$ 19343 \$ 61227 - 856 13605 6972
Total farm capital - operator's Stocks and bonds Life insurance cash value Notes and accounts receivable Shares in cooperative organizations Outside real estate Cash on hand and in bank Household furnishings and clothing Personal share of auto Farm dwelling Total non-farm assets - operator's Total assets - operator's Mortgages on farm operated Mortgages on other real estate Chattel mortgages Notes payable Accounts payable	206 \$105068 2318 3723 2009 1789 1974 2492 3226 859 8171 \$ 26561 \$131629 23896 65 17522 7284 708	2516 3887 1941 2182 4977 2937 3417 887 8197 \$ 30941 \$145779 28845 1961 20720 8524 803	\$ 42009 484 2225 3197 500 5312 2146 2916 582 \$ 17362 \$ 59371 - 875 13343 7299 2559	560 2396 3628 550 5312 3011 3010 876 - \$ 19343 \$ 61227 856 13605 6972 2561 \$ 23994 \$ 37233
Total farm capital - operator's Stocks and bonds Life insurance cash value Notes and accounts receivable Shares in cooperative organizations Outside real estate Cash on hand and in bank Household furnishings and clothing Personal share of auto Farm dwelling Total non-farm assets - operator's Total assets - operator's Mortgages on farm operated Mortgages on other real estate Chattel mortgages Notes payable Accounts payable Total liabilities - operator's	206 \$105068 2318 3723 2009 1789 1974 2492 3226 859 8171 \$ 26561 \$131629 23896 65 17522 7284 708 \$ 49475	2516 3887 1941 2182 4977 2937 3417 887 8197 \$ 30941 \$145779 28845 1961 20720 8524 803 \$ 60853	\$ 42009 484 2225 3197 500 5312 2146 2916 582 - \$ 17362 \$ 59371 - 875 13343 7299 2559 \$ 24076	560 2396 3628 550 5312 3011 3010 876 \$ 19343 \$ 61227 856 13605 6972 2561 \$ 23994

Table 5. Summary of Farm Earnings by Tenure (Operator's Share), 1967

	38	73 Part-	25
Ttems	Owners	owners	Renters
FARM RECEIPTS		1 0	
Dairy cattle sold	\$ 572	\$ 819	\$ 922
Dairy products sold	2815	3451	4089
Beef cattle sold (incl. feeders)	20029	24881	13826
Hogs sold	9192	10907	8078
Sheep and wool sold (incl. feeders)	207	79	246
Horses sold			-
Poultry sold (incl. turkeys)	1255	49	51
Eggs sold	1398	822	396
Corn sold	4376	5093	2550
Soybeans sold	4135	5272	3035
Small grain sold	481	396	305
Other crops sold	1694	1979	1359
Machinery and equipment sold	444	455	334
Income from work off the farm	694	830	502
Miscellaneous	831 ************************************	953	410 626702
(1) Total farm sales	\$48123	\$55986	\$36103
(2) Increase in farm capital	4466	10584	.2076
(3) Family living from the farm	246	304 \$66874	299 \$38478
(4) Total farm receipts (1)+(2)+(3)	\$52835	\$00074	\$30470
FARM EXPENSES	ት ፫	д тол	\$ 179
Dairy cattle bought	\$ 5	\$ 120	φ 179 7380
Beef cattle bought (incl. feeders)	10335	13778	97.2
Hogs bought	435	979	100
Sheep bought (incl. feeders)	19	32 3	1.00
Horses bought	307	230	68
Poultry bought (incl. turkeys)	391 645	718	693
Miscellaneous livestock expense	8098	7768	5264
Feed bought	2383	3104	1660
Fertilizers bought	2039	2865	1921
Other crop expenses	1252	1318	970
Custom work hired	1308	1512	1318
Gas, oil and grease bought (farm share)	1432	1870	1487
Repair and upkeep of power and crop machinery	446	448	165
Repair and upkeep of real estate	154	250	160
Repair and upkeep of livestock equipment	1234	1435	1144
Wages of hired labor	326	330	262
Electricity expense (farm share)	1681	1293	238
Real estate and personal property taxes	1001	1275	1662
Cash rent	589	617	395
General farm expense	2748	2634	1270
Interest paid	\$35521	\$42579	\$27308
Total cash operating expense	455	519	625
Trucks and autos bought (farm share)	2370	4131	3281
Tractors and crop machinery bought	295	636	354
Livestock equipment bought Farm purchase and real estate improvements	6511	9561	96
(5) Total farm purchases	\$45152	\$57426	\$31664
(6) Decrease in farm capital	Ψ· <i>J</i> = <i>J</i> =	-	
(7) Interest on operator's farm capital	3039	3156	1108
(8) Unpaid family labor	198	305	237
(9) Board furnished hired labor	51	54	92
(10) Total farm expense (5)+(6)+(7)+(8)+(9)	\$48440	\$60941	\$33101
(11) Labor earnings (4)-(10)	\$ 4395	\$ 5933	\$ 5377
(12) Ret. to capital & family labor (7)+(8)+(11)	\$ 7632	\$ 9394	\$ 6722
(Tr) Trans on oabtout a turnth tunor (1), (0), (TT)	T 1-2~	1 / / /	***************************************

