

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 http://ageconsearch.umn.edu aesearch@umn.edu

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.

Southeastern Minnesota Farm Management Association

COOPERATING AGENCIES:

University of Minnesota, Institute of Agriculture County Extension Services of the 14 Southeastern Counties Southeastern Minnesota Farm Management Association

Economic Report ER 78-2 Department of Agricultural and Applied Economics Institute of Agriculture St. Paul, Minnesota 55108 March 1978

1977 ANNUAL REPORT OF THE SOUTHEASTERN MINNESOTA

FARM MANAGEMENT ASSOCIATION

Ъy

Delane E. Welsch and Hilbert B. Pfeifer, Jr.*

INTRODUCTION

The Department of Agricultural and Applied Economics and the Agricultural Extension Service of the University of Minnesota and the Agricultural Extension Agents of several southeastern Minnesota counties are cooperating with the Southeastern Minnesota Farm Management Association in maintaining a farm management service. The Association was organized in the fall of 1927 by farmers in that part of the state for the purpose of studying the farm business through farm records. Each farmer pays an annual fee which covers a large part of the cost, with the balance defrayed by the Agricultural Extension and Research programs of the University of Minnesota. The analysis of the records and the preparation of the report are handled by the Department of Agricultural and Applied Economics under the direction of Delane E. Welsch. Hilbert B. Pfeifer, Jr. is the fieldman for this project. Kenneth H. Thomas is the Extension Economist in Farm Management working closely with this Association. Edward Becker is the District Director of Agricultural Extension for the counties which are served by the Association.

Of the 138 farms in the Southeastern Association, 97 submitted records at the time of this report. The data for 80 farms are shown in the tables on succeeding pages. The rest were omitted from the information in the tables because the records were not sufficiently complete for a full analysis. No claim is made as to whether the farmers who belong to the Association are or are not representative of the southeastern Minnesota. However, this report should be of value to farmers and 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. It also shows typical enterprise costs and returns for 1977 and the variation in enterprise earnings as well as in total farm earnings.

The content of this report is somewhat different from previous years. While the roots of the analysis lie in the work of the Department of Agricultural and Applied Economics and its predecessor units over the past 60 years, the more detailed analysis found in this report was developed by Professor Edgar Persons of the University of Minnesota. This analysis is also used by Vocational Agriculture Adult Farm Business Management Education classed throughout Minnesota and in some other states. The computer work was done by Specialized Data Systems, Inc., Madison, Wisconsin.

*Welsch is Professor of Farm Management, Pfeifer is jointly Area Farm Management Extension Agent and Fieldman for the Association. The authors wish to thank the following people for their contributions to this report: Dr. Edgar Persons for his encouragement and training during this first season of using a new data processing procedure; Glen Hahn, Kerry Koestler, Arlene Draeger, and Patti Schmeling for their assistance in account book closing and coding; Wolfgang Vogel for his review of the analyses and correction of errors; Paul Hasbargen and Ken Thomas for much helpful advice; and Michele Wyskocil and Eileen Miley for all of their clerical and secretarial work throughout the project, and especially for putting this report together. DISTRIBUTION OF MEMBERSHIP - 1977

.

County	Number of Members	Number Submit Records	Association Officers	County Extension Directors
Dakota	11	8	Henry Scharr	Warren N. Sifferath
Dodge	15	10	Dean Wright	David H. Hanson
Freeborn	21	12	Jacob Kuiters	Eldon H. Senske
Goodhue	21	17	Merle Schwartau, President	Richard C. Walter
Le Sueur	11	7	Kenneth Krenik, Vice-Pres.	Robert Leary
Mower	2	1	Donald Zimmerman	Harlan L. Johnsrud
Nicollet	4	3	Walter Malmberg	Gregory D. Luehr
01msted	9	8	Harold Frost	David Kjome
Rice	8	4	Dean Franz	Warren F. Liebenstein
Scott	12	8	Paul Krueger	David Hart
			Arnie Schoenbauer, Sec. Tres.	
Steele	9	8	Vernal Wilker	Larry Tande
Wabasha	9	7	Forest Lamprecht	Matthias P. Metz
Waseca	2	0	-	Roger M. Wilkowske
Winona	4	4	Ellsworth Simon	Charles R. Schwartau
Tota1	138	97		

1977 ANNUAL REPORT OF THE SOUTHEASTERN MINNESOTA

FARM MANAGEMENT ASSOCIATION

TABLE OF CONTENTS

	Page	
Inside Title Page and Introduction	. 1	
Distribution of Membership		
Table of Contents		
Table 1 - Farm Inventories		
Table 2A - Total Farm Receipts	. 6	
Table 2B - Total Farm Expenses & Labor & Management Earnings		
Table 3 - Enterprise Statement	. 8	
Table 4 - Household Expense		
Table 5 - Operator's Net Worth Statement & Supp. Financial Info 10 &		
Table 6A - Operator's Share of Total Farm Receipts	. 12	
Table 6B - Operator's Share of Total Farm Expenses	. 13	
Explanatory Notes for Tables 2A, 2B, 3, 6A, 6B	. 14	
Supplementary Information Used in Enterprise Analysis		
Description of Measures of Farm Organization & Efficiency		
Table 8 - Measures of Farm Organization		
Table 9 - Crop Acres and Yields.		
Description of Crops Tables		
Table 10-0040 - Barley		
Table 10-0105 - Oats		
Table 10-0195 - Spring Wheat . <th .<="" td=""><td></td></th>	<td></td>	
Table 10-0265 - Canning Corn		
Table 10-0275 - Corn for Grain		
Table 10-0335 - Soybeans Soybe		
Table 10-0365 - Canning Peas		
Table 10-0400 - Alfalfa Hay		
Table 10-0545 - Grain (Oats) Silage	. 28	
Table 10-0550 - Corn Silage. . <th .<="" td=""><td>. 29</td></th>	<td>. 29</td>	. 29
Table 10-0575 - Tillable Grass Pastures.		
Description of Livestock Tables		
Table 11A-6470 - Complete Hog Enterprise		
Table 12-6290 - Dairy Cows, Commercial Herds		
Table 13-6310 - Other Dairy Cattle, Commercial Herd Replacements .		
Table 14 - All Dairy Cattle	. 35	
Table 15A-6100 - Beef Breeding Cattle, Range, Commercial Herd	. 36	
Table 15B-6130 - Beef Feeder Cattle, Grass Fed	. 37	
Table 15B-6140 - Beef Feeder Cattle, Feedlot		
Highlights of Type of Farms		
Summary by Years	- 43	

TABLE 1. FARM INVENTORIES - 1977

IAD	LE I. FARM INVENIORIES - 1977	Average				
ITE	MS	of 80				
		Farms				
1	SIZE OF FARM-TOTAL ACRES	380.0	***** ** *****************************			
2	-TILLABLE ACRES	328.1				
3	WORK UNITS-CROPS	167.22				
4	-LIVESTOCK	340.02				
5	-OTHER	8.57				
6	TOTAL SIZE OF BUSINESS IN WORK UNITS	515.81				
7	NUMBER OF WORKERS	1.87				
8	FARM CAPITAL INVESTMENT PER WORKER	\$176 , 389				
		JAN. 1	DEC. 31			
9	PRODUCTIVE LIVESTOCK					
10	DAIRY COWS	\$ 9,025	\$ 9,802			
11	OTHER DAIRY CATTLE	5,949	5,899			
12^{-1}	BEEF BREEDING CATTLE	936	1,053			
$13^{}$	BEEF FEEDER CATTLE	3,897	3,685			
14	HOGS	14,557	18,108			
15	SHEEP (INCL. FEEDERS) & GOATS	23	19			
16	POULTRY-ALL TYPES	18	5			
17	OTHER LIVESTOCK	19	19			
18	TOTAL PRODUCTIVE LIVESTOCK	\$ 34,424	38,591			
19	CROP, SEED AND FEED	\$ 51,341	\$ 56,455			
20	POWER, MACHINERY AND EQUIPMENT					
21	AUTO AND TRUCK (FARM SHARE)	\$ 5,259	\$ 5 , 262			
22	POWER AND MACHINERY	29,034	32,687			
23	IRRIGATION EQUIPMENT	337	307			
24	CUSTOM WORK EQUIPMENT					
25	LIVESTOCK EQUIPMENT	7,743				
26	TOTAL POWER, MACHINERY AND EQUIPMENT	\$ 42,374	\$ 46,850			
27	LAND	\$122,445	\$133,116			
28	BUILDINGS-FENCES-ETC.	48,943	54,942			
29	TOTAL FARM CAPITAL	\$299,527	\$329,953			
30	INCREASE OR DECREASE IN TOTAL FARM CAPITAL		\$ 30,426			

TABLE 1 shows the beginning and end of year inventory of farm capital. These inventories include both the value of the operator's assets as well as the landlord's in the case of rented assets. (Table 5 shows only the operator's share of farm capital.) Values of Productive Livestock, and Crop, Seed and Feed reflect the physical amounts on hand at the beginning and end of year multiplied by a conservative market price at the time. Power, Machinery, and Equipment values are cost less depreciation. Land is usually valued at cost. Measures of farm size other than total farm capital are shown in lines 1 through 7. The concept of Work Units is discussed on page 14. The number of workers shown on line 7 includes operator(s), hired labor, unpaid family labor, and the labor portion of custom work hired.

ITE	ИS	16 Most Profitable Farms	<u> </u>	16 Leas Profitabl Farms	
1 2 2	SIZE OF FARM-TOTAL ACRES -TILLABLE ACRES	479.5 430.2 217.67		342.7 294.6 152.07	
3 4	WORK UNITS-CROPS -LIVESTOCK	444.24		216.82	
4 5	-OTHER	10.32		5.33	
6	TOTAL SIZE OF BUSINESS IN WORK UNITS	672.22		374.21	
7	NUMBER OF WORKERS	1.94		1.54	
8	FARM CAPITAL INVESTMENT PER WORKER	\$257,913		\$195,958	
		JAN. 1	DEC. 31	JAN. 1	DEC. 31
9	PRODUCTIVE LIVESTOCK				
10	DAIRY COWS	\$ 5,997	\$ 5,921	\$ 5 ,31 6	
1 1	OTHER DAIRY CATTLE	3,625	3,056	4,067	
12	BEEF BREEDING CATTLE	796	450	1,465	1,534
13	BEEF FEEDER CATTLE	965	1,238	7,772	7,056
14	HOGS	41,571	47,868	6,640	13,036
15	SHEEP (INCL. FEEDERS) & GOATS				
16	POULTRY-ALL TYPES				
17	OTHER LIVESTOCK				+ 01 077
18	TOTAL PRODUCTIVE LIVESTOCK	\$ 52,954	\$ 58,531	\$ 25,260	\$ 31,977
19	CROP, SEED AND FEED	\$85 ,56 4	\$ 96,134	\$ 41,151	\$ 41,980
20	POWER, MACHINERY AND EQUIPMENT	+ = 104		h ((0)	Å (070
21	AUTO AND TRUCK (FARM SHARE)	\$ 7 , 136	\$ 7,165		\$ 6,873
22	POWER AND MACHINERY	37,658	48,836	26,246	
23	IRRIGATION EQUIPMENT			1,684	1,533
24	CUSTOM WORK EQUIPMENT	11 000	1/-	7 1 ()	7 0/0
25	LIVESTOCK EQUIPMENT	14,826		7,164	
26	TOTAL POWER, MACHINERY AND EQUIP.	\$ 59,62 0	\$ 73,748	\$ 41,787	\$ 44 , 390
27	LAND	\$185,958	\$209 , 264	\$1 17, 898	\$117,811
28	BUILDINGS-FENCES-ETC.	60,732	67,043	44,392	
29	TOTAL FARM CAPITAL	\$444 , 827	\$504,721	\$270 , 489	\$282 , 020
30	INCREASE OR DECREASE IN TOTAL FARM CAPITAL	\$	\$ 59,894		\$ 11 , 531

TABLE 1. FARM INVENTORIES - 1977 (CONT.)

* ALL FARMS ARE SORTED INTO HIGH AND LOW CATEGORIES BASED ON SIZE OF LABOR EARNINGS. FOR TABLES 1, 2A, 2B, 3, 8, and 9, THIS IS ON WHOLE FARM BASIS, TAKEN FROM TABLE 2B, LINE 46. FOR TABLES 4, 5, 6A and 6B, THIS IS ON OPERATORS SHARE BASIS, TAKEN FROM TABLE 6B, LINE 47.

TABLE 2A. TOTAL FARM RECEIPTS - 1977

ITEMS		Average of 80 Farms	16 Most Profitable Farms	l6 Least Profitable Farms	
1	SALE OF LIVESTOCK AND LIVESTOCK PRODUCTS			1 44 mb	
2	DAIRY COWS	\$ 2,671	\$ 2 , 375	\$ 1,445	
3	DAIRY PRODUCTS	32,495	27,209	20,435	
4	OTHER DAIRY CATTLE	2,338	619	2,362	
5	BEEF BREEDING CATTLE	201		358	
6	BEEF FEEDER CATTLE	5,787		9,819	
7	HOGS COMPLETE AND MIXED	34,093		16,366	
8	HOGS FINISHING	935	51,500	1,518	
9	HOGS PRODUCING WEANING PIGS	200		1,010	
0	SHEEP, GOATS AND WOOL, FARM FLOCK	27			
.1	SHEEP AND WOOL, FEEDER LAMBS	21			
.2	CHICKENS (INCL. HENS AND BROILERS)				
.3	TURKEYS				
.4	EGGS	99			
.5	OTHER PRODUCTIVE LIVESTOCK AND PRODUCTS	99 1			
6	OTHER MISC. LIVESTOCK INCOME	· L			
.7	TOTAL LIVESTOCK SALES	\$ 78,648	\$123,686	\$ 52,302	
.8	SALE OF CROPS				
.9	WHEAT	864	1,317	527	
0	OTHER SMALL GRAINS	696		691	
1	CORN	16,256	24,060	18,006	
2	SOYBEANS	13,767		5,190	
3	OTHER ROW CROPS	2,156		1,520	
24	LEGUMES AND OTHER FORAGE	460	411	30	
25	GRASS SEED			00	
26	FRUITS AND NUTS				
27	VEG. ROADSIDE MARKET AND SPECIALTY				
28	NURSERY, TIMBER AND OTHER				
.9	SET ASIDE ACRES-GOVERNMENT PAYMENTS				
80	TOTAL CROP SALES	\$ 34,199	\$ 65,197	\$ 25,965	
1	CAPITAL ASSETS SOLD	580	421	174	
32	GAS TAX REFUND	221	209	158	
33	INCOME FROM WORK OFF THE FARM	1,169	1,205	1,037	
4	CUSTOM WORK ENTERPRISE INCOME				
5	PATRONAGE REFUNDS	1,136	2,251	505	
6	MISCELLANEOUS FARM INCOME	1,430		759	
7	TOTAL FARM SALES	\$117,383		\$ 80,900	
8	INCREASE IN FARM CAPITAL	33,866	67,697	14,194	
39	FAMILY LIVING FROM THE FARM	550	400	442	
+0	TOTAL FARM RECEIPTS $(37)+(38)+(39)$	\$151.799	\$263,220	\$ 95,536	

SEE PAGE 14 FOR EXPANATORY NOTE FOR THIS TABLE.

