

The World's Largest Open Access Agricultural & Applied Economics Digital Library

# This document is discoverable and free to researchers across the globe due to the work of AgEcon Search.

### Help ensure our sustainability.

Give to AgEcon Search

AgEcon Search
<a href="http://ageconsearch.umn.edu">http://ageconsearch.umn.edu</a>
<a href="mailto:aesearch@umn.edu">aesearch@umn.edu</a>

Papers downloaded from **AgEcon Search** may be used for non-commercial purposes and personal study only. No other use, including posting to another Internet site, is permitted without permission from the copyright owner (not AgEcon Search), or as allowed under the provisions of Fair Use, U.S. Copyright Act, Title 17 U.S.C.

No endorsement of AgEcon Search or its fundraising activities by the author(s) of the following work or their employer(s) is intended or implied.

#### 1957 Annual Report

## SOUTHEASTERN MINNESOTA FARM MANAGEMENT SERVICE

University of Minnesota Institute of Agriculture

and

United States Department of Agriculture
Agricultural Research Service
and the
County Extension Services of
14 Southeastern Minnesota Counties

and the

Southeast Minnesota Farm Management Association Cooperating

Report No. 238

Department of Agricultural Economics
Institute of Agriculture
St. Paul 1, Minnesota
April, 1958

#### 1957 ANNUAL REPORT OF THE SOUTHEASTERN MINNESOTA FARM MANAGEMENT SERVICE

Prepared by T. R. Nodland, G. A. Pond, M. R. Behr and D. E. Erickson

#### INDEX

Pag Pag	е
Introduction	
Summary of Farm Inventories	
Summary of Farm Earnings (Cash Statement)	
Wet Worth Statement	į
Summary of Farm Earnings by Tenure	
Household and Personal Expenses	
Family Living from the Farm	
Cumulative Effect of Excelling in a Number of Management Factors 9	
Measures of Farm Organization and Management Efficiency 10	t
Thermometer Chart	
Distribution of Acres in Farm	
Crop Yields per Acre	)
Average Price of Feeds	ļ
Power and Machinery Expense per Crop Acre	,
Total Feed Costs and Returns from Your Livestock Enterprises 14	Ļ
Feed Costs and Returns from Hogs	
Feed Costs and Returns from Dairy Cattle	,
Feed Costs and Returns from Beef Cattle	i
Feed Costs and Returns from a Farm Flock of Sheep	•
Feed Costs and Returns from Chickens	}
Feed Costs and Returns from Laying Hens	)
Feed Costs and Returns from Chicks	
Explanation of "Work Units"	
Summary by Years, 1928-57	)

#### INTRODUCTION

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

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 and G. A. Pond. Extension work in connection with the two services is handled by E. Hartmans and Harlund Routhe. Harvey Bjerke was the field agent for this project. At the end of the year S. A. Engene, R. B. Zoller, Norbert Dorow, Paul Hoepner and Duane Erickson 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 Associations, and the county agricultural extension agents who cooperated in 1957.

County	No. of records	Association Officers	County Agricultural Extension Agent
Dakota Dodge Freeborn Goodhue Le Sueur Mower Nicollet Olmsted Rice Scott Steele Wabasha Waseca** Winona	8 13 16 23 7 7 11 16 13 3 15 12 21	William Frame, Director Forest Chapin, Vice-President Ross Ferguson, Director Richard Featherstone, Director Emil Dietz, Director Clarence Smith, President Wilbur Halbert, Director Thomas Dickerman, Director Lowell Albers, President Walter Dunn, Secretary Fritz Sprenger, Director Francis Miller, Director Charles Radatz, Director	Clarence O. Quie Loyel Hoseck Eldon H. Senske G. J. Kunau Floyd H. Bellin, Jr. Don Hasbargen F. E. Wetherill Richard Radway Warren Liebenstein Arnold Sandager J. R. Gute Mathas Metz C. F. Murphy Harold Karli
Total	175		

<sup>\*</sup> Includes seven records from members of the Waseca Farm and Home Planning Group and supervised by Ralph Palan.

The data for 165 farms are shown in the tables on succeeding pages. Ten farms were omitted from all averages in the tables because the records were not sufficiently complete for a full analysis or the records were not returned for analysis following completion of income tax schedules.

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

Table 1. Summary of Farm Inventories, 1957\*

	You	r farm	Average of	165 farms
Items	Jan. l	Dec. 31	Jan. 1	Dec. 31
l. Size of farm (acres) 2. Size of business (work units)***			229 490	
3. Dairy and dual purpose cows 4. Other dairy & dual purpose cattle 5. Beef cattle (incl. feeders) 6. Hogs 7. Sheep (including feeders) 8. Poultry (including turkeys) 9. Productive livestock (total) 10. Horses 11. Crop, seed and feed 12. Auto (farm share) 13. Tractors 14. Crop and general machinery 15. Livestock equipment & supplies 16. Machinery & equipment (total) 17. Miscellaneous 18. Land 19. Buildings, fences, etc.	e = = = = = = = = = = = = = = = = = = =		\$3034 1438 1279 1352 135 217 \$7455 19 7463 1229 2053 4233 1139 \$8654 11	\$3116 1543 1409 1720 127 234 \$8149 16 7108 1275 2096 4509 1428 \$9308 11 13066 11146
20. Total farm capital	\$	\$	\$47626	\$48804
2	2 mont 220	ofitable farms	33 least p	rofitable
Items 2	Jan. 1	Dec. 31	Jan. 1	Dec. 31
1. Size of farm (acres) 2. Size of business (work units)**	287 554		213 424	
3. Dairy and dual purpose cows 4. Other dairy & dual purpose cattl 5. Beef cattle (incl. feeders) 6. Hogs 7. Sheep (including feeders) 8. Poultry (including turkeys) 9. Productive livestock (total) 10. Horses 11. Crop, seed and feed 12. Auto (farm share) 13. Tractors 14. Crop and general machinery 15. Livestock equipment and supplies 16. Machinery and equipment (total) 17. Miscellaneous 18. Land 19. Buildings, fences, etc. 20. Total farm capital	2438 2519 93 185 \$9563 11 10115 1338 2492 4731	\$2951 1381 3284 3152 78 382 \$11228 10 10604 1300 2435 4867 1612 \$10214 - 15347 13724 \$61127	\$3054 1474 819 565 120 179 \$6211 39 6943 1373 2009 4648 1363 \$9393 11 12913 9650 \$45160	\$3148 1465 505 947 136 149 \$6350 15 5816 1397 2199 5168 1841 \$10605 9 12913 9950 \$45658

<sup>\*</sup> 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.

<sup>\*\*</sup>See page 21 for an explanation of "work units."

