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1966 annual report

Southeastern 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 14 Southeastern Counties Southeastern Minnesota Farm Management Association

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1966 ANNUAL REPORT OF THE SOUTHEASTERN MINNESOTA FARM MANAGEMENT ASSOCIATION

Prepared by T. R. Nodland*

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INTRODUCTION

The Department of Agricultural Economics and the Agricultural Extension Service of the University of Minnesota, the Agricultural Research Service of the United States Department of Agriculture and the county extension services of several southeastern Minnesota counties are cooperating with the Southeastern Minnesota Farm Management Association in maintaining a farm management service. The Southeast Minnesota Farm Management Service was organized in 1927 and began operation on January 1, 1928. The Southeastern Minnesota Farm Management Association was organized in 1939 by the farmers and now represents the farmers in determining policies and maintaining the field organization and membership. Each farmer pays an annual fee which covers a part of the cost. The balance of the cost is defrayed by the University of Minnesota and the United States Department of Agriculture.

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

The analysis of the records and the preparation of the report are handled by the Department of Agricultural Economics under the direction of T. R. Nodland. Extension work in connection with the service is handled by Paul Hasbargen and Kenneth Thomas. Harvey Bjerke was the field agent for this project. At the end of the year, Herbert Walch and Carl Pherson of the Department of Agricultural Economics 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 1966.

County	No. of records	Association Officers	County Agricultural Extension Agent
councy	records	ASSOCIATION OTTICETS	Excension Agenc
Dakota	9	Arthur Ackerman, Director	Clarence O. Quie
Dodge	15	John Chapin, Director	David H. Hanson
Freeborn	12	Arthur Ulland, Director	Eldon H. Senske
Goodhue	27	John Schwartau, Secretary	G. J. Kunau
Le Sueur	6	Lauris Krenik, Director	Robert Leary
Mower	5	Howard Brownell, Director	Don Hasbargen
Nicollet	10	Adolph Lokensgard, Director	F. E. Wetherill
Olmsted	13	Clarence Carpenter, Director	Richard Radway
Rice	11	Lloyde Little, Director	Warren Liebenstein
Scott	8	Dallas Bohnsack, Director	James Rabehl
Steele	15	Arnold Abbe, Vice President	J. R. Gute
Wabasha	10	Francis Kottschade, President	Matthias Metz
Waseca	6	Harold Trahms, Director	Roger Wilkowske
Winona	12	Edmund Luehmann, Director	Oliver Strand
Total	159		

The data for 147 farms are shown in the tables on succeeding pages. Twelve farms were omitted from all averages in the tables because the records were not sufficiently complete for a full summarization or the records were not returned for summarization following completion of income tax schedules.

Because the farmers included in this study are, in general, above the average in managerial ability and operate larger and more productive farms, they have returns materially higher than the average for this section of the state. There were, nevertheless, wide variations in the methods and practices followed by these men. It is reasonable to assume that similar variations occur among all farmers in the area. To the extent that this is true, this report would be of value to all farmers and to others interested in agriculture in that it illustrates how farm records may be used as a basis for making an analysis of a farm business and for improving the management of a farm.

	WILCOP WARDER PRODUCTION AND A CONTRACTOR OF A	r farm		Average of 147 farms	
Items	Jan. 1	Dec. 31	Jan. 1	Dec. 31	
Size of farm (acres)			000		
	****	· · · · ·	273		
Size of business (work units)**			577		
Dairy cows	\$	\$	\$4209	\$4320	
ther dairy cattle	T	T.	2756	2853	
eef cattle (incl. feeders)		And Children and An International Constrainty Names	1445	1982	
logs			3085	2682	
heep (incl. feeders)	and the second secon		86	87	
oultry (incl. turkeys)			267		
liscellaneous livestock			•	238	
	A		14	28	
Productive livestock (total) Horses	Φ	$\Phi_{\rm massesses}$	11862	12190	
	autor Sector and Sector Sector Sector Sector and	1111301-1111-000-000-000-000-0000	17	14	
rop, seed and feed	Wrong many and a second second second second		8814	11658	
uto and truck (farm share)			1267	1516	
ractors and crop machinery	Gentland in the company of the state of the company	MARKATAN DAMAGNINA DAMAGNINA DAMA	7614	9017	
ivestock equipment	CONTRACTOR OF CONTRACTOR		2241	_2366	
fachinery and equipment (total)	\$	\$	11122	12899	
Land			23331	23331	
Buildings, fences, etc.			16682	16742	
otal farm capital managed	\$	\$	\$71828	\$76834	
1971 - 1972 - 1974 - 1974 - 1974 - 1974 - 1975 - 1974 - 197	29 most p	rofitable	29 least pr	ofitable	
Items	Jan. 1	Dec. 31	Jan, 1	Dec. 31	
		an a	ланный нариальный на нарибу на клаский наридный как и пророканий странов на работ на странов на нарибу на класк	an an an a san	
Size of farm (acres)	380		211		
ize of business (work units)**	809		453		
Dairy cows	\$4474	\$4592	\$3665	\$3911	
ther dairy cattle	3182	3275	2496	2610	
		1~1)			
eef cattle (incl. feeders)	1587	1383	228	4.23	
• •	1587 7691	1383 7013	228 7402	423 1415	
ogs	7691	7013	1402	1415	
logs heep (incl. feeders)	7691 33	7013 52	1402 118	1415 104	
ogs heep (incl. feeders) oultry (incl. turkeys)	7691 33 678	7013 52 543	1402 118 177	1415 104 164	
logs bheep (incl. feeders) oultry (incl. turkeys) roductive livestock (total)	7691 33 <u>678</u> 17645	7013 52 <u>543</u> 16858	1402 118 <u>177</u> 8086	1415 104 164 8627	
logs bheep (incl. feeders) coultry (incl. turkeys) roductive livestock (total) forses	7691 33 <u>678</u> 17645 16	7013 52 <u>543</u> 16858 14	1402 118 <u>177</u> 8086 34	1415 104 164 8627 20	
logs Pheep (incl. feeders) Poultry (incl. turkeys) Productive livestock (total) Porses Prop, seed and feed	7691 33 <u>678</u> 17645 16 14576	7013 52 <u>543</u> 16858 14 20262	1402 118 <u>177</u> 8086 34 5718	1415 104 164 8627 20 7071	
logs beep (incl. feeders) coultry (incl. turkeys) roductive livestock (total) forses frop, seed and feed uto and truck (farm share)	7691 33 <u>678</u> 17645 16 14576 1576	7013 52 <u>543</u> 16858 14 20262 2079	1402 118 <u>177</u> 8086 34 5718 1044	1415 104 164 8627 20 7071 1250	
ogs heep (incl. feeders) oultry (incl. turkeys) roductive livestock (total) orses rop, seed and feed uto and truck (farm share) ractors and crop machinery	7691 33 <u>678</u> 17645 16 14576 1576 10382	7013 52 543 16858 14 20262 2079 12638	1402 118 <u>177</u> 8086 34 5718 1044 5260	1415 104 164 8627 20 7071 1250 6748	
ogs heep (incl. feeders) oultry (incl. turkeys) roductive livestock (total) orses rop, seed and feed uto and truck (farm share) ractors and crop machinery ivestock equipment	7691 33 678 17645 16 14576 1576 10382 3552	7013 52 543 16858 14 20262 2079 12638 3619	1402 118 177 8086 34 5718 1044 5260 1456	1415 104 164 8627 20 7071 1250 6748 1551	
logs bheep (incl. feeders) coultry (incl. turkeys) roductive livestock (total) corses trop, seed and feed uto and truck (farm share) ractors and crop machinery ivestock equipment achinery and equipment (total)	7691 33 678 17645 16 14576 1576 10382 <u>3552</u> 15510	$7013 \\ 52 \\ 543 \\ 16858 \\ 14 \\ 20262 \\ 2079 \\ 12638 \\ 3619 \\ 18336 \\ 152 \\ 18336 \\ 352 \\ 18336 \\ 352 \\ 352 \\ 352 \\ 18336 \\ 352 \\ 3$	1402 118 177 8086 34 5718 1044 5260 1456 7760	1415 104 164 8627 20 7071 1250 6748 1551 9549	
ogs heep (incl. feeders) oultry (incl. turkeys) roductive livestock (total) orses rop, seed and feed uto and truck (farm share) ractors and crop machinery ivestock equipment achinery and equipment (total) and	7691 33 678 17645 16 14576 1576 10382 3552 15510 38180	7013 52 543 16858 14 20262 2079 12638 3619 18336 38180	1402 118 177 8086 34 5718 1044 5260 1456 7760 17096	1415 104 164 8627 20 7071 1250 6748 1551 9549 17096	
Beef cattle (incl. feeders) Hogs Sheep (incl. feeders) Poultry (incl. turkeys) Productive livestock (total) Horses Brop, seed and feed Auto and truck (farm share) Fractors and crop machinery ivestock equipment Lachinery and equipment (total) And Huildings, fences, etc.	7691 33 678 17645 16 14576 1576 10382 <u>3552</u> 15510	$7013 \\ 52 \\ 543 \\ 16858 \\ 14 \\ 20262 \\ 2079 \\ 12638 \\ 3619 \\ 18336 \\ 152 \\ 18336 \\ 352 \\ 18336 \\ 352 \\ 352 \\ 352 \\ 18336 \\ 352 \\ 3$	1402 118 177 8086 34 5718 1044 5260 1456 7760	1415 104 164 8627 20 7071 1250 6748 1551 9549	