		Average		16 Least
ITE	MS	of 80		
1	PURCHASE OF LIVESTOCK	Farms	Farms	Farms
2	DAIRY COWS	\$ 413	\$ <u>8</u> 18	\$
3	OTHER DAIRY CATTLE	487	42	1,239
4	BEEF BREEDING CATTLE	13		-,,
4 5	BEEF FEEDER CATTLE	1,808		4,394
5 6	HOGS COMPLETE AND MIXED	1,534	1,950	1,401
о 7		665	1 990	839
7 8	HOGS FINISHING	000		6.0
	HOGS PRODUCING WEANING PIGS	1		
9	SHEEP AND GOATS	L .		
	SHEEP, FEEDER LAMBS			
1	CHICKENS (INCL. HENS AND BROILERS)			
12	TURKEYS			
13	OTHER PRODUCTIVE LIVESTOCK	0	F F00	2 011
.4	MISCELLANEOUS LIVESTOCK EXPENSE	3,668	5,580	3,244
15	FEED BOUGHT	14,217		11,257
.6	FERTILIZER	7,943	9,358	8,412
17	CHEMICALS	3,340		3,456
.8	OTHER CROP EXPENSE	5,627	8,007	5,102
.9	IRRIGATION OPERATION COSTS	49		245
20	CUSTOM WORK ENTERPRISE OPERATOR COSTS,			
	INC. LABOR		'	
21	CUSTOM WORK HIRED	3,280		2,630
22	REPAIR + UPKEEP OF LIVESTOCK EQUIPMENT	1,067	2,234	1,014
23	REPAIR + UPKEEP OF FARM REAL ESTATE	1,932		3,604
24	GAS, OIL, GREASE BOUGHT (FARM SHARE)	3,223		2,739
25	REPAIR + OPERATOR OF MACH., TRACTOR, TRUCK AND AUTO	3,942	4,419	4,150
26	REPAIR + UPKEEP OF IRRIGATION EQUIPMENT	97		485
27	REPAIRS, CUSTOM WORK ENTERPRISE			
28	WAGES OF HIRED LABOR	3,947	5,901	2,408
29	PERSONAL PROPERTY + REAL ESTATE TAXES	3,262		2,755
30	GENERAL FARM EXPENSE	2,009		1,588
31	TELEPHONE EXPENSE (FARM SHARE)	2,009	2,373	222
32	ELECTRICITY EXPENSE (FARM SHARE)	1,523	2,097	1,250
33	TOTAL CASH OPERATING EXPENSE			•
	·	\$ 64,315		\$ 62,872
34	POWER, CROP AND GENERAL MACH. BOUGHT (FARM SHARE)		\$ 25,942	\$ 11,699
35	IRRIGATION EQUIPMENT BOUGHT	128	641	
36	CUSTOM WORK EQUIPMENT BOUGHT			
37	LIVESTOCK EQUIPMENT BOUGHT	2,908	6,109	2,374
38	NEW REAL ESTATE + IMPROVEMENT	21,806		5,380
39	TOTAL FARM PURCHASES (33) THRU (38)	\$102,803	\$157,600	\$ 82 , 325
40	DECREASE IN FARM CAPITAL	3,440	7,803	2,663
41 41	INTEREST ON FARM CAPITAL	18,884		\$ 16,575
42	UNPAID FAMILY LABOR	614		579
+2 43	LABOR CHARGE FOR PARTNERS+OTHER OPERATORS	2,250		1,688
+3 44	BOARD FURNISHED HIRED LABOR	535		1,149
		\$128,526		•
45	TOTAL FARM EXPENSE (39) THRU (44)			\$104,978
46	RETURN TO OPER. LABOR & MGMTSINGLE OPER. (WHOLE FARM) (2A/40)-(45)\$	\$ 23,273	\$ 66,769	\$(-9,442)
47	NUMBER OF OPERATORS	1	1	1
48	FULL TIME OPERATOR EQUIVALENTS	1.17	1.22	1.06
49	RETURN TO OPER. LABOR & MGMT/FULL TIME	22,255	60,145	(-8,150)
	OPER. EQUIVALENT	· · ·	e de la serve	

TABLE 3.	ENTERPRISE	STATEMENT	-	1977
----------	------------	-----------	---	------

ITEMS	l	verage of ⁸⁰ Farms	l6 Most Profitable Farms	l6 Least Profitable Farms
1 RETURNS AND NET INCREASES		·		
2 PRODUCTIVE LIVESTOCK				
3 DAIRY COWS	\$	32,670	27,499	\$ 20 , 408
4 OTHER DAIRY CATTLE	· . ·	5,636	2,761	3,538
5 BEEF BREEDING CATTLE		388	50	427
6 FEEDER CATTLE		3,290	1,756	4,781
7 HOGS, COMPLETE & MIXED		35,832	95,771	20,919
8 HOG FINISHING ENTERPRISE	•	626	,	1,194
9 PRODUCING WEANING PIGS			· .	•
O SHEEP AND GOATS		21		
1 SHEEP, FEEDER LAMBS				
2 CHICKENS (INCL. HENS AND BROILERS)		87		
3 TURKEYS				
4 OTHER PRODUCTIVE LIVESTOCK		1		
5 TOTAL ALL PRODUCTIVE LIVESTOCK	Ś	78,551	\$127,836	\$ 51,267
6 VALUE OF FEED FED TO LIVESTOCK	Ŷ	40,573	58,483	30,808
7 RETURN OVER FEED FROM LIVESTOCK		37.978	69.353	20,460
8 CROP, SEED AND FEED		48,603	82,694	29,011
9 COOPERATIVE PATRONAGE REFUNDS		1,136	2,251	505
O MISCELLANEOUS FARM INCOME		1,430	•	759
L CUSTOM WORK ENTERPRISE		-, 100		
I CUSION WORK ENTERFRISE				
2 TOTAL RETURNS AND NET INCREASES	\$	89,147	\$156,453	\$ 50 , 735
3 EXPENSES AND NET DECREASES				
4 TRUCK AND AUTO (FARM SHARE)	Ś	3,998	\$ 4,582	\$ 4 , 353
5 TRACTORS AND CROP MACHINERY		13,917		12,143
6 IRRIGATION EQUIPMENT		255		636
7 ELECTRICITY		1,523	2,097	1,250
8 LIVESTOCK EQUIPMENT		3,353		3,411
9 BUILDINGS, FENCES AND TILING		6,935	7,981	7,514
0 BARE LAND		(- 181)		
1 MISC. LIVESTOCK EXPENSE		3,668	5,580	3,244
2 LABOR		5,732		4,800
3 LABOR CHARGE OTHER OPERATOR(S)		2,250		1,688
4 PROPERTY TAX		3,262		2,755
5 GENERAL FARM EXPENSE AND TELEPHONE		2,278		1,810
6 INTEREST ON FARM CAPITAL		18,884	•	16,575
7 TOTAL EXPENSES AND NET DECREASES	\$	65,874	89 ,68 4	\$ 60 , 177
8 RETURN TO OPERATORS LABOR AND MANAGEMENT	r Ś	23,274	66 ,769	(-9,442)
9 NUMBER OF FARM OPERATORS	- Y	1	1	1
FE PACE 14 FOR EXPANATORY NOTE FOR THIS TAK				

SEE PAGE 14 FOR EXPANATORY NOTE FOR THIS TABLE.

E	AND	FAMII

3	A	verage	8 Most	F + - - -
8		-		5 Least
		of 38		Profitable
		Farms	Farms	Farms
NUMBER OF PERSONS - FAMILY		4	5	4
NUMBER OF ADULT EQUIVALEN - FAMILY		3.4	4.1	3.7
CHURCH AND WELFARE	\$	1,005	\$ 1,647	\$
TEDICAL CARE AND HEALTH INSURANCE		1,709	1,955	1,584
FOOD AND MEALS BOUGHT		2,457	2,377	3,000
OPERATING EXPENSE AND SUPPLIES		667	564	686
		785	608	1,324
		887	689	1,360
		438	419	335
•		432	259	620
		552	431	472
		964	1,764	379
		706	649	840
		59	180	
		395	293	404
		7		
	\$	11,063	\$ 1 1, 835	\$ 1 1, 484
		400	822	775
		49		
		4,397	9,228	4,900
		2,833	3,150	987
	\$	18,742	\$ 25,034	\$ 18,145
TOTAL FAMILY LIVING FROM THE FARM (33)		587	743	467
TOTAL CASH AND NON-CASH EXPENSES (21)+(22	2)\$	19,329	\$ 25,777	\$ 18 ,61 2
FAMILY LIVING FROM THE FA	RM			
	Qĭ	UANTITY	QUANTITY	QUANTITY
MTLK AND CREAM (OUARTS)		993	924	584
				540
		191	161	380
				- ·
TOTAL FAMILY LIVING FROM THE FARM		\$58 7	\$743	\$4 6 7
	UMBER OF ADULT EQUIVALEN - FAMILY HURCH AND WELFARE EDICAL CARE AND HEALTH INSURANCE OOD AND MEALS BOUGHT PERATING EXPENSE AND SUPPLIES URNISHINGS AND EQUIPMENT LOTHING AND CLOTHING MATERIALS ERS ONAL CARE, PERSONAL SPENDING DUCATION ECREATION ETFTS AND SPECIAL EVENTS ERSONAL SHARE TRUCK AND AUTO EXP. PER. SHARE UPKEEP ON DWELLING ASH RENT - PERSONAL ERSONAL SHARE TEL. AND ELECT. EXP. PERSONAL SHARE TEL. AND ELECT. EXP. ERSONAL SHARE TEL. AND ELECT. EXP. ERSONAL SHARE - GEN. FARM EXPENSE TOTAL CASH LIVING EXPENSE ERS. SHARE NEW TRUCK AND AUTO EW DWELLING BOUGHT AXES AND OTHER DEDUCTIONS IFE INSURANCE AND OTHER SAVING AND INVEST TOTAL HOUSEHOLD AND PERSONAL (16)-(20) TOTAL FAMILY LIVING FROM THE FARM (33) TOTAL CASH AND NON-CASH EXPENSES (21)+(2) FAMILY LIVING FROM THE FARM FAMILY LIVING FROM THE FARM HILK AND CREAM (QUARTS) EEF AND BUFFALO (POUNDS) OULTRY, ALL FOWL (POUNDS) OULTRY, ALL FOWL (POUNDS)	UMBER OF ADULT EQUIVALEN - FAMILY HURCH AND WELFARE \$ EDICAL CARE AND HEALTH INSURANCE 000D AND MEALS BOUGHT PERATING EXPENSE AND SUPPLIES URNISHINGS AND EQUIPMENT LOTHING AND CLOTHING MATERIALS ERSONAL CARE, PERSONAL SPENDING DUCATION ECREATION EIFTS AND SPECIAL EVENTS ERSONAL SHARE TRUCK AND AUTO EXP. PPR. SHARE UPKEEP ON DWELLING ASH RENT - PERSONAL EASONAL SHARE TEL, AND ELECT. EXP. ERSONAL SHARE TEL, AND ELECT. EXP. ERSONAL SHARE TEL, AND ELECT. EXP. ERSONAL CASH LIVING EXPENSE TOTAL CASH LIVING EXPENSE \$ TOTAL CASH LIVING EXPENSE \$ TOTAL CASH LIVING EXPENSE \$ TOTAL CASH LIVING FROM THE FARM (33) TOTAL CASH AND NON-CASH EXPENSES (21)+(22)\$ FAMILY LIVING FROM THE FARM QU MILK AND CREAM (QUARTS) EEF AND BUFFALO (POUNDS) CORK (POUNDS) OULTRY, ALL FOWL (POUNDS) COULTRY, ALL FOWL (POUNDS) COULTRY, ALL FOWL (POUNDS)	UMBER OF ADULT EQUIVALEN - FAMILY3.4HURCH AND WELFARE\$ 1,005EDICAL CARE AND HEALTH INSURANCE1,709OOD AND MEALS BOUGHT2,457PERATING EXPENSE AND SUPPLIES667URNISHINGS AND EQUIPMENT785LOTHING AND CLOTHING MATERIALS887ERS ONAL CARE, PERSONAL SPENDING432DUCATION432ECREATION552IFTS AND SPECIAL EVENTS964ERSONAL SHARE TRUCK AND AUTO EXP.706PPER. SHARE UPKEEP ON DWELLING59ASH RENT - PERSONAL59ERSONAL SHARE TEL. AND ELECT. EXP.395ERSONAL SHARE TEL. AND ELECT. EXP.395ERSONAL SHARE TEL. AND ELECT. EXP.395ERSONAL SHARE TRUCK AND AUTO400EW DWELLING BOUGHT49AXES AND OTHER DEDUCTIONS4,397.IFE INSURANCE AND OTHER SAVING AND INVEST2,833TOTAL CASH AND ONHER SAVING AND INVEST2,833TOTAL CASH AND NON-CASH EXPENSES (21)+(22)\$ 19,329FAMILY LIVING FROM THE FARMQUANTITYILK AND CREAM (QUARTS)993587ORK (POUNDS)772ORK (POUNDS)772ORK (POUNDS)191OULTRY, ALL FOWL (POUNDS)191OULTRY, ALL FOWL (POUNDS)191	UNREEN OF ADULT EQUIVALEN - FAMILY3.44.1HURCH AND WELFARE\$ 1,005\$ 1,647EDICAL CARE AND HEALTH INSURANCE1,7091,955COOD AND MEALS BOUGHT2,4572,377PERATING EXPENSE AND SUPPLIES667564URNISHINGS AND EQUIPMENT785608LOTHING AND CLOTHING MATERIALS887689ERS ONAL CARE, PERSONAL SPENDING438419DUCATION432259ECREATION552431IFTS AND SPECIAL EVENTS9641,764ERS ONAL SHARE TRUCK AND AUTO EXP.706649PER. SHARE UPKEEP ON DWELLING59180ASH RENT - PERSONAL59180ERS ONAL SHARE TEL. AND ELECT. EXP.395293ERS ONAL SHARE NEW TRUCK AND AUTO400822EW DWELLING BOUGHT49'AXES AND OTHER DEDUCTIONS4,3979,228JIFE INSURANCE AND ONTHER SAVING AND INVEST2,8333,150TOTAL CASH AND NON-CASH EXPENSES (21)+(22)\$19,329\$ 25,777FAMILY LIVING FROM THE FARMQUANTITYVUANTITY QUANTITYILKE AND CREAM (QUARTS)993993924 <tr< td=""></tr<>

TABLE 4 reports the cash and non-cash expenses of the farm operator's household. Averages include only those members who kept household and personal accounts complete enough to include at least line 5 (food and meals bought). As a result, only 38 out of the 80 farms were included in the averages. Accurate household and personal accounts are important if a family is to manage its financial affairs wisely and be able to check the accuracy of their financial account at the end of the year. If the family is unable or unwilling to keep accurate household records, then a household checking account separate from the farm checking account might be used.

9

1	n
L	υ

 TOTAL PRODUCTIVE LIVESTOCK CROP, SEED AND FEED TOTAL POWER, MACHINERY AND EQUIPMENT LAND BUILDINGS, FENCES, ETC. TOTAL FARM CAPITAL NON-FARM ASSETS CASH ON HAND & IN BANK 	\$ 34,400 49,066 40,382 63,714	\$ 38,888
 3 TOTAL POWER, MACHINERY AND EQUIPMENT 4 LAND 5 BUILDINGS, FENCES, ETC. 6 TOTAL FARM CAPITAL 7 NON-FARM ASSETS 7A CASH ON HAND & IN BANK 	40.382	
 4 LAND 5 BUILDINGS, FENCES, ETC. 6 TOTAL FARM CAPITAL 7 NON-FARM ASSETS 7A CASH ON HAND & IN BANK 	40,382 63,714	54,838
 5 BUILDINGS, FENCES, ETC. 6 TOTAL FARM CAPITAL 7 NON-FARM ASSETS 7A CASH ON HAND & IN BANK 	63,714	44,939
 6 TOTAL FARM CAPITAL 7 NON-FARM ASSETS 7A CASH ON HAND & IN BANK 		68,896
7 NON-FARM ASSETS 7A CASH ON HAND & IN BANK	49,055	53,316
7A CASH ON HAND & IN BANK	\$236,618	\$260,877
	29,003	31,306
	780	828
8 DWELLING	15,363	
9 TOTAL ASSETS	\$281,764	
10 REAL ESTATE MORTGAGES	39,376	45,665
11 CHATTEL MORTGAGES	30,584	30,148
12 NOTES	6,003	
13 ACCOUNTS PAYABLE	2,439	2,678
14 TOTAL LIABILITIES	\$ 78,401	\$ 85,399
15 FARMERS NET WORTH	\$203,363	\$223,411
16 GAIN (OR LOSS) IN NET WORTH	•	\$ 20,048
17 SUPPLEMENTRAY FINANCIAL INFORMATION	+ 00 510	
18 RETURN TO OPERATORS LABOR & MANAGEMENT (6B/47)	\$ 23,513	
19 RETURN TO CAPITAL AND FAMILY LABOR (6B/48) 20 NON-FARM INCOME	32,243	
20 NON-FARM INCOME 21 OUTSIDE INVESTMENT INCOME	1,413	
22 OTHER PERSONAL INCOME & INCOME TAX REFUND	1,088	
22 OTHER PERSONAL INCOME & INCOME TAX REFUND 22A SALE OF PERSONAL SHARE - DWELLING, AUTO & TRUCK	13	
23 TOTAL NON-FARM INCOME	\$ 2,514	
24 TOTAL FAMILY FARM AND NON-FARM INCOME		
25 TOTAL MONEY BORROWED	S 34 /5/	
26 TOTAL PAID ON DEBT (PRINCIPAL)	\$ 34,757 38 992	
27 TOTAL HOUSEHOLD + PERSONAL CASH/NON-CASH EXP $(4/23)$	38,992	
28 RATIO TOTAL FARM EXP TO TOTAL FARM REC OPER SHARE	38,992 32,811	
	38,992	

28	RATIO TOTAL FARM EXP TO TOTAL FARM REC OPER SHARE	.832	
		JAN. 1	DEC. 31
29	RATIO TOTAL ASSETS TO TOTAL LIABILITIES	3.594	3.616
30	RATIO NON-REAL EST. ASSETS-NON-REAL EST. LIAB.	3.937	4.299
31	RATIO REAL EST. ASSETS TO REAL EST. LIAB.	3.254	3.022
32	RATIO NET WORTH TO TOTAL LIABILITIES	2.594	2.616
33	RATIO CASH OPER. EXP TO ADJ. TOTAL FARM SALES (0.S.)		.657
	RATIO TOTAL FARM RECEIPTS TO AVE. FARM CAPITAL (W.F.)		.468
	RATIO TOTAL FARM RECEIPTS TO AVE. FARM CAPITAL (O.S.)		.564

TABLE 5 reports the assets, liabilities and resultant net worth position of the farm operator at the beginning and end of the year. (This asset list differs from TABLE 1 in that it includes the operator's non-farm assets and excludes the landlord's share of farm assets.) It also shows the change in net worth, or the growth in operator's equity (owned capital) during the year. Note that this TABLE 5 does not include addition to net worth resulting from appreciation in land values or (continued next page)