Table 2. Summary of Farm Earnings (Cash Statement), 1957

	·	70112	Average of 165	33 most profitable	33 least profitable
Items		lour farm	farms	farms	farms
FARM RECEIPTS  1. Dairy cattle 2. Dairy products 3. Beef cattle (including feeding cathen to the tending feeding cathen to the tending to the tending to the tending turkeys) 5. Sheep and wool 6. Horses 7. Poultry (including turkeys) 8. Eggs 9. Corn 10. Small grain 11. Other crops 12. Machinery & equipment sold 13. Income from work off the farm 14. Miscellaneous 15. Total farm sales 16. Increase in farm capital 17. Family living from the farm 18. Total farm receipts	ttle)		\$1525 6308 1742 4610 247 11 306 989 2002 363 1456 283 564 249 \$20655 1178 286 \$22119	\$1615 6365 3610 8515 121 8 212 1251 2263 667 2342 528 471 262 \$28230 2688 292 \$31210	\$1311 5469 1385 2041 170 30 787 693 3100 334 1201 176 458 249 \$17404 498 219
FARM EXPENSES  19. Dairy and dual-purpose cattle bought 20. Beef cattle bought (incl. feeding 21. Hogs bought 22. Sheep bought 23. Horses bought 24. Poultry bought (including turkey) 25. Misc. livestock expenses 26. Feed bought 27. Fertilizers 28. Other crop expenses 29. Custom work hired 30. Gas, oil and grease bought (farm 31. Repairs for tractors, trucks & a	share)		\$ 215 742 206 103 5 162 508 2675 850 659 761 884 472	\$ 187 1796 156 4 6 283 602 3754 1186 799 808 1083 555	\$ 196 641 385 8 4 216 400 2386 838 685 702 893 497
(farm shifted	are) state mach. quip. s se		310 327 157 939 272 834 308 \$11389 800 1196 496 979 \$14860	397 407 180 1391 311 1108 307 \$15323 739 1120 526 1342 \$19050 2989 449 1449	321 307 119 700 234 785 330 \$10647 965 1606 759 993 \$14970 
49. Total farm expenses 50. Labor earnings			\$17949 \$4170	\$8578	\$ 65

Table 3. Summary of Farm Earnings (Enterprise Statement), 1957\*

Items		Your farm	Average of 165 farms		33 least profitable farms
RETUR	RNS AND NET INCREASES				
	Dairy and dual-purpose cows		\$6465	\$6422	\$5572
	ther dairy & dual-purpose cattle		"1651	1662	1313
	seef breeding herd		273	181	76
	Feeder cattle		863	2479	402
5• H	[ogs	<del></del>	4816	9047	2064
	heep farm flock	<del></del>	91	103	174
	heep feeders		45		·
_	urkeys		150		579
	hickens	······································	1058	1431	700
	all productive livestock		\$15412	\$21325	\$10880
	Value of feed fed to livestock	<del></del>	8638	11551	6700
.*	Return over feed from livestock	<del></del>	\$ 6774	\$ 9774	\$ 4180
	rops, seed and feed	-	7798	″11467	6207
	ncome from labor off the farm		327	226	268
	gricultural conservation payments		47	45	101
	iscellaneous		197	217	148
	Total returns and net increases		\$15143	\$21729	\$10904
-1 - T	total Idealine and not increased		φ±2±42	ψ-11-7	Ψο, σ
EXPEN	NSES AND NET DECREASES				
18. H	orses		<b>\$</b> 6	<b>\$</b> 5	\$ 5
19. T	ruck ruck		345	401	351
20. A	luto (farm share)		433	500	474
21. T	ractor		948	1194	1016
22. E	Clectricity (farm share)		288	323	250
23. н	Hired power		357	404	303
24. I	Total power		\$2377	<b>\$</b> 2827	<b>\$2399</b>
25.0	crop and general machinery		1266	1338	1517
26. I	ivestock equipment	***************************************	363	454	386
27. B	Buildings, fencing, and tiling		1035	1244	1012
28. M	fisc. productive livestock expenses		503	602	7100
29 · I	labor	***************************************	1876	2282	1740
	Real estate taxes		666	920	620
	Personal property tax		168	188	165
	[nsurance		133	142	140
33.0	eneral farm		175	165	190
34. I	Interest on farm capital		2411	2989	2270
35 • I	Total expenses and net decreases	·	\$10973	\$13151	\$10839
36. I	Labor earnings		4170	8578	65

<sup>\*</sup> 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 operator's 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, 1957 (Operator's share)