Table 6. Household and Personal Expenses for Those Farms Which Kept Complete Accounts of These Expenses, 1967

Items	Average of 76 farms	15 high in return to cap. and fam. labor	15 low in return to cap. and fam. labor
Number of persons - family	4.8	5.6	4.0
Number of adult equivalents - family - other*	4.0 .1	4.8	3.2 .1
EXPENSES			
Food and meals bought Operating and supplies Furnishings and equipment Clothing and clothing materials Personal care and spending Education Recreation Gifts and special events Medical and hospital insurance Church and welfare Personal share of auto expense Upkeep on dwelling Pers. share of tel. & elec. expense	\$1291 435 464 550 174 209 211 174 565 388 290 53 139	\$1308 492 443 598 138 290 192 175 700 501 314 46 155	\$1162 419 385 498 127 198 148 164 619 392 256 62 138
Total cash living expense Personal share of new autos New dwelling Taxes Life insurance Other savings and investments	\$4943 241 286 875 729 405	\$5352 365 631 1493 869 1053	\$4568 131 92 519 515 21
Total household & pers. cash exp.	\$7479	\$9763	\$5846
Family living from the farm	318	358	319
Total cash expense & perquisites	\$7797	\$10121	\$6165
RECEIPTS			
Return to capital and family labor Income from outside investments Other personal income	\$8445 291 1176	\$17135 743 918	\$1432 415 1380

^{*} Hired help or others boarded.

Table 7. Family Living from the Farm, 1967

Items	Average of 144 farms	Average of 144 farms
Number of adult equivalents - family other*	4.0 .l	
Whole milk Cream Cattle Hogs Sheep Poultry Eggs	434 qts. 3 pts. 847 lbs. 254 lbs. 3 lbs. 50 lbs. 34 doz.	\$ 33 1 192 46 - 9 8 \$289

^{*} 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. 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 2 3 4 5 6 or 7	22 27 33 26 23 13		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	\$2118 3913 5743 6705 9077 9073

The array in Table 8 indicates that it will be worthwhile 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, 1967

Measures used in chart on page 11	Average of 144 farms	29 most profit- able farms	29 least profit- able farms
Labor earnings	\$5853	\$13959	\$_1002
Crop yields*	100	108	97
Percent tillable land in high return crops**	70.0	69.0	72.6
Return for \$100 feed to productive livestock***	100	111	91
Productive livestock units per 100 acres****	35.6	40.8	27.3
Size of business - work units	449	571	334
Work units per worker	281	301	239
Pow., mach., equip., & bldg. expense per work unit	\$21.32	\$19.15	\$26.40
Items related to some of the above measures:			
Index of return for \$100 feed from: Dairy cattle (see pages 16 and 17) Beef cattle - breeding herd (see page 19) Beef cattle - feeders (see page 20)	100 100 100	118 123 106	73 95 92
Hogs (see page 18) Sheep - farm flock (see page 21)	100 100	107	94 104
Turkeys Chickens	100 100	- 94	- 85
Number of animal units	128.4	183.1	87.4
Work units on crops Work units on productive livestock Other work units	183 214 52	231 284 56	162 139 33
Number of family workers Number of hired workers Total number of workers	1.2 .4 1.6	1.3 <u>.6</u> 1.9	1.2 .2 1.4
Power and crop machinery expense per work unit Livestock equipment expense per work unit Building and fencing expense per work unit	\$15.48 1.37 4.47	\$14.00 1.29 3.86	\$19.25 1.63 5. 5 2

^{*} 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.