		15		16 Least			
ITEMS		Profitab	le Farms	Profitable Farms			
		Jan. 1	Dec.31	Jan. 1	Dec. 31		
1	TOTAL PROD LIVESTK	\$ 66,368	\$ 76,086	\$ 27,545	\$ 35,073		
2.	CROP, SEED AND FEED	75,039	92,079	41,511	42,798		
3	TOT PWR MACH EQUIP	61,174	75,948	44,429	46,395		
	LAND	110,565	134,425	64,502	64,415		
5	BLDG FENCE TILE ETC	77,462	82,640	49,240			
6	TOTAL FARM CAPITAL	\$390,608	\$461,179		50,445		
U	IUIAL FAMI CAFIIAL	Ş 390,0 00	3401,179	\$227,227	\$239,125		
7	NON-FARM ASSETS	19,031	20,530	51,825	53,775		
7A	CASH ON HAND & BANK	2,327	687	194	1,874		
8	DWELLING	19,166	19,133	13,061	13,465		
9	TOTAL ASSETS	\$431,133	\$501,528	\$292,306	\$308,238		
10	REAL ESTATE MORTGAGE	38,321	56,585				
11				53,559	59,499		
	CHATTEL MORTGAGES	32,117	31,466	47,797	50,695		
12	NOTES	12,532	11,822	6,008	6,303		
13	ACCOUNTS PAYABLE	3,562	4,338	817	2,342		
14	TOTAL LIABILITIES	\$ 86,532	\$104,211	\$108,180	\$118,840		
15	FARMER NET WORTH	\$344,601	\$397,317	\$184,127	\$189,399		
16	GAIN (LOSS) NET WORTH		\$ 52,717		\$ 5,272		
17	SUPPLEMENTARY FINANCIAL IN	FORMATION					
18	RT OP LAB MGT 6B/47	\$ 67,083		\$(-7,939)			
19	RT CAP FAM LAB 6B/48	84,536		(-1,276)			
		04,000		(-1,270)			
20	NON-FARM INCOME	517		0/0			
21	OUTSIDE INV INCOME	517		248			
22	OTHER PER INC & TX RF	1,018		2,267			
22A	SAL PER SHR-DWLNG	63		3			
23	TOT NON FM INCOME	1,598		2,518			
24	TOT FAM FM & NMF IN	86,134		1,242			
25	TOTAL MONEY BORROWED						
		54,401		37,516			
26	TOT PD ON PRINCIPAL	44,627		26,356			
27	TOT HH & PER C & NC $4/23$	12,857		10,289			
28	RATIO: TOT FM EX/REC OS	.760		1.081			
		JAN. 1	DEC. 31	JAN. 1	DEC. 31		
29	RATIO: TOT ASSETS T/LIAB	4.982	4.813	2.702	2.594		
3 0	RATIO: NON REA/RE LIAB	4.645	5.571	3.030	3.032		
31	RATIO: RE ASST/RE LIAB	5.407	4.174	2.368	2.157		
32	RATIO: N WRTH/TOT LIAB	3.982	3.813	1.702	1.594		
33	RATIO: CA OP EX/AFSA OF		.596		.913		
34	R: T FM REC/AV FM CAP WF		.488		.384		
35	R: T FM REC/AV FM CAP OS		.400		.419		
	A. I PPLADU/AV PPLUAT UD		.03/		.419		

other capital assets, so for credit purposes the operator may wish to revalue those classes of assets. While TABLE 1 showed farm assets for all 80 farms included in the Association averages, TABLE 5 includes data from only those 77 sole proprietorships which had complete net worth data. Net worth data for partnerships were excluded when each partner had a separate analysis.

TABLE 6A. OPERATORS SHARE OF TOTAL FARM RECEIPTS - 1977

TEN	ИS	Average of 80 Farms	16 Most Profitable Farms	16 Least Profitable Farms
1	SALE OF LIVESTOCK AND LIVESTOCK PRODUCTS	Farms	<u>ratms</u>	<u> </u>
2	DAIRY COWS	\$ 2,671	\$ 3,407	\$ 1,279
3	DAIRY PRODUCTS	32,443	41,492	19,314
4	OTHER DAIRY CATTLE	2,338	2,169	
5	BEEF BREEDING CATTLE	2,550	42	381
6	BEEF FEEDER CATTLE	5,787		
7	HOGS COMPLETE & MIXED	34,093		21,045
8	HOGS FINISHING	935	553207	1,518
9	HOGS PRODUCING WEANING PIGS	,,,,		-,510
0	SHEEP, GOATS AND WOOL, FARM FLOCK	27		
1	SHEEP, GOATS AND WOOL, FANN FLOCK SHEEP AND WOOL, FEEDER LAMBS	<i>41</i>		
2	•			
2 3	CHICKENS (INCL. HENS AND BROILERS)			
5 4	TURKEYS	99		
	EGGS	1		
5	OTHER PRODUCTIVE LIVESTOCK & PRODUCTS	T		
6	OTHER MISCELLANEOUS LIVESTOCK INCOME			
7	TOTAL SALES OF PRODUCTIVE LIVESTOCK	\$ 78 , 596	\$148,350	\$ 56,346
8	SALE OF CROPS			
9	WHEAT	· 861	1,303	531
)	OTHER SMALL GRAIN	687	260	691
Ĺ	CORN	15,566	20,760	15,256
2	SOYBEANS	13,032	25,668	
3	OTHER ROW CROPS	2,065	1,353	532
, ,	LEGUMES & OTHER ROUGHAGE	455	528	30
5	GRASS SEED		520	20
5	FRUITS & NUTS			
7	VEGETABLES, ROADSIDE MAKT. & SPECIALTY			
8	NURSERY, TIMBER & OTHER			
9	SET ASIDE ACRES - GOVERNMENT PAYMENTS			
,	SEI ASIDE AGAES - GOVERNMENT TATMENTS			
)	TOTAL SALES FROM CROPS	\$ 32,666	\$ 49,873	\$ 23,196
L	CAPITAL ASSETS SOLD	580	767	174
2	GAS TAX REFUND	221	230	231
3	INCOME FROM WORK OFF THE FARM	1,169	2,132	939
4	CUSTOM WORK ENTERPRISE INCOME			
5	PATRONAGE REFUNDS	1,136	2,033	417
5	MISCELLANEOUS FARM INCOME	1,429	2,045	1,999
7	TOTAL FARM SALES	\$115,797	\$205,429	\$ 83,301
3	INCREASE IN FARM CAPITAL	33,144	71,815	14,052
5 9	FAMILY LIVING FROM THE FARM	550	670	401
)	TOTAL FARM RECEIPTS $(37)+(38)+(39)$	\$149,491	\$277,914	\$ 97 , 754
				, , - - '
1	ADJUSTED TOTAL FARM SALES (37)-(31)	115,217	204,663	83,127
<u>^</u>	TOTAL CASH FARM OPERATING EXPENSE	74,952	120,891	75,918
2				

SEE PAGE 14 FOR EXPLANATORY NOTE FOR THIS TABLE.

ITE	MS	Average of ⁸⁰ Farms	16 Most Profitable Farms	16 Least Profitable Farms
1	PURCHASE OF LIVESTOCK	1 4 1 110	141.00	raims
2	DAIRY COWS	ş 413	\$ 418	\$
		487	321	1,239
3	OTHER DAIRY CATTLE	13	JZL	
4	BEEF BREEDING CATTLE			47
5	BEEF FEEDER CATTLE	1,808	0.000	4,394
6	HOGS COMPLETE	1,534	2,026	1,438
7	HOGS FINISHING	665		839
8	HOGS PRODUCING WEANING PIGS			
9	SHEEP, FARM FLOCK	. 1		
0	SHEEP, FEEDER LAMBS			
.1	CHICKENS			
.2	TURKEYS			
.3	OTHER PRODUCTIVE LIVESTOCK			
	MISCELLANEOUS LIVESTOCK EXPENSE	3,668	7,133	3,426
.5	FEED BOUGHT	14,217		
.6	FERTILIZER		11,407	
.7	CHEMICALS	3,252		3,320
		5,584	•	4,763
8		49	0,154	245
9	IRRIGATION OPERATION COST	49		245
	CUSTOM WORK OPERATOR COSTS, INCL. LABOR	2 0 00		0 010
1	CUSTOM WORK HIRED	3,280	•	2,810
2	REPAIR + UPKEEP OF LIVESTOCK EQUIPMENT	1,067		973
3	REPAIR + UPKEEP OF FARM REAL ESTATE	1,932		
4	GAS, OIL, GREASE BOUGHT (FARM SHARE	3,223	4,224	3,094
5	RPR & OPN MACH, TRAC, TRUCK, AUTO (FS)	3,942	5,168	4,183
.6	REPAIR & UPKEEP OF IRRIGATION EQUIPMENT	97		485
27	REPAIRS, CUSTOM WORK ENTERPRISE	*		
.8	WAGES OF HIRED LABOR	3,947	6,259	3,610
9	PERSONAL PROPERTY + REAL ESTATE TAXES	2,751		2,714
10	CASH RENT	4,002	•	
	GENERAL FARM EXPENSES	2,009		1,752
	TELEPHONE EXPENSE (FARM SHARE)	2,009	339	229
3	ELECTRICITY EXPENSE (FARM SHARE)	1,523	2,387	1,352
84	INTEREST EXPENSE	7,397	9,658	7,960
5	TOTAL CASH OPERATING EXPENSE	ş 74 , 952	\$120,891	\$ 75,918
. 66	POWER, CROP & GENERAL MACH. BOUGHT (FS)	13,645	24,237	11,819
37	IRRIGATION EQUIPMENT BOUGHT	128	641	
8	CUSTOM WORK ENTERPRISE EQUIPMENT BOUGHT			
9	LIVESTOCK EQUIPMENT BOUGHT	2,908	7,349	2,370
0	NEW REAL ESTATE + IMPROVEMENTS	21.394	33,934	5,447
1	TOTAL FARM PURCHASES (35) THRU (40)	\$113,027	\$187,052	\$ 95,554
+2	DECREASE IN FARM CAPITAL	3,461		2,154
+2	INTEREST ON FARM CAPITAL (EQUITY)	8,116		
+4	UNPAID FAMILY LABOR	614	429	632
¥5	BOARD FURNISHED HIRED LABOR	526	440	1,323
+6	TOTAL FARM EXPENSE (41) THRU (45)			
47	RETURN TO OPERATOR LABOR & MANAGEMENT (OPERATORS SHARE)(6A/40)-(46)	\$ 23,747	\$ 65,670	(-7,939)
48		\$ 32 477	\$ 82,619	(-1,276)
	(47)+(44)+(43)	Ÿ J2,₩//	Υ 02,017	(-1,2/0)

TABLE 6B. OPERATOR'S SHARE OF TOTAL FARM EXPENSES - 1977

EXPLANATORY NOTES FOR TABLES 2A, 2B, 3, 6A, 6B

TABLES 2A & 2B comprise the earnings statement for the whole farm (including both operator's and landlord's shares). Lines 1 through 34 and line 36 of TABLE 2A show all sources of cash income to the farm. Line 38 reflects any increase in farm capital, while line 39 credits the business for any produce used by the family. Line 35 records the amount of patronage refunds credited to the business, part of which may have been received as cash and part as equity shares. TABLE 2B shows in lines 1 through 39 all cash expenses of the farm except principal and interest payments on farm debt. Note that cash rent is also not included, as it is an internal farm transaction between operator and landlord. Line 40 reflects any decrease in inventory while line 41 shows an interest return or charge of 6% for all farm capital. Line 46, Labor Earnings, represents the return for the operator's labor and management after all expenses (cash, accrual and imputed) are deducted. In the case of partnerships, line 43 assigns a fixed return to one partner, with the residual return going to the other (line 46). In line 49, the fixed return to one partner is added back to the residual (line 46) and that number is divided equally among the partners.

TABLE 3 represents another way of categorizing and reporting the receipts, expenses and labor earnings of the total farm business. In lines 2-21, cash receipts are adjusted for changes in inventory for each production enterprise, thus giving a better picture of the "value produced" contribution of each enterprise. In lines 24-30, each category of cash expense is adjusted for inventory. Line 33, fixed return to one partner, and line 36, interest charge on farm capital, are handled in the same manner as comparable items were in TABLE 2B (lines 43 and 41, respectively). Although calculated in a different way, the resulting labor earnings (line 38) is equal to that in TABLE 2B (line 46). Lines 24, 25, 28, and 29 actually report the sum of four cost items for each of these categories of capital assets. They are: depreciation; gas, oil, and grease bought; repair and operation cost; and share of custom work hired that was attributed to this category of asset (i.e., 80% of milk hauling cost might be attributed to truck and auto expense). While depreciation cannot be calculated directly from these tables, it can be approximated by the calculation: beginning inventory (TABLE 1) plus assets bought (TABLE 2B) minus ending inventory (TABLE 1). The number missing for a complete depreciation calculation is capital asset sales, which is not given for each category of assets in these tables (but is given for all assets in TABLE 2A).

TABLES 6A & 6B constitute the earnings statement for the operator. TABLES 6A & 6B therefore, are similar to TABLES 2A & 2B, except 6A & 6B exclude the landlord's share of income and expenses. Thus for the full owner-operator, TABLES 2A & 6A should be identical through line 40. TABLES 2B and 6B differ in that 6B includes cash rent paid (line 30) and interest paid on borrowed money (line 34). Line 43 of TABLE 6B thus contains an interest charge on only the operator's equity farm capital, whereas in line 41, TABLE 2B, interest was charged on all farm capital. Line 48 of TABLE 6B thus represents return to operator and family unpaid labor and management and equity capital. When money spent on family living is subtracted from line 48, the remainder plus non-farm income should be equal to the increase in net worth, shown in line 16 of TABLE 5.

SUPPLEMENTARY INFORMATION USED IN ENTERPRISE ANALYSIS

Number of	Work	Units	for	Crop	and	Livestoc	k Enterpr	ises

Livestock Enterprise	Work Units	Crop Enterprise	Work Units Per Acre
Complete Hog Enterprise	.12/cwt	Oats, wheat, barley	.30
Dairy Cows Other Dairy Cattle	7.00/cow 1.20/head	Canning Corn Corn for grain	.50 .55
Beef Breeding Cows, Range	•	Soybeans	.45
Beef Feeder Cattle, Grass	.10/cwt	Canning Peas	.40
Beef Feeder Cattle, Feedlo	t .12/cwt	Alfalfa Hay, Corn Silage Oats Silage	.60 .40
		Tillable grass pasture	.04

Average Prices Used in Analysis

		a,	, Beginning	Ending		
Product	Feed	Harvest -	Inventory	Inventory	Pasture pe	r head per mo.
Oats/bu	\$ 1.20	\$ 1.00	\$ 1.50	\$ 1 .1 0	Cows	\$6.00
Wheat/bu	2.50	2.20	2.70	2.50	Calves	3.00
Corn for Grain/bu	2.00	1.60	2.25	1.90	Hogs	0.40
Soybeans/bu	-	5.00	6.60	5.50	Sheep	1.00
Alfalfa Hay/ton	50.00	45.00	65.00	40.00	Lambs	0.50
All other Hay/ton	40.00	30.00	55.00	35.00	Products l	sed at Home
Corn Silage/ton	16.00	14.00	16.00	15.00	Straw	\$0.50/bale
Oats Silage/ton Barley	15.00 1.60	$15.00 \\ 1.60$	$20.00 \\ 1.60$	$15.00 \\ 1.60$	Milk Cream	\$1.00/gal. \$1.00/qt.
Unpaid family labo	r \$500/mc	o. or \$2.50	/hr.		Eggs	\$0.60/doz.
Board for hired la	bor \$4/da	ay or \$120/	mo.			
Second Operator's	Labor \$10),000/yr.				

Animal or Livestock Units Used in Analysis

Enterprise	Per Adult	Per Other
Complete Hogs	.40	.20
Dairy Cows	1.00	.50
Other Dairy Cattle	1.00	.50
Beef Breeding Cows	.80	.30
Beef Feeder Cattle	1.00	1.00

a/ For crop enterprise analysis (TABLE 10's) a constant harvest price was used on almost all farms, but other prices were used on a few. Therefore when comparing your own individual analysis for a particular crop with the Association average, be sure to check the price used in your analysis with Association average price (line 3 of TABLE 10's) and adjust your returns accordingly.

DESCRIPTION OF MEASURES OF FARM ORGANIZATION AND MANAGEMENT EFFICIENCY

The following explanations and definitions are for use in interpreting Table 8 and the Thermometer Chart.