The second secon	Broken to the property of the property of	farm	33 Owi	
Items	Jan. 1	Dec. 31	Jan. l	Dec. 31
Total acres in farm	The second second		191	
Owned	-		191	
Rented		The second second	A45	
Total farm capital			\$41880	\$43353
Stocks and bonds		***************************************	1822	1899
<b>L</b> ife insurance	1		2365	2482
Notes and accounts receivable			1531	1662
Shares in cooperative organizations			512	55C
Outside real estate			1336	1987
Cash on hand in bank	Mark Constitution		897	801
Household furnishings and clothing			<b>251</b> 3	2575
Pers. share of auto		Marin di Maraja di Maraja	564	564
Farm dwelling		**************************************	4766	4590
rotal non-farm assets	-		16306	17110
Total assets		· <del>ei a in in ditte ei in .</del>	~58 <u>1</u> 86	60463
Federal Land Bank mortgage	***************	وسندس دارس دارس	2687	2341
Other mortgages on farm operated			5443	5579
Production credit assoc. loans	Strate in the section	Talking the second second	371	123
Sealed grain		<del> </del>	841	933
Other chattel mortgages			631	746
Notes payable	-	distanti mo occasio	2105	2788
Accounts payable		All the second section is a second	346	371
Total liabilities	<del>Quitar Sara a sara a</del>		12424	12887
Farmer's net worth	The state of the same	<del>and a summary</del>	45762	47576
Change in net worth	· · · · ·	And the state of t		+1811
	23 part	-owners*	10 rent	
	Jan. 1	Dec. 31	Jan. 1	Dec. 3
Total acres in farm	278		237	
Owned	145		-	
Rented	133		237	
Total farm capital	<b>\$</b> 43448	<b>\$</b> 46063	\$13016	\$14695
	A-1-2-4-4-6			064
Stocks and bonds	2974	3150	251	400
Stocks and bonds Life insurance		3150 1999	251 1256	
	2974			1339
Life insurance Notes and accounts receivable	2974 1937 1016	1999 868	1256 24	1339 31
Life insurance Notes and accounts receivable Shares in cooperative organizations	2974 1937 1016 559	1999 868 584	1256 24 325	1339 3L 37L
Life insurance Notes and accounts receivable Shares in cooperative organizations Outside real estate	2974 1937 1016 559 327	1999 868 584 1275	1256 24 325 49	1339 31 371 49
Life insurance Notes and accounts receivable Shares in cooperative organizations Outside real estate Cash on hand and in bank	2974 1937 1016 559 327 2596	1999 868 584 1275 2132	1256 24 3 <b>2</b> 5 49 308	1339 31 371 49 586
Life insurance Notes and accounts receivable Shares in cooperative organizations Outside real estate Cash on hand and in bank Household furnishings and clothing	2974 1937 1016 559 327 2596 2187	1999 868 584 1275 2132 2265	1256 24 3 <b>2</b> 5 49 308 1998	1339 31 371 49 586 2020
Life insurance Notes and accounts receivable Shares in cooperative organizations Outside real estate Cash on hand and in bank Household furnishings and clothing Pers. share of auto	2974 1937 1016 559 327 2596 2187 504	1999 868 584 1275 2132 2265 567	1256 24 3 <b>2</b> 5 49 308	1339 31 371 49 586 2020
Life insurance Notes and accounts receivable Shares in cooperative organizations Outside real estate Cash on hand and in bank Household furnishings and clothing Pers. share of auto Farm dwelling	2974 1937 1016 559 327 2596 2187 504 3392	1999 868 584 1275 2132 2265 567 3548	1256 24 325 49 308 1998 216	1339 31 371 49 586 2020 219
Life insurance Notes and accounts receivable Shares in cooperative organizations Outside real estate Cash on hand and in bank Household furnishings and clothing Pers. share of auto Farm dwelling Total non-farm assets	2974 1937 1016 559 327 2596 2187 504 3392	1999 868 584 1275 2132 2265 567 3548	1256 24 325 49 308 1998 216	1339 31 371 49 586 2020 215
Life insurance Notes and accounts receivable Shares in cooperative organizations Outside real estate Cash on hand and in bank Household furnishings and clothing Pers. share of auto Farm dwelling Total non-farm assets	2974 1937 1016 559 327 2596 2187 504 3392 15492 58940	1999 868 584 1275 2132 2265 567 3548 16388 62451	1256 24 325 49 308 1998 216	1339 31 371 49 586 2020 215
Life insurance Notes and accounts receivable Shares in cooperative organizations Outside real estate Cash on hand and in bank Household furnishings and clothing Pers. share of auto Farm dwelling Total non-farm assets Total assets Federal Land Bank mortgage	2974 1937 1016 559 327 2596 2187 504 3392 15492 58940 1503	1999 868 584 1275 2132 2265 567 3548 16388 62451	1256 24 325 49 308 1998 216	1339 31 371 49 586 2020 215
Life insurance Notes and accounts receivable Shares in cooperative organizations Outside real estate Cash on hand and in bank Household furnishings and clothing Pers. share of auto Farm dwelling Total non-farm assets Federal Land Bank mortgage Other mortgages on farm operated	2974 1937 1016 559 327 2596 2187 504 3392 15492 58940 1503 4042	1999 868 584 1275 2132 2265 567 3548 16388 62451 1550 4049	1256 24 325 49 308 1998 216 	1339 31 371 49 586 2020 215 
Life insurance Notes and accounts receivable Shares in cooperative organizations Outside real estate Cash on hand and in bank Household furnishings and clothing Pers. share of auto Farm dwelling Total non-farm assets Federal Land Bank mortgage Other mortgages on farm operated Production Credit Assoc. loans	2974 1937 1016 559 327 2596 2187 504 3392 15492 58940 1503 4042 563	1999 868 584 1275 2132 2265 567 3548 16388 62451 1550 4049 532	1256 24 325 49 308 1998 216 - 4427 17443	1339 31 371 49 586 2020 215 
Life insurance Notes and accounts receivable Shares in cooperative organizations Outside real estate Cash on hand and in bank Household furnishings and clothing Pers. share of auto Farm dwelling Total non-farm assets Total assets Federal Land Bank mortgage Other mortgages on farm operated Production Credit Assoc. loans Sealed grain	2974 1937 1016 559 327 2596 2187 504 3392 15492 58940 1503 4042 563 630	1999 868 584 1275 2132 2265 567 3548 16388 62451 1550 4049 532 414	1256 24 325 49 308 1998 216 - 4427 17443	1339 371 49 586 2020 215 - 4883 19578
Life insurance Notes and accounts receivable Shares in cooperative organizations Outside real estate Cash on hand and in bank Household furnishings and clothing Pers. share of auto Farm dwelling Total non-farm assets Total assets Federal Land Bank mortgage Other mortgages on farm operated Production Credit Assoc. loans Sealed grain Other chattel mortgages	2974 1937 1016 559 327 2596 2187 504 3392 15492 58940 1503 4042 563 630 1689	1999 868 584 1275 2132 2265 567 3548 16388 62451 1550 4049 532 414	1256 24 325 49 308 1998 216 - 4427 17443 - 1199	1339 371 49 586 2020 215 
Life insurance Notes and accounts receivable Shares in cooperative organizations Outside real estate Cash on hand and in bank Household furnishings and clothing Pers. share of auto Farm dwelling Total non-farm assets Total assets Federal Land Bank mortgage Other mortgages on farm operated Production Credit Assoc. loans Sealed grain Other chattel mortgages Notes payable	2974 1937 1016 559 327 2596 2187 504 3392 15492 58940 1503 4042 563 630 1689 3088	1999 868 584 1275 2132 2265 567 3548 16388 62451 1550 4049 532 414 1291 4470	1256 24 325 49 308 1998 216 - 4427 17443 - 1199 - 728 1802	1339 371 49 586 2020 215 4883 19578 - 1531 -745 2261
Life insurance Notes and accounts receivable Shares in cooperative organizations Outside real estate Cash on hand and in bank Household furnishings and clothing Pers. share of auto Farm dwelling Total non-farm assets Total assets Federal Land Bank mortgage Other mortgages on farm operated Production Credit Assoc. loans Sealed grain Other chattel mortgages Notes payable Accounts payable	2974 1937 1016 559 327 2596 2187 504 3392 15492 58940 1503 4042 563 630 1689 3088 372	1999 868 584 1275 2132 2265 567 3548 16388 62451 1550 4049 532 414 1291 4470	1256 24 325 49 308 1998 216 - 4427 17443 - 1199 728 1802 365	1339 371 49 586 2020 215 - 4883 19578 - 1531 -745 2261 526
Life insurance Notes and accounts receivable Shares in cooperative organizations Outside real estate Cash on hand and in bank Household furnishings and clothing Pers. share of auto Farm dwelling Total non-farm assets Total assets Federal Land Bank mortgage Other mortgages on farm operated Production Credit Assoc. loans Sealed grain Other chattel mortgages Notes payable Accounts payable TOTAL LIABILITIES	2974 1937 1016 559 327 2596 2187 504 3392 15492 58940 1503 4042 563 630 1689 3088 372 11887	1999 868 584 1275 2132 2265 567 3548 16388 62451 1550 4049 532 414 1291 4470 694 13000	1256 24 325 49 308 1998 216 - 4427 17443 - 1199 - 728 1802 365 4094	1339 374 49 586 2020 215 - 4883 19578 - 1531 - 745 2261 526
Life insurance Notes and accounts receivable Shares in cooperative organizations Outside real estate Cash on hand and in bank Household furnishings and clothing Pers. share of auto Farm dwelling Total non-farm assets Total assets Federal Land Bank mortgage Other mortgages on farm operated Production Credit Assoc. loans Sealed grain Other chattel mortgages Notes payable	2974 1937 1016 559 327 2596 2187 504 3392 15492 58940 1503 4042 563 630 1689 3088 372	1999 868 584 1275 2132 2265 567 3548 16388 62451 1550 4049 532 414 1291 4470	1256 24 325 49 308 1998 216 - 4427 17443 - 1199 728 1802 365	266 1339 374 49 586 2020 215 - 4883 19578 - 1531 - 745 2261 526 14515 +1166

<sup>\* 12</sup> rented for cash, 2 cash and crop share, 4 crop share and 5 livestock and crop share

<sup>\*\* 2</sup> rented for cash, 1 cash & crop share, and 7 livestock & crop share