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

		Anna aparatoga mai suoce as atta sensitivo ambanto com a		· · · · · · · · · · · · · · · · · · ·			
Labor		High	Retur from p			Work units	Pow., mach. eq.& bldg.
earn-	Crop	return				per	eq. & brug.
ings	yields	crops	livest			worke	
	E						
4							
\$15500	140	94.0	140	68.0	850	480	10.00
						=	=
14300	135	91.0	135	64.0	800	455	11.50
							巨
13100	130	88.0	130	60.0	750	430	13.00
			F				
11900	125	85.0	125	56.0	700	405	14.50
10700	120	82.0	120	52.0	650	380	16.00
9500	115	79.0	115	48.0	600	355	17.50
8300	110	76.0	110	44.0	550	330	19.00
0,000	110	70.0	110	74.0			
	30°E						20 50
7100	105	73.0	105	40.0	500	305	20.50
							aa aa 🗀 📗
5900	100	70.0	100	36.0	450	280	22,00
4700	95	67.0	95	32.0	400	255	23.50
-							
3500	90	64.0	90 =	28.0	350	230 =	25.00
-							
2300	85	61.0	85	24.0	300 🗀	205	26.50
1100	80	58.0	80	20.0	250	180	28,00
				E			
300	₅ ,F	,, F		7.0		3.00	29.50
-100	75	55.0	75	16.0	200	155	29.50
-1300	70	52.0	70	12.0	150	130	31.00
-2500	65	49.0	65	8.0	100 -	105	32.50
FI							
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Table 10. Distribution of Acres in Farm, 1967

Items	Crop ratings*	Number growing this crop	Average of 144 farms	Ave per farm raising each crop
Canning peas Wheat Oats for silage Oats for grain Flax Other small grain Total small grain and peas	B C C D C	3 5 18 96 7 3 106	.6 .4 1.9 18.0 2.2 1.1 24.2	26.0 12.0 15.0 27.0 46.1 56.7 33.0
Corn grain Soybeans for grain Sweet corn Corn silage Other cultivated crops Total cultivated crops	A B B D	144 129 6 88 - 144	165.1 83.4 1.3 17.8 - 267.6	165.1 93.2 30.7 29.0 - 267.6
Alfalfa hay Other legume hay Other tame hay Annual hay Total tillable land in hay	B C D	129 2 2 6 129	26.0 .3 .4 .7 27.4	29.1 18.5 26.5 16.3 30.5
Alfalfa pasture Other tillable pasture Total tillable land in pasture	B D	35 21 50	2.9 1.1 4.0	11.8 7.6 11.4
Feed grain program (diverted acres) Tillable land not cropped Total tillable land	В	92 11 144	25.1 1.6 349.9	39.3 21.3 349.9
Wild hay Non-tillable pasture Timber not pastured Roads and waste Farmstead Total acres in farm		38 71 11	2.2 19.4 .6 16.8 10.6 399.5	
Percent land tillable Percent tillable land in high return	crops		88.0 70.0	

 $[\]star$ 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, 1967

Items	Average of farms growing each crop
Canning peas, dollars Wheat, bu. Oats for silage, tons	\$56.89 42.9 5.7
Oats for grain, bu. Flax, bu. Corn grain, bu.	61.3 19.3 81.2
Soybeans, bu. Sweet corn, tons Corn silage, tons	23.7 5.1 12.3
Alfalfa hay, tons Other legume hay, tons Annual hay, tons	3.0 2.1 2.7
Feed grain program, dollars Wild hay, tons	\$55.55 1.4

Table 12. Average Price of Feeds, 1967

Items	Value	Items	Value
Ear corn, per bu. Oats, per bu. Barley, per bu. Wheat, per bu. Soybean meal, per cwt.	\$1.12 .64 1.04 1.62 5.00	Alfalfa hay, per ton Timothy hay, per ton Wild hay, per ton Corn silage, per ton Pasture, per mo. per cow	\$20.00 11.60 10.00 7.25 4.00