Table 1. Summary of Farm Inventories, 1966*

* For the purpose of comparison, all the data shown in this report, with the exception of tables 4 and 5, are presented on a full-owner basis. The assets, expenses, and receipts of the landlord were included in the records from rented farms.

** See page 20 for an explanation of "work units."

	an ann an thè an ann ann an ann an thè ann ann an Ann a	Average	29 most	29 least
	Your	of 147	profitable	profitable
The second	farm	farms	farms	farms
Items FARM RECEIPTS	14111	Taring	LG T DIO	
	¢	\$3114	\$3311	\$2844
Dairy cattle sold	Ψ	10455	11388	8066
Dairy products sold	44.305-1240-021-04820-0220-0230-0280		2381	119
Beef cattle (incl. feeders) sold	NAMES AND A DAMES SAVED	1780 8568	22268	
Hogs sold	and and the second second second			3159 204
Sheep and wool sold		98	38	
Horses sold	anati wanati bana manati	5	1:06	17
Poultry (incl. turkeys) sold		181	426	53
Eggs sold		1316	380 3	846
Corn sold		1926	3201	1192
Soybeans sold	-	1660	3742	625
Small grain sold	. Internet of the second second second	371	344	299
Other crops sold	And the second statement of the second s	2272	3656	958
Machinery and equipment sold	terror and the state of the second state of th	223	360	215
Income from work off the farm	energy and the state of the sta	690	409	497
Miscellaneous farm income	A	476	493	340
Total farm sales	\$	\$33135	\$55820	\$19434
Increase in farm capital	and the state of the state of the state	5006	8758	3315
Family living from the farm	*	321	321	298
Total farm receipts	\$	\$38462	\$64899	\$23047
FARM EXPENSES				
Dairy cattle bought	\$	\$ 225	\$88	\$ 362
Beef cattle bought (incl. feeders)	* 000000000000000000000000000000000000	933	844	126
Hogs bought	an all and a second	377	473	690
Sheep bought	CANADARCING STREET, DAALCOARC STREET	5	c =	(127)
Horses bought	CONTRACTOR STATE OF THE REAL PROPERTY OF THE PARTY	1	C2	cm0
Poultry bought (incl. turkeys)	Conferencial and the second and the second sec	186	360	134
Miscellaneous livestock expense	CALIFORNY CONTRACTOR OF CO	855	1080	630
Feed bought	Contractions of the Contraction	4812	9405	3165
Fertilizers bought	CONCERNMENT OF THE OWNER OWNER OF THE OWNER O	1787	3214	1015
Other crop expenses	WHEN THE REPORT OF THE PARTY OF	1665	2882	875
Custom work hired		1083	1312	734
Gas, oil and grease bought (farm share		1096	1417	868
Repair truck and auto (farm share)		362	465	298
Repair and upkeep of farm real estate		428	569	369
Repair and upkeep of tract.& cr. mach.	438000440000000000000000000000000000000	865	1260	631
Repair and upkeep of livestock equip.	white and the strength of the	201	297	149
Wages of hired labor		1079	1592	638
Electricity expense (farm share)		396	531	288
Pers. prop. and real estate taxes	CHERT MEANING CONTRACTOR	1611	2099	1223
Telephone and general farm expense		506	722	408
Total cash operating expenses	¢	\$18473	\$28610	\$12603
Trucks and autos bought (farm share)		594	1032	525
Crop and power machinery bought		3221	5162	2713
Livestock equipment bought		544	669	343
New real estate and improvements	Conception and a conception of the second	1256	2817	517
-	¢	\$24088	\$38290	\$16701
Total farm purchases Decrease in farm capital		φωποσο		4
Interest on farm capital	Sand Charles with an an an an an an an and	3717	5708	2594
Unpaid family labor	144.0.200700187	836	1288	994
Board furnished hired labor	ereitigene Territikeiterritikeitigen	71	57	101
Total farm expenses	\$	\$28712	\$45343	\$20390
Labor earnings	Ύ Ś	\$ 9750	\$19556	\$ 2657
Tanar Garmingo	Y CALIFORNIA CONTRACTOR	Ψ 2120	*-///~	· ····································