- 1. <u>Labor Earnings</u> A measure of the relative financial return for the operator's labor taking into account all income and expense, cash and non-cash, including a charge for the use of farm capital. This is based on the whole farm business and is found in Table 2B and Table 3.
- 2. <u>Crop Yield Index</u> A measure of the crop yield level for all crops produced expressed as a percentage of the Association average.
- 3. <u>Percent of Tillable Land in High Return Crops</u> A measure of crop selection based on a rating of individual crops. Crop ratings take into account such things as dollar return, effect on soil, TDN yield, labor required, etc. Ratings can be found on Table 9.
- 4. <u>Gross Return Per Acre</u> An additional measure of crop selection based on total production times an average price for the crops.
- 5. <u>Return per \$100 Feed Fed to Productive Livestock</u> Measures the general level of efficiency for all livestock. It is expressed as a percentage of the Association average and combines the individual indexes for all livestock enterprises on the farm into one figure.
- 6. <u>Livestock Units Per 100 Acres</u> A measure of livestock density or population. Unit values are assigned to the various classes of livestock.
- 7. <u>Size of Business Work Units</u> A measure of the size of farm business, or total work load. A work unit represents the average accomplishment of a worker in one 10 hour day. Work Unit values are assigned to each class of livestock, each crop, and to other tasks utilizing farm labor. Total work units may also be interpreted differently for different farm situations such as work efficiency, degree of mechanization, careful planning, or hours worked. While it does not measure how hard a farmer works, it does measure how much is being accomplished on the farm.
- 8. <u>Work Units Per Worker</u> Measures labor efficiency. Total work units divided by the number of workers including the operator, hired labor, and family labor.
- 9. <u>Power, Machinery, Equipment and Building Expense Per Work Unit</u> A measure of expense control. It is the total cost of items listed in Table 3 divided by the number of work units.
- 10. Farm Capital Investment Per Worker Indicates size of business. Useful in comparing a farm business to other industries or businesses.

Other items listed on Table 8 are related to the above measures and serve to further define and describe the efficiency level of a farm business. Note should be taken that items listed in Table 8 and the Thermometer Chart are to be considered in light of the individual farm and farm operator. Although in general, an above-average level for each factor listed would indicate an above average earnings, this may not be true when individual farms are considered. The interrelationship of factors varies from farm to farm.

TABLE	8.	MEASURES	OF	FARM	ORGANIZATION	AND	EFFICIENCY	 1977	

ITEMS		16 Most Profitable	
T T T T T T T T T T T T T T T T T T T		Farms	
1 RETURN TO OPERATORS LABOR & MANAGEMENT	\$ 23,273		
2 CROP YIELD INDEX	T00.0	101.4	
3 PERCENT TILLABLE LAND IN HIGH RETURN CROP	80.2	90.0 \$ 205.36	
4 GROSS RETURN PER TILL ACRE (EXCL PASTURE)			
5 RET PER \$100 FEED FED PROD LVSTOCK INDEX		107.0	
6* LIVESTOCK UNITS PER 100 ACRES	30.91	47.49	31.42
 7 SIZE OF BUSINESS-WORK UNITS 8 WORK UNITS PER WORKER 9 PWR MACH EQUIP BLDG EXPENSE/WORK UNIT 	515.81	6/2.22	3/4.21
8 WORK UNITS PER WORKER	275.83	346.51	242.99
9 PWR MACH EQUIP BLDG EXPENSE/WORK UNIT	\$ 58.12	\$ 59. 70	\$ 78 . 31
0 FARM CAPITAL INVESTMENT PER WORKER	\$ 168, 310	\$244,729	\$179 , 386
1 INDEX OF RETURN PER \$100 FEED FED			
2 6010A BEEF BREDING RANGE/COM/GEN/COW HEH	D 100.0	-	88.1
3 6100A BEEF BREDING FARM, WHOLE HRD, COM	100.0	56.6	-
4 6130A BEEF FEEDERS GRASS FED	100.0	-	77.7
5 6140A BEEF FEEDERS FEEDLOT	100.0	128.5	121.1
6 6290A DAIRY COWS, COMMERCIAL, GENERAL	100.0	104.3	89.4
7 6310A OTHER DAIRY, COMMERCIAL, REPLACEME	ENTS 100.0	70.3	95.0
8 6470A HOGS, FARROW, FINISH, GENERAL	100.0	110.1	83.9
9 6490A HOGS, FINISHING	100.0	-	98.2
0 6530A HOGS, MIXED SYSTEMS	100.0	115.8	
0 NUMBER OF ANIMAL UNITS	122.69	208.86	94.51
1 WORK UNITS			
2 CROPS	167.22	217.67	152.07
3 PRODUCTIVE LIVESTOCK		444.24	
4 OTHER PRODUCTIVE WORK UNITS	8.57		
5 EXPENSES PER WORK UNIT			
6 TRACTOR & CROP MACHINERY EXPENSE	\$ 27.48	\$ 29.69	\$ 34.15
7 FARM SHARE OF AUTO & TRUCK EXPENSE			11.63
8 FARM SHARE OF ELECTRIC EXPENSE	2 95	6.82 3.12	3.34
9 LIVESTOCK EQUIPMENT EXPENSE	6.50	8.19	9.12
0 BUILDING, FENCE & TILING EXPENSE		11.87	
1**TRACTOR & CROP MACH EXPENSE/CROP ACRE	10.44 // 20	μι _ο ογ	40.00 /1 00
2 FARM PWR & MACH COST ALLOCATED TO LVSTK	44.37	44.91 4,601.86	41.44 2 /20 00
3 BUILDING, FENCE TILE COST ALLOCATED TO LVSTK	J, 241.41	4,001.00 1 /00 76	2,420.00 1 837 33
JOILDING, FENCE ILLE COST ALLOU TU CROPS	T,100.33	1,470./0	1,00/.00

* ACRES INCLUDE ALL TILLABLE LAND, NON-TILLABLE HAY & PASTURE

** ACRES INCLUDE ALL TILLABLE LAND PLUS ACRES IN NON-TILLABLE HAY

TABLE 9. CROP ACRES, YIELDS, RETURNS AND							
	Average	16 Most	16 Least				
CROP	of 80	Profitable	Profitable				
	Farms	Farms	Farms				
	acres	acres	acres				
SMALL GRAIN & CANNING PEAS		22.5	43.3				
ROW CROPS	230.8		203.1				
LEGUMES, INCLUDING SEED	44.9						
OTHER HAY	1.1	-	-				
SILAGE & FODDER	15.1		12.7				
TILLABLE PASTURE	2.8	2.5	.7				
FALLOW & IDLE LAND	 7 <u>a</u> /		-3.4 <u>a</u> /				
TILLABLE LAND	328.1	430.2	294.6				
NON TILLABLE HAY/PASTURE	4.3	9.5	6.3				
WILD HAY NOT HARVESTED (NON TILLABLE)	1.3	.6	1.3				
PASTURE NOT HARVESTED	14.2		11.8				
TIMBER NOT HARVESTED		4.4					
ROADS & WASTE	14.5	11.8	12.6				
FARMSTEAD	10.6	8.8	11.4				
LAND NOT HARVESTED	47.6	39.8	41.9				
NON TILLABLE LAND	51.9	49.3	48.2				
LAND IN FARM OR RANCH	380.0	479.5	342.8				
SUPPLEMENTARY MANAGEMENT INFORMATION	9 06 0	% 89.7	% 86.0				
PERCENT LAND TILLABLE		% 99.7 % 90.0	% 76.6				
PERCENT LAND IN HIGH RETURN CROPS							
FERTILIZER COST PER ACRE		\$19.83					
CROP CHEMICALS PER ACRE	\$10.94	\$11。94	•				
SEED & OTHER COSTS PER ACRE		\$15.58	•				
GAS, OIL & GREASE BOUGHT PER ACRE	\$ 6.80	\$ 6.31	\$ 6.45				

TABLE 9.	CROP	ACRES,	YIELDS,	RETURNS	AND	SUPPLEMENTARY	MANAGEMENT	INFORMATION	

Crop	Crop Rank	No. Farms Growing	Acres Per Farm	Total Acres	Yield	Return Over Direct Costs Per Acre
BARLEY	D	5	36.5	183	71.2 bu.	s 99.78
OATS	D	51	30.5	1,556	76.0 bu.	60.65
SPRING WHEAT	С	22	31.3	689	42.9 bu.	72,96
CANNING CORN	В	8	68.0	544	\$219.94	142.61
CORN FOR GRAIN	А	85	162.7	13,830	119.9 bu.	114.03
SOYBEANS	А	46	103.3	4,752	43.0 bu.	189.23
CANNING PEAS	В	5	39.2	196	\$335.13	302.43
ALFALFA HAY	В	60	59.7	3,582	4.3 t	166.97
OATS SILAGE	С	12	27.6	331	7.4 t	91.53
CORN SILAGE	А	38	20.7	787	17.9 t	178.46
TILLABLE GRASS PASTURE	D	7	20.5	144	\$ 59.85	51.80

 $\underline{a}/$ Negative sign means that area double cropped exceeded area not cropped by the amount shown.

DESCRIPTION OF CROPS TABLES

The following tables for each individual crop represent an attempt to calculate the costs and returns for these enterprises. Returns include the value of the crop produced --line 4-- (which was calculated as measured yield multiplied by a common harvest-time price--see footnote for exceptions) plus other crop income. The latter has two components: a cash component, such as diverted acre payments, deficiency payments, crop insurance payments for a loss, sale of a by-product (such as straw) etc; and a non-cash component, which is the operator's estimate of the value of straw, corn stalks, and other crop by-products and residues used in livestock enterprises.

Two categories of costs are calculated. The first consists of costs that are "directly" attributable to that crop, such as fertilizer, chemicals, seed, etc., and are normally recorded on pages 38-39 of the Account Book. These are normally all cash costs, although some may have been actually paid in a previous year, i.e., fertilizer paid for last year but used on this year's crop. Thus the sum of fertilizer costs for all crops may not necessarily equal total fertilizer purchased in the current year as reported in TABLES 2B and 6B. The costs in this "direct" category may also be called variable costs, in two ways. The first is in that the level of these costs per acre can be varied by the farmer, such as varying the amount of fertilizer per acre, etc. The second is in that the total of these costs usually vary in direct proportion to the number of acres grown. For example, if 10% fewer acres of corn were planted, expenses for corn seed and fertilizer might decrease by 10%. The second category of costs represents an attempt to "allocate" some costs that are not easily attributable to a specific enterprise. Some are cash costs and others are noncash, some are variable and others are fixed or overhead costs. For example, the ownership cost of farm power and machinery consists of depreciation, which is a non-cash, fixed cost that continues even if corn acreage is cut back by 10%. In contrast, the operation cost of farm power and machinery, which, includes fuel, lubricants, and repair, is a cash variable cost.

The power and machinery costs (both ownership and operation) were allocated among crop (and livestock when present) enterprises on the basis of work units. The ownership costs and the total operation costs are each divided by the sum of total crop work units plus one-tenth of the total livestock work units (or one-twelfth if livestock work units are greater than 400) because livestock use relatively less power per work unit than crops. The resulting ownership cost per work unit is then multiplied by the standard work unit per acre figure to obtain the allocated cost per acre. The same procedure is followed for operation costs. If the operator feels that this procedure does not adequately reflect his relative use of power among enterprises, or if he wants some enterprises to carry a relatively heavier cost burdon than others, then he may modify the allocation by the use of different values for the Power Cost Allocation Factor (PCAF).

Land cost shown is an attempt to measure the opportunity cost of the land. For the tenant, the cash rent or equivalent was reported. For the owner-operator, the amount that could be received for renting out the land was obtained. Interest on machinery and equipment investment was calculated at 6% on the average amount held during the year (beginning plus ending inventories divided by two).

TABLE	10-0040	-	CROP	DATA	FOR	BARLEY		1977
-------	---------	---	------	------	-----	--------	--	------

ITE	MS	Average of 5 Farms
1 2	ACRES YIELD PER ACRE, BUSHELS	36.5 71.2
3 4 5	VALUE PER BUSHEL CROP PRODUCT RETURN OTHER CROP INCOME	\$ 1.60 113.92 \$ 113.92
6 7	TOTAL CROP RETURN PER ACRE	ş 11 3. 72
8 9	FERTILIZER CHEMICALS	\$ 9.01 .14
10 1 1 12	SEED & OTHER SPECIAL HIRED LABOR CUSTOM WORK HIRED	4.52 .47
13 14	IRRIGATION OPERATION TOTAL DIRECT COSTS	14.14
15	RETURN OVER DIRECT COSTS PER ACRE	\$ 99.78
16 17 18 19	ALLOCATED COSTS PER ACRE FARM POWER & MACHINERY - OWNERSHIP FARM POWER & MACHINERY - OPERATION IRRIGATION EQUIPMENT - OWNERSHIP	\$ 25.54 16.83
20 21	LAND COSTS MISCELLANEOUS COSTS	65.00
22 23	INTEREST ON MACH. & EQUIP. INVESTMENT TOTAL ALLOCATED COSTS PER ACRE	7.42 114.79
24	RETURN OVER ALL LISTED COSTS PER ACRE	\$(-15.01)
25 26 27 28 29 30 31	SUPPLEMENTARY MANAGEMENT INFORMATION WORK UNITS ASSIGNED PER ACRE POWER COSTS ALLOCATION FACTOR TOTAL LISTED COST PER BUSHEL RETURN OVER LISTED COSTS PER BUSHEL * BREAKEVEN YIELD, BUSHELS TOTAL LISTED COSTS PER ACRE	.30 .82 \$ 1.81 \$ (21) 80.58 \$ 128.93

 \star to cover total listed costs per acre (line 31) at price given on line 3.

TABLE 10-0105 - CROP DATA FOR OATS - FEED - 1977

ITEI	ЛS	Average of 51 Farms		Lowest
1	ACRES	30.5	26.8	
2	YIELD PER ACRE, BUSHELS	76.0	95.2	61.3.
3	VALUE PER BUSHEL	\$ 1.02	\$ 1.01	
4	CROP PRODUCT RETURN	77.48	96.19	
5	OTHER CROP INCOME	.46	.90	
6	TOTAL CROP RETURN PER ACRE	77.94	97.09	63.89
7	DIRECT COSTS PER ACRE			
8	FERTILIZER	\$ 4.69	\$ 5.67	\$ 4.09
9	CHEMICALS	.43	.67	
10	SEED & OTHER	8.79	9.37	8.26
11	SPECIAL HIRED LABOR			
12	CUSTOM WORK HIRED	3.38	4.70	2.43
13 14	IRRIGATION OPERATION TOTAL DIRECT COSTS PER ACRE	17.29	20.41	15.04
15	RETURN OVER DIRECT COSTS PER ACRE	60.65	76.68	48.85
16	ALLOCATED COSTS PER ACRE			
17	FARM POWER & MACHINERY - OWNERSHIP	\$ 13.33		•
18	FARM POWER & MACHINERY - OPERATION	10.05	8.53	10.89
19 20	IRRIGATION EQUIPMENT - OWNERSHIP LAND COSTS	61.08	64.60	57.40
20	MISCELLANEOUS COSTS	01.00	04.00	57.40
22	INTEREST ON MACH. & EQUIP. INVESTMENT	3.30	2.83	3.68
23	TOTAL ALLOCATED COSTS PER ACRE	87.76	88.26	
24	RETURN OVER ALL LISTED COSTS PER ACRE	(-27.11)	(-11.58)	(-37.20)
25	SUPPLEMENTARY MANAGEMENT INFORMATION			
26	WORK UNITS ASSIGNED PER ACRE	.30	.30	.30
2 7	POWER COSTS ALLOCATION FACTOR	. 84	.82	
28	TOTAL LISTED COST PER BUSHEL			
29		\$ (36)	\$ (12)	
30*	BREAKEVEN YIELD, BUSHELS	102.99	107.59	97.20
31	TOTAL LISTED COSTS PER ACRE	\$105.05	\$108 .6 7	\$101.09

* TO COVER TOTAL LISTED COSTS PER ACRE (LINE 31) AT PRICE GIVEN ON LINE 3.