Table 13. Return Above Listed Costs per Acre of Crops

Items	Corn grain	Corn silage	Soy - beans
Number of farms reporting	59	24	51
Yield per acre Price per unit	81.2 bu. \$1.00	11.8 tons \$7.50	23.7 bu. \$2.50
Total return	\$81.17	\$88.72	\$59.41
Fertilizer Seeds, herbicides, etc. Total listed costs	14.36 9.66 \$24.02	12.34 8.60 \$20.94	1.07 6.45 \$ 7.52
Return above listed costs	\$57.15	\$67.78	\$51.89
Items	Alfalfa hay	Oats	
Number of farms reporting	46	35	
Yield per acre Price per unit	3.0 tons \$21.00	59.2 bu. \$.63	
Total return	\$60.87	\$37.28	
Fertilizer Seeds, herbicides, etc. Total listed costs	\$ 4.71 4.87 \$ 9.58	\$ 1.62 3.45 \$ 5.07	
Return above listed costs	\$51.29	\$32.21	

EXPLANATION OF "WORK UNITS" AND "ANIMAL 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 14.

Table 14. Number of Work Units for Each Class of Livestock and Each Acre of Crop

philipper (page readers single histories are also are a series of the page of the districtive angularisation (A + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 +	Number of	3.000	Number of
Item	work units	Item	work units
Dairy cows	7.0 per cow	Small grain	.3 per acre
Other dairy cattle	1.5 per head	Sugar beets	1.5 per acre
Beef breeding herd	- 1	Sweet corn	.7 per acre
Feeder cattle	.12 per 100 lbs.	Corn husked	.6 per acre
Sheep - farm flock	.6 per ewe	Corn silage	1.0 per acre
Sheep - feeder	.3 per 100 lbs.	Corn fodder	1.0 per acre
Hogs	.12 per 100 lbs.	Alfalfa hay	.6 per acre
Turkeys	.l per 100 lbs.	Soybean hay	.6 per acre
Hens	10.0 per 100 hens	Other hay crops	.4 per acre
Canning peas	.5 per acre	Labor off the farm	1.0 per \$15
Soybeans for grain	.5 per acre		

An animal unit represents one dairy cow or bull, two other dairy cattle, 1 1/4 beef cows or bulls, 1 feeder steer or heifer, 3 1/3 other beef cattle, 7 sheep, 14 lambs, 2 1/2 hogs, 5 pigs, 50 hens, or 1100 pounds of turkeys produced.

Table 15. Factors of Costs and Returns from Dairy Cows, 1967

Items	Average of 30 farms	15 farms highest in butterfat per cow	15 farms lowest in butterfat per cow
Pounds of milk per cow	11116	12201	10032
Percent of butterfat in milk	3.6	3.6	3.6
Pounds of butterfat per cow	397	433	361
Price received per pound of butterfat sold	\$1.21	\$1.24	\$1.18
Price received per cwt. of milk sold	4.34	4.42	4.27
Value of produce per cow: Dairy product sales Dairy produce used in home Milk fed to livestock Net increase in value of cows TOTAL VALUE PRODUCED	\$470.66	\$528.23	\$413.11
	5.97	4.03	7.90
	4.12	4.79	3.44
	38	20	57
	\$480.37	\$536.85	\$423.88
Feed cost per cow: Concentrates Roughages Pasture TOTAL FEED COST	\$128.97	\$129.99	\$127.95
	99.56	104.77	94.35
	6.31	<u>6.67</u>	5.94
	\$234.84	\$241.43	\$228.24
RETURNS ABOVE FEED COST PER COW	\$245.53	\$295.42	\$195.64
RETURNS FOR \$100 OF FEED	\$212	\$231	\$193
Feeds per cow, lbs.: Corn Small grain Commercial feeds	4051	4267	3835
	449	389	509
	676	556	795
Total concentrates	5176	5212	5139
Total hay	5983	6642	5323
Silage	11332	11076	11587
Feed cost per pound of butterfat Feed cost per cwt. of milk produced	\$.59	\$.56	\$.63
	2.11	1.98	2.28
Number of cows*	32.3	36.5	28.1

^{*} All dairy cows which have at some time in the past freshened are included in the dairy herd and affect the average number of cows used in computing this table. There is some variation in the number of months of dry period per cow; however, this variation is small for the majority of farms.