Table 2. Summary of Farm Earnings (Cash Statement), 1966

		Average	29 most	29 least
	Your	of 147	profitable	profitable
Items	farm	farms	farms	farms
RETURNS AND NET INCREASES Dairy cows Other dairy cattle Beef breeding herd Feeder cattle Hogs Sheep, farm flock Sheep, feeders Chickens All productive livestock Value of feed fed to livestock Return over feed from livestock Crop, seed and feed Income from labor off the farm Miscellaneous farm income	\$\$	\$10693 3285 245 1049 7835 94 <u>1304</u> 24505 <u>13868</u> 10637 14593 362 476	\$11516 3698 95 1164 21190 57 <u>3743</u> 41463 <u>22536</u> 18927 23587 215 493	\$8255 2971 54 120 2512 191 <u>803</u> 14906 <u>9376</u> 5530 8661 182 340
Total returns and net increases EXPENSES AND NET DECREASES Horses Truck Auto (farm share) Electricity (farm share) Hired power Tractors and crop machinery Livestock equipment Buildings, fencing, and tiling Miscellaneous productive livestock Labor Real estate taxes Personal property taxes General farm expense and telephone Interest on farm capital	\$ * exp.	$ \begin{array}{r} 26068 \\ 367 \\ 524 \\ 396 \\ 737 \\ 3074 \\ 601 \\ 1612 \\ 840 \\ 2331 \\ 1354 \\ 257 \\ 506 \\ 3717 \\ \end{array} $	43222 \$ 3 562 671 531 889 4812 879 2350 1080 3360 1782 317 722 5708	14713 * -2 262 492 288 488 2111 389 1195 630 1978 1020 203 408 2594
Total expenses and net decreases Labor earnings		16318 9750	23666 19556	12056 2657

Table 3. Summary of Farm Earnings (Enterprise Statement), 1966

* 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, 1966 (Operator's Share)	
	Assets and Tradititutes, 1900 (Oberator's Duare)	

922/002/002/002/002/002/002/002/002/002/	Your	farm	23 Owners		
Items	Jan. 1	Dec. 31	Jan. 1	Dec. 31	
Total acres in farm			21.6		
Acres owned			216		
Acres rented			EX3		
Total farm capital	\$	\$	\$59389	\$63892	
Stocks and bonds			2749	3415	
Life insurance cash value			3124	3405	
Notes and accounts receivable			1361	1756	
Shares in cooperative organizations			949	1092	
Outside real estate	SCOULDER CONTRACTIONS CONTRA	Additional and a state and a state	57	662	
Cash on hand and in bank	and the second sec		3892	3092	
Household furnishing and clothing	OR DESIGNATION OF SECONDER EXCESS	ACTIVITY AND A CONTRACT OF	2636	2754	
Personal share of auto and truck		and the company of the second s	509	659	
Farm dwelling		ALL DESCRIPTION OF A DE	4796	4999	
Total non-farm assets	\$	\$	20073	21834	
Total assets	\$	\$	79462	85726	
Mortgages on farm operated		CONTRACTOR (MILLING) (CONTRACTOR)	18031	17968	
Mortgages on other real estate		ear artist Joseposis (or tradicise 1994 r. Sea and	20	212	
Chattel mortgages	Contraction of the Contraction of the		3966	5164	
Notes payable	CONC. NON ACCOUNT. ON ACCOUNT. ON ANY ANY ANY ANY		5914	5603	
Accounts payable	BUTTER AND THE REPORT OF THE REPORT OF		484	288	
Total liabilities			28415	29235	
Farmer's net worth			51047	56491	
Change in net worth	Tentility and an and a second second		<u></u>	+5444	

n an	14 part.	owners	na ny zavrzeniech in za erektikower zwe cinin zach zach zach zur die nach werden de ze zeiten eine solen zur d
Items	Jan. 1	Dec. 31	
lotal acres in farm	345	а, у зарали на или и различни на ники конструкци и полици на	
Acres owned	199		
Acres rented	146		
Fotal farm capital	\$67055	\$73198	
Stocks and bonds	5994	6016	
Life insurance cash value	2856	3179	,
Notes and accounts receivable	714	705	
Shares in marketing organizations	1482	1602	
Outside real estate	906	964	
Cash on hand and in bank	2916	3005	
Household furnishings and clothing	3502	3610	
Personal share of auto and truck	725	604	
Farm dwelling	3472	3378	
fotal non-farm assets	22567	23063	
Total assets	89622	96261	
Mortgages on farm operated	17825	16990	
Mortgages on other real estate	354	354	
Chattel mortgages	7814	6955	
Notes payable	8321	9243	
Accounts payable	749	735	
Fotal liabilities	35063	34277	
Farmer's net worth	54559	61984	
Change in net worth		+7425	

Items	Your farm	36 owners	22 part owners
FARM RECEIPTS		O MISOT D	0.101.0
Dairy cattle sold	\$	\$2607	\$3997
Dairy products sold		9804	12860
Beef cattle sold (including feeders)	NALES (Transistic and Branchick and Constraints)	1538	1688
Hogs sold		8366	5496
Sheep and wool sold (including feeders)		74	83
Horses sold		12	
Poultry sold (including turkeys)	winater constitution of the constitution of the constitution	223	46
Eggs sold	AND COMPANY AND ADDRESS OF COMPANY	2188	587
Corn sold	Carterioscience and an	948	3640
Soybeans sold		843	2367
Small grain sold	CARLE SHITTLENGTHERE AND AND THE TOP TOP	221	
Other crops sold			391
•	MARCHINE CONTRACTOR CONTRACTOR	1949	2553
Machinery and equipment sold		217	236
Income from work off the farm		517	708
Miscellaneous farm income	A MARK PERMIT	414	<u> </u>
(1) Total farm sales	\$	29921	35299
(2) Increase in farm capital		3969	6491
(3) Family living from the farm		315	
(4) Total farm receipts $(1)+(2)+(3)$	\$	34205	42097
FARM EXPENSES			· · ·
Dairy cattle bought	\$	\$ 165	\$ 289
Beef cattle bought (including feeders)		1069	655
Hogs bought	Construction of the second sec	384	89
Sheep bought (including feeders)		5	8
Horses bought		í	-
Poultry bought (including turkeys)	Carlos Construction of Society Street Society (Society Society)	250	142
Miscellaneous livestock expense		765	965
Feed bought	COMPANY DESCRIPTION OF THE PARTY OF THE PART	4726	4576
Fertilizers bought		1455	2109
Other crop expenses	CONC. INTERNET INTERNET CONC. INC.	1330	1799
Custom work hired		973	1325
Gas, oil and grease bought (farm share)		972	
Repair and upkeep power and crop machinery			1198
Repair and upkeep real estate	CERCICAL AND COMPANY OF COMPANY OF COMPANY OF COMPANY	1173	1312
Repair and upkeep lear estate Repair and upkeep livestock equipment		385	387
Wages of hired labor	**************************************	203	210
		797	1593
Electricity expense (farm share)		367	429
Real estate and personal property taxes Cash rent		1329	1248
			2128
General farm expense		479	510
Interest paid	Lange and the second second	1238	1701
Total cash operating expense		18066	22673
Irucks and autos bought (farm share)	Control of the second sec	535	814
Crop and power machinery bought	CONTROL AND CONTROL OF THE CONTROL O	2271	3966
Livestock equipment bought		568	566
Farm purchase and real estate improvements	. Contract and a contract and the	1460	<u> 1819</u>
(5) Total farm purchases	\$	22900	29838
(6) Decrease in farm c apital		3 60	ക
(7) Interest on operator's farm capital	Construction of the AND Development	1775	1803
(8) Unpaid family labor	And the subscription to any the subscription	385	317
(9) Board furnished hired labor		88	71
10) Total farm expenses (5)+(6)+(7)+(8)+(9)	\$	25148	32029
11) Labor earnings (4)-(10)	S.	9057	10068
12) Return to capital & family labor $(7)+(8)+(11)$	Y	11217	12188
1 , mouth of captoat α ramitly tabout (//T(0/T(11)))		1461(TSTOO

