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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 R70-2

Department of Agricultural Economics Institute of Agriculture St. Paul, Minnesota 55101 May 1970

1969 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 the supervision of this project is handled by Duane Wilson. Erlin Weness is the field agent for this project.

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

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 1969.

Country	No. of records	Association Officers	County Agricultural Extension Agent
County	records	ASSOCIACION OTTICEIS	Extension Agent
Cottonwood	1,7	John Regier, Vice-President William Janzen, Director	Paul Sandager
Faribault	17	Roger Holland, Director Wayne Weber, Director	Gene Williams
Jackson	17	Curtis Pietz, President Vernon Voss, Director	Ray Palmby
Martin	7	Willard Peters, Director	Floyd Bellin, Jr.
Murray	21	Malcolm McLean, Director Loren Richardson, Director	Reuben Boxrud
Nobles	29	Burton Larson, Director Milton Fellows, Secretary-Treasurer Donald Gingerich, Director	Robert Koehler
.		Henry J. Peterson, Director	Z 11: Dana
Pipestone	12	Fred Schuld, Director	Kenneth Rose
Redwood	23	Harold Deal, Director Francis Boerboom, Director	Ernest Johnson
Watonwan	10	Owen Francis, Director	John Ankeny
Total	153		

The data for 137 farms are shown in the tables on succeeding pages. Sixteen 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 was, nevertheless, wide variation 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, 1969*

			Average of	
Item			Jan. l	Dec. 31
Size of farm (acres)			432	
Size of business (work units)**			456	
Dairy cows			\$ 1758	\$ 1829
Other dairy cattle			989	1048
Beef cattle (incl. feeders)			14392	18876
Hogs			4178	5812
Sheep (incl. feeders)			169	129
Poultry (incl. turkeys)			<u> 167</u>	242
Productive livestock total			\$21653	\$27936
Horses			6	7
Crop, seed and feed			18504	19980
Autos and trucks (farm share)			2080	2362
Tractors and crop machinery			14675	16064
Livestock equipment			2132	<u>2521</u>
Machinery and equipment total			\$18887	\$20947
Land			76342	76342
Buildings, fences, etc.			19802	20095
Total farm capital managed			\$155194	\$165307
	27 most	profitable	27 least	orofitable
Item	Jan. l	Dec. 31	Jan. l	Dec. 31
Size of farm (acres)	617		360	
Size of farm (acres) Size of business (work units)**	617 650		360 362	· .
Size of business (work units)**	650	4.140 ¢	362	¢ 0013
Size of business (work units)** Dairy cows	650 \$ 1473	\$ 1426	362 \$ 2224	\$ 2211
Size of business (work units)** Dairy cows Other dairy cattle	650 \$ 1473 812	894	362 \$ 2224 910	947
Size of business (work units)** Dairy cows Other dairy cattle Beef cattle (incl. feeders)	650 \$ 1473 812 31235	894 39351	362 \$ 2224 910 10373	947 13501
Size of business (work units)** Dairy cows Other dairy cattle Beef cattle (incl. feeders) Hogs	650 \$ 1473 812 31235 6448	894 39351 9795	362 \$ 2224 910 10373 2545	947 13501 2345
Dairy cows Other dairy cattle Beef cattle (incl. feeders) Hogs Sheep (incl feeders)	650 \$ 1473 812 31235 6448 278	894 39351 9795 30	362 \$ 2224 910 10373 2545 90	947 13501 2345 88
Dairy cows Other dairy cattle Beef cattle (incl. feeders) Hogs Sheep (incl feeders) Poultry (incl. turkeys)	650 \$ 1473 812 31235 6448 278 74	894 39351 9795 30 <u>856</u>	362 \$ 2224 910 10373 2545 90 35	947 13501 2345 88
Dairy cows Other dairy cattle Beef cattle (incl. feeders) Hogs Sheep (incl feeders) Poultry (incl. turkeys) Productive livestock total	\$ 1473 812 31235 6448 278 74 \$40320	894 39351 9795 30 <u>856</u> \$52352	362 \$ 2224 910 10373 2545 90 35 \$16177	947 13501 2345 88 8 \$19100
Dairy cows Other dairy cattle Beef cattle (incl. feeders) Hogs Sheep (incl feeders) Poultry (incl. turkeys) Productive livestock total Horses	\$ 1473 812 31235 6448 278 74 \$40320	894 39351 9795 30 <u>856</u> \$52352 8	362 \$ 2224 910 10373 2545 90 35 \$16177	947 13501 2345 88 8 \$19100 4
Dairy cows Other dairy cattle Beef cattle (incl. feeders) Hogs Sheep (incl feeders) Poultry (incl. turkeys) Productive livestock total Horses Crop, seed and feed	\$ 1473 812 31235 6448 278 74 \$40320 9 30432	894 39351 9795 30 <u>856</u> \$52352 8 35915	362 \$ 2224 910 10373 2545 90 35 \$16177 4 15115	947 13501 2345 88 8 \$19100 4 13325
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)	\$ 1473 812 31235 6448 278 74 \$40320 9 30432 2428	894 39351 9795 30 <u>856</u> \$52352 8 35915 2642	362 \$ 2224 910 10373 2545 90 35 \$16177 4 15115 2289	947 13501 2345 88 8 \$19100 4 13325 2614
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	\$ 1473 812 31235 6448 278 74 \$40320 9 30432 2428 20255	894 39351 9795 30 <u>856</u> \$52352 8 35915 2642 21028	362 \$ 2224 910 10373 2545 90 35 \$16177 4 15115 2289 14859	947 13501 2345 88 8 \$19100 4 13325 2614 16309
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	\$ 1473 812 31235 6448 278 74 \$40320 9 30432 2428 20255 3287	894 39351 9795 30 <u>856</u> \$52352 8 35915 2642 21028 4261	362 \$ 2224 910 10373 2545 90 35 \$16177 4 15115 2289 14859 2005	947 13501 2345 88 8 \$19100 4 13325 2614 16309 2108
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	\$ 1473 812 31235 6448 278 74 \$40320 9 30432 2428 20255	894 39351 9795 30 <u>856</u> \$52352 8 35915 2642 21028	362 \$ 2224 910 10373 2545 90 35 \$16177 4 15115 2289 14859	947 13501 2345 88 8 \$19100 4 13325 2614 16309
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	\$ 1473 812 31235 6448 278 74 \$40320 9 30432 2428 20255 3287 \$25970	894 39351 9795 30 856 \$52352 8 35915 2642 21028 4261 \$27931	362 \$ 2224 910 10373 2545 90 35 \$16177 4 15115 2289 14859 2005 \$19153	947 13501 2345 88 8 \$19100 4 13325 2614 16309 2108 \$21031