Table 16. Feed Costs and Returns from Other Dairy Cattle, 1967

Items	Average of 30 farms	15 farms highest in butterfat per cow	15 farms lowest in butterfat per cow
NET INCREASE IN VALUE OF OTHER DAIRY CATTLE	\$99.99	\$110.65	\$89.32
TOTAL FEED COST PER HEAD	\$58.94	\$65.04	\$52.83
RETURNS ABOVE FEED COST PER HEAD	\$41.05	\$45.61	36.49
RETURNS FOR \$100 OF FEED	\$170	\$170	\$170
Feed per head, lbs.: Concentrates Hay Silage Whole milk	912 1886 3362 90	882 2184 4000 118	941 1588 2725 62
Number of head of other dairy	39.8	46.4	33.3

Table 17. Feed Costs and Returns from All Dairy Cattle, 1967

Items	Average of 30 farms	15 farms highest in butterfat per cow	15 farms lowest in butterfat per cow
Value of produce per cow: Dairy products Net increase in value of dairy cattle TOTAL VALUE PRODUCED	\$476.63 128.27 \$604.90	\$532.25 146.22 \$678.47	\$421.01 110.33 \$531.34
TOTAL FEED COST PER COW	\$308.74	\$324.53	\$292.95
RETURNS ABOVE FEED COST PER COW	\$296.16	\$353.94	\$238.39
RETURNS PER \$100 OF FEED	\$203	\$216	\$191
Feed per cow, lbs.: Concentrates Hay Silage Miscellaneous expenses per cow	6352 8512 15958 \$28.71	6376 9622 16841 \$30.27	6327 7401 15075 \$26.19

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Table 18. Feed Costs and Returns from Hogs, 1967

		92 f s	arms with bree		
Items	Average of 106 farms	Average of 92 farms	18 farms highest in returns above feed	18 farms lowest in returns above feed	14 farms with purchased feeder pigs
Pounds of hogs produced	73324	75888	65171	53186	56477
NET INCREASE IN VALUE PER CWT. PRODUCED	\$17.90	\$18.40	\$21.04	\$16.47	\$14.61
FEED COST PER CWT. PRODUCED	12.49	12.29	11.06	14.46	13.76
RETURN ABOVE FEED COST PER CWT. PRODUCED	\$ 5.41	\$ 6.11	\$ 9.98	\$ 2.01	\$.85
RETURNS FOR \$100 OF FEED	\$149	\$154	\$194	\$115	\$117
Price received per cwt. sold	\$19 . 27	\$19.04	\$20.04	\$18.26	\$19.07
Weight per hog sold	239	241	23 2	24 2	225
Miscellaneous costs per cwt. produced	\$.57	\$.59	\$.76	\$.37	\$.30
Feed per cwt. hogs produced, lbs.: Corn Small grain Commercial feeds Total concentrates	306	298	288	378	357
	31	34	28	49	15
	104	103	<u>69</u>	<u>112</u>	109
	441	435	385	539	481
Total number of litters raised	37	42	39	29	0
Number of pigs born per litter	9•0	9.0	9•3	9.1	-
Number of pigs weaned per litter	7•5	7.5	7•8	7.5	-
Number of feeder pigs bought Total weight of feeders purchased Price paid per feeder pig	48	6	7		323
	2094	237	259	-	14416
	\$15•97	\$14.93	\$15.66	-	\$16.74

Table 19. Feed Costs and Returns from Beef Breeding Herd, 1967

Items	Average of 17 farms
TOTAL VALUE PRODUCED PER COW	\$109.97
Feed cost per cow: Concentrates Roughages Pasture TOTAL FEED COST	\$ 9.48 39.28 27.93 \$76.69
RETURNS ABOVE FEED COST PER COW	\$33.28
RETURNS FOR \$100 OF FEED	\$154
Miscellaneous costs per cow	\$6.46
Feed per cow, lbs.: Concentrates Hay Silage	334 2244 5024
Pounds of beef produced	15827
Number of cows Number of other beef cattle	38.9 26.1

Table 20. Feed Costs and Returns from Feeder Cattle, 1967

	Average
	of 96
Items	farms
Pounds of beef produced	70757
NET INCREASE IN VALUE OF FEEDERS	\$23.49
Feed cost per cwt. of beef produced: Concentrates Roughages Pasture TOTAL FEED COSTS	\$13.75 4.62 .25 \$18.62
RETURNS ABOVE FEED COST PER CWT. BEEF PRODUCED	\$ 4.87
RETURNS FOR \$100 OF FEED	\$134
Miscellaneous costs per cwt. of beef produced	\$.50
Feeds per cwt. beef produced, lbs.: Corn Small grain Commercial feeds	557 7 42
Total concentrates Total hay Silage	606 253 595
Price paid per cwt. for beef bought Price received for feeder cattle sold	\$26.46 24 . 67
Number of animal units	108.6

