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1977

annual report

Southwestern Minnesota Farm Management Association

COOPERATING AGENCIES:

University of Minnesota, Institute of Agriculture County Extension Services of the 10 Southwestern Counties Southwestern Minnesota Farm Management Association

> Economic Report ER 78-1 Department of Agricultural & Applied Economics Institute of Agriculture St. Paul, Minnesota 55108 February 1978

1977 ANNUAL REPORT OF THE SOUTHWESTERN MINNESOTA

FARM MANAGEMENT ASSOCIATION

prepared by

Delane E. Welsch, Erlin Weness, and Perry Fales *

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 southwestern Minnesota counties are cooperating with the Southwestern Minnesota Farm Management Association in maintaining a farm management service. The Association was organized in the fall of 1939 by farmers in that part of the state for the purpose of studying the farm business through farm records. Each farmer pays an annual fee which covers a 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. Erlin Weness and Perry Fales are the fieldmen for this project. Paul Hasbargen is the Extension Economist in Farm Management working closely with this Association. Arnold Sandager is the District Director of Agricultural Extension for the counties which are served by the Association.

Of the 208 farms in the Southwestern Association, 189 submitted records at the time of this report. The data for 169 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 southwestern 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 classes 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, Weness and Fales are jointly Area Farm Management Extension Agents and Fieldmen 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; Dennis Miller, Gene Metz, Alan Langseth, and Laurine Ziemke 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
Cottonwood	32	30	Norris Mattison DuWayne Falk	Darrell D. Anderson
Faribault	12	12	Barron Weber	Henry C. Bollum
Jackson	22	17	Robert Untiedt Walter Ulbricht	Roger A. Lind
Lyon	· 3	2		Raymond J. Newell
Martin	13	13	Keith Worthley	Floyd H. Bellin, Jr.
Murray	25	21	Tom Keller John Van Oort	Reuben M. Boxrud
Nobles	39	38	Gary Hibma, President John Widboom, Vice Pres. M. J. Fellows SecTres Jerry Taylor	Arthur R. Frame
Pipestone	15	12	Steven Hansberger Jim Vanderlugt Arthur Spronk	Robert E. Fritz
Redwood	32	28	Francis Boerboom E. W. Runck	Ernest D. Johnson
Rock	1	0		Byron R. Peters
Watonwan	12	12	Merlyn Froslan	John I. Ankeny
Yellow Medicine	2	1		David S. Johnson
Total	208	186		

1977 ANNUAL REPORT OF THE SOUTHWESTERN MINNESOTA

FARM MANAGEMENT ASSOCIATION

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TABLE 1. FARM INVENTORIES - 1977

ITE	MS	of	erage 169	
		Fa	arms 501.2	
1	SIZE OF FARM-TOTAL ACRES		447.0	
2	-TILLABLE ACRES		219.41	
3	WORK UNITS-CROPS		257.20	
, 5	-LIVESTOCK		38.56	
	-OTHER TOTAL SIZE OF BUSINESS IN WORK UNITS		515.17	
5			1.77	
7 3	NUMBER OF WORKERS FARM CAPITAL INVESTMENT PER WORKER	ċ	205,099	
5	FARM CAPITAL INVESTMENT PER WORKER	Ŷ	203,077	
			JAN. 1	DEC. 31
)	PRODUCTIVE LIVESTOCK			
5	DAIRY COWS	\$	2,583	\$ 2 ,433
Ĺ	OTHER DAIRY CATTLE	т	2,043	•
	BEEF BREEDING CATTLE		2,891	
3	BEEF FEEDER CATTLE		22,257	
•	HOGS		11,216	
r	SHEEP (INCL. FEEDERS) & GOATS		221	264
5	POULTRY-ALL TYPES		590	970
7	OTHER LIVESTOCK		8	7
3	TOTAL PRODUCTIVE LIVESTOCK	\$	41,809	\$ 47 , 238
,	TOTAL TRODUCTIVE ELVEDTOCK			
)	CROP, SEED AND FEED	Ş	53,665	\$ 65 , 706
)	POWER, MACHINERY AND EQUIPMENT			
Ĺ	AUTO AND TRUCK (FARM SHARE)	\$	4,035	\$ 4 , 575
2	POWER AND MACHINERY		28,710	31,034
-	IRRIGATION EQUIPMENT		-	
ł	CUSTOM WORK EQUIPMENT			
5	LIVESTOCK EQUIPMENT		6,307	6,653
5	TOTAL POWER, MACHINERY AND EQUIPMENT	\$	39,053	\$ 42,262
7	LAND	\$	159,069	\$165,011
8	BUILDINGS-FENCES-ETC.		41,888	45,282
9	TOTAL FARM CAPITAL	\$	335,484	\$ 3 65, 498
0	INCREASE OR DECREASE IN TOTAL FARM CAPITAL			\$ 30,014

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.

	······································	34 Most*	·	34 Leas	t*
ITE	MS	Profitable		Profitab	1e
		Farms	-	Farms	
1	SIZE OF FARM-TOTAL ACRES	745.2		463.0	
2	-TILLABLE ACRES	666.4		398.3	
3	WORK UNITS-CROPS	318.95		204.15	
4	-LIVESTOCK	402.15		203.48	
5	-OTHER	30.16		16.33	
6	TOTAL SIZE OF BUSINESS IN WORK UNIT	s 751.26	,	42 3. 96	
7	NUMBER OF WORKERS	2.03		1.64	
8	FARM CAPITAL INVESTMENT PER WORKER	\$276 , 454		\$ 190,515	
		Jan. 1	Dec. 31	Jan. 1	Dec. 31
9	PRODUCTIVE LIVESTOCK	61 / OF	ė 000	01//F	A 1 071
10	DAIRY COWS	\$ 1,485			
11	OTHER DAIRY CATTLE	418	339		1,524
12	BEEF BREEDING CATTLE		4,838	4,794	
13	BEEF FEEDER CATTLE	28,639		21,572	
14	HOGS	16,115			
15	SHEEP (INCL. FEEDERS) & GOATS	143	110		
16	POULTRY-ALL TYPES	2,345			
17	OTHER LIVESTOCK	34	34	4	3
18	TOTAL PRODUCTIVE LIVESTOCK	\$ 54,5 82	\$69 , 378	\$40 ,549	\$ 43, 440
19	CROP, SEED AND FEED	\$83,770	\$113,570	\$51,630	\$55 , 239
20	POWER, MACHINERY AND EQUIPMENT				
21	AUTO AND TRUCK (FARM SHARE)	\$ 4,351			
22	POWER AND MACHINERY	37,529	· 41,901	23,756	24,696
23	IRRIGATION EQUIPMENT				
24	CUSTOM WORK EQUIPMENT				
25	LIVESTOCK EQUIPMENT	6,387		5,132	
26	TOTAL POWER, MACHINERY AND EQUIP	\$48,267	\$54 , 983	\$32 ,777	\$34,313
27	LAND	\$233,883		\$132,974	
28	BUILDINGS-FENCES-ETC.	64,814	63,904	34,005	35,728
29	TOTAL FARM CAPITAL	\$485,316	\$544 , 503	\$291 , 934	\$302,910
30	INCREASE OR DECREASE IN TOTAL FARM CAPITAL		\$ 59,187		\$ 10 ,9 76

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.

34 Least

Profitable

356 3,908

2,083

1,046

49,294

23,855

463

234

77

70

1,767

\$ 83,154

1,545

13,695

21,257

620

513

336

Ş

Farms

\$

23,817

45,348

194

411

T	ABLE 2A. TOTAL FARM RECEIPTS - 1977	·	
17	ſEMS	Average of 169 Farms	34 Most Profitable Farms
1	SALE OF LIVESTOCK AND LIVESTOCK PRODUCTS		
2	DAIRY COWS	\$ 1, 088	\$ 8 93
3	DAIRY PRODUCTS	8,074	3,136
4	OTHER DAIRY CATTLE	1,606	444
5	BEEF BREEDING CATTLE	626	1,314
6	BEEF FEEDER CATTLE	45, 754	55,608
7	HOGS COMPLETE AND MIXED	27,943	43,918
8	HOGS FINISHING	3,774	7,006
9	HOGS PRODUCING WEANING PIGS	487	
10	SHEEP, GOATS AND WOOL, FARM FLOCK	267	153
11	SHEEP AND WOOL, FEEDER LAMBS		
12	CHICKENS (INCL. HENS AND BROILERS)	276	532
13	TURKEYS	2,387	11,866
14	EGGS	3,073	13,042
15	OTHER PRODUCTIVE LIVESTOCK AND PRODUCTS	5	
16	OTHER MISC. LIVESTOCK INCOME	14	2
17	TOTAL LIVESTOCK SALES	\$ 95,373	\$1 37,91 3
18	SALE OF CROPS		· •
19	WHEAT	\$ 2,022	\$ 3,286
20	OTHER SMALL GRAINS	1,352	2,440
		14 050	

25 GRASS SEED 26 FRUITS AND NUTS 27 VEG. ROADSIDE MARKET AND SPECIALTY 28 NURSERY, TIMBER AND OTHER 29 SET ASIDE ACRES-GOVERNMENT PAYMENTS \$ 46,226 \$ 75,497 \$ 37,966 TOTAL CROP SALES 30 729 313 \$_. 823 CAPITAL ASSETS SOLD \$ \$ 31 243 295 239 32 GAS TAX REFUND 1,518 1,313 814 33 INCOME FROM WORK OFF THE FARM 34 CUSTOM WORK ENTERPRISE INCOME 1,728 1,625 2,599 35 PATRONAGE REFUNDS 1,076 1,531 1,094 36 MISCELLANEOUS FARM INCOME \$146,894 \$219,971 \$125,205 TOTAL FARM SALES 37 \$ 32,220 \$ 59,446 \$ 14,172 38 INCREASE IN FARM CAPITAL 454 618 367 FAMILY LIVING FROM THE FARM 39 \$179,568 \$280,035 \$139,743 TOTAL FARM RECEIPTS (37)+(38)+(39)40

16,359

25,512

712

268

SEE PAGE 14 FOR EXPLANATORY NOTE FOR THIS TABLE.