^{*} 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), 1969

Sem	profitable farms \$ 1378 3973 19350 6087 82		
FARM RECEIPTS Dairy cattle sold \$1 Dairy products sold 25 Hogs sold 13 Sheep and wool (incl. feeders) sold	1070 4141 5460 3559 245 - 315 881	\$ 848 3748 57040 22986 790	\$ 1378 3973 19350 6087 82
FARM RECEIPTS	\$ 1378 3973 19350 6087 82		
Dairy cattle sold \$1 Dairy products sold 25 Beef cattle (incl. feeders) sold 25 Hogs sold 13 Sheep and wool (incl. feeders) sold	4141 5460 3559 245 - 315 881	3748 57040 22986 790 - 79	3973 19350 6087 82
Dairy products sold Beef cattle (incl. feeders) sold Hogs sold Sheep and wool (incl. feeders) sold	4141 5460 3559 245 - 315 881	3748 57040 22986 790 - 79	3973 19350 6087 82
Beef cattle (incl. feeders) sold Hogs sold Sheep and wool (incl. feeders) sold	5460 3559 245 - 315 881	57040 22986 790 - 79	19350 6087 82
Hogs sold Sheep and wool (incl. feeders) sold	3559 245 - 315 881	22986 790 - 79	6087 82 -
Sheep and wool (incl. feeders) sold	245 - 315 881	790 - 79	82 -
	315 881	- 79	-
	315 881		-
	881		0
	7042		
•			
		695	337
		985	1099
	10 <u>26</u>	2022	847
The state of the s	5274	\$114053	\$50166
Increase in farm capital	0113	20507	2622
Family living from the farm	330	404	345
Total farm receipts \$76	5717	\$134964	\$53133
FARM EXPENSES			
Dairy cattle bought \$	317	\$ 275	\$ 380
		• -	
			1
.			
Repair and upkeep of farm real estate			
Repair & upkeep of tractors & crop machinery			
The state of the s			
			1746
	739	861	<u> 785</u>
Total cash operating expense \$45	346	\$81090	\$35721
Trucks and autos bought (farm share)	837	928	893
Crop and power machinery bought	1497	4996	
Livestock equipment bought	925	1948	
New real estate and improvements	•		
	3517	\$92611	\$42579
Decrease in farm capital	_		-
	3814	13196	7458
Unpaid family labor	536	990	477
Board furnished hired labor	104	264	61
**************************************	2971	\$107061	\$50575
<u> </u>		\$ 27903	\$ 2558
Labor earnings \$13	3746	¥ 217U3	Ψ 2336

Table 3. Summary of Farm Earnings (Enterprise Statement), 1969*

Item	Average of 137 farms	27 most profitable farms	27 least profitable farms
RETURNS AND NET INCREASES			
Dairy cows	\$ 4174	\$ 3775	\$ 4084
Other dairy cattle	1146	781	1057
Beef breeding herd	704	1275	954
Feeder cattle	13023	30120	8305
Hogs	14154	24630	4718
Sheep - farm flock	92	31	71
Sheep - feeders	16	78	1
Chickens	931	2041	100
Turkeys	<u>235</u>		. <u> </u>
All livestock	\$34475	\$62731	\$19290
Value of feed fed to livestock	20077	<u>35269</u>	13299
Return over feed from livestock	\$14398	\$27462	\$ 5991
Crops, seed and feed	24426	37498	18531
Income from labor off the farm	416	415	403
Miscellaneous farm income	<u>1026</u>	2022	<u>847</u>
Total returns and net increases	\$40266	\$67397	\$25772
EXPENSES AND NET DECREASES			
Horses	5	3	1
Truck	657	840	587
Auto (farm share)	764	932	751
Electricity (farm share)	398	507	363
Hired power	1048	1263	846
Tractors and crop machinery	5160	6961	5348
Livestock equipment	815	1408	558
Building, fencing and tiling	2104	3 326	1814
Miscellaneous livestock expense	989	1586	862
Labor	2957	5612	2094
Real estate taxes	2070	2999	1747
General farm expense and telephone	739	861	785
Interest on farm capital @ 5.5 percent	8814	<u> 13196</u>	<u>7458</u>
Total expenses and net decreases	\$26520	\$39494	\$23214
Labor earnings	\$13746	\$27903	\$ 2558

^{*} Earnings statements, as shown in table 2, stress purchases and sales; inventory adjustments are entered as one item--either an increase or a decrease in farm capital. Likewise, family living from the farm is entered as a single item of income. On the enterprise basis, the value of livestock and livestock products includes sales, value used in the home, changes in inventories, and accounts for transfers between enterprises. Purchases of livestock are subtracted so the data represents value of livestock and livestock products added by the enterprise.

Costs of operating each service enterprise (auto and trucks, tractors and crop machinery, etc.) are calculated in a similar manner. Credit is given to crops for feed raised on the farm and consumed by livetock. Thus, while earnings statements on the enterprise basis do not show purchases and sales, such a statement more truly shows the value produced for the productive enterprises and net expenses for each of the service enterprises.

Table 4. Net Worth Statement for Those Farmers Who Kept a Complete Record of All Assets and Liabilities (Operator's Share), 1969