Table 21. Feed Costs and Returns from a Farm Flock of Sheep, 1967

Items	Average of 15 farms
Value of produce per ewe: Wool Net increase in value of sheep TOTAL VALUE PRODUCED	\$ 5.20 17.58 \$22.78
Feed cost per ewe: Concentrates Roughages Pasture TOTAL FEED COSTS	\$ 5.77 7.35 3.17 \$16.29
RETURNS ABOVE FEED COST PER EWE	\$ 6.49
RETURNS FOR \$100 OF FEED	\$ 151
Miscellaneous expenses per ewe	\$.82
Feeds per ewe, lbs.: Concentrates Hay Silage	202 673 172
Price per cwt. of lambs sold	\$22.53
Price per pound of wool sold Pounds of wool per sheep sheared	\$.44 9.5
Percent lamb crop* Percent death loss*	103 5.9
Pounds of sheep produced	4658
Number of head of ewes	46

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

Table 22. Feed Costs and Returns from Chickens, 1967*

Items	Average of 24 farms
Value of produce per hen: Eggs sold and used in home Net increase in value of chickens TOTAL VALUE PRODUCED	\$4.04 71 \$3.33
TOTAL FEED COST PER HEN	\$3.38
RETURNS ABOVE FEED COST PER HEN	\$05
RETURNS FOR \$100 OF FEED	\$103
Miscellaneous expenses per hen	\$.11
Feed per hen, lbs.: Grain Commercial feed Total concentrates	67 <u>36</u> 103
Price received per dozen eggs sold Eggs laid per hen Feed costs per dozen eggs produced	\$.22 217 \$.19
Average number of hens on farm during the year Percent death loss of hens	1156 6.7
Number of chicks bought Number of hens bought	925 404

Table 23. Summary by Years

	Average	Average	Average	Average	Average	70/5	7000	30/2
Items	1940-44	1945-49	1950-54	<u> 1955–59</u>	1960-64	1965	1966	1967
Number of farms	165	140	138	135	135	156	153	
Total farm capital managed	\$36133	\$40590	\$57692	\$75246	\$99907	\$118992	\$122684	\$137702
Monthly charge for:		0		1	m 1. m	7.60	7.60	7/0
Unpaid family labor*	63	118	130	134	147	160	160	160
Second operator	63	118	130	134	167	275	300	300
Board for hired labor	23	33	36	38	40	45	45	45
FARM EXPENSES								
Dairy cattle bought	\$ 120	\$ 175	\$ 215	\$ 151	\$ 146	\$ 145	\$ 135	\$ 99
Beef cattle bought	1405	2027	4097	7619	i1153	10975	12295	12940
Hogs bought	275	447	448	473	723	738	827	801
Sheep bought (incl. feeders)	596	36 5	599	517	69	27	16	50
Poultry bought (incl. turkeys)	140	165	190	225	244	238	186	234
Horses bought	39	ıí	[^] 6	5	3	. 6	2	2
Miscellaneous livestock expense	140	248	378	525	592	644	660	738
Fertilizer				906	1223	1945	2311	3058
Miscellaneous crop expenses	402*	* 869 * :	* 1234*	* 908	1184	1782	1988	2720
Feed bought	2041	319ĺ	4323	5503	7225	8191	9588	7867
Custom work hired	193	356	438	694	874	1041	1050	1284
Power and crop machinery (new)	655	1669	1864	1891	2057	3881	4151	4177
Power and crop machinery (upkeep)	675	1365	1735	2200	2718	3164	3279	3561
Livestock equipment (new)	112	99	164	327	415	505	565	480
Livestock equipment (upkeep)	55	ıíí	135	194	207	235	252	230
Buildings and fencing (new)	341	676	881	832	1018	1172	1353	1949
Buildings and fencing (upkeep)	149	319	312	320	338	377	425	420
Hired labor	593	794	883	993	1092	1175	1223	1399
Taxes	330	403	622	910	1449	1843	1841	2000
General farm expense	98	174	260	364	430	517	518	581
Total farm purchases	\$ 8359	\$13464	\$18784	\$25557	\$33160	\$38601	\$42665	\$44590
Decrease in farm capital	¥ -227	-	_	T-222			****	
Interest on farm capital	1806	2030	2885	3762	4991	5950	6134	7574
Unpaid family labor	310	377	358	379	500	702	657	699
Board furnished hired labor	142	107	91	92	82	89	72	69
Total farm expense	\$10617	\$15978	\$22118	\$29790	\$38733	\$45342	\$49528	\$52932