21

22

23

24

CORN

SOYBEANS

OTHER ROW CROPS

LEGUMES AND OTHER FORAGE

TA	BLE 2B. TOTAL FARM EXPENSES AND LABOR AN	D MANAGEMENT E	ARNINGS - 1977	
		Average	34 Most	34 Least
ITI	EMS	of 169	Profitable	Profitabl e
		Farms	Farms	Farms
1	PURCHASE OF LIVESTOCK	A 1/F	<u>,</u>	÷ (0
2	DAIRY COWS	\$ 165	\$	\$
3	OTHER DAIRY CATTLE	554		1,700
4	BEEF BREEDING CATTLE	217	195	627
5	BEEF FEEDER CATTLE	25,662	30 ,52 8	29,181
6	HOGS COMPLETE AND MIXED	1,356	2,767	480
7	HOGS FINISHING	1,725	3,677	
8	HOGS PRODUCING WEANING PIGS	17	•	4
9	SHEEP AND GOATS	90	14	20
10	SHEEP, FEEDER LAMBS			
11	CHICKENS (INCL. HENS AND BROILERS)	731	2,927	534
12	TURKEYS	438	2,179	554
			2,17	
13	OTHER PRODUCTIVE LIVESTOCK	2	0 / 00	0 000
14	MISCELLANEOUS LIVESTOCK EXPENSE	2,539	3,423	2,330
15	FEED BOUGHT	24,390	41,437	21,868
16	FERTILIZER	6,602	9,543	7,723
17	CHEMICALS	3,801	5,815	3,242
18	OTHER CROP EXPENSE	5,464	8,875	5,462
19	IRRIGATION OPERATION COSTS			
20	CUSTOM WORK ENTERPRISE OPERATOR COSTS,			
	INC. LABOR			
21	CUSTOM WORK HIRED	2,687	3,384	2,297
22		922	1,408	794
	REPAIR + UPKEEP OF LIVESTOCK EQUIPMENT		-	
23	REPAIR + UPKEEP OF FARM REAL ESTATE	1,139	1,147	1,466
24	GAS, OIL, GREASE BOUGHT (FARM SHARE)	3,367	4,569	3,155
25	REPAIR + OPERATOR OF MACH., TRACTOR, TRU			
	AND AUTO	4,126	5,498	3,80 6
26	REPAIR + UPKEEP OF IRRIGATION EQUIPMENT			
27	REPAIRS, CUSTOM WORK ENTERPRISE			
28	WAGES OF HIRED LABOR	3,176	5,325	2,892
29	PERSONAL PROPERTY + REAL ESTATE TAXES	3,582	5,263	3,554
30	GENERAL FARM EXPENSE	1,572	2,007	1,644
31	TELEPHONE EXPENSE (FARM SHARE)	221	235	210
	ELECTRICITY EXPENSE (FARM SHARE)	880	1,127	796
	TOTAL CASH OPERATING EXPENSE			
33	101AL CASH OPERALING EXPENSE	ş 99 ,423	9141 , 544	ş 9 3, 020
34	POWER, CROP AND GENERAL MACH. BOUGHT	\$ 12,947	\$ 17,725	\$ 11,75 9
- •	(FARM SHARE)			
35	IRRIGATION EQUIPMENT BOUGHT	16		
	CUSTOM WORK EQUIPMENT BOUGHT	-*		8.11
37	-	1,934	2,720	1 150
	•			
38				
39	TOTAL FARM PURCHASES (33) THRU (3	38) \$124,576	\$1/5,/35	\$116,666
40	DECREASE IN FARM CAPITAL	2,206	259	3,195
41	INTEREST ON FARM CAPITAL		30,895	
42	UNPAID FAMILY LABOR	470	-	157
	LABOR CHARGE FOR PARTNERS + OTHER OPERATO			1,912
43				•
44 45	BOARD FURNISHED HIRED LABOR TOTAL FARM EXPENSE (39) THRU (44			184 \$139 ,96 0
4)	•			
46	RETURN TO OPER. LABOR & MGMTSINGLE OP	ER.\$ 29,307	\$ 68 , 987	\$ (-217)
1-	(WHOLE FARM) $(2A/40) - (45)$ \$		-	•
47	NUMBER OF OPERATORS	1 10	1	2 1.15
48		1.18	1.34	
49		ş 26 , 334	\$ 57,312	\$ 1, 057
	OPER. EQUIVALENT			

TABLE 3. ENTERPRISE STATEMENT - 1977

ITE	MS	Average of 169 Farms	34 Most Profitable Farms	34 Least Profitable Farms
1	RETURNS AND NET INCREASES	<u>t a tinb</u>		Faims
2	PRODUCTIVE LIVESTOCK			
3	DAIRY COWS	\$ 8 ,1 68	\$ 3,185	\$ 3,792
4	OTHER DAIRY CATTLE	,983	781	
5	BEEF BREEDING CATTLE			1,230
6	FEEDER CATTLE	1,378	2,492	2,278
7		21,640	31,761	20,593
8	HOGS, COMPLETE & MIXED	29,162	45,596	23,884
	HOG FINISHING ENTERPRISE	2,364	4,940	
9	PRODUCING WEANING PIGS	492		427
10	SHEEP AND GOATS	232	108	308
11	SHEEP, FEEDER LAMBS			
12	CHICKENS (INCL. HENS AND BROILERS)	2,694	10,977	1,356
13	TURKEYS	2,257	11,217	
14	OTHER PRODUCTIVE LIVESTOCK	3		(-1)
15	TOTAL ALL PRODUCTIVE LIVESTOCK	\$ 70 , 373	\$111,055	\$ 53 , 867
16	VALUE OF FEED FED TO LIVESTOCK	45,663	71,372	37,527
17	RETURN OVER FEED FROM LIVESTOCK	24,710	39,683	16,339
18	CROP, SEED AND FEED	63,599	110,985	40,766
19	COOPERATIVE PATRONAGE REFUNDS	1,728	2,599	1,625
20	MISCELLANEOUS FARM INCOME	1,076	1,531	1,094
21	CUSTOM WORK ENTERPRISE		- -	,
22	TOTAL RETURNS AND NET INCREASES	\$ 91 , 114	\$154,798	\$ 59,824
23	EXPENSES AND NET DECREASES			
24	TRUCK AND AUTO (FARM SHARE)	\$ 3,595	\$ 4,371	\$ 3 ,521
25	TRACTORS AND CROP MACHINERY	14,498	19,078	14,098
26	IRRIGATION EQUIPMENT	16	- ,	· • • • •
27	ELECTRICITY	880	1,127	796
28	LIVESTOCK EQUIPMENT	2,613	3,379	2,132
29	BUILDINGS, FENCES AND TILING	5,276	6,783	5,763
30		542	(-112)	2,686
31	MISC. LIVESTOCK EXPENSE	2,539	3,423	2,330
32	LABOR	3,684	5,979	3,550
33	LABOR CHARGE OTHER OPERATOR(S)	1,762		
34	PROPERTY TAX		3,382	1,912
35		3,582	5,263	3,554
36	GENERAL FARM EXPENSE AND TELEPHONE INTEREST ON FARM CAPITAL	1,793	2,242	1,853
50	INTEREST ON FART CAPITAL	21,029	30,895	17,845
37	TOTAL EXPENSES AND NET DECREASES	\$ 61,807	\$ 85,810	\$ 60,040
38	RETURN TO OPERATORS LABOR AND MANAGEMENT	\$ 29,307	\$ 68,987	\$ (-216)
39	NUMBER OF FARM OPERATORS	1	1	2

SEE PAGE 14 FOR EXPLANATORY NOTE FOR THIS TABLE.