Thom			18 Ov	vners
Item			Jan. 1	Dec. 31
Total acres in farm			308	
Owned			308	
Rented		•		
Total farm capital - operator's			\$117686	\$120980
Stocks and bonds			2430	2956
Life insurance cash value			2791	3193
Notes and accounts receivable			1802	2039
Shares in cooperative organizations			2488	2706
Outside real estate			5222	5968
Cash on hand and in bank			2787	3194
Household furnishings and clothing			4164	4374
Personal share of auto and truck			650	810
Farm dwelling		•	8216	7933
Total non-farm assets - operator's			\$ 30550	\$ 33173
Total assets - operator's			\$148236	\$154153
Mortgages on farm operated			28842	27496
Mortgages on other real estate			1326	1260
Chattel mortgages			20412	20998
Notes payable			6678	7826
Accounts payable			1005	1562
Total liabilities - operator's			\$ 58263	\$ 59142
Net worth			\$ 89973	\$ 95011
Change in net worth				\$ 5038
	50 Dom		17 D	
T. C.	ou Par	t-owners	1 / R6	enters
Item	Jan. 1	t-owners Dec. 31	17 Re Jan. l	Dec. 31
Total acres in farm				
	Jan. 1		Jan. l	
Total acres in farm	Jan. 1 452		Jan. 1 321	
Total acres in farm Owned Rented	Jan. 1 452 250 202	Dec. 31	Jan. 1 321 -	
Total acres in farm Owned	Jan. 1 452 250	Dec. 31 \$132287	Jan. 1 321 - 321 \$ 37921	Dec. 31 \$ 45739
Total acres in farm Owned Rented Total farm capital - operator's	Jan. 1 452 250 202 \$121641	Dec. 31	Jan. 1 321 - 321 \$ 37921 458	Dec. 31 \$ 45739 710
Total acres in farm Owned Rented Total farm capital - operator's Stocks and bonds	Jan. 1 452 250 202 \$121641 3573	Dec. 31 \$132287 3361	Jan. 1 321 - 321 \$ 37921	Dec. 31 \$ 45739
Total acres in farm Owned Rented Total farm capital - operator's Stocks and bonds Life insurance cash value Notes and accounts receivable	Jan. 1 452 250 202 \$121641 3573 3622 947	\$132287 3361 4023 1138	Jan. 1 321 321 \$ 37921 458 2759 2265	Dec. 31 \$ 45739 710 3131 2248
Total acres in farm Owned Rented Total farm capital - operator's Stocks and bonds Life insurance cash value Notes and accounts receivable Shares in cooperative organizations	Jan. 1 452 250 202 \$121641 3573 3622 947 1838	\$132287 3361 4023 1138 2124	Jan. 1 321 - 321 \$ 37921 458 2759 2265 592	\$ 45739 710 3131 2248 560
Total acres in farm Owned Rented Total farm capital - operator's Stocks and bonds Life insurance cash value Notes and accounts receivable	Jan. 1 452 250 202 \$121641 3573 3622 947 1838 2580	\$132287 3361 4023 1138 2124 4231	Jan. 1 321 321 \$ 37921 458 2759 2265 592 1459	\$ 45739 710 3131 2248 560 1459
Total acres in farm Owned Rented 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	Jan. 1 452 250 202 \$121641 3573 3622 947 1838 2580 3544	\$132287 3361 4023 1138 2124 4231 3590	Jan. 1 321 321 \$ 37921 458 2759 2265 592 1459 1338	\$ 45739 710 3131 2248 560 1459 1879
Total acres in farm Owned Rented 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	Jan. 1 452 250 202 \$121641 3573 3622 947 1838 2580 3544 3710	\$132287 3361 4023 1138 2124 4231 3590 3856	Jan. 1 321 321 \$ 37921 458 2759 2265 592 1459 1338 3459	\$ 45739 710 3131 2248 560 1459 1879 3486
Total acres in farm Owned Rented 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	Jan. 1 452 250 202 \$121641 3573 3622 947 1838 2580 3544 3710 885	\$132287 3361 4023 1138 2124 4231 3590 3856 1036	Jan. 1 321 - 321 \$ 37921 458 2759 2265 592 1459 1338 3459 869	\$ 45739 710 3131 2248 560 1459 1879 3486
Total acres in farm Owned Rented 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	Jan. 1 452 250 202 \$121641 3573 3622 947 1838 2580 3544 3710 885 7112	\$132287 3361 4023 1138 2124 4231 3590 3856 1036 7486	Jan. 1 321 321 \$ 37921 458 2759 2265 592 1459 1338 3459 869 3	\$ 45739 710 3131 2248 560 1459 1879 3486 854 3
Total acres in farm Owned Rented 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	Jan. 1 452 250 202 \$121641 3573 3622 947 1838 2580 3544 3710 885 7112 \$ 27811	\$132287 3361 4023 1138 2124 4231 3590 3856 1036 7486 \$ 30845	Jan. 1 321 321 \$ 37921 458 2759 2265 592 1459 1338 3459 869 3 \$ 13202	\$ 45739 710 3131 2248 560 1459 1879 3486 854 3 \$ 14330
Total acres in farm Owned Rented 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	Jan. 1 452 250 202 \$121641 3573 3622 947 1838 2580 3544 3710 885 7112 \$ 27811 \$149452	\$132287 3361 4023 1138 2124 4231 3590 3856 1036 7486 \$ 30845 \$163132	Jan. 1 321 321 \$ 37921 458 2759 2265 592 1459 1338 3459 869 3	\$ 45739 710 3131 2248 560 1459 1879 3486 854 3
Total acres in farm Owned Rented 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	Jan. 1 452 250 202 \$121641 3573 3622 947 1838 2580 3544 3710 885 7112 \$ 27811 \$149452 33705	\$132287 3361 4023 1138 2124 4231 3590 3856 1036 7486 \$ 30845 \$163132 33383	Jan. 1 321 321 \$ 37921 458 2759 2265 592 1459 1338 3459 869 3 \$ 13202 \$ 51123	\$ 45739 710 3131 2248 560 1459 1879 3486 854 3 \$ 14330 \$ 60069
Total acres in farm Owned Rented 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	Jan. 1 452 250 202 \$121641 3573 3622 947 1838 2580 3544 3710 885 7112 \$ 27811 \$149452 33705 365	\$132287 3361 4023 1138 2124 4231 3590 3856 1036 7486 \$ 30845 \$163132 33383 827	Jan. 1 321 321 \$ 37921 458 2759 2265 592 1459 1338 3459 869 3 \$ 13202 \$ 51123 - 1459	\$ 45739 710 3131 2248 560 1459 1879 3486 854 3 \$ 14330 \$ 60069
Total acres in farm Owned Rented 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 other real estate Chattel mortgages	Jan. 1 452 250 202 \$121641 3573 3622 947 1838 2580 3544 3710 885 7112 \$ 27811 \$149452 33705 365 19561	\$132287 3361 4023 1138 2124 4231 3590 3856 1036 7486 \$30845 \$163132 33383 827 23300	Jan. 1 321 321 \$ 37921 458 2759 2265 592 1459 1338 3459 869 3 \$ 13202 \$ 51123 - 1459 14021	\$ 45739 710 3131 2248 560 1459 1879 3486 854 3 \$ 14330 \$ 60069 - 1247 16974
Total acres in farm Owned Rented 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	Jan. 1 452 250 202 \$121641 3573 3622 947 1838 2580 3544 3710 885 7112 \$ 27811 \$149452 33705 365 19561 8593	\$132287 3361 4023 1138 2124 4231 3590 3856 1036 7486 \$ 30845 \$163132 33383 827 23300 9315	Jan. 1 321 - 321 \$ 37921 458 2759 2265 592 1459 1338 3459 869 3 \$ 13202 \$ 51123 - 1459 14021 3410	\$ 45739 710 3131 2248 560 1459 1879 3486 854 3 \$ 14330 \$ 60069 - 1247 16974 5185
Total acres in farm Owned Rented 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	Jan. 1 452 250 202 \$121641 3573 3622 947 1838 2580 3544 3710 885 7112 \$ 27811 \$149452 33705 365 19561 8593 896	\$132287 3361 4023 1138 2124 4231 3590 3856 1036 7486 \$30845 \$163132 33383 827 23300 9315 880	Jan. 1 321 321 \$ 37921 458 2759 2265 592 1459 1338 3459 869 3 \$ 13202 \$ 51123 - 1459 14021 3410 1160	\$ 45739 710 3131 2248 560 1459 1879 3486 854 \$ 14330 \$ 60069 - 1247 16974 5185 1293
Total acres in farm Owned Rented 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	Jan. 1 452 250 202 \$121641 3573 3622 947 1838 2580 3544 3710 885 7112 \$ 27811 \$149452 33705 365 19561 8593 896 \$ 63120	\$132287 3361 4023 1138 2124 4231 3590 3856 1036 7486 \$ 30845 \$163132 33383 827 23300 9315 880 \$ 67705	Jan. 1 321 321 \$ 37921 458 2759 2265 592 1459 1338 3459 869 3 \$ 13202 \$ 51123 - 1459 14021 3410 1160 \$ 20050	\$ 45739 710 3131 2248 560 1459 1879 3486 854 \$ 14330 \$ 60069 - 1247 16974 5185 1293 \$ 24699
Total acres in farm Owned Rented 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	Jan. 1 452 250 202 \$121641 3573 3622 947 1838 2580 3544 3710 885 7112 \$ 27811 \$149452 33705 365 19561 8593 896	\$132287 3361 4023 1138 2124 4231 3590 3856 1036 7486 \$30845 \$163132 33383 827 23300 9315 880	Jan. 1 321 321 \$ 37921 458 2759 2265 592 1459 1338 3459 869 3 \$ 13202 \$ 51123 - 1459 14021 3410 1160	\$ 45739 710 3131 2248 560 1459 1879 3486 854 \$ 14330 \$ 60069 - 1247 16974 5185 1293