- 7 -

Items	Your farm	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	eachaile an	5.0	5.5	4.2
Number of adult equivalent - family other*	COSTONES COMPANY CONSTRUCTION	4.2 .2	4.6	3.5 .2
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 expenses Church and welfare Personal share of auto expense Upkeep on dwelling Pers. share of tel. & elec. expense		\$1316 400 428 493 127 382 107 218 677 274 216 74 160	\$1488 538 801 558 192 483 214 405 792 514 270 75 164	\$1207 385 174 334 121 245 46 126 526 159 199 66 138
Total cash living expense Personal share of new autos New dwelling Taxes Life insurance Other savings and investments		4872 217 108 648 514 1078	6494 538 342 1948 648 <u>2764</u>	3726 163 76 244 355 193
Total household and pers. cash expense	\$	7437	12734	4757
Family living from the farm		334	314	291
Total cash expenses and perquisites	\$	7771	13048	5048
RECEIPTS				
Return to capital and family labor Income from outside investments Other personal income	\$	\$12230 308 373	\$22169 626 415	\$5035 199 422

Table 6. Household and Personal Expenses for Those Farms Which Kept Complete Accounts of These Expenses, 1966

* Hired help or others boarded.

Items	Your farm	Average of 147 farms	Your farm	Average of 147 farms
No. of adult equivalents: Family Other*	edistered a state state of the	4.0 。1		
Whole milk Cream Cattle Hogs Sheep Poultry Eggs		1195 qts 5 pts 747 lbs 216 lbs 2 lbs 32 lbs 54 doz		\$ 98 1 152 47 6 17
				\$321

Table 7. Family Living from the Farm, 1966

* Hired help or others boarded.

CUMULATIVE EFFECT OF EXCELLING IN A NUMBER OF MANAGEMENT FACTORS

Studies of earnings of farmers in this area show that there are seven major management factors causing variations in earnings among farmers within a given year. These seven factors are (1) crop yields, (2) choice of crops, (3) returns from livestock, (4) amount of livestock, (5) size of business, (6) work accomplishments per worker, and (7) control over expenses.¹ The combined or cumulative influence of these seven management factors on earnings is shown in Table 8. The farmer's earnings are determined to a considerable extent by his accomplishments in these seven factors.

Number of factors in which farmer excels	No. of farms	Your farm	The length of the shaded lines is in proportion to the average operator's labor earnings	Average labor earnings
0 or 1 2 3 4 5 6 or 7	17 26 38 35 16 15		XXXXXXXXXX XXXXXXXXXXXXXXXXX XXXXXXXXX	\$4809 8599 8637 9268 13067 17749

Table 8. Relation of Labor Earnings to the Number of Factors in Which the Farmer Excels

The array in Table 8 indicates that it will be worth while for each cooperator to study carefully his ranking on pages 10 and 11, and learn his standing in respect to each of the above factors and the elements of strength and weakness in his farm business.

¹Pond, G.A. and Nodland, T.R., "Some Factors Affecting Earnings of Farmers in Southeastern Minnesota, 1950-1959." University of Minnesota Department of Agricultural Economics Report No. 261, December 1961.

Measures used in chart on page ll	Your farm	Average of 147 farms	29 most profitable farms	29 least profitable farms
Labor earnings	\$	\$9750	\$19556	\$2657
Crop yields*		100	105	88
Percent till. land in high ret. crops*	**	58.9	63.1	54.4
Ret. for \$100 feed to prod. livestock*	***	100	109	89
Prod. livestock units per 100 acres***	**	38,5	52.6	32.8
Size of business - work units	and the state of t	57 7	809	453
Work units per worker		361	426	302
Power, mach., equip., & bldg. expense per work unit	\$	\$13.76	\$14.77	\$13.23
Items related to some of the above mea	asures:	na an na bha na ann an Ann	unner min i anvende en nije tilge fra de fra son en generale gependeze	nan - Hara an ann an Airth an
Index of return for \$100 feed from: Dairy cattle (see pages 16 and 17) Beef cattle - breed, herd (see p. 18 Beef cattle - feeders (see p. 18)	3)	100 100 100	106 104 89	88
Hogs (see page 15) Sheep – farm flock (see page 19) Chickens (see page 20)		100 100 100	106 108	85 95 96
Number of animal units	a the second second	78.5	124.8	54.9
Work units on crops Work units on productive livestock Other work units		120 426 31	176 614 19	87 349 17
Number of family workers Number of hired workers Total number of workers		1.3 <u>.3</u> 1.6	1.4 <u>.5</u> 1.9	1.3 <u>.2</u> 1.5
Power & crop mach. exp. per work unit Livestock equip. exp. per work unit Bldg. & fencing exp. per work unit	\$	\$9.76 .99 3.01	\$10.57 1.02 3.18	\$9.24 .85 3.14

Table 9. Measures of Farm Organization and Management Efficiency, 1966

* Given as a percentage of the average.

** Crops are marked in table 10 as A, B, C, and D. All of acres in A crops, onehalf of acres in B crops, and one-fourth of acres in C crops are used in calculating percent of tillable land in high return crops.