TABLE 4. HOUSEHOLD EXPENSE - 1977

ITEMS	Average of 75 Farms		
1 NUMBER OF PERSONS - FAMILY	4	4	4
2 NUMBER OF ADULT EQUIVALENT - FAMILY	3.0	3.3	3.3
3 CHURCH AND WELFARE	\$ 1, 007	\$ 1,842	\$ 750
4 MEDICAL CARE AND HEALTH INSURANCE	1,442	1,487	
5 FOOD AND MEALS BOUGHT	2,425	2,307	
6 OPERATING EXPENSE AND SUPPLIES	901	820	
7 FURNISHINGS AND EQUIPMENT	1,039	1,172	
8 CLOTHING AND CLOTHING MATERIALS	1,017		
9 PERSONAL CARE, PERSONAL SPENDING	506	476	694
0 EDUCATION	302	340	345
1 RECREATION	674	814	779
2 GIFTS AND SPECIAL EVENTS	561	925	625
3 PERSONAL SHARE TRUCK AND AUTO EXP.	742	7 1 0	
4 OPER. SHARE UPKEEP ON DWELLING	283	441	38
4A CASH RENT - PERSONAL			
5 PERSONAL SHARE TEL. AND ELECT. EXP.	339	512	259
5A PERSONAL SHARE - GEN. FARM EXPENSE	12	35	
6 TOTAL CASH LIVING EXPENSE	\$ 1 1, 249		
7 PERS. SHARE NEW TRUCK AND AUTO	388	607	281
8 NEW DWELLING BOUGHT	1,774	3,589	
9 TAXES AND OTHER DEDUCTIONS	3,513	5,800	2,472
0 LIFE INSURANCE AND OTHER SAVINGS AND INVE	ST 3,309	2,960	2,874
1 TOTAL HOUSEHOLD AND PERSONAL (16)-(20)		2,960 \$ 25,967 731	\$ 20,124
2 TOTAL FAMILY LIVING FROM THE FARM (33)	452	· /JI	504
3 TOTAL CASH AND NON-CASH EXPENSES (21)+(22) \$ 20,685 🐇	\$ 26,698	\$ 20,488
4 FAMILY LIVING FROM	THE FARM		
5	QUANTITY	QUANT ITY	QUANTITY
6 MILK AND CREAM (QUARTS)	176	139	42
7 BEEF AND BUFFALO (POUNDS)	933	1,704	905
8 PORK (POUNDS)	185	203	110
0 POULTRY, ALL FOWL (POUNDS)	1	-	•
1 EGGS (DOZEN)	11	12	•
3 TOTAL FAMILY LIVING FROM THE FARM	452	731	364
ے <u></u>	T. A. C.		

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 75 out of the 169 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 accounts 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.

IT	EMS	Average of Jan. 1	111 Farms Dec. 31	
1	TOTAL PRODUCTIVE LIVESTOCK	\$ 38,639		
2		47,079		
	CROP, SEED AND FEED TOTAL POWER, MACHINERY AND EQUIPMENT	34,779		
3		58,189	64,013	
4	LAND	38,529		
5	BUILDINGS, FENCES, ETC.	\$217,215		
6	TOTAL FARM CAPITAL	Ş217,213	Ş24 3, 079	
7	NON-FARM ASSETS	33,647	38,842	
7A	CASH ON HAND & IN BANK	2,554	3,145	
8	DWELLING	12,855	13,922	
9	TOTAL ASSETS	\$ 266,271	301,588	
10	REAL ESTATE MORTGAGES	54,193	61,877	
11	CHATTEL MORTGAGES	37,900	41,826	
12	NOTES	14,238	17,014	
13	ACCOUNTS PAYABLE	4,988	4,036	
14	TOTAL LIABILITIES	\$ 111,319	124,753	
15	FARMERS NET WORTH	\$ 154 , 952	\$176,835	
16	GAIN (OR LOSS) IN NET WORTH		\$ 21,884	
17	SUPPLEMENTARY FINANCIAL INFORMATION			
18	RETURN TO OPERATORS LABOR & MANAGEMENT (6B/47)	\$ 22,935		
19	RETURN TO CAPITAL AND FAMILY LABOR (6B/48)	30,096		
20	NON-FARM INCOME	•		
21	OUTSIDE INVESTMENT INCOME	960		
22	OTHER PERSONAL INCOME & INCOME TAX REFUND	2,421		
22A	SALE OF PERSONAL SHARE - DWELLING, AUTO & TRUCK	9		
23	TOTAL NON-FARM INCOME	3,389		
24	TOTAL FAMILY FARM AND NON-FARM INCOME	33,485		
25	TOTAL MONEY BORROWED	67,245		
26	TOTAL PAID ON DEBT (PRINCIPAL)	63,306		
27	TOTAL HOUSEHOLD + PERSONAL CASH/NON-CASH EXP (4/23)			
28	RATIO TOTAL FARM EXP TO TOTAL FARM REC OPER SHARE	.854		
		JAN. 1 DEC.		
29	RATIO TOTAL ASSETS TO TOTAL LIABILITIES	2.392 2.4	417	
30	RATIO NON-REAL EST. ASSETS-NON-REAL EST. LIAB.		3 92	
31	RATIO REAL EST. ASSETS TO REAL EST. LIAB.	2.022 1.9		
32	RATIO NET WORTH TO TOTAL LIABILITIES			
33	RATIO CASH OPER. EXP TO ADJ. TOTAL FARM SALES (O.S.)		
34	RATIO TOTAL FARM RECEIPTS TO AVE. FARM CAPITAL (W.I	F.) .:		
35	RATIO TOTAL FARM RECEIPTS TO AVE. FARM CAPITAL (0.9	5.) .(577	

TABLE 5. OPERATOR'S NET WORTH STATEMENT AND SUPPLEMENTARY FINANCIAL INFO. - 1977

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 on next page)

	E 5. OPERATOR'S NET WORTH		Most		east
ITEN	15	Profitabl	e Farms	Profitabl	
		Jan. 1	Dec. 31	Jan. 1	Dec. 31
1	TOTAL PROD LIVESTK	\$ 48,404	\$ 60,177	\$ 40 , 157	\$ 38,938
2	CROP, SEED AND FEED	71,181	98,962	40,028	44,930
3	TOT PWR MACH EQUIP	48,551	51,062	30,539	34,620
4	LAND	86,535	95,430	65,555	68 , 734
5	BLDG FENCE TILE ETC	61,431	62,082	34,018	
6	TOTAL FARM CAPITAL	\$316,101	\$367,713	\$210,297	\$227,605
7	NON DADA AGAIMA	27,001	29,270	31,045	35,835
7	NON-FARM ASSETS	633	2,247	2,490	3,070
	CASH ON HAND & BANK			10,315	11,056
8	DWELLING	18,697	20,669		
9	TOTAL ASSETS	362,433	419,898	254,147	277,566
10	REAL ESTATE MORTGAGE	66,248	71,412	57,525	66,540
11	CHATTEL MORTGAGES	39,034	45,180	49,367	56,002
12	NOTES	14,020	20,457	13,598	14,208
13	ACCOUNTS PAYABLE	6,274		10,845	12,879
14	TOTAL LIABILITIES	\$125 , 576	\$139,772	\$131,335	\$149,630
15	FARMER NET WORTH	\$236,857	\$ 28 0,126	\$122,812	\$127 , 936
16	GAIN (LOSS) NET WORTH		\$ 43,269		\$ 5,125
17	SUPPLEMENTARY FINANCIAL	INFORMATION			
18	RT OP LAB MGT 6B/47	\$ 55 , 580		\$ (-2420)	
19	RT CAP FAM LAB 6B/48	68,370		2,565	
20	NON-FARM INCOME				
21	OUTSIDE INV INCOME	1,095		1,340	
22	OTHR PER INC & TX RF	1,830		3,047	
22A	SAL PER SHR-DWLNG				
23	TOT NON FM INCOME	2,925		4,388	
24	TOT FAM FM & NFM IN	71,296		6,952	
25	TOTAL MONEY BORROWED	71,416		75,279	
26	TOT PD ON PRINCIPAL	68,546		68,006	
27	TOT HH & PER C & NC $4/23$	\$17,076		\$14 , 698	
28	RATIO: TOT FM EX/REC OS	.759		1.018	
		Jan. 1	Dec. 31	Jan. 1	Dec. 31
29	RATIO: TOT ASSETS T/LIAB	2.886	3.004	1.935	1.855
30	RATIO: NON REA/RE LIAB	3.300	3.536		1.894
31	RATIO: RE ASST/RE LIAB	2.516	2.495		1.806
32	RATIO: N WRTH/TOT LIAB	1.886	2.004	.935	.855
33	RATIO: CA OP EX/AFSA OF	1.000	.740	• • • • • •	.897
34	R: T FM REC/AV FM CAP WF		.518		.510
34 35	R: T FM REC/AV FM CAP WF		.518		.609
55	K. I FRI KEC/AV FRI CAP US		•074		.009

TABLE 5. OPERATOR'S NET WORTH STATEMENT AND SUPP. FINANCIAL INFO - 1977 (CONT.)