Table 5. Summary of Farm Earnings by Tenure (Operator's Share, 1969)

Thom	25	81 Part-	23
Item	Owners	owners	Renters
FARM RECEIPTS			
Dairy cattle sold	\$ 94	\$ 1244	\$ 1069
Dairy products	494	4517	5055
Beef cattle sold (incl. feeders)	28279	21228	18401
Hogs sold	12714	13423	9786
Sheep and wool sold (incl. feeders)	155	305	222
Horses sold	-	-	-
Poultry sold (incl. turkeys)	1420	110	. 8
Eggs sold	65	1422	172
Corn sold	5952	5883	4309
Soybeans sold	5139	5475	3042
Small grain sold	377	545	374
Other crops sold	3566	4533	2351
Machinery and equipment sold	409	561	395
Income from work off the farm	363	1027	1135
Miscellaneous farm income	1139	1127	524
(1) Total farm sales	\$60166	\$61400	\$46843
(2) Increase in farm capital	4220	13606	7341
(3) Family living from the farm	230	323	347
(4) Total farm receipts (1)+(2)+(3)	\$64616	\$75329	\$54531
FARM EXPENSES	*******	****	***
Dairy cattle bought	\$ 38	\$ 348	\$ 241
Beef cattle bought (incl. feeders)	15224	14684	10077
Hogs bought	1119	1052	850
Sheep bought (incl. feeders)	_	154	39
Horses bought	_		8
Poultry bought (incl. turkeys)	225	134	2
Miscellaneous livestock expense	832	937	1005
Feed bought	8810	8512	7159
Fertilizers bought	2554	2889	1990
Other crop expenses	3333	3418	2267
Custom work hired	1474	1505	1352
Gas, oil and grease bought (farm share)	1257	1749	1511
Repair and upkeep of power & crop machinery	1768	2317	2139
Repair and upkeep of real estate	468	548	278
Repair and upkeep of livestock equipment	177	282	242
Wages of hired labor	1218	2039	1612
Electricity expense (farm share)	357	418	321
Real estate taxes	1751	1226	
Cash rent		1769	3564
Telephone and general farm expense	824	757	571
Interest paid	3443	3813	1808
Total cash operating expense	\$44872	\$48551	\$37036
Trucks and autos bought (farm share)	599	936	897
Crop & power machinery bought	3904	4421	4423
Livestock equipment bought	487	876	1232
Farm purchases and real estate improvements	1541	3946	842
(5) Total farm purchases	\$51403	\$58730	\$44430
(6) Decrease in farm capital	40140 0	Ψ36730 -	Ψ -14 00
(7) Interest on operator's farm capital	3219	3065	953
(8) Unpaid family labor	187	231	955 210
(9) Board furnished hired labor	66	106	127
(10) Total farm expense $(5)+(6)+(7)+(8)+(9)$	\$54875		
		\$62132	\$45720
(11) Labor earnings (4)-(10)	\$ 9741	\$13197	\$ 8811
(12) Ret. to capital & family labor (7)+(8)+(11)	\$13147	\$164 93	\$ 9974

Table 6. Household and Personal Expenses for Those Farms Which Kept Complete Accounts of These Expenses, 1969

Item	Average of 63 farms	13 high in return to cap. and fam. labor	13 low in return to cap. and fam. labor
Number of persons - family	4.9	4.8	4.7
Number of adult equivalents - family - other*	4.1 .2	4.1 .4	4.1 -
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	\$1453 525 556 624 202 338 221 274 764 507 367 134 158	\$1555 604 842 895 245 535 322 363 987 678 339 258	\$1254 413 454 494 136 290 105 174 667 353 283 71
Total cash living expense Personal share of new autos New dwelling Taxes Life insurance Other savings and investments	\$6123 437 170 659 1015 599	\$7796 691 51 847 1535 787	\$4836 466 95 237 709 87
Total household & personal cash expense	\$9003	\$11707	\$6430
Family living from the farm	356	<u>353</u>	304
Total cash expense and perquisites	\$9359	\$12060	\$6734
RECEIPTS			
Return to capital and family labor Income from outside investments Other personal income	\$15282 259 836	\$30186 240 995	\$ 5368 62 779

^{*} Hired help or others boarded.

Table 7. Family Living from the Farm, 1969

Item .	Average of 137 farms	Average of 137 farms
Number of adult equivalents - family - other*	4.1 .2	·
Whole milk	335 qts.	\$ 32
Cream	-	-
Cattle	867 lbs.	223
Hogs	280 lbs.	60
Sheep	2 lbs	. •
Poultry	34 lbs.	9
Eggs	21 doz.	6
		\$330

^{*} 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	8		xxxxxx	\$ 4374
1	16	·	XXXXXXXXXX	8126
2	27		XXXXXXXXXXXX	10052
3	32	-	XXXXXXXXXXXXXXXXXX	13917
4	24		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	16045
5	15		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	18828
6 or 7	15		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	22258

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.

Table 9. Measures of Farm Organization and Management Efficiency, 1969

Measures used in chart on page 11	Average of 137 farms	27 most profit- able farms	27 least profit- able farms
Labor earnings	\$13746	\$27903	\$ 2558
Crop yields*	100	107	97
Percent tillable land in high return crops**	65.8	66.1	66.7
Return for \$100 feed to productive livestock***	100	110	87
Productive livestock units per 100 acres****	35.6	54.5	25.4
Size of business - work units	456	650	362
Work units per worker	285	295	241
Pow., mach., equip., & bldg. expense per work unit	\$26.76	\$24.27	\$32.44
Items related to some of the above measures:			
<pre>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) Hogs (see page 18)</pre>	100 100 100 100	121 113 108 108	80 79 91 82
Sheep - farm flock (see page 21) Sheep - feeders Turkeys Chickens (see page 22)	100 100 100 100	104 	70 - - 85
Number of animal units	136.1	261.4	83.6
Work units on crops Work units on productive livestock Other work units	176 217 63	248 336 66	148 141 73
Number of family workers Number of hired workers Total number of workers	1.2 .4 1.6	1.3 <u>.9</u> 2.2	1.2 .3 1.5
Power and crop machinery expense per work unit Livestock equipment expense per work unit Building and fencing expense per work unit	\$19.83 1.79 5.14	\$16.81 2.10 5.36	\$24.58 1.79 6.07
Crop acres per farm Crop and power machinery expense per crop acre	313 \$17.10	446 \$16.36	261 \$20.99

^{*} Given as a percentage of the average.