*** An index weighted by the animal units of livestock.

**** Acres in timber not pastured, roads, waste and farmstead were not included.

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

	aga kang sa	04112-1122-1122-1122-1122-1122-1122-1122	4,	Return			Work	Pow.,	
	Labor earn-		High retur			s Work	units per	eq., & exp.	
07-00-07-00-0-0-0-0-0-0-0-0-0-0-0-0-0-0	ings	yield							
21800		140	83.0	- 140	78.0	980	600	\$6.00	
20300		135	80.0	135	73.0	930	570	7.00	
18800		130	77.0	130 =-	68.0	880	540	8.00	
17300		125	74.0	125	63.0	830	510	9.00	
15800		120	71.0	120	58.0	780	480 = 1	10.00 =	
14300		115	68.0	115	53:0	730	450	11.00	
12800		110	65.0	110	48.0	680	420	12.00	
11300		105	62.0		43.0	630	390		000000
9800		100	59.0	100	38.0	580	360	14.00	
8300		95	56.0	95	33.0	530	330	15.00	,
6800		90	53.0	90	28.0	480	300	16.00	
5300		85	50.0	85	23.0	430 E	279	17.00	
3800		80	47.0	80	18.0	380	240	18.00	
2300		75	44.0	75	13.0	330	210	19.00	
800		70	41.0	70	8.0	280	180	20.00	
-700		65	38.0	65	3.0	230	150	21.00	. 2
	8	5	5	E S	B	Ð		5	enter versamet av

Items	Crop ratings*	Number growing this crop	Your farm	Average of 147 farms	Ave. per farm raising each crop
Canning peas Wheat Oats for silage Oats for grain Barley Rye or flax Total small grains and peas	B C D D D or C	17 30 21 122 11 2 136		3.8 2.7 2.1 22.0 1.9 .2 32.7	32.7 13.2 15.0 26.5 25.2 28.0 35.4
Corn grain Soybeans for grain Sweet corn Corn silage Corn fodder Total cultivated crops	A B B B	146 84 14 102 1 147		74.1 31.8 4.9 10.3 - 121.1	74.6 55.7 51.1 14.9 6.0 121.1
Alfalfa hay Other legume hay Other tame hay Annual hay Legume seed Total tillable land in hay	B C D D D	137 3 2 14 2 138		36.8 .4 .2 .7 <u>.1</u> 38.2	39.4 19.7 11.3 7.7 10.0 40.6
Alfalfa pasture Other tillable pasture Total tillable land in pasture	D	84 40 103		$ \begin{array}{r} 12.3 \\ \underline{2.6} \\ 14.9 \end{array} $	21.5 9.4 21.2
Feed-grain program (diverted acres) Tillable land not cropped Total tillable land	B D	75 20 147	Canada a farman a farman a farma	19.2, <u>.8</u> 226.9	37.5 5.9 226.9
Wild hay Non-tillable pasture Timber not pastured Roads and waste Farmstead Total acres in farm		9 85 60		.5 19.2 8.7 9.7 <u>7.8</u> 272.8	8.6 33.4 21.2
Percent land tillable Percent tillable land in high retur	n crops		Katolika na mata mata mata mata ang tang ta	83.4 58.9	

Table 10. Distribution of Acres in Farm, 1966

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

Items	Your farm	Average of farms growing each crop
Canning peas, dollars Wheat, bu. Oats for silage, tons	\$	\$59.50 27.7 9.7
Oats for grain, bu. Barley, bu. Corn grain, bu.		61.7 44.1 91.0
Soybeans, bu. Sweet corn, tons Corn silage, tons		26.4 5.5 15.0
Alfalfa hay, tons Other legume hay, tons Annual hay, tons		3.4 2.5 2.7
Feed-grain program, dollars	\$	\$58.10

Table 11. Crop Yields per Acre, 1966

Table 12. Average Price of Feeds, 1966

Items	Value	Items	Value
Ear corn, per bu. Oats,per bu.	\$1.19 .66	Alfalfa hay, per ton Timothy, per ton	\$21.00 12.20
Barley, per bu.	1.02	Wild hay, per ton	10.50
Wheat, per bu.	1.65	Corn silage, per ton	7.30
Soybean meal, per cwt.	5.25	Pasture, per mo. per cow	

TOTAL FEED COSTS AND RETURNS FROM YOUR LIVESTOCK ENTERPRISES

The total "return over feed costs" for each class of livestock is shown in table 13. This differs from the "return over feed" shown in the enterprise statement in that it is the total for each class of livestock instead of a return "per head," "per unit," or "per 100 pounds." These data indicate the relative importance of different classes of livestock as a source of income and as a market for feed. The total return is the same as the return and net increases shown on page 5. The value of milk consumed by calves is included in the total returns from dairy cows and in the total feed cost for other dairy cattle. The value of milk consumed by calves is not included in either the total returns or the feed cost for "all dairy" cattle. The return over feed is not a net return, but rather the amount available from the gross income, after paying the feed bill, to cover the outlay for hired labor, power, equipment, taxes, insurance, interest, and veterinary bills, and to provide a return for the use of family labor and capital.

		Dairy cattle		Beef breeding
Items	Cows	Other	A11	herd
Total returns	\$	\$	\$	\$
Total feed cost				
Total return over feed		•===		
Items	Feeder Cattle	Hogs	Farm Flock of Sheep	Chickens
<u>Items</u> Total returns		Hogs \$		Chickens \$
and and the first of the first			of Sheep	

Table 13. Total Feed Costs and Returns from Your Livestock Enterprises, 1966

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

			71 farms with breeding stock			
Items	Your farm	Average of 84 farms	Average of 71 farms	14 farms highest in returns	14 farms	13 farms with purchased feeder pigs
Feed per cwt. hogs produced, lbs.:						
Corn		340	350	292	414	291
Small grain		52	55	27	9 9	-33
Commercial feeds		73	74	68	80	70
Total concentrates		465	479	387	593	394
Feed cost per cwt. produced	\$	\$12.69	\$12.90	\$10.54	\$15.84	\$11.51
Net increase in value per cwt. produced	T merende and the second second	20.54	21.12	22.32	20.01	17.35
Return above feed cost per cwt. prod.		7.85	8.22	11.78	4.17	5.84
RETURNS FOR \$100 OF FEED	\$	\$167	\$169	\$214	\$128	\$159
Price received per cwt. sold	\$	\$23.06	\$22.97	\$23.44	\$22.35	\$23.62
Fotal number of litters raised		35.6	42.1	66.4	21.4	" .
Number of pigs born per litter		8.9	9.0	9.4	7.9	ettina.
Number of pigs weaned per litter	*****	7.3	7.3	7.9	6.2	(11)
Number of feeder pigs purchased		25	4		CB	143
Fotal weight of feeders purchased		874	128	-	<u>حته</u>	4949
Price paid per feeder pig		\$18.75	\$17.66			\$19.15
Pounds of hogs produced	1971-1981-1971-1971-1971-1971-1970-1970-1970-197	64341	70968	117491	27619	28128