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 169 farms included in the Association averages, TABLE 5 includes data from only those 111 sole proprietorships which had complete net worth data. Net worth data for partnerships were excluded when each partner had a separate analysis.

IT	EMS	Average of 169	Profitable		
$\overline{1}$	SALE OF LIVESTOCK AND LIVESTOCK PRODUCTS	Farms	Farms	Farms	
2	DAIRY COWS	\$ 1,057	\$ 1,087	\$ 217	
3	DAIRY PRODUCTS	7,931	7,793	2,773	
4	OTHER DAIRY CATTLE	1,554		1,010	
5	BEEF BREEDING CATTLE	626		958	
6	BEEF FEEDER CATTLE	45,436			
7	HOGS COMPLETE & MIXED	27,358		28,701	
8	HOGS FINISHING	3,723		4 40	
9	HOGS PRODUCING WEANING PIGS	487		463	
10	SHEEP, GOATS AND WOOL, FARM FLOCK	262	132	234	
11	SHEEP AND WOOL, FEEDER LAMBS	202	1.52	2.54	
12	CHICKENS (INCL. HENS AND BROILERS)	276	131		
13	TURKEYS				
14	EGGS	2,387			
14 15	OTHER PRODUCTIVE LIVESTOCK & PRODUCTS	3,073	3,342		
16	OTHER MISCELLANEOUS LIVESTOCK INCOME	5	1	70	
10	OTHER MISCELEANEOUS LIVESTOCK INCOME	14	1	70	
17	TOTAL SALES OF PRODUCTIVE LIVESTOCK	\$ 94,189	\$133,185	\$104,112	
18	SALE OF CROPS			· · · ·	
19	WHEAT	1,830	2,410	1,715	
20	OTHER SMALL GRAIN	1,141		844	
21	CORN	12,517	14,727	12,857	
22	SOYBEANS	21,809	37,136	16,952	
23	OTHER ROW. CROPS	678	194	197	
24	LEGUMES & OTHER ROUGHAGE	242	434	102	
25	GRASS SEED				
26	FRUITS & NUTS				
27	VEGETABLES, ROADSIDE MAKT. & SPECIALTY				
28	NURSERY, TIMBER & OTHER				
29	SET ASIDE ACRES - GOVERNMENT PAYMENTS				
30	TOTAL SALES FROM CROPS	\$ 38,217	\$ 57,005	\$ 32 ,66 8	
31	CAPITAL ASSETS SOLD	729	445	161	
32	GAS TAX REFUND	243	298	254	
33 34	INCOME FROM WORK OFF THE FARM CUSTOM WORK ENTERPRISE INCOME	1,518	1,378	1,063	
35	PATRONAGE REFUNDS	1 705	2,314	1 71/	
35 36	MISCELLANEOUS FARM INCOME	1,725		1,714	
30 37	TOTAL FARM SALES	1,057	1,459 \$196,085	1,033	
57	IUIAL FANT SALES	\$137,679	\$190,085	\$141,006	
38	INCREASE IN FARM CAPITAL	33,303	66,646	23,482	
39	FAMILY LIVING FROM THE FARM	454	665	379	
40	TOTAL FARM RECEIPTS (37)+(38)+(39)	\$171,436	\$263 , 395	\$164,866	
41	ADJUSTED TOTAL FARM SALES (37)-(31)	136,950	195,639	140,844	
42	TOTAL CASH FARM OPERATING EXPENSE	107,102	148,533	128,959	
43	NET CASH OPERATING INCOME	29,847	47,106	11,886	
т Ј	THE OTHER CERTIFICS TROOTH	29,041	Ψ/,IUU	11,000	

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

SEE PAGE 14 FOR EXPLANATORY NOTE FOR THIS TABLE.

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ITE	MS	Average of 169 Farms	34 Most Profitable Farms	34 Least Profitable Farms	
1	PURCHASE OF LIVESTOCK				
2	DAIRY COWS	\$ 155	\$ 29 ·		
3	OTHER DAIRY CATTLE	553	φ 29	100	
4		217	200	629	
	BEEF BREEDING CATTLE				
5	BEEF FEEDER CATTLE	25,503	•	39,998	
6	HOGS COMPLETE	1,266		824	
7	HOGS FINISHING	1,725		164	
8	HOGS PRODUCING WEANING PIGS	17	47	4	
9	SHEEP, FARM FLOCK	89	7	20	
10	SHEEP, FEEDER LAMBS				
11	CHICKENS	731	340		
12	TURKEYS	438	2,179		
13	OTHER PRODUCTIVE LIVESTOCK	2			
14	MISCELLANEOUS LIVESTOCK EXPENSE	2,516	3,712	2,738	
15	FEED BOUGHT	24,063		29,178	
16	FERTILIZER	6,270		8,091	
17	CHEMICALS	3,598			
	OTHER CROP EXPENSE	5,335	•	4,913	
	IRRIGATION OPERATION COST	• • • •	-,		
	CUSTOM WORK OPERATOR COSTS, INCL. LABOR				
	CUSTOM WORK HIRED	2,666	3,048	2,642	
	REPAIR + UPKEEP OF LIVESTOCK EQUIPMENT	921		841	
	REPAIR + UPKEEP OF FARM REAL ESTATE	1,111			
	GAS, OIL, GREASE BOUGHT (FARM SHARE)	3,360		3,565	
	RPR & OPN MACH, TRAC, TRUCK, AUTO (FS)				
		4,122	5,337	4,394	
	REPAIR & UPKEEP OF IRRIGATION EQUIPMENT				
	REPAIRS, CUSTOM WORK ENTERPRISE	0 176	5 005	· · · · · · · · · · · · · · · · · · ·	
	WAGES OF HIRED LABOR	3,176		3,497	
	PERSONAL PROPERTY + REAL ESTATE TAXES	1,988		2,248	
	CASH RENT	6,895		7,049	
	GENERAL FARM EXPENSES	1,572	2,034	1,707	
	TELEPHONE EXPENSE (FARM SHARE)	219	239	238	
33	ELECTRICITY EXPENSE (FARM SHARE)	872	1,054	820	
34	INTEREST EXPENSE	7,633	9,160	10,049	
35	TOTAL CASH OPERATING EXPENSE	\$107,102	\$148,533	\$128,959	
36	POWER, CROP & GENERAL MACH. BOUGHT (FS)	12,947	18,021	11,669	
	IRRIGATION EQUIPMENT BOUGHT	16	•	· ·	
	CUSTOM WORK ENTERPRISE EQUIPMENT BOUGHT				
	LIVESTOCK EQUIPMENT BOUGHT	1,925	2,793	2,233	
	NEW REAL ESTATE + IMPROVEMENTS	14,056	16,348	17,788	
41	TOTAL FARM PURCHASES (35) THRU (40)	\$136,045	\$185,696	\$160,648	
1.2	DECREASE IN FARM CAPITAL			3,088	
		2,132	11 600		
	INTEREST ON FARM CAPITAL (EQUITY)	7,396			
44	UNPAID FAMILY LABOR	470	555	319	
	BOARD FURNISHED HIRED LABOR	196		228	
46	TOTAL FARM EXPENSE (41) THRU (45)	\$146,239	\$198,009	\$170,332	
47	RETURN TO OPERATOR LABOR & MANAGEMENT (OPERATORS SHARE) (6A/40)-(46)	\$ 25,19 7	\$ 65,387	\$(- 5466)	
48	RETURN TO CAPITAL AND FAMILY LABOR $(47)+(44)+(43)$	\$ 33,063	\$ 77,551	ş 902	

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.

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SUPPLEMENTARY INFORMATION USED IN ENTERPRISE ANALYSIS

Number of Work Units for	Crop and Livest	ock Enterprises	
Livestock Enterprise	Work Units	Crop Enterprise	Work Units Per Acre
Complete Hog Enterprise Hog Finishing Dairy Cows Other Dairy Cattle Beef Breeding Cows Beef Feeder Cattle Sheep, Farm Flock	.12/cwt .06/cwt 7.00/cow 1.20/head 1.50/head .12/cwt .60/head	Oats, wheat Corn for grain Grain Sorghum Soybeans Canning Peas Alfalfa Hay, Corn Silage Non-tillable Hay Silage: Oats, Legume or Grass Legume Pasture Non-tillable Prairie Pasture	.30 .55 .50 .45 .40 .60 .20 .40 .05 .01

Average Prices Used in Analysis

Product	Feed	Harvest <u>a</u> /	Beginning Inventory	Ending Inventory	Pasture per head per mo.
Oats/bu Wheat/bu Corn for Grain/bu Soybeans/bu Alfalfa Hay/ton	\$ 1.20 2.50 2.00 55.00	\$ 1.00 2.20 1.60 5.00 45.00	\$ 1.50 2.60 2.25 6.50 70.00	\$ 1.15 2.50 1.85 5.50 50.00	Cows \$6.00 Calves 3.00 Hogs 0.40 Sheep 1.00 Lambs 0.50
All other Hay/ton Silage/ton (corn, oat, grass)	55.00 16.00	40.00 14.00	22.00	40.00 15.00	Products Used at Home Straw \$0.50/bale Milk \$1.00/gal.