21

LE 10-0195 - CROP DATA FOR SPRING WHEAT		11 Farms	11 Farms
MS		Highest	Lowest
ACRES	31.3	33.2	29.3
YIELD PER ACRE, BUSHELS	42.9	50.2	34.8
VALUE PER BUSHEL	\$ 2.20		
	94.31	110.33	76.59
	4.98	2.23	8.16
TOTAL CROP RETURN PER ACRE	99.29	112.56	84.75
DIRECT COSTS PER ACRE			
FERTILIZER	•		
CHEMICALS			
SEED & OTHER	7.67	7.50	7.88
	2.68	4.04	1.16
TOTAL DIRECT COSTS PER ACRE	26.33	26.38	26.34
RETURN OVER DIRECT COSTS PER ACRE	72.96	86.18	58.41
ALLOCATED COSTS PER ACRE	A 11 10	A 10 70	6 1 1 FF
	• •		
	8.43	8.12	8.81
	(0.00	60 61	E1 00
	60.23	08.04	51.82
MISCELLANEOUS COSTS	0.70	0 57	2 02
TOTAL ALLOCATED COSTS PER ACRE	82.51	90.11	/5.11
RETURN OVER ALL LISTED COSTS PER ACRE	(-9.55)	(-3.93)	(-16.70)
SUPPLEMENTARY MANAGEMENT INFORMATION			
WORK UNITS ASSIGNED PER ACRE	.30	.30	.30
	.92	. 92	.93
	\$ 2.54		^{\$} 2.91
	^{\$} (22)	\$ (08)	\$ (48)
BREAKEVEN YIELD, BUSHELS	49.47	52.95	46.11
TOTAL LISTED COSTS PER ACRE	\$108.84	\$116.49	\$101.45
	MS ACRES YIELD PER ACRE, BUSHELS VALUE PER BUSHEL CROP PRODUCT RETURN OTHER CROP INCOME TOTAL CROP RETURN PER ACRE DIRECT COSTS PER ACRE FERTILIZER CHEMICALS SEED & OTHER SPECIAL HIRED LABOR CUSTOM WORK HIRED IRRIGATION OPERATION TOTAL DIRECT COSTS PER ACRE RETURN OVER DIRECT COSTS PER ACRE ALLOCATED COSTS PER ACRE FARM POWER & MACHINERY - OWNERSHIP FARM POWER & MACHINERY - OWNERSHIP HAND COSTS MISCELLANEOUS COSTS INTEREST ON MACH. & EQUIP. INVESTMENT TOTAL ALLOCATED COSTS PER ACRE RETURN OVER ALL LISTED COSTS PER ACRE RETURN OVER ALL LISTED COSTS PER ACRE RETURN OVER ALL LISTED COSTS PER ACRE SUPPLEMENTARY MANAGEMENT INFORMATION WORK UNITS ASSIGNED PER ACRE POWER COSTS ALLOCATION FACTOR TOTAL LISTED COST PER BUSHEL RETURN OVER LISTED COSTS PER BUSHEL RETURN OVER LISTED COSTS PER BUSHEL RETURN OVER LISTED COSTS PER BUSHEL BREAKEVEN YIELD, BUSHELS	MS Average of 22 Farms ACRES YIELD PER ACRE, BUSHELS 31.3 VALUE PER BUSHEL 42.9 VALUE PER BUSHEL \$ 2.20 CROP PRODUCT RETURN 94.31 OTHER CROP INCOME 4.98 TOTAL CROP RETURN PER ACRE 99.29 DIRECT COSTS PER ACRE \$ 15.18 FERTILIZER \$ 15.18 CHEMICALS .80 SEED & OTHER 7.67 SPECIAL HIRED LABOR 2.68 IRRIGATION OPERATION 2.68 IRRIGATION OPERATION 2.68 IRRIGATION OVER ACRE 72.96 ALLOCATED COSTS PER ACRE 72.96 ALLOCATED COSTS PER ACRE 60.23 MISCELLAMEOUS COSTS 60.23 MISCELLAMEOUS COSTS 2.73 INTEREST ON MACH. & EQUIP. INVESTMENT 2.73 RETURN OVER ALL LISTED COSTS PER ACRE .92 POWER COSTS ALLOCATION FACTOR .92 SUPPLEMENTARY MANAGEMENT INFORMATION .30 WORK UNITS ASSIGNED PER ACRE .30 POWER COSTS ALLOCATION FACTOR .92 TOTAL LISTED COSTS PER BUSHEL \$ 2.54	MS11 Farms 22 Farms11 farms in vieldACRES YIELD PER ACRE, BUSHELS31.333.2YIELD PER ACRE, BUSHELS42.950.2VALUE PER BUSHEL CROP PRODUCT RETURN OTHER CROP INCOME\$ 2.20\$ 2.20CROP PRODUCT RETURN TOTAL CROP RETURN PER ACRE94.31110.33OTHER CROP INCOME FERTILIZER CHEMICALS\$ 15.18\$ 13.70TOTAL CROP RETURN PER ACRE FERTILIZER CHEMICALS\$ 15.18\$ 13.70SEED & OTHER SEED & OTHER\$ 15.18\$ 13.70CHEMICALS SEED & OTHER\$ 15.18\$ 13.70CHEMICALS SEED & OTHER TOTAL DIRECT COSTS PER ACRE\$ 2.684.04IRRIGATION OPERATION TOTAL DIRECT COSTS PER ACRE26.3326.38RETURN OVER DIRECT COSTS PER ACRE FARM POWER & MACHINERY - OWNERSHIP FARM POWER & MACHINERY - OPERATION INFRIGATION EQUIPMENT - OWNERSHIP IAND COSTS\$ 11.12\$ 10.78ALLOCATED COSTS INTEREST ON MACH, & EQUIP. INVESTMENT TOTAL ALLOCATED COSTS PER ACRE\$ 2.732.57SUPPLEMENTARY MANAGEMENT INFORMATION\$ 2.732.5790.11WORK UNITS ASSIGNED PER ACRE POWER COSTS ALLOCATION FACTOR POWER LISTED COST PER BUSHEL \$ 2.54\$ 2.54\$ 2.32RETURN OVER LISTED COSTS PER BUSHEL BREAKEVEN YIELD, BUSHELS\$ 2.54\$ 2.92SUPPLEMENTARY MANAGEMENT INFORMATION\$ 2.54\$ 2.92SUPPLEMENTARY MANAGEMENT INFORMATION\$ 2.54\$ 2.32WORK UNITS ASSIGNED PER ACRE POWER LISTED COST PER BUSHEL BREAKEVEN YIELD, BUSHELS\$ 2.54\$ 2.32 <tr <tr="">BREAKEVEN YIE</tr>

TABLE 10-0195 - CROP DATA FOR SPRING WHEAT - 1977

 \star to gover total listed costs per acre (line 31) at price given in line 3.

	ЯS	Average of 8 Farms		
1	ACRES	68.0	87.0	49.0
2	YIELD PER ACRE, DOLLARS	219.9	290.1	95.4
3	VALUE PER PRODUCTION UNIT	1.00	1.00	
4	CROP PRODUCT RETURN	\$219.94	\$290.09	
5	OTHER CROP INCOME	,		,
6	TOTAL CROP RETURN PER ACRE	\$219.94	\$290.09	\$ 95.39
7	DIRECT COSTS PER ACRE			
8	FERTILIZER	\$ 30 .33	\$ 29.39	\$ 3 3. 17
9	CHEMICALS	21.81	25.13	1 1.86
10	SEED & OTHER	10.81	11.90	7.59
11	SPECIAL HIRED LABOR			
12	CUSTOM WORK HIRED	14.38	19.16	
13	IRRIGATION OPERATION			
14	TOTAL DIRECT COSTS	\$ 77.33	\$ 85.58	\$ 52.62
15	RETURN OVER DIRECT COSTS	\$142.61	\$204 .51	\$ 42 . 77
16	ALLOCATED COSTS PER ACRE			
17	FARM POWER & MACHINERY - OWNERSHIP	\$ 19.10	\$ 17.72	\$ 23.22
18	FARM POWER & MACHINERY - OPERATION	13.16	13.26	\$ 12.88
19	IRRIGATION EQUIPMENT - OWNERSHIP			
20	LAND COSTS	60.00	71.25	48.75
21	MISCELLANEOUS COSTS			
22	INTEREST ON MACH. & EQUIP. INVESTMENT	4.51	4.16	5.54
23	TOTAL ALLOCATED COSTS	\$ 96.77	\$106.39	\$ 90.39
24	RETURN OVER ALL LISTED COSTS	\$ 45.84	\$ 98.12	\$(-47.62)
25	SUPPLEMENTARY MANAGEMENT INFORMATION			· · · · · · · · · · · · · · · · · · ·
26	WORK UNITS ASSIGNED PER ACRE	.44	.50	.38
27	POWER COSTS ALLOCATION FACTOR	.70	\$.75	\$.65
28	TOTAL LISTED COST PER UNIT OF PRODUCTION	\$.68	\$.66	\$.89
29		\$.32	\$.34	\$.11
30*	BREAKEVEN YIELD, DOLLARS	\$197.84	\$191.97	\$190.68
31	TOTAL LISTED COSTS PER ACRE	\$174.10	\$191.97	\$143.01

TABLE 10-0265 - CROP DATA FOR CANNING CORN - 1977

* TO COVER TOTAL LISTED COSTS PER ACRE (LINE 31) AT PRICE GIVEN ON LINE 3.

	LE 10-0275 - CROF DATA FOR CORN FOR GRAIN - 1		42 Farms	42 Farms
ITE	MS	Average of	Highest	Lowest
		85 Farms	in Yield	in Yield
1	ACRES	162.7	200.7	121.9
2	YIELD PER ACRE, BUSHELS	119.9	129.6	103.9
3	VALUE PER BUSHEL	\$ 1.60	\$ 1.60	\$ 1.60
4	CROP PRODUCT RETURN PER ACRE	191.89	207.37	166.30
5	OTHER CROP INCOME PER ACRE	.11	.14	.07
6	TOTAL CROP RETURN PER ACRE	192.00	207.51	166.37
7	DIRECT COSTS PER ACRE			
8	FERTILIZER	\$ 37.05	\$ 38.80	\$ 34.90
9	CHEMICALS	15.73	15.99	
.0	SEED & OTHER	22.14	23.49	
1	SPECIAL HIRED LABOR			
2	CUSTOM WORK HIRED	3.05	3.38	2.70
13	IRRIGATION OPERATION	77.97	81.66	73.64
L4	TOTAL DIRECT COSTS PER ACRE			
.5	RETURN OVER DIRECT COSTS PER ACRE	114.03	125.85	92.73
L6	ALLOCATED COSTS PER ACRE			
L7	FARM POWER & MACHINERY - OWNERSHIP	\$ 24.86	\$ 26. 80	
L8	FARM POWER & MACHINERY - OPERATION	16.99	17.16	16.92
.9	IRRIGATION EQUIPMENT - OWNERSHIP			
20	LAND COSTS	63.41	67.86	60.48
21	MISCELLANEOUS COSTS			
22	INTEREST ON MACH. & EQUIP. INVESTMENT	5.89	6.50	4.82
23	TOTAL ALLOCATED COSTS PER ACRE	111.15	118.32	103.13
24	RETURN OVER ALL LISTED COSTS PER ACRE	\$ 2.88	\$ 7.53	\$(-10.40)
25	SUPPLEMENTARY MANAGEMENT INFORMATION			
26	WORK UNITS ASSIGNED PER ACRE	.54	.55	.54
27	POWER COSTS ALLOCATION FACTOR	1.02	1.14	.90
28	TOTAL LISTED COST PER BUSHEL	\$ 1.58	\$ 1.5 4	\$ 1.7 0
29	RETURN OVER LISTED COSTS PER BUSHEL	\$.02	\$.06	\$ (10)
30*		119.70	124.99	113.31
31	TOTAL LISTED COSTS PER ACRE	\$189.12	\$1 99. 98	\$176.77

TABLE 10-0275 - CROP DATA FOR CORN FOR GRAIN - 1977

* TO COVER TOTAL LISTED COSTS PER ACRE (LINE 31) AT PRICE GIVEN IN LINE 3.

25		

23 Farms

23 Farms

TEM	1S	Average of 46 Farms		
1	ACRES		110.7	
	YIELD PER ACRE - BUSHELS		48.1	
3	VALUE PER BUSHEL	\$ 5.00		
	CROP PRODUCT RETURN PER ACRE OTHER CROP INCOME PER ACRE	214.96	240.33	185.80
6	TOTAL CROP RETURN PER ACRE	214.96	240.33	185.80
7	DIRECT COSTS PER ACRE			
8	FERTILIZER	\$ 2.44		
9	CHEMICALS		10.75	
10	SEED & OTHER	9.31	8.51	10.23
11	SPECIAL HIRED LABOR	.12	.18	.04
12	CUSTOM WORK HIRED	1.79	2.37	1.10
13	IRRIGATION OPERATION			
14	TOTAL DIRECT COSTS PER ACRE	25.73	24.27	27.41
15	RETURN OVER DIRECT COSTS PER ACRE	\$189.23	216.06	\$158.39
16	ALLOCATED COSTS PER ACRE			
17		\$ 19.9 0	\$ 22.92	\$ 16.35
18	FARM POWER & MACHINERY - OPERATION	13.26	13.73	12.71
19	IRRIGATION EQUIPMENT - OWNERSHIP			
20	LAND COSTS	66.63	72.83	60.43
21	MISCELLANEOUS COSTS			
22	INTEREST ON MACH. & EQUIP. INVESTMENT	4.91	5.36	4.38
23.	TOTAL ALLOCATED COSTS PER ACRE	\$104.70	\$114.84	\$ 93.87
24	RETURN OVER ALL LISTED COSTS PER ACRE	\$ 84.53	\$101.22	\$ 64.52
25				1.0
26		.44	.45	
	POWER COSTS ALLOCATION FACTOR	1.02	1.17	.86
28	TOTAL LISTED COST PER BUSHEL	\$ 3.03 \$ 2.00	\$ 2 . 89	\$ 3.27
29	RETURN OVER LISTED COSTS PER BUSHEL		\$ 2.11	ş 1.82
30*		26.67	27.82	25.37
31	TOTAL LISTED COSTS PER ACRE	\$130.43	\$141.35	\$121 . 28

TABLE 10-0335 - CROP DATA FOR SOYBEANS - 1977

 \star to cover total listed costs per ACRE (line 31) at price given in line 3.

TABLE 10-0365 - CROP DATA FOR CANNING PEAS - 1977

ITEM	IS Contraction of the second se			Average of 5 farms
1	ACRES			39.2
2	YIELD PER ACRE, DOLLARS			\$335.13
3	VALUE PER PRODUCTION UNIT			1.00
	CROP PRODUCT RETURN			335.13
5	OTHER CROP INCOME			
6	TOTAL CROP RETURN PER ACRE			335.13
7	DIRECT COSTS PER ACRE			\$ 13.37
8	FERTILIZER			2.47
9	CHEMICALS			14.46
10	SEED & OTHER			
11	SPECIAL HIRED LABOR			
12	CUSTOM WORK HIRED			2.40
13	IRRIGATION OPERATION			
14	TOTAL DIRECT COSTS			32.70
15	RETURN OVER DIRECT COSTS			\$302.43
16	ALLOCATED COSTS PER ACRE			
17	FARM POWER Y MACHINERY - OWNERSHIP			\$ 16.95
18	FARM POWER & MACHINERY - OPERATION			11.19
19	IRRIGATION EQUIPMENT - OWNERSHIP			
20	LAND COSTS			62.00
21	MISCELLANEOUS COSTS			
22	INTEREST ON MACH. & EQUIP. INVESTMENT	1		4.49
23	TOTAL ALLOCATED COSTS			94.63
24	RETURN OVER ALL LISTED COSTS			\$207.80
25	SUPPLEMENTARY MANAGEMENT INFORMATION		· · · · · · · · · · · · · · · · · · ·	
26	WORK UNITS ASSIGNED PER ACRE			.40
27	POWER COSTS ALLOCATION FACTOR			.64
28	TOTAL LISTED COST PER UNIT OF PRODUCT	ION		.38
29	RETURN OVER LISTED COSTS PER UNIT			.62
30*	BREAKEVEN YIELD, DOLLARS			\$127.33
31	TOTAL LISTED COSTS PER ACRE			\$127.33

* TO COVER TOTAL LISTED COSTS PER ACRE (LINE 31) AT PRICE GIVEN IN LINE 3.

26

27		

TABLE 10-0400 - CROP DATA FOR ALFALFA HAY - 1977

ITE	MS	Average of 60 Farms		Lowest
1	ACRES	59.7	63.8	55.5
2	YIELD PER ACRE, TONS	4.3	5.4	
	VALUE PER TON	\$ 44.92	\$ 44.83	
	CROP PRODUCT RETURN PER ACRE	\$191.88		
5	OTHER CROP INCOME PER ACRE	ŀ	1	1
6	TOTAL CROP RETURN PER ACRE	\$19 1. 88	\$241.02	\$135.41
7	DIRECT COSTS PER ACRE			
8	FERTILIZER	\$ 10.90	\$ 13.87	\$ 7.53
9	CHEMICALS	.18	.33	
10	SEED & OTHER	11.64	14.36	8,54
1 1	SPECIAL HIRED LABOR			
12	CUSTOM WORK HIRED	2.19	4.00	.13
13	IRRIGATION OPERATION			
14	TOTAL DIRECT COSTS PER ACRE	24.91	32.56	16.20
15	RETURN OVER DIRECT COSTS PER ACRE	\$166.97	\$208.46	\$119 . 21
16	ALLOCATED COSTS PER ACRE			
17	FARM POWER & MACHINERY - OWNERSHIP	\$ 21 .9 7	\$ 22.80	\$ 21.06
18	FARM POWER & MACHINERY - OPERATION	18.26	17.74	18.87
19	IRRIGATION EQUIPMENT - OWNERSHIP			
20	LAND COSTS	61.50	62.00	61.00
21	MISCELLANEOUS COSTS	.15	.02	.31
22	INTEREST ON MACH. & EQUIP. INVESTMENT	5.39	5.72	
23	TOTAL ALLOCATED COSTS PER ACRE	107.27	108.28	106.26
24	RETURN OVER ALL LISTED COSTS PER ACRE	\$ 59.70	\$100.18	\$ 12.95
25	SUPPLEMENTARY MANAGEMENT INFORMATION	<u></u>	<u></u>	<u></u>
26	WORK UNITS ASSIGNED PER ACRE	.60	.60	.60
27	POWER COSTS ALLOCATION FACTOR	. 94	.94	. 94
28	TOTAL LISTED COST PER TON	\$ 30 .95	\$ 26.20	\$ 40.71
29	RETURN OVER LISTED COSTS PER TON	\$ 13 .97	\$ 18.63	
30*	BREAKEVEN YIELD, TONS	2.94	3.14	2.72
31	TOTAL LISTED COSTS PER ACRE	\$132.18	\$140.84	\$122.46

* TO COVER TOTAL LISTED COSTS PER ACRE (LINE 31) AT PRICE GIVEN IN LINE 3.

.....