Table 14. Feed Costs and Returns from Hogs, 1966

Table 15. Factors of Cost and Returns from Dairy Cows, 1966

Items	Your farm	Average of 109 farms	22 farms highest in butterfat per cow	22 farms lowest in butterfat per cow
Pounds of butterfat per cow Pounds of milk per cow* Percent of butterfat in milk		401 10729 3.8	501 13356 3.7	295 7585 3.9
Price received per pound BF sold (ϕ) Price received per cwt. milk sold*	\$	111.2 \$4.17	112.1 \$4.12	107.7 \$4.21
Feeds per cow, lbs.: Corn Small grain Commercial feeds		3124 757 1001	3932 1005 609	2701 584 501
Legume hay Other hay		5320 202	6014 183	3965 142
Total concentrates Total hay Silage		4882 5522 8771	5546 6197 9502	3786 4107 7989
Feed cost per cow: Concentrates Roughages Pasture TOTAL FEED COST	\$ \$	\$119.34 88.31 <u>8.96</u> \$216.61	\$134.48 97.69 <u>7.26</u> \$239.43	\$ 94.76 71.31 <u>10.54</u> \$176.61
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	\$ \$	\$434.93 4.60 3.87 <u>3.22</u> \$446.62	\$537.21 4.11 4.41 <u>16.20</u> \$561.93	\$308.10 4.67 4.43 <u>64</u> \$316.56
RETURNS ABOVE FEED COST PER COW	\$	\$230.01	\$322.50	\$139.95
RETURNS FOR \$100 OF FEED	\$	\$211	\$242	\$182
Feed cost per pound BF (cents)	and the former margin and participations	54.0	47.8	59.9
Number_of_cows**		31.5	34.6	28.3

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

₩	Vour	Average of 109	22 farms highest in butterfat	22 farms lowest in butterfat
Items	Your farm	farms	per cow	per cow
Feed per head, lbs.: Concentrates Hay Silage Skim milk Whole milk		979 1959 2785 7 104	1100 1921 2861 - 97	987 1883 2950 34 172
TOTAL FEED COSTS PER HEAD	\$	\$64 .53	\$66.97	\$64.74
Net increase in value of other dairy cattle	\$	\$103.37	\$122.98	\$ 92 .90
RETURNS ABOVE FEED COST PER HEAD	\$	\$38.84	\$56.01	\$28.16
RETURNS FOR \$100 OF FEED	\$	\$172	\$194	\$148
Number of head of other dairy catt	le	39.7	49.6	26.9

Table 16. Feed Costs and Returns from Other Dairy Cattle, 1966

Table 17. Feed Costs and Returns from All Dairy Cattle, 1966

Items	Your farm	Average of 109 farms	22 farms highest in butterfat per cow	22 farms lowest in butterfat per cow
Feed per cow, lbs.: Concentrates Hay Sîlage		6372 8092 12669	7611 9222 14754	5339 6215 11529
TOTAL FEED COSTS PER COW	\$	\$302.38	\$350.11	\$255.18
Value of produce per cow: Dairy products Net increase in value of dairy cattle TOTAL VALUE PRODUCED	\$ \$	\$439.54 <u>146.37</u> \$585.91	\$541.32 225.56 \$766.88	\$312.77 <u>118.71</u> \$431.48
RETURNS ABOVE FEED PER COW	\$	\$283.53	\$416.77	\$176.30
RETURNS PER \$100 OF FEED	\$	\$199	\$225	\$173

	TF	Average
Items	Your farm	of all farms
Beef breeding herd: No. of farms:		8
Feed per animal units, lbs.:	****	8
Concentrates		731
Legume hay		3112
Other hay		
Silage	Samaly refered - a construction of particular	3844
Feed cost per animal unit: Concentrates	сторания и страния. ф	\$19.11
Roughages	Ψ	46.74
Pasture		21.14
TOTAL FEED COST	\$	\$86.99
TOTAL VALUE PRODUCED PER ANIMAL UNIT	\$	\$110.40
RETURNS ABOVE FEED COST PER ANIMAL UNIT	\$	\$23.41
	Ψ	•
RETURNS FOR \$100 OF FEED	\$	\$132
Pounds of beef produced		13751
Number of cows and herd bulls		31.7
Number of other beef cattle		30°2
Number of animal units in the herd	**************************************	34.4
Feeder cattle: No. of farms:		24
Feed per cwt. beef produced, lbs.:		₩ *₩ <u>**₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩</u>
Corn		603
Small grain		23
Commercial feeds	*******	52
Legume hay		348
Other hay	Print Charles Print Conception Carlos	7
	and the second	·
Total concentrates		678
Total hay and fodder		355
Silage	needECSANDEEnvironmeng geoeddad	812
Feed cost per cwt. beef produced:		
Concentrates	\$	\$16.18
Roughages		6.66
Pasture	¢	<u>.31</u> \$23.15
TOTAL FEED COST NET INCREASE IN VALUE OF FEEDERS	\$	24.18
	Ф	
RETURNS ABOVE FEED COST PER CWT. BEEF PRODUCED	Ф	\$1.03
RETURNS FOR \$100 OF FEED		\$110
Price paid per cwt. beef bought	\$	\$25.26
Price received for feeder cattle sold	\$	22.78
Number of animal units		46.4
Pounds of beef produced		27082

Table 18. Feed Costs and Returns from Beef Cattle, 1966

	Your	Average of 13
Items	farm	farms
Feeds per ewe, lbs.:*		
Concentrates		226
Legume hay		589
Other hay		20
Silage		67
Feed cost per ewe:		
Concentrates	\$	\$5.65
Roughages		6.65
Pasture		3.26
TOTAL FEED COSTS	\$	\$15.56
Value of produce per ewe:	and the second	
Wool	\$	\$7.19
Net increase in value of sheep	A CONTRACTOR OF A CONTRACTOR	17.01
TOTAL VALUE PRODUCED	\$	\$24.20
RETURNS ABOVE FEED COST PER EWE	\$	\$8.64
RETURNS FOR \$100 OF FEED	\$	\$167
		400 0r
Price per cwt. of lambs sold Price per pound of wool sold (cents)	P	\$23 .9 5 68 . 1
Pounds of wool per sheep sheared		9.5
rounds of woor per sneep sneared	*************************************	70)
Percent lamb crop**		101
Percent death loss**		5.3
Pounds of sheep produced		3575
Number of head of ewes		42
Withol. Of Head of emer		· · · · · · · · · · · · · · · · · · ·

Table 19. Feed Costs and Returns from a Farm Flock of Sheep, 1966

* Includes feeds and returns from lambs.

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

Items	Your farm	Average of 25 farms	l2 farms highest in return above feed	12 farms lowest in return above feed
Feed per hen, lbs.: Grain Commercial feeds Total concentrates		80 <u>38</u> 118	76 <u>34</u> 110	83 <u>41</u> 124
TOTAL FEED COST PER HEN	\$	\$3.71	\$3.52	\$3.84
Value of produce per hen: Eggs sold and used in house Net increase in value of chickens TOTAL VALUE PRODUCED	\$ \$	\$5.52 <u>47</u> \$5.05	\$6.19 17 \$6.02	\$4.83 <u>79</u> \$4.04
RETURNS ABOVE FEED COST PER HEN	\$	\$1.34	\$2.50	\$.20
RETURNS FOR \$100 OF FEED	\$	\$141	\$176	\$108
Price rec'd per dozen eggs sold (ϕ) Eggs laid per hen		33.1 198	33.9 219	32.4 179
Ave. number hens on farm during year Percent of hens that are pullets Percent death loss of hens		1239 70 7	2008 68 7	488 71 7
Number of chicks bought: Pullets Cockerels		966 39	1898 8	115 32
Number of pullet hens bought Number of old hens bought		394 8	409	358 17

Table 20. Feed Costs and Returns from Chickens, 1966*

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

EXPLANATION OF "WORK UNITS"

The total "work units" for any one farm is a measure of the size of that farm business. A work unit as used in this report is the average accomplishment of a farm worker, in a ten hour day, working on crops and productive livestock at average efficiency, or ten hours of work off the farm for pay. The number of work units for each class of livestock and each acre of crop are presented in Table 21.