1957 (Operator's Share) Summary of Farm Earnings by Tenure. 23 part Your Farm owners owners renters Items FARM RECEIPTS \$ 1258 \$ 1140 Dairy and dual-purpose cattle Dairy products Beef cattle (including feeders) Sheep and wool (including feeders) Poultry (including turkeys) Eggs Corn Small grain Other crops Machinery and equipment sold Income from work off the farm Miscellaneous (1) Total farm sales 2) Increase in farm capital (3) Family living from the farm (4) Total farm receipts (1)+(2)+(3)FARM EXPENSES Dairy and dual-purpose cattle bought Beef cattle bought (incl. feeders) Hogs bought Sheep bought (including feeders) Horses bought Poultry (including turkeys) Misc. livestock expense Feed Fertilizers Other crop expense Custom work hired Gas, oil and grease Rep. tractor, truck & auto (farm share) Rep. and upkeep of real estate Rep. and upkeep of crop & gen. mach. Rep. and upkeep of livestock equip. Wages of hired labor Electricity expense (farm share) Real est. and pers. prop. taxes Cash rent Gen. farm and insurance Interest paid Total cash operating expense Mech. power bought (farm share) Crop and gen. mach. bought Livestock equipment bought New real estate improvements (5) Total farm purchases (6) Decrease in farm capital (7) Interest on farm capital (8) Unpaid family labor (9) Board furnished hired labor \$ 8956 (10) Total farm expenses(5)+(6)+(7)+(8)+(9) \$15443 \$20276 (11) Labor earnings (4)-(10) (12) Ret. to cap. & fam. lab.(7)+(8)+(11) \$ 

Table 6. Household and Personal Expenses for Those Farms Which Kept Complete Accounts of These Expenses, 1957

Those Farms Which Kept Complete	Your Farm	Average of 73 farms	15 most profit- able farms	15 least profit- able farms
Number of persons - family		4.7	5.0	4.2
Number of adult equiv family other*		3.5 •3	3.6 .3	3.5 .3
Food and meals bought Operating and supplies Furnishings and equipment Clothing and clothing materials Personal care and spending Education and recreation Gifts and special events Medical and hosp. insurance Church and welfare Pers. share of auto expense Upkeep on dwelling Pers. share of tele. and elect. exp. Total cash living expense Pers. share new autos New dwelling Taxes Life insurance Other savings and investments Total household & pers. cash exp.		\$ 866 282 252 348 85 208 127 370 232 166 117 113 3166 151 59 439 271 1003 5089	\$ 950 322 273 405 69 152 134 479 352 154 12 100 3402 184 2 913 428 1858 6787	\$ 833 226 124 291 72 185 79 263 213 152 58 116 2612 102 73 306 160 1611 4864
Family living from the farm  Total cash expenses & perquisites		309 5398	326 7113	214 5078
RECEIPTS Return to capital and fam. labor Income from outside investments Other personal income		\$5763 242 557	\$10818 317 127	\$2689 475 394

<sup>\*</sup> Hired help or others boarded.

Table 7. Family Living from the Farm, 1957

Items		Your Farm	Average of 165 farms	Your Farm	Average of 165 farms
No. of adult equive Family Other*	lents:	widestina unitablessi	3•4 •3		
Whole milk Skim milk Cream Cattle Hogs Poultry Eggs			1256 qts. 53 qts. 25 pts. 620 lbs. 274 lbs. 99 lbs. 145 doz.		\$83.96 .83 5.25 93.11 45.26 16.60 40.68
Total					\$285.69

<sup>\*</sup> 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. 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 Operator's Labor Earnings to the Number of Factors in which the Farmer Excels

No. of factors in which farmer excels	No. of farms	Your farm	The length of the shaded lines is in proportion to the average operator's labor earnings	Average labor earnings
None or 1 2 3	15 35 32		XXXXX XXXXXXXXXXXXXXX XXXXXXXXXXXXXXXX	\$ 870 2901 4319
4 5 6 or 7	40 26 17		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	4413 5852 6266

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.

Pond, G. A. "Why Farm Earnings Vary", University of Minnesota Agricultural Experiment Station Bulletin No. 386, June 1945.

Table 9. Measures of Farm Organization and Management Efficiency, 1957

Measures used in chart on page 11	Your farm	Average of 165 farms	33 most profit- able farms	33 least profit- able farms
Labor earnings	quarter than the same of the s	\$4170	\$8578	\$ 65
Crop yields*		100	104	92
Percent tillable land in high ret. crops***		56.6	58.2	57.4
Ret. for \$100 feed to prod. livestock***	· · · · · · · · · · · · · · · · · · ·	100	107	90
Prod. livestock units per 100 acres****	***************************************	33.4	34.8	29.8
Size of business-work units		490	554	424
Work units per worker	·	272	292	236
Power, mach., equip., & bldg. exp. per work unit	and talker disease the	\$10.69	\$10.59	\$13.84
Items related to some of the above measures:				
Index of return for \$100 feed from: Dairy cattle (see pages 16 and 17) Beef cattlebreeding herd (see page 18) Beef cattlefeeders (see page 18) Hogs (see page 15)		100 100 100 100	111 116 109 106	90 - 80 91
Sheepfarm flock (see page 19) Sheepfeeders Turkeys Chickens (see page 20)		100 100 100 100	122 - 106	64 - 96
Number of animal units	Mahahahan manakan 1958	63.6	88.2	48.0
Work units on crops Work units on productive livestock Other work units		102 355 33	135 396 23	92 306 26
Number of family workers Number of hired workers Total number of workers		1.3 .5 1.8	1.3 .6 1.9	1.4 .4 1.8
Power expense per work unit Crop machinery expense per work unit Livestock equip. expense per work unit Bldg. & fencing exp. per work unit		\$5.08 2.73 .75 2.13	\$5.19 2.40 .81 2.19	\$6.23 4.11 .91 2.59

<sup>\*</sup> Given as a percentage of the average.

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

<sup>\*\*\*</sup> An index weighted by the animal units of livestock.
\*\*\*\* Acres in timber not pastured, roads, waste and farmstead were not included.

#### Thermometer Chart

Using your figures from page 10, locate your standing with respect to the various measures of farm organization and management efficiency. The averages for the 165 farms included in this summary are located between the dotted lines across the center of this page.

			<u>, , , , , , , , , , , , , , , , , , , </u>	·				
Labor earn- ings	Crop yields	High retur crop	-	$\mathtt{per}$	s Work	Work units per worker	Pow., req., & exp. report work i	bldgs. er
	120		140	55 <b>.</b> 0	810	390	\$4.30	
\$10600	132	76.5				E		
9800	128	74.0	135	51.0	770	375	5.10	
9000	124	71.5	130	57.0	730	360	5.90	
8200	120	69.0	125 5	(3.0	690	345	6.70	
7400	116	. 66.5	120	19.0	650	330	7.5	
6600	112	614.0	115 4	5.0	610	315	8.30	
0000		04.0	目	E	目	El	E	
5800	108	61.5	110 1	1.0	570	300	9.10	
5000	104	59.0	105	37.0	530	285	9.90	
4200	100	56.5	100 3	3.0	490	270	10.70	,
34,00	96	54.0	95 2	9.0	450	255	11.50	
			90 2	5.0	1,10	240	12.30	
2600	92	51.5		El			E	
1800	88	49.0	85 2	1.0	370	225	13.10	
1000	84	46.5	80 1	7.0	330	210	13.90	
200	80	щ.о	75 1	.3.0	290	195	14.70=	
-600	76	41.5	70	9.0	250	180	15.5	1
-1400	72	39.0		5.0 E	210	165	16.30	
			E	E	E		F	
			$\bigcirc$	Q	$\Box$	$\Box$		