TABLE 10-0545 -	CROP DA	A FOR GRAIN	N (OATS) SILAGI	z - 1 977
-----------------	---------	-------------	-----------------	------------------

ITE	MS	Average of 12 Farms	6 Farms Highest in Yield	Lowest
1	ACRES	27.6	36.7	18.5
2	YIELD PER ACRE, TONS	7.4	9.4	
3	VALUE PER TON	14.92	15.00	14.83
4 5	CROP PRODUCT RETURN PER ACRE OTHER CROP INCOME PER ACRE	109.75	141.42	48.11
6	TOTAL CROP RETURN PER ACRE	109.75	141.42	48.11
7	DIRECT COSTS PER ACRE			
8 9	FERTILIZER CHEMICALS	10.83	11.12	10.27
10 11	SEED & OTHER SPECIAL HIRED LABOR	6.85	8.07	4.49
11 12 13	CUSTOM WORK HIRED IRRIGATION OPERATION	.54	.63	.38
14	TOTAL DIRECT COSTS PER ACRE	18.22	19.82	15.14
15	RETURN OVER DIRECT COSTS PER ACRE	91.53	121.60	32.97
16	ALLOCATED COSTS PER ACRE			
17	FARM POWER & MACHINERY - OWNERSHIP	17.27		5.36
18 19	FARM POWER & MACHINERY - OPERATION IRRIGATION EQUIPMENT - OWNERSHIP	12.70	15.22	
20 21	LAND COSTS MISCELLANEOUS COSTS	48.75	51.67	45.83
22	INTEREST ON MACH. & EQUIP. INVESTMENT	3.95	5.15	1.55
23	TOTAL ALLOCATED COSTS PER ACRE	82.67	95.32	60.45
24	RETURN OVER ALL LISTED COSTS PER ACRE	8.86	26.28	(-27.48)
25	SUPPLEMENTARY MANAGEMENT INFORMATION			
26		.40	.40	
27		.81	.98	.63
28	TOTAL LISTED COST PER TON	13.72	.98 12.21	23.32
29		1.20	2.79	(-8,48)
30*	BREAKEVEN YIELD, TONS	6.76	7.68	5.10
31	TOTAL LISTED COSTS PER ACRE	100.89	115.14	75.59

 \star to cover total listed costs per acre (line 31) at price given in line 3.

ITEN	ſS	Average of 38 Farms	19 Farms Highest in Yield	19 Farms Lowest in Yield
1	ACRES	20.7	18.3	23.0
2	YIELD PER ACRE, TONS	17.9	22.0	
3	VALUE PER TON	\$ 14.03		
4	CROP PRODUCT RETURN PER ACRE OTHER CROP INCOME PER ACRE	251.45	309.40	206.35
6	TOTAL CROP RETURN PER ACRE	251.45	309.40	206.35
7	DIRECT COSTS PER ACRE	· · ·		
8	FERTILIZER	\$ 38.36	\$ 35.40	\$ 40.96
9	CHEMICALS	14.83	12.57	
10	SEED & OTHER	15.89	16.12	15.74
11	SPECIAL HIRED LABOR			•
12	CUSTOM WORK HIRED	3.91	2.90	4.70
13	IRRIGATION OPERATION			
14	TOTAL DIRECT COSTS PER ACRE	72.99	66.89	78.05
15	RETURN OVER DIRECT COSTS PER ACRE	\$178.46	\$242.51	\$128.30
16	ALLOCATED COSTS PER ACRE			
17	FARM POWER & MACHINERY - OWNERSHIP	\$ 24 .14	\$ 22.81	
18	FARM POWER & MACHINERY - OPERATION	17.85	17.69	18.06
19	IRRIGATION EQUIPMENT - OWNERSHIP			
20	LAND COSTS	58.95	64.74	53.16
21	MISCELLANEOUS COSTS			
22	INTEREST ON MACH. & EQUIP. INVESTMENT	5.75	5.84	5,70
23	TOTAL ALLOCATED COSTS PER ACRE	106.69	\$11 1.08	\$102 . 22
24	RETURN OVER ALL LISTED COSTS PER ACRE	\$ 7 1.7 7	\$131 .43	26.08
25	SUPPLEMENTARY MANAGEMENT INFORMATION		· .	
26	WORK UNITS ASSIGNED PER ACRE	.60	.60	.60
27	POWER COSTS ALLOCATION FACTOR	.88	. 87	.88
28	TOTAL LISTED COST PER TON	10.03	8.08	
29	RETURN OVER LISTED COSTS PER TON	4.00	5.97	1.77
30*		12.81	12.67	12.88
31	TOTAL LISTED COSTS PER ACRE	\$179.68	\$177 .97	\$180.27

TABLE 10-0550 - CROP DATA FOR CORN SILAGE - 1977

* TO COVER TOTAL LISTED COSTS PER ACRE (LINE 31) AT PRICE GIVEN IN LINE 3.

TABLE]	10-0575	CROP	DATA	FOR	TILLABLE	GRASS	PASTURE	4	1977
---------	---------	------	------	-----	----------	-------	---------	---	------

ITE	MS	Ave 7	erage of Farms
1	ACRES		20.5
2	YIELD PER ACRE		59.85
3	VALUE PER PRODUCTION UNIT	\$	1.00
4	CROP PRODUCT RETURN PER ACRE		59.85
5	OTHER CROP INCOME		
6	TOTAL CROP RETURN PER ACRE	\$	59.85
7	DIRECT COSTS PER ACRE		
8	FERTILIZER	\$	5.51
9	CHEMICALS	,	
10	SEED & OTHER		2.10
11	SPECIAL HIRED LABOR		
12	CUSTOM WORK HIRED		.44
13	IRRIGATION OPERATION		
14	TOTAL DIRECT COSTS PER ACRE	\$	8.05
15	RETURN OVER DIRECT COSTS PER ACRE		51.80
16	ALLOCATED COSTS PER ACRE		
17	FARM POWER & MACHINERY - OWNERSHIP	\$.58
18	FARM POWER & MACHINERY - OPERATION	Ť	.88
19	IRRIGATION EQUIPMENT - OWNERSHIP		
20	LAND COSTS		65.00
21	MISCELLANEOUS COSTS		
22	INTEREST ON MACH. & EQUIP. INVESTMENT		. 21
23	TOTAL ALLOCATED COSTS	Ś	66.67
24	RETURN OVER ALL LISTED COSTS PER ACRE		-14.87)
		<u> </u>	- /
25	SUPPLEMENTARY MANAGEMENT INFORMATION		
26	WORK UNITS ASSIGNED PER ACRE		.04
27	POWER COSTS ALLOCATION FACTOR		.62
28	TOTAL LISTED COST PER UNIT OF PRODUCTION	\$	
29	RETURN OVER LISTED COSTS PER UNIT	Ş	(25) 74.72
30	BREAKEVEN YIELD/UNITS OF PRODUCTION		
31	TOTAL LISTED COSTS PER ACRE	Ş	74.72

DESCRIPTION OF LIVESTOCK TABLES

Livestock provide an important source of farm income, especially on farms with relatively small acreages, or acreages not well suited to the production of cash crops. If the crop land area is limited, and/or the farm family is short of capital relative to labor, livestock may be needed to provide the volume of earnings necessary for family living and to meet goals that the farm family hopes to achieve.

The following tables provide cost and return calculations for the livestock enterprises on the farms included in this report. Since feed is the largest single item of cost for all classes of livestock, return above feed cost was used to classify farms into high or low in the following tables. The reader is cautioned to remember that farms are classified into the high or low return above feed cost categories for each table, so that a particular farm might be in the low category in one livestock table and in the high category in another livestock table. And these classifications are separate and independent of the classifications based on labor earnings used in TABLES 1 through 6B. Feed costs are determined from feed records kept by the farm operator. Given the overwhelming importance of feed as the major cost of livestock production, it is suggested that the livestock producer try to keep an accurate set of feed records for each major livestock enterprise,

Purchase price is used for all feeds purchased from off the farm. An average price, shown elsewhere in this report, is charged for each kind of home-grown feed.

In general, the net increase in value of animals is calculated as: ending inventory plus sales plus transfers out plus butchered minus beginning inventory minus purchases minus transfers in. For fed livestock, pounds or cwt produced is calculated in the same way. Since inventory values play such an important role in determining net increase in value, producers are urged to be extremely careful in changing inventory prices, especially of breeding livestock which may be on hand during the whole year. This is, paper gains and losses from changing prices of inventory should be avoided.

Return over feed costs, because of the proportion of total costs represented by feed, is an important overall measure, and very useful in comparing an enterprise over time on the same farm or with other farms in a given year. It is a general measure that indicates success in getting top dollar for products sold, as well as in holding down feed costs. The relative size of the return over feed cost, or a companion measure, return for \$100 feed fed, varies by kind of enterprise, depending upon the size of non-feed costs. For example, dairy cows, with high labor and building and equipment costs, need a higher return above feed cost and return per \$100 feed fed than a low labor, low building/equipment cost enterprise such as feeder cattle. It also varies by year as both commodity prices and feed prices vary.

A few of the other direct cash costs, such as veterinary costs, bedding, etc. are shown in each livestock table. Certain overhead costs were also allocated among enterprises, using the work unit procedure described for the crops tables, which again can be modified by use of power and machinery, livestock equipment, and building and fences cost allocation factors. (PCAF, ECAF, AND BCAF, respectively).

TEMS	5	of	erage 30 rms	High Retur	Farms lest in In Above ed Cost	Lot Retu	ırn Above
1]	POUNDS OF HOGS PRODUCED		20,725 r Cwt.		90,535 er Cwt.	138,673 Pér Cwt.	
	NET INCREASE IN VALUE OF HOGS	\$	41.43	\$	43.20		\$ 39.39
	OTHER MISCELLANEOUS HOG INCOME						
4	TOTAL VALUE PRODUCED	\$	41.43	\$	43.20	S	\$ 39.39
	POUNDS OF FEED FED						
6	CORN		293.3		276.1		306.5
7	SMALL GRAIN		17.0		17.7		25.4
8	COMPLETE RATION		8.1		3.8		28.6
9			73.1		68.0		84.6
0	TOTAL CONCENTRATES		391.5		365.6		445.1
1	FORAGES		.5		.2		.4
2 1	FEED COST						
3	GRAINS	\$	10.91	Ś	9.87	ć	12.25
	COMPLETE RATION	1	.49	Ť	.08		1.85
	PROTEIN, SALT & MINERAL & MILK				7.32		10.76
6	FORAGES		.02		.01		.01
	PASTURE		.01		.01		.01
	TOTAL FEED COSTS	\$			17.29		24.87
0	TOTAL THED CODID	ş	19.00	ş	11.29	Ş	24.07
9 RI	ETURN OVER FEED COSTS .	\$	21.83	\$	25.91	Ş	14.52
0 0	OTHER DIRECT COSTS						
1	MISCELLANEOUS LIVESTOCK EXPENSE	\$	74	Ś	.61	Ś	1.01
2	VETERINARY EXPENSE	'	.99	•	1,58		.51
	CUSTOM WORK		.31		.31		.29
	SPECIAL HIRED LABOR		•••				
5	TOTAL OTHER DIRECT COSTS		2.04		2.50	•	1.81
6 1	RETURN OVER FEED & OTHER DIRECT COSTS	\$	19.79	\$	23.41	Ş	12.71
	ALLOCATED COSTS						
8		\$	1.47	•	.93	1	
	LIVESTOCK EQUIPMENT COSTS		1.52		1.64		1.38
	BUILDING & FENCES		2.73		1.81		3.93
1	TOTAL ALLOWED COSTS	\$	5.72	Ş	4.38	\$	7.39
2	RETURN OVER ALL LISTED COSTS	\$	14.07	\$	19.03	Ş	5.32
	SUPPLEMENTARY MANAGEMENT INFORMATION	L.	017 6-				1
4	RETURN FOR \$100 FEED FED		211.37		249.83	\$	158.39
5	PRICE RECEIVED PER CWT. ALL ANIMALS	Υ	40.61	Ŷ	41.49	\$	39.80
6	PRICE RECEIVED/CWT SOLD MKT ONLY	\$		Ş	40.82		
7	NUMBER OF LITTERS FARROWED		120		165		62
8	NUMBER OF PIGS BORN PER LITTER		9.6		10.2		11.9
9	NUMBER OF PIGS WEANED PER LITTER		7.4		8.1		9.3
0	PERCENT DEATH LOSS		14.6		13.4		13.4
1	AVERAGE WEIGHT OF ALL HOGS SOLD		235.1		238.8		223.4
2	AVERAGE WEIGHT OF MKT. HOGS SOLD		209.1		202.4		
3	PRICE PER CWT. CONCENTRATE FED	\$	5.00	Ś	4.72	Ś	5.59
4	PRICE/CWT PROT SALT MIN. FED	ś	11.18	Ś	10.76	Ś	12.72
5	POUNDS OF PORK PURCHASED		5652	Ŷ	9211	. ү	6302
2							

*FARMS INCLUDED IN TABLE 11A CARRIED OUT A COMPLETE PROGRAM OF FARROWING AND MARKETING THEIR OWN HOGS. THE FEED COSTS INCLUDE FEED FOR THE BREEDING HERD AND

ABLE 12-6290 - COSTS AND			<u></u>	14 Farms		14 Farms
TEMS		Average	H	ighest in		Lowest in
		of 43	Re	turn Above	H	Return Above
		Farms	F	eed Costs		Feed Costs
1 AVERAGE NUMBER OF COWS		48.3		47.1		50.3
		Per Cow	Pe	r Cow	F	Per Cow
DOUNDS OF MIL						
2 POUNDS OF MILK 3 POUNDS OF BUTTERFAT 4 PERCENT OF BUTTERFAT I		500 3	, L .	550 8		12,027
BEDGENTE OF BUTTERFAT	37 3CTT 17	209.3		2,2		449.J 25
+ PERCENT OF BUTTERFAT .	N MILK	5.7		5.7		J • J
5 VALUE OF PRODUCE 6 DAIRY PRODUCTS SOLD 7 DAIRY PRODUCTS USED 8 MILD FED TO LIVESTOO 9 NET INCREASED IN VAN	¢1	250 05	¢1 3	73 60	¢1	175 /3
5 DAIRY PRODUCTS SOLD 7 DAIRY PRODUCTS USED		,209.00	Υ τ , J	5 35	Υr	10 52
DAIRY PRODUCTS USED	IN HOME:	4 10		5 1/		1 41
MILD FED TO LIVESTO		(-7, 37)		9 41		(-34 67)
NET INCREASED IN VAI	UE OF COWS	(-7.57		J .41	``	(-34:07)
O OTHER MISCELLANEOUS DA	IKI INCOME					
TOTAL VALUE PRODU	ICED ST	,203.03	φ τ ,Ο	11.17	γL	, IJZ , UJ
2 POUNDS OF FEED FED		5448 1	1.	7/3 /		5876 7
S CORN		J440.L 785 5	4	/+J.4 607 A		1070.7 120 2
I TOTAL VALUE PRODU 2 POUNDS OF FEED FED 3 CORN 4 SMALL GRAIN 5 COMPLETE RATION 6 PROTEIN, SALT & MINU 7 TOTAL CONCENTRATION 8 LEGUME HAY 9 OTHER HAY & DRY ROUG 0 SILAGE 1 FEED COSTS		11 2	T	097.0		420.2
D COMPLETE RATION		11.4 617 5		420 8		770 2
PROTEIN, SALT & MINI	RAL	6962 2	6	420.0 96 1 9		7076 1
TOTAL CONCENTRATI	S	570/ P	0	001.2 405 0		5657 5
LEGUME HAY		2704.8 251 0	0	495.0		116 2
OTHER HAY & DRY ROUG	HAGE	201.0	<u></u> 10	429.3		110.2
) SILAGE		11504.0	10	923.3		13217.0
FEED COSTS	6 C	21/ 0/	ė 1	06 45	ć	221 10
GRAINS	Υ. γ	214.04	ŞI	90.45	ş	231.19
3 COMPLETE RATION		./0		40.62		00 72
PROTEIN, SALT & MINI	RAL	14.43	4	49.02		90.72
ALL HAY & DRY ROUGHA	AGE	148.47	T	04.90		10.00
5 SILAGE		106.87		90.13		120.90
PASTURE	A	1.55	6 E	.91	ė	5.00
3 TOTAL FEED COSTS	Ş	546.00 717 77	ر د ه ه	02.01	ခု င်	5/0 66
L FEED COSTS 2 GRAINS 3 COMPLETE RATION 4 PROTEIN, SALT & MINI 5 ALL HAY & DRY ROUGH 6 SILAGE 7 PASTURE 8 TOTAL FEED COSTS 9 RETURN OVER FEED COSTS 9 OTHER DIRECT COSTS	Ş	/1/.//	\$ 0	91.30	Ģ	549.00
OTHER DIRECT CODID						
MISCELLANEOUS LIVEST	OCK EXPENSE	54.68		51.00 16.09		60.48 24.71
VETERINARY EXPENSE		20.25				24.71 34.29
CUSTOM WORK HIRED		30.31		28.03		34.27
SPECIAL HIRED LABOR		105.24	ć	95.12	ć	119.48
TOTAL OTHER DIREC			•		ې \$	430.18
RET. OVER FEED & OTHER	L DIRECT COSTS \$	012.33	\$ 7	96.46	Ş	430,10
ALLOCATED COSTS	ama	70 20		67.25		61.85
B POWER & MACHINERY CO		70.29				50.70
LIVESTOCK EQUIPMENT	COSTS	53.47		51.94		50.70 58.26
BUILDING & FENCES		82.27		85.38	ċ	
TOTAL ALLOCATED (•	04.57	\$ ¢	259.37
RETURN OVER ALL LISTED		406.50	\$ 5	91.89	\$	4.5.51
3 SUPPLEMENTARY MANAGEM			× -	77 (0	~	101 15
RETURN FOR \$100 FEEI				77.60	\$	191.15
5 FEED COST PER CWT. N		3.92	\$	3.92	\$	4.70
FEED COST PER POUND		1.07	ş	.90	\$	1.34
7 POUNDS OF MILK/POUNI	OF CONCERN \$	2.03	ş	2.23	ş	1.81
AVERAGE PRICE PER CW	T. MILK SOLD\$		\$	9.07	\$ \$ \$ \$	9.25
9 AVERAGE PRICE/POUND		2.49	\$	2.47	Ş	2.64
D TOTAL LISTED COSTS/C		6.15	Ş	5.25	Ş	6.96
DAIRY COW TURNOVER H		33.1	ا عر	38.2	Ŧ	27.8
		857 33	Ś 8	1 70	Ś	893 32