^{**} Crops are marked in Table 10 as A, B, C, and D. All of the acres of 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 average for the 137 farms included in this summary are located between the dotted lines across the center of this page.

			s.,		*** - 1-		etu		. L			Wo: un:		Pow.eq.&	
	Labor earn-		Crop		High eturn		from		nıt: per		ork		er		• pe
	ings	,	/ielo		crops				.00		nits		rker	work	
\$29700		140		86.0		140	5 	67.0		780		445 –	\$1:	1.00	
27700		135		83.5		135		63.0		740		425	1:	3.00	
25700		130		81.0		130		59.0		700		405	1:	5.00	-
23700		125		78.5		125		55.0		660		385	1	7.00	_
21700		120		76.0		120		51.0		620		365 –		9.00	-
19700		115		73.5		115		47.0		580		345	_ 2	1.00	\dashv
17700		110	$\left \cdot \right $	71.0		110		43.0		540	H	325 -	- 2	3.00	
15700		105		68.5		105		39.0		500		305 –	_ 2	5.00	- -
13700	<u> </u>	100		66.0		100		35.0		460		285	- 2	7.00	-
11700		95	H	63.5		95		31.0		420		265 -	 2	9.00	
9700		90	$\left - \right $	61.0		90		27.0		380		245 -		1.00	
7700	H	85		58.5		85		23.0		340		225	3	3.00	
5700		80		56.0	H	80		19.0		300		205		5.00	
3700		75		53.5		75		15.0		260		185		7.00	
1700		70		51.0		70		11.0		220		165 -		9.00	_
- 300		65		48.5		65		7.0		180		145 -		1.00	
-2300		60		46.0		60		3.0		140		125	7	3.00	\dashv

Table 10. Distribution of Acres in Farm, 1969

Item	Crop ratings*	Number growing this crop	Average of 137 farms	Ave. per farm raising each crop
Canning peas	В	3	0.6	27.3
Wheat	C	17	1.3	10.8
Oats for silage	C	12	1.6	17.8
Oats for grain	D	93	20.6	30.4
Flax	С	13	4.0	42.6
Other small grain	D .	1	0.2	27.4
Total small grain and peas		106	28.3	36.6
Corn grain	Ą	137	149.0	149.0
Soybeans for grain	В	123	90.5	100.8
Sweet corn	В	6	1.6	36.7
Corn silage	В	87	15.2	24.0
Other cultivated crops	D	2	0.9	59.6
Total cultivated crops		137	257.2	257.2
Alfalfa hay	В	120	24.4	27.8
Other legume hay	С	4	1.0	35.8
Other tame hay	D	2	0.1	3.5
Annual hay	D	4	0.4	14.2
Total tillable land in hay		121	25.9	29.3
Alfalfa pasture	В	35	3.2	12.7
Other tillable pasture	D .	14		9.3
Total tillable land in pasture		4 8.	$\frac{1.0}{4.2}$	12.0
Feed grain program (diverted acres)	В	114	64.0	76.9
Tillable land not cropped	D	16	2.2	19.1
Total tillable land		137	381.8	381.8
Wild hay		33	2.1	
Non-tillable pasture		71	19.8	
Timber not pastured		14	0.8	
Roads and waste			17.0	
Farmstead			10.9	
Total acres in farm		,	432.4	
Percent land tillable			88.3	
Percent tillable land in high retur	n crops		65.8	

 $[\]mbox{*}$ 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, 1969

	<u> </u>	
Item		Average of farms growing each crop
Canning peas, dollars		\$62.49
Wheat, bu.		27.4
Oats for silage, tons		6.6
Oats for grain, bu.		63.9
Flax, bu.		16.1
Corn grain, bu.		99.8
Soybeans, bu.		30.5
Sweet corn, tons		5.5
Corn silage, tons		15.4
Alfalfa hay, tons		3.7
Other legume hay, tons		3.1
Annual hay, tons		1.7
Feed grain program, doll	ars	\$58.01
Wild hay, tons		1.8

Table 12. Average Price of Feeds, 1969

Item	Value	Item	Value.
Ear corn, per bu.	\$1.05	Alfalfa hay, per ton	\$20.00
Oats, per bu.	•56	Timothy hay, per ton	11.60
Barley, per bu.	•85	Wild hay, per ton	10.00
Wheat, per bu.	1.45	Corn silage, per ton	7.25
Soybean meal, per cwt.	5.00	Pasture, per month per cow	4.00

Table 13. Returns Above Listed Costs per Acre of Crops

Item	Corn grain	Corn silage	Soy - beans
Number of farms reporting	132	84	120
Yield per acre	99.8	15.4	30.5
Price per unit	\$1.00	\$7.25	\$2.25
Total return	\$96.00	\$107.67	\$67.08
Fertilizer	\$14.39	\$ 14.54	\$.63
Seeds, herbicides, etc.	12.85	12.32	7.51
Total listed costs	\$27.24	\$26.86	\$ 8.14
Return above listed costs	\$68.76	\$80.81	\$58.94
Item	Wheat	Alfalfa hay	Oats
Number of farms reporting	16	116	90
Yield per acre	27.1	3 . 7	63.3
Price per unit	\$1.50	\$20.00	\$.60
Total return	\$35.29	\$71.49	\$36.36
Fertilizer	\$ 4.93	\$ 4.24	\$ 2.40
Seeds, herbicides, etc.	6.16	6.19	4.46
Total listed costs	\$11.09	\$10.43	\$ 6.86
Return above listed costs	\$24.20	\$61.06	\$29.50

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

	Number of		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	1.5 per cow		.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.		.6 per acre
Turkeys	.l per 100 lbs.	Soybean hay	.6 per acre
Hens		Other hay crops	.4 per acre
Canning peas Soybeans for grain	.5 per acre.5 per acre	Labor off the farm	1.0 per \$15