Unpaid family labor \$500/mo. or \$2.50/hr. Board for hired labor \$4/day or \$1/meal. Second Operator's labor \$10,000/yr.

Land Cost: suggested rental values/acre: Faribault Co. \$95, Nobles \$65, Redwood \$60, Martin & Watonwan \$80, Cottonwood & Jackson \$75, Murry \$50, and Pipestone Co. \$40.

Animal or Livestock Units Used in Analysis

Enterprise	Per Adult	Per Other
Complete Hogs	.40	.20
Hog Finishing	.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
Sheep, Farm Flock	.143	.071

<u>a</u>/ For Crop Enterprise Analysis (TABLE 10's) a constant harvest price was used in some counties and not in others. 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. <u>Farm Capital Investment Per Worker</u> 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

		Average	34 Most	34 Least
TUDD		of 169		Profitable
ITE	CIA CONTRACTOR CO	Farms	Farms	
1	RETURN TO OPERATORS LABOR & MANAGEMENT	\$ 29,307	\$ 68,987	الشافانية ساعدان مستخد سترعدي بمستحد والمترج والمراجع
2		\$ 29,307 100.9	\$ 00,907 108.5	ş (<u>-21</u> 7) 104.6
2	CROP YIELD INDEX PERCENT TILLABLE LAND IN HIGH RETURN CROP	83.5	85.8	
	GROSS RETURN PER TILL ACRE (EXCL PASTURE)	\$ 178.97	\$ 193. 29	
4 5	•	100.0		\$ 96.8
	RET PER \$100 FEED FED PROD LVSTOCK INDEX	34.94	35.05	37.47
	LIVESTOCK UNITS PER 100 ACRES	515 . 17	751.26	423.96
7	SIZE OF BUSINESS-WORK UNITS	291.06	370.08	
8	WORK UNITS PER WORKER	\$ 52.17	\$ 46.24	
9	PWR MACH EQUIP BLDG EXPENSE/WORK UNIT			
10	FARM CAPITAL INVESTMENT PER WORKER	\$198,018	\$253,650	\$18 1, 355
- 1				
11	INDEX OF RETURN PER \$100 FEED FED	. 100	111 /	00 1
12	6100 BEEF BREEDING, FARM, WHOLE HERD	100	111.4	98.1
13	6140 BEEF FEEDERS, FEEDLOT	100	104.3	96.6
14	6290 DAIRY COWS, COMMERCIAL, COMPLETE	100	131.6	91.0
15	6310 OTHER DAIRY, COMM. REPLACEMENTS	100	117.0	
16	6470 HOGS, FARROW TO FINISH, COMPLETE	100	100.7	97.7
17	6490 HOGS, FINISHING	100	105.1	
18	6670 SHEEP, FARM FLOCK	100	58.0	87.2
19	NUMBER OF ANIMAL UNITS	160.06	240.97	157.00
-				
20	WORK UNITS			
21	CROPS	219.41		
22	PRODUCTIVE LIVESTOCK	257.20		
23	OTHER PRODUCTIVE WORK UNITS	38.56	30.16	16.33
	EXPENSES PER WORK UNIT:			
25	TRACTOR & CROP MACHINERY EXPENSE	\$ 28.17	\$ 25.39	
26	FARM SHARE OF AUTO & TRUCK EXPENSE	6.98	5.82	8.31
27	FARM SHARE OF ELECTRIC EXPENSE	1.71	1.50	1.88
28	LIVESTOCK EQUIPMENT EXPENSE	5.07	4.50	5.03
29	BUILDING, FENCE & TILING EXPENSE	10.24	9.03	13.59
30*	*TRACTOR & CROP MACH EXPENSE/CROP ACRE	32.38	28,58	35.30
31	FARM PWR & MACH COST ALLOCATED TO LVSTK	1708.93	2276.32	1528.53
32	BUILDING, FENCE TILE COST ALLOC TO CROPS BCAF	1708.93 2472.41	2276.32 3053.21	3133.20

* 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 SUPPL	EMENTARY M	ANAGEMENT IN	FORMATION	
	Average	34 Most	34 Least	
CROP	of 169	Profitable	Profitable	
	Farms	Farms	Farms	
	acres			
SMALL GRAIN & CANNING PEAS		60.2		
ROW CROPS		516.9		
LEGUMES, INCLUDING SEED	22.0			
SILAGE & FODDER		47.9		
TILLABLE PASTURE	4.4	, 3.0	10.7	
FALLOW & IDLE LAND	-0.8 <u>-</u> /			
TILLABLE LAND	446.9			
NON TILLABLE HAY/PASTURE	11.2			
WILD HAY NOT HARVESTED (NON TILLABLE)	2.8		10.1	
PASTURE NOT HARVESTED	9.1		7.5	
TIMBER NOT HARVESTED	1.1		0.1	
ROADS & WASTE	16.9		14.4	
FARMSTEAD	13.2	19.0	11.8	
LAND NOT HARVESTED	43.1	57.8	43.9	
NON TILLABLE LAND		78.9		
LAND IN FARM OR RANCH	501.2	745.3	462.9	
SUPPLEMENTARY MANAGEMENT INFORMATION				
PERCENT LAND TILLABLE	89.2	89.4	86.0	
PERCENT LAND IN HIGH RETURN CROPS	83.5	85.8	79.2	
FERTILIZER COST PER ACRE	\$14.57	\$ 14.2 4	\$15.45	
CROP CHEMICALS PER ACRE	\$ 8.93	\$ 9.3 4	\$ 8 .97	
SEED & OTHER COSTS PER ACRE	\$12.64		\$12.97	
GAS, OIL & GREASE BOUGHT PER ACRE	\$ 5.30	\$ 5 .1 4	\$ 5.21	_

TABLE 9.	CROP	ACRES	VIELDS	RETURNS	A ND	SUPPLEMENTARY	MANAGEMENT	TNFORMATION
1/10/10/2020	GINUE	AUNDA.	1 1 1 1 1 1 1 1 1 1	TELOND 1				THT OTTTTT TON

Crop	Crop Rank	No. Farms Growing	Acres Per Farm	Total Acres	Ave. Yield PerAcre	Return Over Direct Costs Per Acre
Oats	D	112	42.2	4,727	82.6 bu.	\$ 66 . 91
Spring Wheat	С	54	44.9	2,425	54.3 bu.	
Canning Peas	В	6	25.8	155	\$126.51	121.70
Corn Grain	A	172	184.4	31,717	105.5 bu.	124.88
Grain Sorghum	C	7	20.0	140	71.4 cwt	118.20
Soybeans	A	165	157.4	25,971	39.1 bu.	174.20
Alfalfa Hay	B	108	35.8	3,974	3.4 t	132.15
Corn Silage	Ā	102	44.1	4,498	14.4 t	162.55
Oats Silage	C	51	23.3	1,188	5.9 t	73.56
Legume Silage	В	14	46.0	644	5.5 t	131.31

<u>a</u>/ Negative sign means that area double cropped exceeded area not cropped by the amount shown.

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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 In contrast, the operation cost of farm power and machinery, which, in-10%. cludes 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).

ፐጥነ	EMS	Ave	rage of		Farms ghest		o Farms Lowest
тт,	5115		Farms		Yield		N Yield
1	ACRES		42.2	<u></u>	40.9		43.6
2	YIELD PER ACRE, BUSHELS		82.6		95.4		70.5
3	VALUE PER BUSHEL	\$	1.04	\$	1.04	\$	
4	CROP PRODUCT RETURN		85.90		99.17		73.30
5	OTHER CROP INCOME		3.18		3.47		2.87
6	TOTAL CROP RETURN PER ACRE		89.08		102.64		76.17
7	DIRECT COSTS PER ACRE		· .				
8	FERTILIZER		6.80		7.73		5.94
9	CHEMICALS		.64		.46		.78
0	SEED & OTHER		8.74		9.07		8.42
1	SPECIAL HIRED LABOR		.33		.05		.60
2	CUSTOM WORK HIRED		5.66		4.65		6.58
3	IRRIGATION OPERATION						
4	TOTAL DIRECT COSTS PER ACRE		22.17		21.96		22.32
5	RETURN OVER DIRECT COSTS PER ACRE		66.91		80.68		53.85
.6	ALLOCATED COSTS PER ACRE						
.7	FARM POWER & MACHINERY - OWNERSHIP	\$	10.48			Ş	
.8 .9	FARM POWER & MACHINERY - OPERATION IRRIGATION EQUIPMENT - OWNERSHIP		8.68		8.24		9.07
0	LAND COSTS		63.88		63.04		64.73
1	MISCELLANEOUS COSTS		05.00				
2	INTEREST ON MACH. & EQUIP. INVESTMENT		2.46		2.62		2.30
3	TOTAL ALLOCATED COSTS PER ACRE		85.50		84.16		86.76
24	RETURN OVER ALL LISTED COSTS PER ACRE		(-18.59)		(-3.48)		(-32.91)
25	SUPPLEMENTARY MANAGEMENT INFORMATION						
26	WORK UNITS ASSIGNED PER ACRE	\$.30	\$.30	\$.30
27	POWER COSTS ALLOCATION FACTOR		1.82		1.76		1.89
.8	TOTAL LISTED COST PER BUSHEL		1.30		1.11		1.55
.9	RETURN OVER LISTED COSTS PER BUSHEL		(23)		(04)		(47)
30			103.53b		102.04b		104.88b
31	TOTAL LISTED COSTS PER ACRE	\$	107.67	\$	106.12	\$	109.08