\$

857.33

\$

801.70

52

TOTAL LISTED COSTS PER COW

\$ 893.32

ITE	MS	A	overage of 43 Farms		in Re Above	ighest eturn e Feed Cow	i: Al	4 Lowest n Return bove Feed Per Cow
1	NUMBER OF HEAD		62.1			72.9		61.8
		₽e	er Cow		Per Co	WC	Pe	r Cow
2 3	NET INCREASE IN VALUE OTHER MISCELLANEOUS INCOME	\$	165.41		\$ 23	8.00	\$	101.28
4	TOTAL INCOME		165.41		238	8.00		101.28
5	POUNDS OF FEED FED							
6	CORN		963.3		94	45.7		1048.7
7	SMALL GRAIN		200.5		2:	34.7		136.6
8	COMPLETE RATION		250.8			70.1		190.5
9	PROTEIN, SALT & MINERALS		103.0			66.8		96.8
0	HAY & DRY ROUGHAGE		2317.7			41.7		2947.3
1	SILAGE		5038.3			95.4		7230.0
2	MILK		36.4			23.8		42.1
.3	FEED COST							
4	GRAINS	\$	41.74		\$ 4	1.63	\$	42.83
5	COMPLETE RATION		6.36			9.48		4.84
6	PROTEIN, SALT & MINERALS		13.48		•	9.52		12.85
7	HAY & DRY ROUGHAGE		56.28			9.81		71.86
8	SILAGE		34.40			1.98		38.72
9	MILK		2.96			1.29		3.74
0	PASTURE		1.64			.12		3.88
1	TOTAL FEED COSTS		156.86		14	3.83		178.72
2	RETURN OVER FEED COSTS	\$	8.55		\$ 9	4.17	Ş	(-77.44)
23	OTHER DIRECT COSTS							
4	MISCELLANEOUS EXPENSE		4.44			4.29		4.53
5	VETERINARY EXPENSE		2.22			2.58		1.52
6	CUSTOM WORK HIRED		.92			1.78		.19
7	SPECIAL HIRED LABOR							
8	TOTAL OTHER DIRECT COSTS		7.58			8.65		6.24
9	RET OVER FEED & OTHER DIRECT COSTS	Ş	.97		\$8	5.52	\$	(-83.68)
0	ALLOCATED COSTS					·		
1	POWER & MACHINERY COSTS	\$	6.95			6.78	\$	6.76
2	LIVESTOCK EQUIPMENT COSTS		4.24			4.50		4.30
3	BUILDING & FENCES		6.27			7.04		6.28
4	TOTAL ALLOCATED COSTS	Ş	17.46		\$ 1	8.32	\$	17.34
5	RETURN OVER ALL LISTED COSTS	\$	(-16:49)		\$6	7:20	\$(-101.02)
6	SUPPLEMENTARY MANAGEMENT INFORMATIC		105 / 5	- 	A 10	E / 7	•••••	EC (7
37	RETURN FOR \$100 FEED FED	Ş	105.45		\$ 16	5.47		56.67
38	PERCENT DEATH LOSS - TOTAL		8.5			5.3		10.2

18.0

\$ 181.90

10.9

\$ 170.80

39

40

PERCENT CALF DEATH LOSS

TOTAL LISTED COSTS PER COW

TABLE 13-6310 - COSTS AND RETURNS FROM OTHER DAIRY CATTLE COMMERCIAL HERD REPLACEMENTS

22.9

202.30

Ş

					14 Farms		14 Farms
			Average		Highest in		owest in
ITE	MS		of 42		eturn Above		turn Above
			Farms		Feed Costs		eed Costs
1	AVERAGE NUMBER OF COWS		47.9		44.1		46.7
		Pe	er Cow	Pe	r Cow	Pe	r Cow
2	VALUE OF DAIRY PRODUCTS	\$1	,271.77	\$1	,356.76	\$1	,192.38
3	NET INCREASE IN VALUE		206.72		262.31		141.37
4	MISCELLANEOUS DAIRY INCOME						
5	TOTAL VALUE PRODUCED	\$1	,478.49	\$1	,619.07	\$1	,333.75
6	POUNDS OF FEED FED PER COW						
. 7	GRAINS		7777.0		8255.8		7822.1
8	COMPLETE RATIONS		344.4		694.5		41.0
9	PRO SALT MIN INCL MILK EQUIV		741.5		696.5		1106.3
10	HAY & DRY ROUGHAGE		8924.9		6946.9		8853.8
11	SILAGE	1	17,755.4	1	3,318.4	2	2,056.3
12	FEED COST PER COW						
13	GRAINS	\$	269.16	\$	253.27	\$	285.10
14	COMPLETE RATIONS		9.19		11.61		5.67
15	PROT, SALT & MIN, INCL MILK		97.16		97.32		137.13
16	HAY & DRY ROUGHAGE		221,90		173.74		218.59
17	SILAGE		148.60		110.52		164.63
18	PASTURE COSTS		3.78		4.38		4.22
19	TOTAL FEED COSTS		749.79		650.84		815.34
20	RETURN OVER FEED COSTS PER COW	\$	728.70	\$	968.23	\$	518.41
21	OTHER DIRECT COSTS						
22	MISCELLANEOUS LIVESTOCK EXPENSE	\$	61.19	\$	66.21	\$	68.97
- 23	VETERINARY EXPENSE		23.30		24.92		24.03
24	CUSTOM WORK		32.42		34.01		27.64
25	SPECIAL HIRED LABOR						
26	TOTAL OTHER DIRECT COSTS	\$	116.91	\$	125.14	\$	120.64
27	RET OVER FEED & OTHER DIRECT COSTS	\$	611.79	Ş	843.09	\$	397.77
28	ALLOCATED COSTS						
29	POWER & MACHINERY COSTS	Ş	79.85	\$	120.00	\$	68.88
30	LIVESTOCK EQUIPMENT COSTS		59.49		70.96		45.36
31	BUILDING & FENCES		89.66		124.53		57.43
32	TOTAL ALLOCATED COSTS		229.00		315.49		171.67
33	RETURN OVER ALL LISTED COSTS	\$	382.79	\$	527.60	\$	226.10
34	SUPPLEMENTARY MANAGEMENT INFORMATIC	N					
35	RETURN FOR \$100 FEED FED	\$	197.19	\$	248.77	\$	163.58
36	TOTAL LISTED COSTS PER COW	\$ 1	,095.70	\$ 1	,091.47	\$1	,107.65

TABLE 14 - COSTS AND RETURNS FROM ALL DAIRY CATTLE - 1977

36

TABLE 15A-6100 - BEEF BREEDING CATTLE, RANGE, COMMERCIAL HERD - 1977

ITE	MS	Average of 5 Farms
1	AVERAGE NUMBER OF BEEF COWS	29.7
2	AVERAGE NUMBER OF OTHER BEEF ANIMALS & BULLS	33.4
2	AVERAGE NUMBER OF DIFER DEEF ANIMALS & DULLS	JJ.4
3	POUNDS OF BEEF PRODUCED	13,780
		Per Cow
4	NET INCREASE IN VALUE	\$193.43
5	OTHER MISCELLANEOUS BEEF INCOME	· · ·
6	TOTAL VALUE PRODUCED	193.43
7	POUNDS OF FEED FED	
8	CRATN	1153.8
9		438.6
10	PROTEIN, SALT & MINERAL LEGUME HAY OTHER HAY & DRY ROUGHAGE SILAGE	3286.2
11	OTHER HAV & DRY ROUCHACE	4350.2
12	SILAGE	1643.1
12		1043.1
13	FEED COST GRAIN PROTEIN, SALY & MINERAL LEGUME HAY	
14	GRAIN	\$ 42.26
15	PROTEIN, SALY & MINERAL	7.47
16	LEGUME HAY	82.15
17	OTHER HAY & DRY ROUGHAGE	35.45
18	SILAGE	12.32
19	PASTURE	12.52
20		179.65
		177.05
21	RETURN OVER FEED COST	\$ 13.7 8
22	OTHER DIRECT COSTS	
23	MISCELLANEOUS LIVESTOCK EXPENSE	\$ 1.99
24	VETERINARY EXPENSE	.84
25	CUSTOM WORK	.64
	SPECIAL HIRED LABOR	• 0 4
27	TOTAL OTHER DIRECT COSTS	3.47
		5.47
28	RETURN OVER FEED & OTHER DIRECT COSTS	\$ 10.31
29	ALLOCATED COSTS	
30	POWER & MACHINERY COSTS	15.23
	LIVESTOCK EQUIPMENT COSTS	13.17
32	BUILDING & FENCES	32.99
33	TOTAL ALLOCATED COSTS	61.39
34	RETURN OVER ALL LISTED COSTS	A (51 00)
J+ 	NEIGHA OVER ALL LIDIED CODID	\$(-51.08)
35		.
36	RETURN FOR \$100 FEED FED	ş 107.66
37	PRICE PER CWT. SOLD	\$ 30 . 21
38	PRICE/CWT CALVES SOLD OR TRANS.	\$ 25.67
39	AVERAGE WEIGHT PER HEAD SOLD	993.0
40	AVER. WEIGHT PER CALF SOLD OR TRANS.	793.8
41	PERCENT DEATH LOSS	4.7
42	PERCENT CALF CROP	100.0
	TOTAL LISTED COSTS PER COW	\$ 244.51
43		5 744 51

TABLE 15A-6100 INCLUDES ONLY THOSE FARMS WITH TEN OR MORE COWS IN THE BEEF BREEDING HERD. NET INCREASE IN VALUE INCLUDES THE VALUE OF CALVES WHETHER SOLD OR TRANSFERRED TO THE FEED LOT.

TAB	LE 15B-6130 - COST AND RETURNS FROM BEE	F FEEDER CATTLE, GRASS	5 FED - 19//
ITE	MS		Average of 8 Lots
1	AVERAGE NUMBER OF BEEF FEEDERS		48.0
2	POUNDS OF BEEF PRODUCED		29,434
-			Per Cwt
3	NET INCREASE IN VALUE OF ANIMALS		\$ 30.98
4	OTHER MISCELLANEOUS BEEF INCOME		
5	TOTAL VALUE PRODUCED		\$ 30.98
6	POUNDS OF FEED FED		
7	GRAIN		282.5
8	PROTEIN, SALT & MINERAL		21.4
9	LEGUME HAY		285.4
10	OTHER HAY & DRY ROUGHAGE		8.5
11	SILAGE		938 .5
12	FEED COST		
13	GRAIN		\$ 10.09
14	PROTEIN, SALT & MINERAL		4.23
15	LEGUME HAY		7.13
16	OTHER HAY & DRY ROUGHAGE		.13
17	SILAGE		6.99
18	PASTURE		
19	TOTAL FEED COST		28.57
20	RETURN OVER FEED COST		\$ 2.41
21	OTHER DIRECT COSTS		
22	MISCELLANEOUS LIVESTOCK EXPENSE		\$.04
23	VETERINARY EXPENSE		.02
24	CUSTOM WORK HIRED		.07
25	SPECIAL HIRED LABOR		
26	TOTAL OTHER DIRECT COSTS		.13
27	RET OVER FEED & OTHER DIRECT COSTS		\$ 2.28
28	ALLOCATED COSTS	÷ .	
29	POWER & MACHINERY COSTS		\$ 3.29
30	LIVESTOCK EQUIPMENT COSTS		1.67
31	BUILDINGS & FENCES		4.05
32	TOTAL ALLOCATED COSTS		9.01
3 3	RETURN OVER ALL LISTED COSTS		\$(-6.73)
34	SUPPLEMENTARY MANAGEMENT INFORMATION		
35	RETURN FOR \$100 FEED FED		\$108.46
36	PRICE PER CWT. SOLD		\$ 35.98
37	AVERAGE WEIGHT PER HEAD SOLD		1147.8
38	PRICE PER CWT. BOUGHT		\$ 40.38
39	AVERAGE WEIGHT PER HEAD BOUGHT		1297.4
40	NUMBER OF HEAD BOUGHT		9
41 41	PERCENT DEATH LOSS		3.9
42	EFFECTIVE DAILY GAIN-LB/HEAD/DAY		1.68
43	TOTAL LISTED COST/CWT. PRODUCED		\$ 37.71
	TOTHE PIPID CODI/OMI® INCDUCED		Υ J/•/エ

TABLE 15B-6130 - COST AND RETURNS FROM BEEF FEEDER CATTLE, GRASS FED - 1977

38

TAB	LE 15B-6140 - COST AND RETURNS FROM	BEEF	FEEDER CATTLE,	FEEDLOT	- 1977
ITE	MS				Average of 8 Lots
1	AVERAGE NUMBER OF BEEF FEEDERS				87.7
2	POUNDS OF BEEF PRODUCED				49,644
					Per Cwt
3	NET INCREASE IN VALUE OF ANIMALS				\$ 46.43
4	NET INCREASE IN VALUE OF ANIMALS OTHER MISCELLANEOUS BEEF INCOME TOTAL VALUE PRODUCED				
4	UTHER MISCELLANEOUS DEEF INCOME				\$ 46.43
5	TOTAL VALUE PRODUCED				φ an ogeno
_	POUNDS OF FEED FED GRAIN PROTEIN, SALT & MINERAL LEGUME HAY OTHER HAY & DRY ROUGHAGE				
6	POUNDS OF FEED FED				512.9
7	GRAIN				
8	PROTEIN, SALT & MINERAL				58.7
9	LEGUME HAY				454.0
10	OTHER HAY & DRY ROUGHAGE				
11	SILAGE				1074.4
12					
10	FEED COST				\$ 18.56
13	GRAIN				
14	PROTEIN, SALT & MINERAL				5.67
15	GRAIN PROTEIN, SALT & MINERAL LEGUME HAY OTHER HAY & DRY ROUGHAGE				11.22
16	OTHER HAY & DRY ROUGHAGE				-
17	SILAGE				8.94
	PASTURE				
19	TOTAL FEED COST				44.39
19	IOTAL FEED CODI				
20	RETURN OVER FEED COST				\$ 2.04
21	OTHER DIRECT COSTS				
	MICCHILLANDOUG I INTERDOUX EXPENSE				\$.88
22	MISCELLANEOUS LIVESTOCK EXPENSE VETERINARY EXPENSE CUSTOM WORK HIRED				.19
	VETERINARY EXPENSE				1.34
24	CUSTOM WORK HIRED				
25	SPECIAL HIRED LABOR				- / 1
26	TOTAL OTHER DIRECT COSTS				2.41
27	RET OVER FEED & OTHER DIRECT COSTS				\$ (37)
28	ALLOCATED COSTS				
	POWER & MACHINERY COSTS				\$ 1.87
29					1.88
30	LIVESTOCK EQUIPMENT COSTS				3.79
31	BUILDINGS & FENCES				
32	TOTAL ALLOCATED COSTS				7.54
33	RETURN OVER ALL LISTED COSTS				\$(- 7.91)
34	SUPPLEMENTARY MANAGEMENT INFORMATIC)N			
35	RETURN FOR \$100 FEED FED				\$104 . 59
					\$ 37.85
36	PRICE PER CWT. SOLD				1114.8
37	AVERAGE WEIGHT PER HEAD SOLD				\$ 34.35
38	PRICE PER CWT. BOUGHT				•
39	AVERAGE WEIGHT PER HEAD BOUGHT		-		648.3
40	NUMBER OF HEAD BOUGHT				60
41	PERCENT DEATH LOSS				1.6
42	EFFECTIVE DAILY GAIN-LB/HEAD/DAY				1.55
43	TOTAL LISTED COST/CWT. PRODUCED				\$ 54.34
+J	TOTAT TIPITA COPILOAI • LUODOOED			<u> </u>	

TABLE 15B-6140 - COST AND RETURNS FROM BEEF FEEDER CATTLE, FEEDLOT - 1977

			Dairy	Cash Crops	Cash		
	Average	Dairy	45 or	Plus	Crops	Cash	
ITEMS	A11 80	Less Than	More	Hogs	Plus		
	Farms	45 Cows	Cows	Complete	Dairy	Crops	
Number of farms	80	9	10	14	14	10	
Land							
Acres per farm	380	201	280	379	441	579	
Acres tillable	328	157	248	338	385	516	
% tillable	86.3	78.1	88.6	89.0	87.3	89.0	
% tillable in high return crops	80.2	63.0	71.4	88.0	76.9	n.a.	
% tillable in corn & corn silage	55.7	45.7	48.1	52.2	52.7	52.1	
% tillable in soybeans	18.1	0	0	29.9	13.5	32.2	
% tillable in alfalfa	13.6	27.6	36.5	0.5	17.9	0	
Labor							
Number of workers	1.87	1.57	1.81	1.77	2.41	1.41	
Total work units	516	378	697	402	647	272	
Work units in crops	167	80	135	170	196	257	
Work units in livestock	340	297	561	221	432		
Work units per worker	276	241	385	227	268	194	
Capital							
Average farm capital managed	314,740	149,029	262,691	341,677	372,778	493,621	
Capital managed per worker	176,389	94,923	145,133	206,315	158,617	350,086	
Earnings	<u> </u>			<u></u>			
Net cash operating income	40,265	19,155	40,235	32,845	35,391	61,222	
Labor and management earnings	23,273	7,298	17,303	29,497	22,530	31,781	
Rate earned on invest. whole farm %	10.2%	10.0	12.6	11.7%	9.4%	11.9	
Total farm sales	117,383	54,165	102,186	115,907	114,227	140,098	
Total value added	89,147	41,758	81,895	100,258	96,304	99,329	
Proportion of Value Added	0,141	- - , -	01,000	100,200	90,504	<i>99</i> ,525	
From livestock	42.6	54.0	56.3	39.6	42.3	0	
From crops	54.5	39.7	42.3	58.8	54.6	95.8	
Expenses		52.1	-r 4 • J	50.0	J-T • U) و ت ر ر	
Cash expense/\$100 sales	55	57	50	63	55	38	
Purchase/\$100 sales	88	69	81	97	80	95	
Yields	00		01	21	00		
Corn/bu.	119.9	94.7	120.5	122.5	118.7	129.3	
Soybeans, bu.	43.0	38.7	39.3	45.1	35.3	45.5	
Alfalfa, tons	4.3	3.6	4.5	4 5.1 4.1	4.0	4J.J 3.4	
Corn silage, tons	17.9	16.5	21.0		18.0	15.2	
ovin stigge, cons	±/•/	10.3	U • ۲.2		10.0	LJ.2	

Averages by Type of Farm, 1977, Southeastern Minnesota Farm Management Association.