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

Table 15. Factors of Costs and Returns from Dairy Cows, 1969

Item	Average of 29 farms	14 farms highest in butterfat per cow	14 farms lowest in butterfat per cow
Pounds of milk per cow	11306	12815	9802
Percent of butterfat in milk	3.6	3.5	3.6
Pounds of butterfat per cow	399	452	346
Price received per pound of butterfat sold	\$1.34	\$1.36	\$1.30
Price received per cwt. of milk sold	4.75	4.80	4.64
Value of produce per cow:			
Dairy product sales	\$523.56	\$598.79	\$443.39
Dairy produce used in home	5.07	6.57	3.49
Milk fed to livestock Net increase in value of cows	6.99	8.71	5.37
TOTAL VALUE PRODUCED	-4.26	<u>-2.77</u>	<u>-4.96</u>
TOTAL VALUE PRODUCED	\$531.36	\$611.30	\$447.29
Feed cost per cow:			
Concentrates	\$144.01	\$162.68	\$126.47
Roughages	105.99	103.22	109.22
Pasture	4.48	2.47	6.81
TOTAL FEED COST	\$254.48	\$268.37	\$242.50
RETURNS ABOVE FEED COST PER COW	\$276.88	\$342.93	\$204.79
RETURNS FOR \$100 OF FEED	\$220	\$242	\$196
Feeds per cow, lbs.:			
Corn	4497	5183	3785
Small grain	683	692	655
Commercial feeds	723	820	660
Total concentrates	55903	6695	5100
Total hay	5943	6048	6009
Silage	12830	11664	13648
Feed cost per pound of butterfat	\$.64	\$.59	\$.70
Feed cost per cwt. of milk produced	2.25	2.09	2.47
Number of cows*	35.5	38.2	33.1

^{*} 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, 1969

Item	Average of 29 farms	<pre>14 farms highest in butterfat per cow</pre>	14 farms lowest in butterfat per cow
NET INCREASE IN VALUE OF OTHER DAIRY CATTL	E \$128.25	\$145.61	\$109.85
TOTAL FEED COST PER HEAD	\$ 87.58	\$ 95.04	\$ 79.40
RETURNS ABOVE FEED COST PER HEAD	\$ 40.67	\$ 50.57	\$ 30.45
RETURNS FOR \$100 OF FEED	\$159	\$162	\$157
Feed per head, 1bs.: Concentrates Hay Silage Whole milk	1673 2204 4661 143	2158 2384 3394 159	1229 2050 5386 132
Number of head of other dairy	41.9	49.1	33.9

Table 17. Feed Costs and Returns from All Dairy Cattle, 1969

		l4 farms	14 farms
	Average	highest in	
Item	of 29	butterfat	butterfat
	farms	per cow_	per cow
Value of produce per cow:			
Dairy products	\$528.63	\$605.36	\$446.87
Net increase in value of dairy cattle	159.01	204.36	108.70
TOTAL VALUE PRODUCED	\$687.64	\$809.72	\$555.57
TOTAL FEED COST PER COW	\$360.22	\$401.83	\$316.55
RETURNS ABOVE FEED COST PER COW	\$327.42	\$407.89	\$239.02
RETURNS PER \$100 OF FEED	\$199	\$215	\$181
Feed per cow, lbs.:			•
Concentrates	8238	10073	6426
Hay	8697	9532	8005
Silage	18656	17155	18734
Miscellaneous expenses per cow	\$43.09	\$39.55	\$46.56

Table 18. Feed Costs and Returns from Hogs, 1969

		86 f	arms with bree	ding stock	
			17 farms	17 farms	12 farms
Item	Average	Average	highest in	lowest in	with
	of 98	of 86	returns	returns	purchased
	farms	<u>fa</u> rms	above feed	above feed	feeder pigs
Pounds of hogs produced	78457	79480	68816	72588	71126
NET INCREASE IN VALUE PER CWT. PRODUCED	\$25.10	\$25.67	\$29.03	\$23.28	\$21.02
FEED COST PER CWT. PRODUCED	12.52	12.30	11.18	14.16	14.15
RETURN ABOVE FEED COST PER CWT. PRODUCED	\$12.58	\$13.37	\$17.85	\$ 9.12	\$ 6.87
RETURNS FOR \$100 OF FEED	\$207	\$214	\$266	\$165	\$155
Price received per cwt. sold	\$23.06	\$23.12	\$24.66	\$22.39	\$22.61
Weight per hog sold	237	238	233	241	227
Miscellaneous costs per cwt. produced	\$.47	\$.50	\$.61	\$.53	\$.22
Feed per cwt. hogs produced, lbs.:					
Corn	318	305	307	303	407
Small grain	28	29	32	35	24
Commercial feeds	<u>108</u>	<u>113</u>	<u>76</u>	<u>177</u>	<u>70</u>
Total concentrates	454	447	415	515	501
Total number of litters raised	41	47	44	39	_
Number of pigs born per litter	8.9	8.9	9.3	8.6	_
Number of pigs weaned per litter	7.3	7.4	7.7	7.3	-
Number of feeder pigs bought	54	13	0	6	350
Total weight of feeders purchased	2206	541	0	195	14137
Price paid per feeder pig	\$18.75	\$18.45		\$18.22	\$19.01

Table 19. Feed Costs and Returns from Beef Breeding Herd, 1969

Item	Average of 18 farms
TOTAL VALUE PRODUCED PER COW	\$142.90
Feed cost per cow: Concentrates Roughages Pasture TOTAL FEED COST	\$ 26.79 52.33 28.67 \$107.79
RETURNS ABOVE FEED COST PER COW	\$ 35.11
RETURNS FOR \$100 OF FEED	\$147
Miscellaneous costs per cow	\$5.38
Feed per cow, lbs.: Concentrates Hay Silage	1187 3443 5052
Pounds of beef produced	16815
Number of cows Number of other beef cattle	38.4 26.2

Table 20. Feed Costs and Returns from Feeder Cattle, 1969

	Average
Item	of 89
	farms
Pounds of beef produced	71344
NET INCREASE IN VALUE OF FEEDERS	\$28.87
Feed cost per cwt. of beef produced: Concentrates Roughages Pasture TOTAL FEED COSTS	\$16.35 4.55 .16 \$21.06
RETURNS ABOVE FEED COST PER CWT. BEEF PRODUCED	\$ 7.81
RETURNS FOR \$100 OF FEED	\$142
Miscellaneous costs per cwt. of beef produced	\$.95
Feeds per cwt. beef produced, lbs.: Corn Small grain Commercial feeds	673 15 60
Total concentrates Total hay Silage	748 244 595
Price paid per cwt. for beef bought Price received for feeder cattle sold	\$31.32 28.03
Number of animal units	116.6

Table 21. Feed Costs and Returns from a Farm Flock of Sheep, 1969

Item		Average of 8 farms
Value of made on the same		· · · · · · · · · · · · · · · · · · ·
Value of produce per ewe: Wool		\$ 5.97
Net increase in value of sheep		23.23
TOTAL VALUE PRODUCED		\$29.20
Feed costs per ewe:		
Concentrates		\$ 7.02
Roughages Pasture		7.91 2.95
TOTAL FEED COSTS		\$17.88
		· · · · · · · · · · · · · · · · · · ·
RETURNS ABOVE FEED COST PER EWE	•	\$11.32
DESCRIPTION OF FEED		\$212
RETURNS FOR \$100 OF FEED		カベエベ
Miscellaneous expenses per ewe		\$1.33
Feeds per ewe, lbs.:	en de la companya de La companya de la co	
Concentrates		313
Hay		692
Silage		274
Price per cwt. of lambs sold		\$28.55
riice per cwc. or lambs sord		Ψ20•33
Price per pound of wool sold Pounds of wool per sheep sheared		\$.53 9.0
Todad of wood por oncop charter		•
Percent lamb crop*		119
Percent death loss*	·	12.1
Pounds of sheep produced		4196
Number of head of ewes		48