Table 10. Distribution of Acres in Farm, 1957

Crop	Crop ratings*	Number growing this crop	Your Farm	Average of 165 farms
Canning peas Flax Wheat Oats for silage Oats for grain Barley Total small grain and peas	B C C D D	19 2 35 37 152 16 159		1.9 2.9 2.4 26.9 1.1 35.3
Seed corn, potatoes, truck crops Corn grain Corn silage Sweet corn Soybeans for grain Grain sorghum Total cultivated crops	A A B B D	6 162 106 17 88 2 164		.5 61.4 6.7 2.2 17.4 .1 88.3
Alfalfa hay Red clover hay Other legumes and mixtures Legumes for seed Timothy and brome hay or seed Annual hay Total tillable land in hay	B C C D D	155 6 4 2 3 6 157		36.5 .3 .4 .1 .5 .2 38.0
Alfalfa pasture Other legumes and mixtures Sudan and/or rape Other tillable pasture Total tillable land in pasture	B C C D	116 9 15 41 139	manuschenderschaft  Mit Sent specialit  Deschiebsterschaft  Geschiebsterschaft  Geschi	15.0 .9 .7 3.5 20.1
Soil bank Tillable land not cropped Total tillable land	A D	15 13 165	CONSTRUCTION TO THE STATE OF TH	1.2 .9 183.8
Wild hay Non-tillable pasture Timber not pastured Roads and waste Farmstead Total acres in farm		30 107 74		2.4 19.7 6.7 9.6 7.1 229.3
Percent land tillable Percent tillable land in high return co	rops			80 <b>.</b> 0 56 <b>.</b> 6

<sup>\*</sup> 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, 1957

Crop	Your farm	Average of farms growing each crop
Canning peas, dollars		\$55.95
Flax, bu.		8.4
Wheat, bu.	****************	29.8
Oats for silage, tons		6.9
Oats for grain, bu.		54.7
Barley, bu.		39.2
Corn grain, bu.	<del></del>	76.8
Corn silage, tons		11.7
Sweet corn, tons		5•3
Soybeans, bu.	<del></del>	26.5
Alfalfa hay, tons	***************************************	2.7
Red clover hay, tons		2.3
Other legumes and mixtures, tons		2.5
Timothy or brome hay, tons	**************************************	1.4
Annual hay	***************************************	2.8
Wild hay, tons		• 2

Table 12. Average Price of Feeds, 1957

Item	Value	Item	Value
Ear corn, per bu.	\$1.10	Alfalfa hay, per ton	\$17.00
Oats, per bu.	•61	Red or alsike clover hay, ton	14.40
Barley, per bu.	•91	Timothy, per ton	9.80
Wheat, per bu.	2.07	Wild hay, per ton	8.50
Bran, per cwt.	2.50	Corn silage, per ton	5.80
Linseed oil meal, per cwt.	3.50	Pasture, per mo. per cow	2.50
Meat scraps, per cwt.	4.70	Skim milk per cwt.	•30

Table 13. Power and Machinery Expenses per Crop Acre, 1957

Items	Your farm	Average of 165 farms	33 most profitable farms	33 least profitable farms
Crop acres per farm		164	217	147
Tractor exp. per crop acre Crop & gen. mach. exp. per crop acre		\$6.22 7.99	\$6.06 6.54	\$7.29 10.50

#### TOTAL FEED COSTS AND RETURNS FROM YOUR LIVESTOCK ENTERPRISES

The total "return over feed costs" for each class of livestock is shown in table 14. This differs from the "return over feed" shown in the enterprise statement in that it is the total for each class of livestock instead of a return "per head," "per unit," or "per 100 pounds." These data indicate the relative importance of different classes of livestock as a source of income and as a market for feed. The total return is the same as the returns and net increases shown on page 5. The value of milk consumed by calves is included in the total returns from dairy or dual purpose cows and in the total feed cost for other dairy or other dual purpose cattle. The value of milk consumed by calves is not included in either the total returns or the feed cost of "all dairy" or "all dual purpose" cattle. The return over feed is not a net return, but rather the amount available from the gross income, after paying the feed bill, to cover the outlay for hired labor, power, equipment, taxes, insurance, interest, and veterinary bills and to provide a return for the use of family labor and capital.

Table 14. Total Feed Costs and Returns from Your Livestock Enterprises, 1957

		Dairy or	dual purpose	cattle	Beef breeding
		Cows	Other	All	herd
Total returns				Company in a contract of the c	
Total feed cost		electronic de la constant de la cons	valuable conference to the constitute of the con	NAMES AND ASSOCIATION OF THE PROPERTY OF THE P	tangs made description for a particular and the second sec
Total return over	feed	A control of the cont		DATE OF THE PROPERTY OF THE PR	
and the second seco					
		Feeder Cattle	Hogs	Farm Flock of sheep	Chickens
Total returns					
Total feed cost		www.dagoddaweropeoropeocoaddwerocoadd	ecset/seastes-pro-un-unjusta-sel/seasono		
Total return over	feed	gand Committee o Committee of C	AND THE PROPERTY OF THE PROPER	Capparate with the Colonia Section Colonia Sec	Constitution of the Consti

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

Table 15. Feed Costs and Returns from Hogs, 1957

T tems	Your farm	Average of 120 farms	24 farms highest in returns above feed	24 farms lowest in returns above feed
	<u>wanda an ili sang maka di Juan may</u>			
Feed per cwt. hogs produced, lbs.: Corn		327	266	407
Small grain Commercial feeds		74 57	61 47	115 61
		458	374	583
Total concentrates Skim milk, buttermilk and whey		13	17	48
Feed cost per cwt. hogs produced:	<i>t</i> h	\$10.57	\$ 8.60	\$13.27
Concentrates Skim milk, buttermilk and whey	<del>Ф</del>	.04	.07	.11
Pasture		<u>.06</u>	.07	-04
TOTAL FEED COSTS	\$	\$10.67	\$ 8.74	\$13.42
Net increase in value per cwt. hogs produced	\$	\$17.96	\$19.58	<b>\$</b> 16.71
RETURNS ABOVE FEED COST PER CWT. HOGS PRODUCED	\$	\$ 7.29	\$10.84	\$ 3 <b>.2</b> 9
RETURNS FOR \$100 OF FEED	\$	\$ 176	\$ 233	\$ 127
Price received per cwt. hogs sold	\$	\$17.76	\$18.26	\$17.45
No. of spring litters raised		13.1	12.6	10.2
No. of fall litters raised		9.2	8.4	7.6
Total no. of litters raised	***************************************	22.3	21.0	17.8
No. of pigs born per litter	-	8.6	8.8	7.8
No. of pigs weaned per litter		6.5	7.7	6.0
Pounds of hogs produced		36450	34781	27180