Cumments by Veens Coutheaster	Minnoa	to Form N	langamant	Accortet	- :						
Summary by Years, Southeasterr		Average		Average			1071				
	1955-59	1960-64	1965-69	1970 - 74	1972	1973	1974	1975	1976	1977	
Number of farms	165	158	134	114	114	118	112	101	78	80	
Total farm capital managed	\$49342	\$60988	\$84088	\$ 1 48924	\$137338	\$174068	\$204978	\$246038	\$221625	\$314 , 740	
Monthly charge for; ,											
Unpaid family labor <mark>a</mark> /	133	147	160	410	300	350	400	450	500	500	
Second operator <u>a</u> /	133	187	295	<u>b</u> /	600	<u>b</u> /	<u>ь</u> /	<u>b</u> / 120	<u>ь</u> /	833	
Board for hired labor <mark>a</mark> /	38	40	45	69	60	75	90	120	130	120	
FARM EXPENSES											
Dairy cattle bought	\$ 235	\$ 265	\$ 39 8	\$ 584	\$ 363	\$ 527	\$ 966	\$ 522	\$ 457	9 00	
Beef cattle bought	913	1185	791	2304	2536	3768	2080	2770	1506	1821	
Hogs bought	258	386	504	796	751	1523	557	1573	1387	2199	
Sheep bought (incl. feeders)	143	88	7	8	11	4	8	7	8	1	
Poultry bought (incl. turkeys)	124	154	110	34	9	24	14	39	36	-	
Horses bought	6	2	1	2	-	- 7	-	-	6	-	
Miscellaneous livestock expens	e 530	731	947	1723	1662	1978	2161	2552	3397	3668	
Fertilizers bought	877	1085	1978	3906	2940	42.86	7362	7996	6169	7943	
Miscellaneous crop expense ^{C/}	651	926	1878	3960	3341	4869	6029	7266	6768	9016	
Feed bought	274 7	3735	4279	7184	5975	10372	10030	12059	14883	142 1 7	
Custom work hired	745	857	1295	1953	1908	2023	2222	2285	2586	3280	
Power & crop machinery (new)	1825	1803	3538	6984	6434	9096	9919	1 1 499	9506	13773	
Power & crop machinery (upkeep) <u>e</u> /1937	2378	2712	4757	4254	5444	6384	7178	7123	8785	1
Livestock equipment (new)	347	412	658	1547	954	1544	3099	1673	2503	2908	40
Livestock equipment (upkeep)	152	171	225	50 5	440	649	710	794	937	1067	
New real estate & improvements	982	1229	1930	3757	3909	3648	54 79	8584	6625	21806	
Buildings and fencing (upkeep)	320	344	436	812	684	9 9 4	1188	1272	1177	1932	
Hired labor	878	922	1123	2086	1895	2335	2642	2896	3243	3947	
Taxes	861	1301	1589	2191	2129	2287	2232	2795	2544	3262	
General farm expense <u>†</u> /	316	409	555	959	901	1069	1270	1586	1698	2278	
Total farm purchases	\$14847	\$18383	\$24954	\$46052	\$41096	\$56447	\$64352	<u> \$75319</u>	\$ 72559	\$102803	
Decrease in farm capital _{4/}	••	-	-	-	-	-	-	-	-	- '	
Decrease in farm capital	2467	3049	4482	9345	8240	10444	14349	17223	15514	18884	
Unpaid family labor	540	629	815	3485	1532	8186	5132	4578	4254	2864	
Board furnished hired labor	134	101	64	72	45	55	140	83	137	535	
Total farm expense	\$17988	\$22162	\$30315	\$58954	\$50913	\$75132	\$83973	\$97203	\$92464	\$125086	

These adjustments should be considered in comparing 1977 with previous years.

Labor earnings was divided between the various partners.

Includes chemicals.

<u>a</u>/ <u>b</u>/ <u>c</u>/ <u>d</u>/ Interest was calculated at the rate of 5% on capital managed from 1950 to 1966, at 5.5% from 1967 to 1969, at 6% from 1970-1973, at 7% in 1974-76, and 6% in 1977.

Including electricity expense (farm share). <u>e/</u> <u>f</u>/

Including telephone expense (farm share).

40

Summary by Years, Southeastern Minnesota Farm Management Association (cont.)

ITEM	Average 1955 - 59	Average 1960 - 64	Average 1965-69	Average 1970 - 74	19 72	1973	1974	1975	1976	1977
FARM RECEIPTS						· · · ·	 			
Dairy cattle sold	\$ 1641	\$ 2061	\$ 3246	\$ 4746	\$ 4694	\$ 5855	\$ 5552	\$ 4825	\$ 4937	\$ 5009
Dairy products sold	6032	8105	11631	19710	17262	20694	26432	24988	29269	32495
Beef cattle sold	1891	2688	2148	5039	5319	6310	5983	6206	4631	5988
Hogs sold	4653	5961	7973	14437	12516	22993	20670	33495	31272	35028
Sheep and wool sold	272	222	95	104	111	118	111	92	107	27
Poultry (incl. turkeys) sold	212	88	82	12	8	13	8	4	7	-
Eggs sold	1075	1015	732	125	90	85	96	107	170	99
Horses sold	8	4	1	-	1	. 1	-	-	3	1
Corn sold	1926	1594	2467	8865	5255	11136	18267	13527	13763	16256
Soybeans sold	-	-	1689	6062	4464	7991	12156	7897	8217	13767
Small grain sold ,	481	624	492	587	259	494	1407	1375	1974	1560
Other crops sold ^a	1334	2181	2582	2553	4023	2568	1364	1825	1242	2616
Mach., & equip. sold & tax ref		323	379	460	348	397	664	532	423	801
Income from work off the farm	269	239	432	608	484	889	923	1417	1111	1169
Miscellaneous farm income	458	559	1022	1523	1508	1768	1805	2562	2337	2566
Total farm sales	\$20523	\$25664	\$34971	\$64831	and the second s	\$81312	\$95438	\$98862	\$99463	\$117383
Increase in farm capital	941	601	3516	13137	10109	33825	12241	11377	10400	30426
Family living from the farm	304	307	321	437	380	526	564	558	573	550
Total farm receipts	\$21768	\$26572	\$38808	\$78405	\$66831	\$ 115663	\$ 108243	\$ 110797	\$110436	\$ <mark>148359</mark>
Total farm expenses	17988	22162	30515	58954	50913	75132	83973	97203	92464	-
Labor and management earnings	\$ 3780	<u>\$ 4410</u>	\$ 8293	\$19451		\$ 40531	\$ 24270	\$ 13594	\$ 17972	the second s
MEASURES OF FARM ORGANIZATION	AND MANAG	EMENT EFF	ICIENCY							
Percent land in high ret crops	<u>b/</u> 62.7	60.1	60.5	65.2	64.8	65.3	66.3	67.8	67.3	80.2
Livestock units per 100 acres	33.7	36.4	34.3	42.1	33.1	36.9	36.9	36.4	40.6	36.9
Work units $\frac{d}{d}$	486	548	505	462	446	482	509	522	494	516
Work units per worker $\frac{d}{d}$	274	318	305	323	262	284	283	272	261	276
Expenses per work unit $\frac{d}{d}$	\$10.81	\$11.61	\$ 17. 99	\$33.94	\$31.75	\$38.89	\$41.48	\$44.92	\$48.72	\$58.12

Includes soybeans 1950-1965, and crop disaster payments 1976. a/

<u>b</u>/ The crop ratings used in calculating the percentage of the tillable land in high return crops were considerably changed in 1957 and 1977.

The basis for computing animal units was revised in 1951.

<u>c</u>/ <u>d</u>/ The basis for computing work units was revised in 1953, 1967, and 1970. £

Summary of Miscellaneous Items by Years

Item	Average 1955-59	Average 1960 - 64	Average 1965 - 69	Average 1970-74	1 9 72	1973	1974	1975	1976	1977	
RETURN ABOVE FEED COST PER									· · ·		
Dairy cow	\$162.86	\$183 . 05	\$ 266.7 4	\$409.16	\$4 17. 68	\$455.85	\$424.99	\$340.01	\$564.65	\$ 717. 77	
100 lbs. feeder cattle prod.	4.76	1.78	5.08	3.28	17.82	14.06	-28.90	7.09	-8.29	2.04	
Ewe	6.18	5.40	7.52	10.36	16.75	15.99	-3.04	-19.17	-1.40	-	
100 lbs. hogs produced	4.62	4.57	8.86	10.66	14.17	21.49	6.42	21.35	11.59	21.83	
Hen	1.39	1.27	.84	.82	.14	1.67	2.22	01	1.56		
Beef cow	- -			30.17	30.69	61.27	-63.88	-1 03.52	124.67	13.78	
FEED COST PER											
Dairy cow	\$147.05	\$169.62	\$2 15. 79	\$332.30	\$ 257.5 9	\$381.72	\$521.92	\$622.52	\$649.52	\$ 546. 06	
100 lbs. feeder cattle prod.	18.83	19.10	21.60	30.78	22.10	36.23	51.39	45.33	49.91	44.39	
Ewe	11.17	13.46	19.51	32.17	24.58	32.46	56.97	66.60	67.05	-	
100 lbs. hogs produced	10.65	10.65	11.90	16.86	12.88	20.77	26.00	27.35	24.95	19.60	
Hen	3.78	3.28	3.31	3.38	2.78	4.27	3.88	5.44	5.14	-	
Beef cow	-	-	· -	132.41	121.69	147.62	189.10	193.42	241.27	179.65	
MISCELLANEOUS LIVESTOCK INFORM	4ATION										
Number of dairy cows $\frac{a}{a}$, 19.8	22.2	24.2	26.6	25.7	25.8	27.6	25.3	22.4	26.0	
Pounds of feeder cattle prod.	<u>a</u> / 3529	5573	4308	7297	7211	8593	7882	6770	4655	4964	42
Litters of pigs <u>a</u> /	17.3	19.4	19.7	26.6	24.3	34.3	34.1	39.1	40.5	45	
Pounds of hogs produced $\frac{a}{a}$	28272	36619	36519	46973	47090	56762	59433	68265	72232	82772	
Number of hens <u>a</u> /	209	197	138	26	23	14	15	17	20	-	
Pounds of butterfat per dairy		375	417	458	461	457	462	474	486	509	
Pigs weaned per litter ,	6.9	7.1	7.3	7.2	7.2	7.2	7.2	7.4	7.5	7.4	
Number of head of ewes $\frac{a}{}$	5	4	3	2	2	2	2	1	1	· ••	
Eggs per hen	203	205	201	186	198	168	181	200	185	-	

Information not available

a/ The reader is cautioned that these six items are calculated as follows. The total number of head, pounds, litters, hens, etc., reported by all farmers whose records are included in the summary averages, is divided by the number of records included in the analysis (first line, table 22). Thus, items are not averages per farm reporting this item, instead they are averages for all farms included in the summary, regardless of whether all farms had that particular livestock enterprise or not. The correct interpretation of such information is to display trends over time in agriculture in the areas in which record keepers live whose records are included in the summary. For example, the number of hens is increasing, the number of litters being farrowed is increasing, etc., in the general area covered by the Southeast Farm Management Association.

Item		Av er age 1960-64		Average 1970-74	1972	1973	1974	1975	1976	1977	
PRICE RECEIVED PER											
Pound of butterfat in milk	\$.90	\$. 94	\$ 1 . 15	\$ 1.6 0	\$ 1. 43	\$ 1.73	\$ 2.06	\$ 2.07	\$ 2.46	\$ 2.49	
Cwt. of milk		3.48	4.31	6.01	5.47	6.50	7.75	7.93	9.11	9.12	
Cwt. of hogs	15.99	15.55	20.89	28.41	26.13	41 .2 8	34.67	47.91	42.95	40.61	
Cwt. of feeder cattle sold	21.19	22.61	24.02	34.22	33.48	43.58	38.02	37.80	35.03	37.85	
Pound of wool sold	.50	.62	.56	.67	.86	1.08	.36	.24	-	-	
Dozen of eggs sold	.31	.28	.28	• 34	.25	.46	.47	.45		-	
PRICE OF FEED							· · · · · · ·		÷	+ 0 00	
Corn (per bu.)	\$ 1.11		\$ 1.10	\$ 1. 57	\$ 1. 08	\$ 1. 70	\$ 2.75	\$ 2 .65	\$ 2.45	\$ 2.00	
Barley (per bu.)	.92	.91	.97	1.06	.92	1.55	-	-	-	1.60	
Oats (per bu.)	.59	.61	.62	.89	.65	.90	1.70	1.45	1.45	1.20	
Oilmeal (per cwt.)	3.73	4.36	4.99	7.46	6.35	13.50	-	-	-	-	
Alfalfa (per ton)	18.20	19.40	20.80	26.20	21.00	30.00	40.00	60.00	70.00	50.00	
Timothy hay (per ton)	10.58	11.22	12.00	14.44	11.60	18.70	18.70	-	-	-	
Corn silage (per ton)	6.08	6.60	7.36	9.15	7.25	10.00	14.00	20.00	22.00	16.00	
ACRES PER FARM		_									43
Small grains	36.1	34.5	30.4	26.1	23.4	24.3	29.2	29.4	32.6	34.1	
Cultivated crops	90.0	103.6	132.4	187.5	175.7	215.3	223.8	249.9	207.1	245.9	
Tillable land in hay	37.6	39.4	40.0	43.3	41.3	41.4	43.5	45.6	45.1	46.0	
Tillable land in pasture	20.0	16.6	12.8	9.2	8.6	8.6	7.0	7.5	6.8	2.8	
Tillable land not cropped <u>a</u> /	<u> </u>	14.4	22.0	18.4	37.7	8.2	.8	.8	1.5	<u>-0.7b</u> /	
Total tillable land	186.5	208.5	237.6	284.5	286.7	297.8	304.3	33.2	293.1	328.1	
Non-tillable land	48.2	47.3	46.3	<u> 49.7</u>	51.5	47.1	52.9	52.8	47.3	51.9	
Total acres per farm	234.7	255.8	283.9	334.2	338.2	344.9	357.2	386.0	340.4	380.0	
YIELD PER ACRE								00 T	06.1	110.0	
Corn (bu.)	73.1	72.4	86.8	96.2	101.1	109.3	77.6	90.1	86.1	119.9	
Barley (bu.)	41.4	44.9	51.4	47.6	53.4	54.8	42.8	31.3	58.5	71.2	
Oats (bu.)	58.3	58.3	62.4	61.6	66.6	61.0	63.5	62.4	67.0	76.0	
Alfalfa (tons)	2.9	3.0	3.2	3.6	3.6	3.6	3.7	3.5	3.2	4.3	
Soybeans (bu.)	24.8	23.6	24.4	28.4	30.9	33.0	23.1	28.1	29.8	43.0	

- Information not available.

 \underline{a} / Including feed grain program. \underline{b} / Negative sign means that area double cropped exceeded area not cropped by the amount shown.