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

IT	ITEMS		rage of Farms	27 Farms Highest in Yield			27 Farms Lowest in Yield		
1	ACRES		44.9		42.3		47.4		
2	YIELD PER ACRE, BUSHELS		54.3		65.2		44.7		
3	VALUE PER BUSHEL	\$	2.28		2.28	\$	2.28		
4	CROP PRODUCT RETURN		123.85		148.61		102.03		
5	OTHER CROP INCOME		4.14		3.71		4.54		
6	TOTAL CROP RETURN PER ACRE		127.99		152.32		106.57		
7	DIRECT COSTS PER ACRE								
8	FERTILIZER	\$	9.67	Ş	10.95	\$	8.54		
9	CHEMICALS		1.05		1.35		.78		
.0	SEED & OTHER		10.16		12.65		7.95		
.1	SPECIAL HIRED LABOR		.04				.06		
.2	CUSTOM WORK HIRED		2.47		1.96		2.91		
.3	IRRIGATION OPERATION								
.4	TOTAL DIRECT COSTS PER ACRE		23.39		26.91		20.24		
.5	RETURN OVER DIRECT COSTS PER ACRE		104.60		125.41		86.33		
L6	ALLOCATED COSTS PER ACRE					Å	10 07		
.7	FARM POWER & MACHINERY - OWNERSHIP	\$	12.28	Ş	11.65	Ş	12.87		
.8 .9	FARM POWER & MACHINERY - OPERATION IRRIGATION EQUIPMENT - OWNERSHIP		7.73		8.14		7.39		
20	LAND COSTS		65.19		65.19		65.19		
21	MISCELLANEOUS COSTS		.04				.08		
22	INTEREST ON MACH. & EQUIP. INVESTMENT		2.53		2.46		2.59		
23	TOTAL ALLOCATED COSTS PER ACRE		87.77		87.44		88.12		
24	RETURN OVER ALL LISTED COSTS PER ACRE	\$	16.8 3	Ş	37.97	\$	(-1.79)		
25	SUPPLEMENTARY MANAGEMENT INFORMATION		- -				 		
26	WORK UNITS ASSIGNED PER ACRE	ç	.30		.30		.30		
27	POWER COSTS ALLOCATION FACTOR		1.79		1.74		1.83		
28	TOTAL LISTED COST PER BUSHEL	\$	2,05	\$	1.75	\$	2.42		
29	RETURN OVER LISTED COSTS PER BUSHEL	s S	.31	\$ Ş	.58	\$	(04)		
30			48.75bu		50.15bu		47.53b		
31	TOTAL LISTED COSTS PER ACRE	\$	111.16	\$	114.35	\$	108.36		

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

TA	BLE 10-0275 - CROP DATA FOR CORN FOR GRAIN	- 19/	/	86 Farms			86 Farms		
IT	EMS		rage of	Highest			owest		
		172	Farms	i	n Yield		n Yield		
1	ACRES		184.4		198.3		170.5		
2	YIELD PER ACRE, BUSHELS		105.5		118.1		90.9		
3	VALUE PER BUSHEL	\$	1.69	\$	1.71	\$	1.66		
4	CROP PRODUCT RETURN PER ACRE		178.37		201.98		150.95		
5	OTHER CROP INCOME PER ACRE		4.57		5.52		3.46		
6	TOTAL CROP RETURN PER ACRE		182.94		207.50		154.41~		
7	DIRECT COSTS PER ACRE								
8	FERTILIZER	\$	27.18	\$	32.00	\$	21.57		
9	CHEMICALS		11.63		12.07		11.11		
10	SEED & OTHER		16.13		16.95		15.17		
11	SPECIAL HIRED LABOR		.12		.18		.05		
12	CUSTOM WORK HIRED		3.00		2.79		3.23		
13	IRRIGATION OPERATION								
14	TOTAL DIRECT COSTS PER ACRE		58.06		63.99		51.13		
15	RETURN OVER DIRECT COSTS PER ACRE		124.88		143.51		103.28		
16	ALLOCATED COSTS PER ACRE								
17	FARM POWER & MACHINERY - OWNERSHIP	\$	21.66	\$	22.33	\$	20.87		
18	FARM POWER & MACHINERY - OPERATION		15.68		15.70		15.65		
19	IRRIGATION EQUIPMENT - OWNERSHIP								
20	LAND COSTS		66.89		70.12		63.66		
21	MISCELLANEOUS COSTS		.24		.45		.01		
22	INTEREST ON MACH. & EQUIP. INVESTMENT		4.74		4.67		4.81		
23	TOTAL ALLOCATED COSTS PER ACRE		109.21		113.27		105.00		
24	RETURN OVER ALL LISTED COSTS PER ACRE	Ş	15.67	\$	30.24	Ş	(-1.72)		
25	SUPPLEMENTARY MANAGEMENT INFORMATION	<u> </u>	· · · · · · · · · · · · · · · · · · ·						
0.0			.55		.55		.55		
26	WORK UNITS ASSIGNED PER ACRE				1.86				
27		ċ	1.80	ć	1.50		1.72		
28	TOTAL LISTED COST PER BUSHEL	\$ \$	1.58 .15	\$ \$.26		(02)		
29	RETURN OVER LISTED COSTS PER BUSHEL	Ŷ		ų	.20 103.66bu		(02) 94.05bu		
30	* BREAKEVEN YIELD, BUSHELS		98.98bu		TO2*00DA		74•UJDU		
31	TOTAL LISTED COSTS PER ACRE	\$	167.27*	\$	177.26*	\$	156.13*		

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

ITE	MS	Av 7	Average of 7 Farms		8 Farms lighest in Yield			
1 2	ACRES YIELD PER ACRE, BUSHELS		20.0 71.4		24.3 89.2		18.3 48.4	
Ζ.	TIELD PER ACRE, DUSINELD		/1.4		09.2		40.4	
3	VALUE PER BUSHEL	\$	1.89		1.49		2.46	
4	CROP PRODUCT RETURN PER ACRE		134.95		132.88		118.96	
5 6	OTHER CROP INCOME PER ACRE TOTAL CROP RETURN PER ACRE		134.95		132.88		118.96	
7	DIRECT COSTS PER ACRE							
8	FERTILIZER	\$	5.45		7.49			
9	CHEMICALS				2.26		5.25	
10	SEED & OTHER		7.00		6.30		9.45	
11	SPECIAL HIRED LABOR							
12	CUSTOM WORK HIRED		1.05		2.06			
13	IRRIGATION OPERATION		16 75		10 11		10 ()	
14	TOTAL DIRECT COSTS PER ACRE		16.75		18.11		18.63	
15	RETURN OVER DIRECT COSTS PER ACRE	\$	118.20	Ş	114.77	\$	100.33	
16	ALLOCATED COSTS PER ACRE							
17	FARM POWER & MACHINERY - OWNERSHIP	Ş	21.88	\$	18.54		24.32	
18	FARM POWER & MACHINERY - OPERATION		15.14		13.84		17.72	
19	IRRIGATION EQUIPMENT - OWNERSHIP		· · · · · · ·					
20	LAND COSTS		64.29		68.33		60.00	
21	MISCELLANEOUS COSTS		0 70		0.00		2 00	
22	INTEREST ON MACH. & EQUIP. INVESTMENT		3.70		2.90		3.98	
23	TOTAL ALLOCATED COSTS PER ACRE		105.01		103.61		106.02	
24	RETURN OVER ALL LISTED COSTS PER ACRE	\$	13.19	\$	11.16	\$	(-5.69)	
25	SUPPLEMENTARY MANAGEMENT INFORMATION							
26	WORK UNITS ASSIGNED PER ACRE		.50		.50		.50	
27	POWER COSTS ALLOCATION FACTOR		.99		.95		1.03	
28	TOTAL LISTED COST PER BUSHEL	\$	1.71	Ş	1.36	\$	2.58	
29	RETURN OVER LISTED COSTS PER BUSHEL	Ş	.18	ş	.13	ş	(12)	
30*		• •	64.42	•	81.69		50.67	
31	TOTAL LISTED COSTS PER ACRE	Ş	121.76	\$	121.72	\$ I	L24.65	