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

Table 22. Feed Costs and Returns from Chickens, 1969

Item	Average of 14 farms
Value of produce per hen: Eggs sold and used in home Net increase in value of chickens TOTAL VALUE PRODUCED	\$5.31 28 \$5.03
TOTAL FEED COST PER HEN	\$3.48
RETURNS ABOVE FEED COST PER HEN	\$1.55
RETURNS FOR \$100 OF FEED	\$147
Miscellaneous expenses per hen	\$.11
Feed per hen, lbs.: Grain Commercial feed Total concentrates	78 <u>40</u> 118
Price received per dozen eggs sold Eggs laid per hen Feed costs per dozen eggs produced	\$.34 195 \$.21
Average number of hens on farm during the year Percent death loss of hens	1464 12.3
Number of chicks bought Number of hens bought	1366 1258

Table 23. Summary by Years

Item		Average 1945 - 49	Average 1950-54	Average 1955-59	Average	10/5	1066	1047	1060	1060
Number of farms	165	1943-49	138	135	1960 - 64 135	1965 156	1966 153	1967 144	1968 136	1969 137
Total farm capital managed	\$36133	\$40590	\$57692							
Monthly charge for:	420122	3 40390	\$3769Z	\$75246	\$99907	\$118992	\$122684	\$137702	\$152461	\$160250
Unpaid family labor*	63	118	130	134	147	160	160	160	160	160
Second operator	63	118	130	134	167	275	300	300	300	300
Board for hired labor	23	33	36	38	40	45	45	45	45	300 45
Board for Hilled Tabor	20		30	30	40	43	45	45	45	45
FARM EXPENSES			•							
Dairy cattle bought	\$ 120	\$ 175	\$ 215	\$ 151	\$ 146	\$ 145	\$ 135	\$ 99	\$ 91	\$ 317
Beef cattle bought	1405	2027	4097	7619	1115 3	10975	12295	12940	15453	16215
Hogs bought	275	447	448	473	723	738	827	801	1040	1099
Sheep bought (incl. feeders)	596	365	599	517	69	27	16	50	65	98
Poultry bought (incl. turkeys)	140	165	190	225	244	238	186	234	151	119
Horses bought	39	11	6	5	. 3	6	2	2	1	1
Miscellaneous livestock expense	140	248	378	525	592	644	660	738	861	989
Fertilizer	-	• -	-	906	1223	1945	2311	3058	2545	2969
Miscellaneous crop expenses	402 **	869 **	1234**	908	1184	1782	1988	2720	3108	3410
Feed bought	2041	3191	4323	5503	7225	8191	9588	7867	8449	8848
Custom work hired	193	356	438	694	874	1041	1050	1284	1198	1532
Power and crop machinery (new)	655	1669	1864	1891	2057	3881	4151	4177	4612	5334
Power and crop machinery (upkeep	675	1365	1735	2200	2718	3164	3279	3561	3643	4287
Livestock equipment (new)	112	99	164	327	415	505	565	480	477	925
Livestock equipment (upkeep)	55	111	135	194	207	235	252	230	263	290
Buildings and fencing (new)	341	676	881	832	1018	1172	1353	1949	1964	1912
Buildings and fencing (upkeep)	149	319	312	320	338	377	425	420	420	530
Hired labor	593	794	883	993	1092	1175	1223	1399	1549	1833
Taxes	330	403	622	910	1449	1843	1841	2000	1735	2070
General farm expense	98	174	260	364	430	517	518	581	617	739
Total farm purchases	\$ 8359	\$13464	\$18784	\$25557	\$33160	\$38601	\$42665	\$44590	\$48242	\$53517
Decrease in farm capital	_	_	_	_	-	-	-	÷	-	
Interest on farm capital***	1806	2030	2885	3762	4991	5950	6134	7574	8385	8814
Unpaid family labor	310	377	358	379	500	702	657	699	667	536
Board furnished hired labor	142	107	91	92	82	89	72	69	88	104
Total farm expense	\$10617	\$15978	\$22118	\$29790	\$38733	\$45342	\$49528	\$52932	\$57382	\$62971

^{*} These adjustments should be considered in comparing 1968 results with previous years.

^{**} Includes fertilizer.

^{***} Interest was calculated at the rate of 5% on capital managed from 1940 to 1966 and at 5.5% beginning in 1967.

Table 23. Summary by Years (continued)

	Avėrage	Average	Average	Average	Average					
	1940-44	1945-49	1950-54	1955-59	1960 - 64	1965	1966	1967	1968	1969
FARM RECEIPTS										
Dairy cattle	\$ 383	\$ 573	\$ 695	\$ 585	\$ 563	\$ 626	\$ 628	\$ 774	\$ 853	\$ 1070
Dairy products	783	988	1085	1450	1888	2199	2633	3398	3849	4141
Beef cattle	3140	4246	7918	13025	20180	21094	21099	23989	28325	25460
Hogs	3622	6775	7455	7158	8431	11321	13877	10724	11548	13559
Sheep and wool	928	651	978	981	263	174	137	158	197	245
Poultry (incl. turkeys)	563	525	526	530	505	440	432	366	385	315
Eggs	597	1035	965	1013	1074	863	1103	863	647	881
Horses	44	23	8	5	4	1	1	-	2	_
Corn	584	1138	1855	3149	3401	3961	4707	6078	6138	7042
Soybeans	_		-	_	-		4567	5566	4894	6059
Small grain	1031	2055	1236	807	882	598	594	504	627	554
Other crops*	400	879	1023	1759	3855	6452	2482	2026	2961	4483
Machinery and equipment sold	196	364	367	266	373	457	267	434	504	492
Agricultural adjustment payment	370	65	64	44	43	33	_		, <u> </u>	
Income from work off the farm	174	313	349	398	396	593	665	784	723	947
Miscellaneous farm income	224	78	137	306	386	503	678	844	1015	1026
Total farm sales	\$13039	\$19708	\$24661	\$31476	\$42244	\$49315	\$53870	\$56508	\$62668	\$66274
Increase in farm capital	1098	2395	1845	1157	1205	6359	7896	1988	5596	10113
Family living from the farm	553	666	55 3	278	288	274	<u>279</u>	289	292	330
Total farm receipts	\$14690	\$22769	\$27059	\$32911	\$43737	\$55948	\$62045	\$58785	\$68556	\$76717
Total farm expenses	10617	15978	22118	29790	38733	45342	49528	52932	57382	62971
Labor earnings	\$ 4073	\$ 6791	\$ 4941	\$ 3121	\$ 5004	\$10606	\$12517	\$ 5853	\$11174	\$13746
MEASURES OF FARM ORGANIZATION A	ND MANAGE	MENT				*				
Percent high return crops**	41.2	56.4	59.7	63.4	68.1	65.4	67.5	70.0	67.4	65.8
Livestock units per 100 acres**		20.3	30.3	39.4	43.0	37.4	38.7	35.6	35.2	35.6
Work units***	588	501	470	469	5 33	556	576	449	452	456
Work units per worker***	273	285	283	279	318	321	360	281	266	285
Expenses per work unit***	\$3.02	\$6.23	\$9.49	\$12.81	\$13.42	\$14.95	\$15.74	\$21.32	\$22.78	\$26.76

^{*} 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.