Table 21. Number of Work Units for Each Class of Livestock and Each Acre of Crop

Items	Number of work units	Items	Number of work units
Dairy cows Other dairy cattle Beef breeding herd Feeder cattle Sheep, farm flock Sheep, feeders Hogs Turkeys Hens	<pre>10.0 per cow 3.5 per an. unit* 3.5 per an. unit* .25 per 100 lbs. 1.5 per an. unit* .3 per 100 lbs2 per 100 lbs5 per 100 lbs. 20.0 per 100 hens</pre>	Items Small grain Sugar beets Sweet corn Corn husked Corn hogged Corn shredded Corn silage Corn fodder Alfalfa hay Soybean hay	.5 per acre 1.5 per acre .7 per acre .7 per acre .4 per acre 1.5 per acre 1.0 per acre 1.0 per acre .6 per acre .8 per acre
Canning peas Soybeans for grain	.5 per acre .5 per acre	Other hay crops Labor off the farm	.4 per acre 10.0 per \$12

* Animal unit represents one dairy cow or bull, two other dairy cattle, $l_{4}^{\frac{1}{4}}$ beef cows or bull, 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 1,100 pounds of turkeys produced. Table 22. Summary by Years

Items	Average 1928-29	Average 1930-34	Average 1935-39	Average 1940-44	Average 1945-49	Average 1950-54	Average 1955-59	Average 1960-64	1964	1965	1966
Number of farms Acres in farm Crop acres in farm Farm inventory	148 170 116 \$24574	140 199 136 \$19851	149 218 147 \$20286	177 227 148 \$25912	169 223 148 \$31402	162 226 155 \$42663	165 235 162 \$49342	158 256 178 \$60988	155 264 186 \$66076	149 269 188 \$68438	147 273 192 \$74331
Farm earnings FARM EXPENSES Cattle bought Hogs bought Sheep bought Poultry bought	\$ 141 85 6 37	\$ 83 52 14 41	\$ 213 72 94 80	\$ 44 <u>1</u> 154 64 142	\$ 485 194 64 176	\$ 902 202 35 154	\$1148 258 143 124	\$1450 386 88 154	\$1069 298 30 176	\$ 852 383 4 102	\$1158 377 5 186
Horses bought Misc. livestock expense Misc. crop expense Feed bought	36 66 186 440	33 64 160 313	43 94 222 535	32 124 301 1273	14 228 701 1954	6 359 1010 2241	6 530 1528 2747	2 731 2011 3735	3 778 2569 3887	2 807 2851 3957	1 855 3452 4812
Custom work hired Power, mach.& equip. (new & upkeep) Buildings (new) Buildings (upkeep)	- 661 130 52	498 81 32	907 245 79	165 1253 331 188	401 2687 778 323	552 3609 983 368	745 4261 982 320	857 4764 1229 344	951 5217 1492 315	962 5761 1475 378	1083 7279 1256 428
Hired labor Taxes and insurance General farm expense*	272 298 30	243 313 28	398 281 <u>35</u>	585 303 52	849 449 	857 736 136	878 1001 176	922 1497 213	972 1683 236	997 1742 243	1079 1611 506
Total farm purchases Decrease in farm capital Board to hired labor Interest on farm capital Unpaid family labor	\$2440 102 1228 358	\$1955 230 87 992 <u>261</u>	\$3298 145 1014 239	\$5408 158 1296 326	\$9396 174 1570 511	\$12150 166 2133 496	\$14847 134 2467 540	\$18383 101 3049 629	\$19676 274 101 3304 705	\$20516 84 3422 836	\$24088 71 3717 836
Total farm expense	\$4128	\$3525	\$4696	\$7188	\$11651	\$14945	\$17988	\$22162	\$24060	\$24858	\$28712

* Insurance included with general farm expense.

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Items FARM RECEIPTS	Average 1928-29	Average 1930-34	Average 1935-39	Average 1940-44	Average 1945-49	Average 1950-54	Average 1955-59	Average 1960-64	1964	1965	1966
Cattle	\$ 753	\$ 431	\$ 713	\$1335	\$2022	\$2981	\$3532	\$4749	\$4803	\$4669	\$4894
Dairy products	1662	1188	1451	2138	4080	4702	6032	8105	9370	9582	10455
Hogs	1164	793	1074	2517	3598	4253	4653	5961	5745	6360	8568
Sheep and wool	52	60	200	186	232	171	272	222	181	89	98
Poultry	140	166	381	629	672	354	212	88	64	135	181
Eggs	275	243	372	751	1319	1297	1075	1015	1141	901	1316
Horses	30	27	55	34	20	14	8	4	6	1	5
Corn	37	62	153	121	335	766	1926	1594	1778	1649	1926
Small grain	241	177	357	278	659	495	481	624	531	446	371
Other crops	163	155	174	455	819	853	1334	2181	3107	3421	3932
Income from labor off farm	102	118	168	141	178	182	269	239	325	343	362
Miscellaneous	134	212	477	536	528	684	729	882	1135	1005	1027
Total farm sales Increase in farm capital Family living from farm	\$4753 617 325	\$3632 232	\$5575 524 <u>273</u>	\$9121 921 566	\$14462 1411 <u>715</u>	\$16752 1905 620	\$20523 941 304	\$25664 601 <u>307</u>	\$28186 <u>298</u>	\$28601 3604 293	\$33135 5006 ' 321 టి
Total farm receipts	\$5695	\$3864	\$6372	\$10608	\$16588	\$19277	\$21768	\$26572	\$28484	\$32498	\$38462
Total farm expenses	4128	3525	4696	7188	11651	14945	17988	22162	24060	24858	28712
Labor earnings	1567	339	1676	3420	4937	4332	3780	4410	4424	7640	9750
MISCELLANEOUS ITEMS Yield per acre: Corn (bu.) Barley (bu.) Oats (bu.) Alfalfa (tons)	44.8 36.0 46.0 3.0	43.4 26.2 40.0 2.3	47.2 28.7 43.4 2.3	55 .7 24.8 44.2 2.4	47.6 30.8 48.2 2.3	59.8 29.1 32.8 2.7	73.1 41.4 58.3 2.9	72.4 44.9 58.3 3.0	63.9 47.9 61.3 2.7	72.1 54.9 69.7 2.7	91.0 44.1 61.7 3.4
Percent high return crops	31.9	35.8	41.0	43.3	50.9	62.8	62.7	60.1	59.1	58.6	58.9
Animal units lvstk. per 100 A	19.2	20.6	19.3	24.5	22.8	28.9	33.7	36.4	36.3	33.3	38.5
Number of work units	599	747	777	670	601	535	486	548	593	561	577
Work units per worker	310	338	341	305	300	284	274	318	349	330	361
Expense per work unit	\$1.76	\$1.26	\$1.37	\$2.35	\$4.69	\$8.18	\$10.81	\$11.61	\$10.94	\$12.94	\$13.76
Number of milk cows	14.2	17.8	17.8	17.6	17.0	17.7	19.8	22.2	24.5	24.0	23.4