Table 16. Factors of Cost and Returns from Dairy Cows, 1957

Items	Your farm	Average of 134 farms	27 farms highest in butterfat per cow	27 farms lowest in butterfat per cow
Pounds of butterfat per cow Pounds of milk per cow % of butterfat in milk Price rec. per lb. B.F. sold (¢) As manufacturing cream (cents) Whole milk (cents) Price rec. per cwt. milk sold*		339 9481 3.7 92.5 67.2 95.0 \$ 3.43	415 11316 3.7 95.4 95.4 \$ 3.51	248 7026 3.7 87.0 67.8 91.4 3.38
Feeds per cow, lbs.: Corn Small grain Commercial feeds		1923 728 437	2509 1002 501	1545 457 298
Legume hay Other hay Fodder and stover		5037 327 8	5154 531 -	4444 137 42
Total concentrates Total hay and fodder Silage		3088 5372 6828	4012 5685 7381	2300 4623 6459
Feed cost per cow: Concentrates Roughages Pasture TOTAL FEED COST		\$ 66.85 65.20 10.95 \$143.00	\$ 85.37 67.85 10.09 \$163.31	\$ 49.14 57.49 11.73 \$118.36
Value of produce per cow: Dairy product sales Dairy produce used in home Milk to livestock Net increase in value of cows TOTAL VALUE PRODUCED		\$302.54 4.79 7.19 -3.29 \$311.23	\$382.92 4.17 8.06 -3.00 \$392.15	\$204.38 5.54 7.40 -1.27 \$216.05
RETURNS ABOVE FEED COST PER COW	-	\$168.23	\$228.84	\$ 97.69
RETURNS FOR \$100 OF FEED		\$222	\$246	\$187
Feed cost per lb. B.F. (cents)	<del></del>	42.2	39 . 4	47.7
Number of cows***		24.9	25.6	20.7

<sup>\*</sup> Average for farms selling whole milk

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

Table 17. Feed Costs and Returns from Other Dairy Cattle, 1957

Items	Your farm	Average of 134 farms	27 farms highest in butterfat per cow	27 farms lowest in butterfat per cow
Feed per head, lbs: Concentrates Hay and fodder Silage Skim milk Whole milk		699 2199 1906 33 234	883 2312 2339 - 232	614 2009 1970 153 214
TOTAL FEED COSTS PER HEAD		\$ 51.93	\$ 56.70	\$ 48.40
Net inc. in value of other dairy cattle	***************************************	77.59	89.12	63.56
RETURNS ABOVE FEED COST PER HEAD		25.66	32.42	15.16
RETURNS FOR \$100 OF FEED		\$164	\$169	\$152
Number of head of other dairy cattle	· · · · · · · · · · · · · · · · · · ·	25.9	28.8	22.1

Table 18. Feed Costs and Returns from All Dairy Cattle, 1957

Items	Your farm	Average of 134 farms	27 farms highest in butterfat per cow	27 farms lowest in butterfat per cow
Feeds per animal unit, lbs.: Concentrates Hay and fodder Silage		2506 5007 5804	3216 5260 6338	1932 4411 5611
TOTAL FEED COSTS PER ANIMAL UNITS		\$124.59	\$139.57	\$106.22
Value of produce per animal unit: Dairy products Net increase in val. of dairy cattle TOTAL VALUE PRODUCED		\$203.97 49.80 \$253.77	\$250.09 59.24 \$309.33	\$138.92 41.41 \$180.33
RETURNS ABOVE FEED PER ANIMAL UNIT		\$129.18	\$169.76	\$ 74.11
RETURNS PER \$100 OF FEED	· · · · · · · · · · · · · · · · · · ·	\$207	\$226	\$172
Animal units of dairy cattle		37.9	40.3	31.8

Table 19. Feed Costs and Returns from Beef Cattle, 1957

· · · · · · · · · · · · · · · · · · ·		
T tems	Your farm	Average of all farms
Beef breeding herd: No. of farms:		11
Feeds per animal unit, lbs.: Concentrates Legume Other hay Silage		1508 3669 705 47 <i>2</i> 1
Feed Cost per animal unit: Concentrates Roughages Pasture TOTAL FEED COST	\$ \$	\$32.48 50.07 16.59 \$99.14
Value of produce per animal unit:  Dairy products  Net increase in value of animal  TOTAL VALUE PRODUCED	\$	\$ 4.04 136.31 \$140.35
RETURNS ABOVE FEED COST PER ANIMAL UNITS	\$	41.21
RETURNS FOR \$100 OF FEED	\$	\$150
Lbs. beef produced Number of cows and herd bulls Number of other beef cattle Number of animal units in the herd		17484 22.7 32.0 28.7
C. Comman		25
Feeding Cattle: No. of farms: Feeds per cwt. beef produced, lbs.: Corn Small grain Commercial feeds		612 24 51
Legume hay Other hay	***************************************	416 41
Total concentrate Total hay and fodder Silage		687 457 974
Feed cost per cwt. beef produced Concentrates Roughages Pasture TOTAL FEED COSTS  Net increase in value of feeders RETURNS ABOVE FEED COST PER CWT. BEEF PROD. RETURNS FOR \$100 OF FEED Price paid per cwt. beef bought Price received for feeder cattle sold Number of animal units Pounds of beef produced	\$\$ \$\$ \$	\$14.50 6.67 .34 \$21.51 29.17 7.66 \$160 \$20.41 19.78 42.2 20719

Table 20. Feed Costs and Returns from a Farm Flock of Sheep. 1957

Items	Your farm	Average of 20 farms	10 farms highest in returns above feed	10 farms lowest in returns above feed
Feeds per head, head, lbs.: Concentrates Legume hay Other hay Silage		76 382 4 98	39 283 2 63	112 482 6 133
Feed Cost per head: Concentrates Roughages Pasture TOTAL FEED COSTS	\$ \$	\$ 1.53 3.59 2.49 \$ 7.61	\$ .81 2.62 2.68 \$ 6.11	\$ 2.26 4.56 2.30 \$ 9.12
Value of produce per head: Wool Net increase in value of sheep TOTAL VALUE PRODUCED	\$ \$	\$ 5.00 8.34 \$13.34	\$ 5.23 10.13 \$15.36	\$ 4.78 6.55 \$11.33
RETURNS ABOVE FEED COST PER HEAD	\$	\$ 5.73	\$ 9.25	\$ 2.21
RETURNS FOR \$100 OF FEED	\$	\$219	<b>\$</b> 291	\$147
Price per cwt. of lambs sold Price per lb. wool sold (cts.) Pounds of wool per sheep sheared	\$	\$20.76 63.0 9.8	\$20.23 65.9 9.7	\$21.29 60.2 9.8
Number of ewes kept for lambing Per cent lamb crop** Per cent death loss**		30 91 9•1	23 98 8.5	38 84 9•7
Pounds of sheep produced		2689	1789	3589
Number of head of sheep*		43.3	32.8	53.8

<sup>\*</sup> Two lambs under six months of age considered as one head.

<sup>\*\*</sup> Lambs which die during month of birth are not included.

Table 21. Feed Costs and Returns from Chickens, 1957\*

			19 farms	19 farms
		Average	highest in	lowest in
	Your	of 94	return	return
Items	farm	farms	above feed	above feed
Feed per hen, lbs.:		· ·	- 1	00
Grain	•	89	94	88
Commercial feeds		40	<u> 34</u>	41
Total concentrates		129	128	129
TOTAL FEED COST PER HEN	\$	<b>\$3.68</b>	\$3.68	\$3.77
Value of produce per hen:			ante e e	
Eggs sold and used in house	\$	\$4.88	\$6.06	\$3.64
Net increase in value of chickens		•02	•57	-011
TOTAL VALUE PRODUCED	\$	\$4.90	\$ <del>6.63</del>	\$3.20
RETURNS ABOVE FEED COST PER HEN	\$	\$1.22	\$2.95	\$57
RETURNS FOR \$100 OF FEED	\$	<b>\$</b> 136	\$184	\$ 86
Price rec'd. per doz.eggs sold(cts.)		29.8	30.7	29.2
Eggs laid per hen		198	239	150
Ave. no. of hens on farm during year		345	407	252
Per cent of hens that are pullets		76	92	64
Per cent death loss of hens		12	10	14
Number of chicks started:				•
Pullets		372	628	220
Straight run	·	1000	ello .	
Cockerels	<del></del>	47	99	27
Lbs. chickens produced		1391	2590	681

<sup>\*</sup> Includes feeds and returns from laying flock and rearing flock.