TABLE 10-0325 - CROP DATA FOR GRAIN SORGHUM - 1977

	TEMS		verage c 55 Farms	of H	32 Farms Highest In Yield		Lo	Farms west Yield	
1 2	ACRES YIELD PER ACRE - BUSHELS		157.4 39.1		167.3 44.3			147.6 33.2	
3 4 5 6	VALUE PER BUSHEL CROP PRODUCT RETURN PER ACRE OTHER CROP INCOME PER ACRE TOTAL CROP RETURN PER ACRE	\$	5.09 198.88 .83 199.71	·	5.11 226.18 .78 226.96				
7 8 9 10 11 12 13 14	DIRECT COSTS PER ACRE FERTILIZER CHEMICALS SEED & OTHER SPECIAL HIRED LABOR CUSTOM WORK HIRED IRRIGATION OPERATION TOTAL DIRECT COSTS PER ACRE	Ş	1.42 9.66 10.99 1.25 2.14 .05 25.51		1.85 9.56 11.77 1.46 1.32 .10 26.06			.95 9.71 10.08 .94 3.10 24.78	
15	RETURN OVER DIRECT COSTS PER ACRE	\$	174.20	\$	200.90	•	\$	144.06	
16 17 18 19 20 21 22 23	ALLOCATED COSTS PER ACRE FARM POWER & MACHINERY - OWNERSHIP FARM POWER & MACHINERY - OPERATION IRRIGATION EQUIPMENT - OWNERSHIP LAND COSTS MISCELLANEOUS COSTS INTEREST ON MACH. & EQUIP. INVESTMENT TOTAL ALLOCATED COSTS PER ACRE		12.71 68.33 .06					16.06 11.72 64.82 3.45 96.05	
24	RETURN OVER ALL LISTED COSTS PER ACRE	\$	71.68		92.07			48.01	
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		.45 1.87 3.28 1.83 25.15 128.03	\$ \$ bu.	.45 1.74 3.05 2.08 26.40 134.89	bu .	•	1.45	bu .

TABLE 10-0335 - CROP DATA FOR SOYBEANS - 1977

ITE	MS	Average of 6 Farms	3 Farms Highest in Yield			
1	ACRES	25.8	32.3	19.3		
2 3	YIELD PER ACRE, DOLLARS VALUE PER PRODUCTION UNIT	\$ 126.51 1.00	\$ 139.1 0 1.00	\$ 105.44 1.00		
4 5	CROP PRODUCT RETURN OTHER CROP INCOME	126.51 11.63	139.10 18.58	105.44		
6	TOTAL CROP RETURN PER ACRE	138.14	157.68	105.44		
7 8 9 10 11 12	DIRECT COSTS PER ACRE FERTILIZER CHEMICALS SEED & OTHER SPECIAL HIRED LABOR CUSTOM WORK HIRED	\$ 7.56 2.60 6.28	\$ 12.07 1.21 2.29	\$ 4.92 12.95		
13 14	IRRIGATION OPERATION TOTAL DIRECT COSTS	16.44	15.57	17.87		
15	RETURN OVER DIRECT COSTS	\$ 121.70	\$ 142 . 11	\$ 87 . 57		
16 17 18 19 20 21	ALLOCATED COSTS PER ACRE FARM POWER & MACHINERY - OWNERSHIP FARM POWER & MACHINERY - OPERATION IRRIGATION EQUIPMENT - OWNERSHIP LAND COSTS MISCELLANEOUS COSTS	\$ 9.32 7.04 73.33	\$ 11.31 5.79 73.33	\$ 6.00 9.12 73.33		
21 22 23	INTEREST ON MACH. & EQUIP. INVESTMENT TOTAL ALLOCATED COSTS	2.46 92.15	2.39 92.82	2.58 91.03		
24	RETURN OVER ALL LISTED COSTS	\$ 29.5 5 [°]	\$ 49.29	\$ (-3.46)		
25 26 27 28 29 30	SUPPLEMENTARY MANAGEMENT INFORMATION WORK UNITS ASSIGNED PER ACRE POWER COSTS ALLOCATION FACTOR TOTAL LISTED COST PER UNIT OF PRODUCTION RETURN OVER LISTED COSTS PER UNIT * BREAKEVEN YIELD, DOLLARS	.40 1.52 \$.86 \$.23 \$108.59	.40 .70 \$.78 \$.35 \$108.39	.40 2.33 \$ 1.03 \$ (03) \$108.90		
31	TOTAL LISTED COSTS PER ACRE	\$108.59	\$108.39	\$108.90		

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

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

	LE 10-0400 - CROF DATA FOR ALFALITA IMI		54 Farms	54 Farms
ITE	MS	Average of	Highest	Lowest
		104 Farms	in Yield	in Yield
1	ACRES	35.8	34.2	37.4
2	YIELD PER ACRE, TONS	3.4	4.5	2.3
2	VALUE PER TON	\$ 46.44	\$ 46.11	\$ 46.76
4	CROP PRODUCT RETURN PER ACRE	\$155.67	\$206.29	
5	OTHER CROP INCOME PER ACRE	1200007	1200025	1 • • - •
6	TOTAL CROP RETURN PER ACRE	\$155.67	\$206.29	\$107.51
7	DIRECT COSTS PER ACRE	è a 20	6 10 0L	\$ 6. 20
8	FERTILIZER	\$ 9.39	\$ 12.84	•
9	CHEMICALS	.22	.44	.03
10	SEED & OTHER	8.07	8.22	7.97
11	SPECIAL HIRED LABOR	.45	.70	.21
12	CUSTOM WORK HIRED	5.39	6.32	4.52
13	IRRIGATION OPERATION		00 50	10.00
14	TOTAL DIRECT COSTS PER ACRE	23.52	28.52	18.93
15	RETURN OVER DIRECT COSTS PER ACRE	\$132.15	\$177.77	\$ 88.58
16	ALLOCATED COSTS PER ACRE			
17	FARM POWER & MACHINERY - OWNERSHIP	\$ 23.12	\$ 25.11	•
18	FARM POWER & MACHINERY - OPERATION	18.47	18.28	18.64
19	IRRIGATION EQUIPMENT - OWNERSHIP	,		
20	LAND COSTS	66.06	71.02	61.11
21	MISCELLANEOUS COSTS	.06		.08
22	INTEREST ON MACH. & EQUIP. INVESTMENT	5.02	5.57	4.52
23	TOTAL ALLOCATED COSTS PER ACRE	112.73	119.98	105.66
24	RETURN OVER ALL LISTED COSTS PER ACRE	\$ 19.42	\$ 57.79	\$ 17. 08
25	SUPPLEMENTARY MANAGEMENT INFORMATION			
26	WORK UNITS ASSIGNED PER ACRE	.60	.60	.60
20	POWER COSTS ALLOCATION FACTOR	1.86	1.95	1.76
27	TOTAL LISTED COST PER TON	\$ 40.65	\$ 33.20	
20 29		\$ 5.79	\$ 12.92	\$ (-7.43)
29 30		2.93	3.22	2.66
31	TOTAL LISTED COSTS PER ACRE	\$136.25	\$148.50	\$124 . 59

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

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ITEM	[S		rage of	Hi	Farms ghest	Lo	Farms west
		18	Farms	in	Yield	in	Yield
	ACRES		8.9		8.4		9.3
2	YIELD PER ACRE, TONS		1.2		1.8		.8
	VALUE PER TON	Ş	39.44	\$	41.67	\$	
	CROP PRODUCT RETURN PER ACRE OTHER CROP INCOME PER ACRE		48.76		74.40		28.06
6	TOTAL CROP RETURN PER ACRE		48.76	÷.	74.40		28.06
7	DIRECT COSTS PER ACRE						
	FERTILIZER CHEMICALS						
10	SEED & OTHER	\$	1.19	\$	2.26		
11	SPECIAL HIRED LABOR		.12		.36		
	CUSTOM WORK HIRED		2.86		2.26		3.45
13	IRRIGATION OPERATION						
14	TOTAL DIRECT COSTS PER ACRE		4.17		4.88		3.45
L5	RETURN OVER DIRECT COSTS PER ACRE	\$	44.59	\$	69.52	\$	24.61
	ALLOCATED COSTS PER ACRE						
17	FARM POWER & MACHINERY - OWNERSHIP	\$	5.71	\$	4.25	\$	7.16
18	FARM POWER & MACHINERY - OPERATION		4.50		3.69		5.30
19	IRRIGATION EQUIPMENT - OWNERSHIP						
20	LAND COSTS		41.67		52.78		30.56
21	MISCELLANEOUS COSTS						
22	INTEREST ON MACH. & EQUIP. INVESTMENT		1.01		.90		1.11
23	TOTAL ALLOCATED COSTS PER ACRE		52.89		61.62		44.13
24	RETURN OVER ALL LISTED COSTS PER ACRE	\$	(-8.30)	Ş	7.90	\$(-19.52
25	SUPPLEMENTARY MANAGEMENT INFORMATION						
26	WORK UNITS ASSIGNED PER ACRE		.18		.20		.16
27	POWER COSTS ALLOCATION FACTOR		.97		.47		1.48
28	TOTAL LISTED COST PER TON	\$	43.55	\$	37.27		66.64
29	RETURN OVER LISTED COSTS PER TON	\$	(-4.09)	Ş	4.40	Ş (-23.14
30 *	BREAKEVEN YIELD, TONS		1.57		1.60		1.53
31	TOTAL LISTED COSTS PER ACRE	\$	57.06	\$	66.50	\$	47.58