Table 22. Summary by Years (continued)

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Table	22.	Summarv	bv	Years	(Concluded)
TODTO	~~~ Q		$\sim y$	TOUTO	(oonoraaoa)

Ttems	Average	Average	Average	Average	Average	Average 1950-54	Average	Average 1960-64	1964	1965	1966
MISCELLANEOUS ITEMS (Cont)			<u>+/))-)/</u>							the second s	
No. of litters of pigs	9.3	10.8	9.5	14.4	11.7	13.5	17.3	19.4	17.8	17.2	20.5
Pounds of hogs produced	12706	15153	13438	21586	18505	17579	28272	36619	37318	30933	36834
Pounds of feeder cattle prod.	*	*	*	1534	813	2118	3529	5573	4947	3955	4469
Number of head of ewes	*	*	*	10	7	7	5	4	4	4	4
Number of hens	136	169	182	222	235	219	209	197	231	191	218
Pounds of BF per dairy cow	244	240	238	252	278	308	342	375	403	415	401
Pigs weaned per litter	6.3	6.1	6.4	6.2	6.5	6.7	6.9	7.1	7.3	7.5	7.3
Number of eggs laid per hen	95	114	131	145	177	194	203	205	207	186	198
PRICE RECEIVED PER:											
Cwt. of milk	*	*	*	*	*	*	*	\$3.48	\$3.46	\$3.58	\$4.17
Pound BF as cream	\$.52	\$.28	\$.34	\$.47	\$.80	\$.75	\$.66	-		·	-
Cwt. hogs sold	8.92	4.98	8,26	10.93	19.36	19.54	15.99	15.55	14.69	20.32	23.06
Cwt. feeder cattle sold	*	*	*	11.55	20.56	26.22	21.19	22.61	19.96	21.67	25.26
Pound wool sold	.36	.16	.25	•39	.43	.58	.50	.62	.64	•58	
Dozen eggs sold	.28	.16	.19	.27	•39	•37	.31	.28	.27	•26	•33
RETURN ABOVE FEED COST PER:								• -			• • • • • •
Dairy cow	\$76.50	\$28.15	\$49.95			\$156.86	\$162.86	\$183.05	\$191.12	\$199.71	\$230.01
Cwt. hogs produced	1.50	.48	2.98	3.93	6.09	6.47	4.62	4.57	4.09	12.13	7.85
Ewe	*	*	*	6.97	11.16	9.47	6.18	5.40	7.35	8.85	8.64
Hen	1.82	۰99	1.12	1.82	2.11	1.60	1.39	1.27	1.15	•39	1.34
Cwt. feeder cattle prod.	*	*	*	2.98	6.40	7.37	4.76	1.78	16	7.06	1.03
FEED COST PER:			t					1	1	****	
Dairy cow	\$69.50	\$47.30	\$44.93			\$142.59		\$169.62	\$187.27	\$200.19	\$216.61
Cwt. hogs produced	7.66	4.21	5.10	7.52	13.23	12.95	10.65	10.65	10.18	11.39	12.69
Ewe	*	*	*	7.92	8.07	10.73	11.17	13.46	12.98	16.00	15.56
Hen	1.62	1.13	1.57	2.38	4.39	4.76	3.78	3.28	3.07	3.31 20.44	3.71
Cwt. feeder cattle prod.	*	*	*	11.80	23.08	19.46	18.83	19.10	18.97	20.44	23.15
PRICE OF FEED:		r .			4.5	** **	4	<i>b</i> 00	47 A	47 7 0	άτ τ ο
Corn (per bu.)	\$.70	\$.45	\$ •59	\$.71	\$1.29	\$1.31	\$1.11	\$.99	\$1.06	\$1.13	\$1.19
Barley (per bu.)	.60	.42	.49	•59	1.31	1.16	•92	.91	。90	.98	1.02
Oats (per bu.)	.48	.26	.28	.46	•75	.74	•59	.61	-63	.63	.66
Oilmeal (per cwt.)	3.00	1.96	2.12	2.30	3.84	4.19	3.73	4.36	4.60	4.60	5.25
Alfalfa (per ton)	14.75	11.10	9.30	9.90	18.40	18.30	18.20	19.40	20.00	23.00	21.00

* Information not available.

Footnote for pages 22, 23 and 24.

The values of farm real estate in 1931 were reduced approximately 25 percent from 1928-30 values. The values in 1932 were reduced about 29 percent from the 1931 values. Only land was affected by the reduction in 1931, but in 1932 buildings and improvements were cut 25 percent. In 1936 the values of land were adjusted upward 10 percent. The value of dairy cows was also adjusted downward in 1932 and upward in 1936. The capital losses were not included in the inventory decreased in the financial statement but the changes in valuation resulted in variations in the interest charge. No changes in the basis of inventory valuations were made in the years 1933 to 1935 and 1937 to 1965.

The charges for unpaid family labor and board for hired labor were also changed from year to year. The rates for the period 1928 to 1966 are as follows:

Year	Unpaid family labor	Board for hired labor	Year	Unpaid family labor	Charge for 2nd operator	Board for hired labor
1928-30	\$60	\$20	1944	\$85	\$85	\$25
1931	40	15	1945	90	['] 90	25
1932-34	30	10	1946	100	100	30
1935	40	15	1947-55	125	125	36
1936	43	18	1956-60	135	135	38
1937-40	45	18	1961-64	150	200	40
1941	50	20	1965	160	275	45
1942	60	25	1966	160	300	45
1943	75	25	·			

Several changes were made in the 1940 records. The value of the house, which had previously been omitted from the farm business, was included and a rental charge equal to 10 percent of the average value of the house was included with the farm perquisites. The standards used in the calculation of work units were changed in accordance with the new information made available. This latter change also affected the work units per worker and the factor of expense per work unit. The acres in protected woodlots, roads, waste, and farmstead were omitted from the acreage used in the calculation of amount of livestock per 100 acres. Several new livestock statements were added. Statements for beef breeding cattle, feeder cattle, and feeder sheep were also included.

The crop ratings used in calculating the percentage of the tillable land in high return crops were changed considerably in 1944 and 1957 and the animal unit equivalents were changed in 1951.

The standards used in the calculation of work units were changed in 1953. Also, the value of the house, which had been included in the investment of farm buildings since 1940, was omitted from all the records except the net worth statements.

These adjustments should be considered in comparing 1966 results with previous years.