Table 24. Summary of Miscellaneous Items by Years

	Average	Average	Average	Average	Average					
Item	1940-44	1945 - 49	1950 - 54	1955-59	1960-64	1965	1966	1967	1968	1969
RETURN ABOVE FEED COST PER										
Dairy cow	\$61.87	\$114.96	\$111.51	\$125.34	\$140.97	\$141.25	\$197.29	\$245.53	\$273.02	\$276.88
Animal unit in beef herd	21.90	46.46	42.51	30.08	30.77	10.75	52.76	₩249•00	Ψ2/3•02	₩ *
100 lbs. feeder cattle produced	3.11	8.87	5.26	5.88	1.94	7.12	•68	4.87	8.21	7.81
Ewe	-	-	_	_	6.80	11.06	12.20	6.49	10.32	11.3
100 lbs. hogs produced	4.05	6.29	6.23	4.52	4.28	11.22	8.03	5.41	6.29	12.58
Hen	1.72	2.15	1.09	1.05	.91	•28	1.32	05	.81	1.55
	-						-			
FEED COST PER										
Dairy cow	67.74	121.21	142.90	147.40	181.72	213.32	222.41	234.84	238.97	254.48
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	18.53	21.06
Ewe	-	-	-	-	13.42	15.10	17.01	16.29	16.60	17.88
100 lbs. hogs produced	7.36	12.70	12.95	10.48	10.65	12.22	12.75	12.49	11.55	12.52
Hen	2.28	4.28	4.66	3.89	3.45	3.48	4.01	3.38	3.18	2.48
MISCELLANEOUS LIVESTOCK INFORMAT	CTON							•		
Number of dairy cows	8.1	5.3	4.7	5.2	5.7	6.1	6.2	6.7	7.3	7.5
Head in beef breeding herd	10.5	9.4	11.1	10.6	4.9	4.3	6.2	7.7	8.5	8.6
Pounds of feeder cattle produced		6676	12137	27685	41929	43527	46887	47171	47937	46409
Litters of pigs	18.5	19.5	21.7	24.6	28.0	27.8	29.1	27.2	29.6	30.3
Pounds of hogs produced	30411	34292	37265	44369	52828	52981	57697	52975	59840	56242
Number of hens	197	202	187	204	219	193	179	196	147	156
Pounds of butterfat per dairy co		257	282	311	3 4 9	365	372	397	403	399
Pigs weaned per litter	6.1	6.3	6.7	7.2	7.0	7.2	7.4	7.5	7.4	7.3
Percent lamb crop	105	109	107	111	103	101	119	103	112	119
Eggs per hen	134	171	180	200	208	205	224	217	201	195

^{*} Information not available.

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

Item	Average 1940-44		Average 1950-54	Average 1955-59	Average 1960-64	1965	1966	1967	1968	1969
PRICE RECEIVED PER									•	
Pound of butterfat in milk	\$.64	\$.98	\$.94	\$.91	\$.94	\$.98	\$ 1.14	\$ 1.21	\$ 1.27	\$ 1.34
100 pounds of fat cattle	11.73	21.71	26.61	22.51	22.86	23.72	24.39	24.67	25.81	28.03
Pound of wool	•38	.41	.60	.51	•58	•53	•66	.44	•52	•53
Dozen of eggs	• 26	•37	•35	.29	•27	.25	.31	•.22	• 25	.34
100 pounds of hogs sold	10.86	19.54	19.43	15.96	15.45	20.34	23.07	19.27	18.74	23.06
PRICE OF FEED			. 01		00	1 10	1.10	. 10	1.00	1.05
Corn, bu.	.70	1.24	1.31	1.11	•99	1.13	1.19	1.12	1.02	
Oats, bu.	•46	. 74	.74	•59	.61	•63	.66	•64	.62	•56
Barley, bu.	•58	1.31	1.15	•92	.91	•98	1.02	1.04	.96	.85
Alfalfa hay, ton	10.00	18.60	18.30	18.20	19.40	23.00	21.00	20.00	20.00	20.00
Timothy hay, ton	6.24	10.86	10.60	10.58	11.22	13.00	12.20	11.60	11.60	11.60
Corn silage, ton	3.20	6.07	6.00	6.08	6.60	7.75	7.30	7.25	7.25	7.25
Soybean meal, cwt.	2.51	4.15	4.50	-	4.36	4.60	5.25	5.00	-	-
ACRES PER FARM									20. 5	00.0
Small grains	89.9	73.9	70.5	48.8	39.5	26.3	27.4	24.2	29.5	28.3
Cultivated crops	89.5	100.3	107.0	153.7	187.0	228.9	233.8	267.6	270.0	257.2
Fillable land in hay	27.4	19.1	28.1	34.9	31.0	29.1	27.4	27.4	27.5	25.9
Tillable land in pasture	24.5	15.2	14.8	13.2	6.8	6.1	4.5	4.0	3.8	4.2
Tillable land not cropped	<u>5.1</u>	2.4	1.4	2.2	<u>25.9</u> *				46.0*	66.2
Total tillable land	236.4	210.9	221.8	252.8	290.2	336.8	328.1	349.9	376.8	381.8
Non-tillable land	<u>45.6</u>	43.1	43.4	<u>40.5</u>	44.6	48.2	44.0	49.6	50.4	50.6
Total acres per farm	282.0	254.0	265.2	293.3	334.8	385.0	372.1	399.5	427.2	432.4
YIELDS PER ACRE									1 0	17:1
Flax, bu.	10.5	13.7	11.5	13.0	13.6	18.2	10.9	19.3	17.3	16.1
Oats, bu.	40.4	46.3	41.4	51.7	54.8	61.2	58.9	61.3	60.4	63.9
Corn grain, bu.	49.7	47.8	53.7	57.1	71.3	62.7	84.0	81.2	93.8	99.8
Corn silage, tons	8.9	8.4	9.2	9.7	11.8	10.7	13.2	12.3	13.9	15.4
Soybeans, bu.	17.8	14.4	19.8	22.5	25.5	20.2	26.9	23.7	25.7	30.5
Alfalfa hay, tons	2.2	2.1	2.5	2.5	3.0	2.8	2.9	3.0	3.2	3.7

^{*} Including feed grain program.