^{*} These adjustments should be considered in comparing 1967 results with previous years.
** Includes fertilizer.

Table 23. Summary by Years (continued)

and the second s	Average	Average	Average	Average	Average	m		(
Items	1940-44	1945-49	1950-54	1955-59	1960-64	1965	1966_	1967
FARM RECEIPTS								
Dairy cattle	\$ 383	\$ 573	\$ 695	\$ 585	\$ 563	\$ 626	\$ 628	\$ 774
Dairy products	783	988	1085	1450	1888	2199	2633	3398
Beef cattle	3140	4246	7918	13025	20180	21094	21099	23989
Hogs	3622	6 7 75	7455	7158	8431	11321	13877	10724
Sheep and wool	928	651	978	981	263	174	137	158
Poultry (incl. turkeys)	563	525	526	<i>5</i> 30	505	440	432	366
Eggs	597	1035	965	1013	1074	863	1103	863
Horses	44	23	8	5	4	1	1	_
Corn	584	1138	1855	3149	3401	3961	4707	6078
Soybeans	-	-		4990	·	om-	4567	5566
Small grain	1031	2055	1236	807	882	598	594	504
Other crops*	400	879	1023	1759	3855	6452	2482	2026
Machinery and equipment sold	196	364	367	266	373	457	267	434
Agricultural adjustment payment	370	65	64	44	43	33	eso A A in	em
Income from work off the farm	174	313	349	398	396	593	665	784
Miscellaneous farm income	224	78	137	306	386	503	678	844
Total farm sales	\$13039	\$19708	\$24661	\$31476	\$42244	\$49315	\$53870	\$56508
Increase in farm capital	1098	2395	1845	1157	1205	6359	7896	1988
Family living from the farm	553	666	<u>553</u>	278	288	274	279	289
Total farm receipts	\$14690	\$22769	\$27059	\$32911	\$43737	\$55948	\$62045	\$58785
Total farm expenses	10617	15978	22118	29790	<u>38733</u>	45342	49528	52932
Labor earnings	\$ 4073	\$ 6791	\$ 4941	\$ 3121	\$ 5004	\$10606	\$12517	\$ 5853
MEASURES OF FARM ORGANIZATION AND MANA	AGEMENT							
Percent high return crops**	41.2	56.4	59.7	63.4	68.1	65.4	67.5	70.0
Livestock units per 100 acres***	23.6	20.3	30.3	39.4	43.0	37.4	38.7	35.6
Work units***	588	501	470	469	533	556	576	449
Work units per worker****	273	285	283	279	318	321	360	281
Expenses per work unit ****	\$3.02	\$6.23	\$9.49	\$12.81	\$13.42	\$14.95	\$15.74	\$21.32
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^{*} Includes soybeans 1940-1965.

^{**} 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 and 1967.

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Table 24. Summary of Miscellaneous Items by Years