Table 22. Feed Cost and Returns from Laying Hens, 1957

I tems	Your farm	Average of 43 farms	ll farms highest in eggs per hen	ll farms lowest in eggs per hen
Feed per hen, lbs.: Grain Commercial feeds Total concentrates		74 32 106	71 34 105	74 24 98
TOTAL FEED COST PER HEN	\$	\$3.06	\$3.19	\$2.68
Value of produce per hen: Eggs sold and used in home Less depreciation and death loss TOTAL VALUE PRODUCED	\$	\$5.05 83 \$4.22	\$6.08 -1.01 \$5.07	\$3.72 49 \$3.23
RETURN ABOVE FEED COST PER HEN	\$	1.16	1.88	•55
RETURN FOR \$100 OF FEED Eggs laid per hen Price rec'd. per doz.eggs sold(cts.) Ave. no. hens on farm during year No. of hens on hand begin. of year Per cent death loss Per cent of hens that are pullets	\$	\$138 205 29.7 402 410 13 74	\$159 248 29.7 463 364 11	\$121 158 28.3 294 310 16 41

Table 23. Feed Costs and Returns from Chicks, 1957

Items	Your farm	Average of 28 farms
Feed per 100 chicks raised, lbs.: Grain Commercial feeds Total concentrates		1564 1053 2617
Total feed cost per 100 chicks raised Net increase in value per 100 chicks RETURN OVER FEED COST PER 100 CHICKS	\$ \$	\$83.18 92.92 9.74
RETURN FOR \$100 OF FEED	\$	\$112
Number of chicks bought: Pullets Straight run Cockerels		628 5 85
Price paid per 100 chicks bought: Pullets Cockerels	\$	\$51.64 4.91
Number of chicks raised Per cent death loss Price recod. per pound sold (cents)		612 13.1 23.6

#### 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 24.

Table 24. Number of Work Units for Each Class of Livestock and Each Acre of Crop

	No. of		No. of
Item	work units	Item	work units
Dairy and dual pur. cows	10.0 per cow	Small grain	.5 per acre
Other dairy & du. pur. cattle	3.5 per an. unit*	Sugar beets	1.5 per acre
Beef breeding herd	3.5 per an. unit*	Sweet corn	.7 per acre
Feeder cattle	.25 per 100 lbs	Corn husked	.7 per acre
Sheep - farm flock	1.5 per an. unit*	Corn hogged	.4 per acre
Sheep - feeder	.3 per 100 lbs.	Corn shredded	1.5 per acre
Hogs	.2 per 100 lbs.	Corn silage	1.0 per acre
Turkeys	.5 per 100 lbs.	Corn fodder	1.0 per acre
Hens	20.0 per 100 hens	Alfalfa hay	.6 per acre
Canning peas	.5 per acre	Soybean hay	.8 per acre
Soybeans for grain	.5 per acre	Other hay crops	.4 per acre

<sup>\*</sup> Animal unit represents one dairy cow or bull, two other dairy cattle,  $1\frac{1}{4}$  beef cows or bull, 1 feeder steer or heifer, 3 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.

	Average 1928-29	Average 1930-34	Average 1935-39	Average 1940-44	Average 1945-49	Average 1950-54	1954	1955	1956	1957	-
umber of farms	148	140	149	177	169	162	166	165	165	165	
cres in farm	170	199	218	227	223	226	228	226	231	229	
rop acres in farm	116	136	147	148	148	155	154	156	159	164	
arm inventory	\$24574	\$19851	\$20286	\$25912	\$31402	\$42663	\$44063	\$45086	<b>\$</b> 46305	\$48215	
arm earnings	2004 A			allocations and the contract of the contract o	***	C-MANTE TO ANTICOLOGICA CANADA MANTE POR PROPERTY CANADA C			**************************************		
ARM EXPENSES	<b>#</b> -1-1	# 05	# <b>3</b> 7.0	s 11-	* '0~						
Cattle bought	\$ 141	\$ 83	\$ 213	\$ 441	\$ 485	\$ 902	\$ 696	\$ 750	\$ 947	\$ 957	
Hogs bought	85	52	72	154	194	202	245	139	177	206	
Sheep bought Poultry bought	6 37	14	94	64	64	35	53	155	89	103	
Pourtry bought	31	41	80	142	176	154	152	145	120	162	
Horses bought	36	33	43	32	14	6	<u> </u>	6	5	5	
Misc. livestock expense	66	64	94	124	228	359	411	433	476	508	
Misc. crop expenses	186	160	222	301	701	1010	1224	1344	1280	1509	
Feed bought	440	313	535	1273	1954	2241	2406	2348	2491	2675	
Custom work hired	407	-	•	165	401	552	618	649	688	761	
Power mach. (new & exp.)	399	321	559	717	1562	2028	1892	2078	2250	2433	
Mach. and equip. (new)	190	122	281	392	845	1231	1065	827	1195	1687	Ň
Mach. and equip. (upkeep)	72	55	67	144	280	350	356	392	432	484	ı
Bldgs., fencing (new)	130	81	245	331	778	983	751	747	807	979	
Bldgs., fencing (upkeep)	52	32	79	188	323	368	324	263	305	310	
Hired labor	272	243	398	585	849	857	799	828	878	939	
Taxes and insurance	298	313	281	303	449	736	820	844	921	967	
General farm expense	30	28	35	52	93	136	149	146	162	175	
Total farm purchases	\$2440	\$1955	<b>\$</b> 3 <b>2</b> 98	\$5408	\$9396	\$12150	<b>\$11</b> 965	\$1.2094	\$13223	\$14860	
Decrease in farm capital		230					*	060		<b>W</b> .	
Board to hired labor	102	230 87	145	158	174	166	7.04	862	-		
Interest on farm capital	1228	992	1014	1296	174 1570		126	140	130	133	
Unpaid family labor	358	261	239	326	511	2133	2203	2254	2315	2411	
Out of the second secon			£ J7	720		496	514	<u>543</u>	<u>526</u>	545	
Total farm expenses	\$4128	\$3525	\$4696	\$7188	\$11651	\$14945	\$14808	\$15893	\$16194	\$17949	

Summary by Years (continued)