Items	Average 1940-44		Average 1950-54	Average 1955-59		1965	1966	1967
RETURN ABOVE FEED COST PER								
Dairy cow	\$61.87	\$114.96	\$111.51	\$125.34	\$140.97	\$141.25	\$197.29	\$245.53
Animal unit in beef herd	21.90	46.46	42.51	30.08	30.77	10.75	52.76	*
100 lbs. feeder cattle produced	3.11	8.87	5.26	5.88	1.94	7.12	.68	4.87
Ewe	, -			***	6.80	11.06	12.20	6.49
100 lbs. hogs produced	4.05	6.29	6.23	4.52	4.28	11.22	8.03	5.41
Hen	1.72	2.15	1.09	1.05	.91	.28	1.32	05
FEED COST PER								
Dairy cow	67.74	121.21	142.90	147.40	181.72	213.32	222.41	234.84
Animal unit in beef herd	38.90	68.30	97.48	83.69	72.97	72.46	69.60	*
100 lbs. feeder cattle produced	14.56	21.66	22.68	17.70	18.32	21.12	22.09	18.62
Ewe	******		***		13.42	15.10	17.01	16.29
100 lbs. hogs produced	7.36	12.70	12.95	10.48	10.65	12.22	12.75	12.49
Hen	2.28	4.28	4.66	3.89	3.45	3.48	4.01	3.38
MISCELLANEOUS LIVESTOCK INFORMATION								
Number of dairy cows	8.1	5.3	4.7	5.2	5.7	6.1	6.2	6.7
Head in beef breeding herd	10.5	9.4	11.1	10.6	4.9	4.3	6.2	7.7
Pounds feeder cattle produced	9336	6676	12137	27685	41929	43527	46887	47171
Litters of pigs	18.5	19.5	21.7	24.6	28,0	27.8	29.1	27.2
Pounds of hogs produced	30411	34292	37265	44369	52828	52981	57697	52975
Number of hens	197	202	187	204	219	193	179	196
Pounds of butterfat per dairy cow	246	257	282	311	349	365	372	397
Pigs weaned per litter	6.1	6.3	6.7	7.2	7.0	7.2	7.4	7.5
Percent lamb crop	105	109	107	111	103	101	119	103
Eggs per hen	134	171	180	200	208	205	224	217

^{*} Information not available.

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

Items	Average 1940-44	A verage 1945 - 49	Average 1950-54	Average 1955 - 59	Average 1960-64	1965	1966	1967
PRICE RECEIVED PER Pound of butterfat in milk 100 pounds fat cattle Pound of wool Dozen of eggs 100 pounds of hogs sold	\$.64	\$.98	\$.94	\$.91	\$.94	\$.98	\$ 1.14	\$ 1.21
	11.73	21.71	26.61	22.51	22.86	23.72	24.39	24.67
	.38	.41	.60	.51	.58	.53	.66	.44
	.26	.37	.35	.29	.27	.25	.31	.22
	10.86	19.54	19.43	15.96	15.45	20.34	23.07	19.27
PRICE OF FEED Corn, bu. Oats, bu. Barley, bu. Alfalfa hay, ton	.70	1.24	1.31	1.11	.99	1.13	1.19	1.12
	.46	.74	.74	•59	.61	.63	.66	.64
	.58	1.31	1.15	•92	.91	.98	1.02	1.04
	10.00	18.60	18.30	18.20	19.40	23.00	21.00	20.00
Timothy hay, ton Corn silage, ton Soybean meal, cwt.	6.24 3.20 2.51	10.86 6.07 4.15	10.60 6.00 4.50	10.58 6.08	11.22 6.60 4.36	13.00 7.75 4.60	12.20 7.30 5.25	11.60 7.25 5.00
ACRES PER FARM Small grains Cultivated crops Tillable land in hay Tillable land in pasture Tillable land not cropped Total tillable land Non-tillable land Total acres per farm	89.9	73.9	70.5	48.8	39.5	26.3	27.4	24.2
	89.5	100.3	107.0	153.7	187.0	228.9	233.8	267.6
	27.4	19.1	28.1	34.9	31.0	29.1	27.4	27.4
	24.5	15.2	14.8	13.2	6.8	6.1	4.5	4.0
	5.1	2.4	1.4	2.2	25.9*	46.4*	35.0*	26.7*
	236.4	210.9	221.8	252.8	290.2	336.8	328.1	349.9
	45.6	43.1	43.4	40.5	44.6	48.2	44.0	49.6
	282.0	254.0	265.2	293.3	334.8	385.0	372.1	399.5
YIELDS PER ACRE Flax, bu. Oats, bu. Corn grain, bu. Corn silage, tons Soybeans, bu. Alfalfa hay, tons	10.5 40.4 49.7 8.9 17.8 2.2	13.7 46.3 47.8 8.4 14.4	11.5 41.4 53.7 9.2 19.8 2.5	13.0 51.7 57.1 9.7 22.5 2.5	13.6 54.8 71.3 11.8 25.5 3.0	18.2 61.2 62.7 10.7 20.2 2.8	10.9 58.9 84.0 13.2 26.9	19.3 61.3 81.2 12.3 23.7 3.0

^{*} Including feed grain program.