	Average 1928-29	Average 1930-34	Average 1935-39	Average 1940-44	Average 1945-49	Average 1950-54	1954	1955	1956	1957
FARM RECEIPTS Cattle Dairy products Hogs Sheep and wool	\$ 753	\$ 431	\$ 713	\$ 1335	\$ 2022	\$ 2981	\$ 2769	\$ 2688	\$ 2781	\$ 3267
	1662	1188	1451	2138	4080	4702	4916	5145	5934	6308
	1164	793	1074	2517	3598	4253	4051	3525	3717	4610
	52	60	200	186	232	171	188	327	237	247
Poultry	140	166	381	629	672	354	274	349	197	306
Eggs	275	243	372	751	1319	1297	1115	1350	1276	989
Horses	30	27	55	34	20	14	12	9	15	11
Corn	37	62	153	121	335	766	1238	1682	2004	2002
Small grain	241	177	357	278	659	495	352	366	378	363
Other crops	163	155	174	455	819	853	970	1226	1390	1456
Income from labor off farm	102	118	168	141	178	182	204	287	268	327
Agric. adj. payments	0	74	230	254	58	59	52	43	59	47
Miscellaneous	134	138	247	282	470	625	483	471	642	722
Total farm sales Increase in farm capital Family living from farm Total farm receipts Total farm expenses Operator's earnings	\$4753 617 325 \$5695 4128 1567	\$3632 232 \$3864 3525 339	\$5575 524 273 \$6372 4696 1676	\$9121 921 566 \$10608 7188 3420	\$14462 1411 715 \$16588 11651 4937	\$16752 1905 620 \$19277 14945 4332	\$16624 988 334 \$17946 14808 3138	\$17468 -318 \$17786 15893 1893	\$18898 1656 290 \$20844 16194 4650	\$20655 1178 286 \$22119 17949 4170
MISCELLANEOUS ITEMS Yield per acre: Corn (bu.) Barley (bu.) Oats (bu.) Alfalfa (tons)	44.8	43.4	47.2	55.7	47.6	59.8	69.6	67.5	78.6	76.8
	36.0	26.2	28.7	24.8	30.8	29.1	31.4	37.3	33.8	39.2
	46.0	40.0	43.4	44.2	48.2	32.8	46.4	55.3	50.1	54.7
	3.0	2.3	2.3	2.4	2.3	2.7	2.8	3.0	2.9	2.7
Percent high return crops A.U. livestock per 100 acres Number of work units Work units per worker Expenses per work unit Number of milk cows	31.9 19.2 599 310 \$1.76 14.2	35.8 20.6 747 338 \$1.26	41.0 19.3 777 341 \$1.37 17.8	43.3 24.5 670 305 \$2.35	50.9 22.8 601 300 \$4.69 17.0	62.8 28.9 535 284 \$8.18	65.1 31.5 455 253 \$11.76 18.9	68.0 33.9 472 268 \$9.87 19.0	68.9 32.7 475 264 \$10.23	56.6 33.4 490 272 \$10.69 20.3

Summary by Years (continued)

	Average	Average	Average	A <b>ver</b> age 1940 <b>-</b> 44	Average 1945 <b>-</b> 49	Average 1950-54	1954	1955	1956	1957
	1928-29	1930-34	1935-39	1940-44	1945-49	1950-54	1774	エクンフ	1750	1771
Misc. Items (continued)	03	7.0° 0	9.5	14.4	11.7	13.5	12.6	15.7	14.5	16.2
No. of litters of pigs	9.3	10.8		21586			19380	24852	24220	26544
Lbs. of hogs produced	12706	15153	13438	21,200	18505	17579	11.2	12.0	9.1	7.8
No. of head of sheep	7.0	13.5	18.8	15.8	10.8	10.4				204
No. of hens	136	169	182	222	235	219	220	238	236	
Lbs. of BF per dairy cow	544	5/10	238	252	278	308	311	320	340	339
Lbs. of BF per dual pur. cow			_	185	181	189	170	185	235	 
Pigs weaned per litter	6.3	6.1	6.4	6.2	6.5	6.7	6.9	6.9	7.1	6.5
No. of eggs laid per hen	95	114	131	145	177	194	196	204	203	198
PRICE RECEIVED PER:										
Pounds BF sold as cream	\$.52	\$.28	\$ • 34	\$.47	\$.80	\$.75	\$.68	\$ -64	\$.65	\$.67
Cwt. hogs sold	8.92	4.98	8.26	10.93	19.36	19.54	21.08	14.45	14.45	17.76
Cwt. feeder cattle sold			·	11.55	20.56	26.22	20.30	18.45	18.13	19.78
Pounds wool sold	•36	.16	•25	•39	•43	<b>.</b> 58	•50	•710	•54	•63
Dozen eggs sold	• 28	.16	•19	.27	•39	•37	•31	•34	•33	•30
RETURN ABOVE FEED COST PER:	<b>■ N</b> A.111									
Dairy cow	\$76.50	\$28.15	\$49.95	\$81.83	\$161.27	\$156.86	\$117.56	\$123.74	\$157.31	<b>\$</b> 168.23
Dual purpose cow				51.55	104.25	74.71	14.91	. 38.40	87.07	
Cwt. hogs produced	1.50	.48	2.98	3.93	6.09	6.47	6.58	1.22	4.61	7.29
Head of sheep	5.50	.81	2.82	4.63	7.13	6.44	1.94	2.35	4.07	7.29 5.73
Hen	1.82	•99	1.12	1.82	2.11	1.60	•18	2.11	1.46	1.22
FEED COST PER:	·									
Dairy cow	\$69.50	\$47.30	\$44.93	\$63.13	\$123.22	\$142.59	\$142.54	\$148.41	\$146.38	\$143.00
Dual purpose cow	φυ <b>, υ</b> , υ	φ41.00		52.08	84.51	100.38		112.94	106.14	
Cwt. hogs produced	7.66	4.21	5.10	7.52	13.23	12.95	12.36	10.96	11.26	10.67
Head of sheep	2.82	2.23	2.62	3.30	5.17	7.38	8.00	8.27	9.38	7.61
Hen	1.62	1.13	1.57	2.38	4.39	4.76	4.70	4.03	4.11	3.68
	,									
PRICE OF FEED:	* 50	st. 1. –	<b>8</b> CO	A 77	8T 00	В т О т	<b>жт</b> э1.	#17 00	<b>#1 2</b> 5	<b>ቆገ</b> ግር
Corn (per bu.)	\$.70	\$.45	\$.59	\$.71	\$1.29	\$1.31	\$1.34	\$1.23	\$1.25	\$1.10
Barley (per bu.)	. •60	-42	.49	•59	1.31	1.16	1.02	•93	•94	•91
Oats (per bu.)	•48	•26	•28	.46	•75	•74	•70	.61	•63	.61
Bran (per cwt.)	1.70	•98	1.22	1.80	2.76	3.06	2.85		2.55	2.50
Oilmeal (per cwt.)	3.00	1.96	2.12	2.30	3.84	4.19	4.20		3.70	3.50
Alfalfa (per ton)	14.75	11.10	9.30	9.90	18.40	18.30	17.00	18.00	18.50	17.00

Foot note for pages 22, 23, and 24.

The values of farm real estate in 1931 were reduced approximately 25 percent from 1928-1930 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 1957.

The charges for unpaid family labor and board for hired labor were also changed from year to year. The rates used for the period 1928 to 1957 were as follows:

Year	Unpaid family labor	Board for hired labor	Year	Unpaid family labor	Board for hired labor
1928-30 1931 1932-34 1935 1936 1937-40	40	\$20 15 10 15 18 18	1941 1942 1 <b>94</b> 3 1944 1945 1946	\$50 60 75 85 90 100	\$20 25 25 25 25 25 30
			1947- <u>-</u> 1956-		36 38

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. Cattle were classified into two groups: "specialized dairy cattle" and "dual purpose cattle." 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 the farm buildings since 1940, was omitted from all the records except the net worth statements.

These adjustments should be considered in comparing 1957 results with previous years.