TABLE 10-0530 - CROP DATA FOR NON-TILLABLE HAY - 1977

	ACRES		erage of		7 Farms Lowest
1	ACRES				Lowest
		14			
			Farms		
			46.0	36.9	55.1
2	YIELD PER ACRE, TONS		5.5	8.2	3.7
-			~~ ~~	+ • • • •	· · · · · · ·
	VALUE PER TON	\$	27.57		
	CROP PRODUCT RETURN PER ACRE		151.63	217.02	106.30
	OTHER CROP INCOME PER ACRE				
6	TOTAL CROP RETURN PER ACRE		151.63	217.02	106.30
7	DIRECT COSTS PER ACRE				
8	FERTILIZER	\$	11.28	\$ 6.69	14.36
9	CHEMICALS	Ŷ	.15	Ŷ 0.05	.24
10	SEED & OTHER		4.65	4.50	4.75
11	SPECIAL HIRED LABOR		4.05	4.50	4.75
12	CUSTOM WORK HIRED		4.24	6.29	2.87
13	IRRIGATION OPERATION		4.24	0.29	2.07
			20.32	17.48	22.22
14	TOTAL DIRECT COSTS PER ACRE		20.52	17.40	22.22
15	RETURN OVER DIRECT COSTS PER ACRE	\$	131.31	\$ 199.54	\$ 84.08
	ALLOCATED COSTS PER ACRE				
17	FARM POWER & MACHINERY - OWNERSHIP	\$	18.58	\$ 17.94	
18	FARM POWER & MACHINERY - OPERATION		13.55	14.03	13.23
19	IRRIGATION EQUIPMENT - OWNERSHIP				
20	LAND COSTS		67.50	67.86	67.14
21	MISCELLANEOUS COSTS				
22	INTEREST ON MACH. & EQUIP. INVESTMENT		4.24	4.36	4.16
23	TOTAL ALLOCATED COSTS PER ACRE	· •	103.87	104.19	103.54
24	RETURN OVER ALL LISTED COSTS PER ACRE	\$	27.44	\$ 95.35	\$(-19.46)
<u> </u>	REIURN OVER ALL LISIED COSIS FER ACRE	ې 	27.44	رو. وو ې	Ŷ(=1),40)
25	SUPPLEMENTARY MANAGEMENT INFORMATION				
26	WORK UNITS ASSIGNED PER ACRE		.40	.40	.40
27	POWER COSTS ALLOCATION FACTOR		1.27	1.56	.98
28	TOTAL LISTED COST PER TON	\$	22.58	\$ 14.82	s 33.97
29	RETURN OVER LISTED COSTS PER TON	\$	4.99	\$ 11.61	\$ 33.97 \$ (-5.25)
	BREAKEVEN YIELD, TONS		4.50	4.60	4.38
			10/ 10	6 101 /7	à 105 74
31	TOTAL LISTED COSTS PER ACRE	\$	124.19	\$ 121.67	\$ 125.76

TABLE 10-0535 - CROP DATA FOR LEGUME, LEGUME-GRASS SILAGE - 1977

25 Farms Lowest in Yield 23.8 3.9 \$ 15.00 58.61 58.61 \$ 2.82 .63 7.06 4.29
in Yield 23.8 3.9 \$ 15.00 58.61 58.61 \$ 2.82 .63 7.06
23.8 3.9 \$ 15.00 58.61 58.61 \$ 2.82 .63 7.06
3.9 \$ 15.00 58.61 58.61 \$ 2.82 .63 7.06
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\$ 43.81
\$ 17.03
3 11.48
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3.60
98.51
J0.J1
\$ (- 54.70)
.40
1.58
\$ 28.99
5 \$(- 13.99)
7 7.55
9 \$ 113.31

TABLE 10-0545 - CROP DATA FOR GRAIN (OATS) SILAGE - 1977

ITE	MS	Av	erage of	Higl	arms nest	\mathbf{Lc}	Farms
		10	2 Farms		lield	in	Yield
1 2	ACRES		44.7		35.1		53.0
Z	YIELD PER ACRE, TONS		14.4	F	.8.3		11.8
3	VALUE PER TON	\$	14.67	Š 1	4.94	Ś	14.39
4	CROP PRODUCT RETURN PER ACRE	'	211.22		4.10		169.70
5	OTHER CROP INCOME PER ACRE						20000
6	TOTAL CROP RETURN PER ACRE		211.22	27	4.10		169.70
7	DIRECT COSTS PER ACRE						
8	FERTILIZER	\$	21.93	\$ 2	23.50	Ş	20.94
9	CHEMICALS		10.32		.0.57		
10	SEED & OTHER		12.36		.3.65		11.51
11	SPECIAL HIRED LABOR		.16		.06		.21
12	CUSTOM WORK HIRED		3.90		4.39		3.58
13	IRRIGATION OPERATION						0.00
14	TOTAL DIRECT COSTS PER ACRE		48.67	5	52.17		46.41
15	RETURN OVER DIRECT COSTS PER ACRE	\$	162.55	\$ 22	21.93	\$	123.29
16	ALLOCATED COSTS PER ACRE						
17	FARM POWER & MACHINERY - OWNERSHIP	\$	21.57	\$ 2	21.51	Ś	21.65
18	FARM POWER & MACHINERY - OPERATION	•	18.77		.8.94		18.70
19	IRRIGATION EQUIPMENT - OWNERSHIP						
20			63.97	6	7.35		60.59
21	MISCELLANEOUS COSTS		.25				.43
22	INTEREST ON MACH. & EQUIP. INVESTMENT		4.86		4.48		5.11
23	TOTAL ALLOCATED COSTS PER ACRE		109.42	11	2.28		106.48
24	RETURN OVER ALL LISTED COSTS PER ACRE	\$	53.13	\$ 10	9.65	\$	16.81
25	SUPPLEMENTARY MANAGEMENT INFORMATION		,	· .	:		
26	WORK UNITS ASSIGNED PER ACRE		.60		.60		.60
27	POWER COSTS ALLOCATION FACTOR		1.64		1.59		1.70
28	TOTAL LISTED COST PER TON	\$	10.98		8.96	\$	12.96
29	RETURN OVER LISTED COSTS PER TON	\$	3.69		5.98		1.43
30		•	10.78		1.01	1	10.62
31	TOTAL LISTED COSTS PER ACRE	\$	158.09	\$ 16	4.45	\$	152.89

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

ITE	MS	Average of 15 Farms		7 Farms Highest in Yield				
1	ACRES		23.5		11.9			
2	YIELD PER ACRE		28.77		53.70		20.58	
3	VALUE PER PRODUCTION UNIT	\$	1.15	Ş	.69	\$	1.63	
4	CROP PRODUCT RETURN		33.06		37.06		33.54	
5	OTHER CROP INCOME							
6	TOTAL CROP RETURN		33.06		37.06		33.54	
7	DIRECT COSTS PER ACRE							
8	FERTILIZER	\$ ⁻	2.41			\$	3.98	
9	CHEMICALS							
10	SEED & OTHER		4.90		10.84		1.24	
11	SPECIAL HIRED LABOR							
12	CUSTOM WORK HIRED		1.31		3.45			
13	IRRIGATION OPERATION							
14	TOTAL DIRECT COSTS		8.62		14.29		5.22	
15	RETURN OVER DIRECT COSTS PER ACRE	\$	24.44	\$	22.77	\$	28.32	
16	ALLOCATED COSTS PER ACRE							
17	FARM POWER & MACHINERY - OWNERSHIP	\$.84	\$.78	\$.90	
18	FARM POWER & MACHINERY - OPERATION	· ·	.86		.88		.86	
19	IRRIGATION EQUIPMENT - OWNERSHIP							
20	LAND COSTS		59.33		60.00		60.00	
21	MISCELLANEOUS COSTS							
22	INTEREST ON MACH. & EQUIP. INVESTMENT		.17		.20		.16	
23	TOTAL ALLOCATED COSTS		61.20		61.86		61.92	
24	RETURN OVER ALL LISTED COSTS PER ACRE	\$	(-36.76)	\$	(-39.09)	\$	(-33.60)	
25	SUPPLEMENTARY MANAGEMENT INFORMATION							
26	WORK UNITS ASSIGNED PER ACRE		.05		.05		.04	
27	POWER COSTS ALLOCATION FACTOR		.65		1.12		.23	
28	TOTAL LISTED COST PER UNIT OF PRODUCTION		\$ 1.79	\$	1.42	\$	2.31	
29	RETURN OVER LISTED COSTS PER UNIT		\$ (42)	\$	(73)	\$		
30*	* BREAKEVEN YIELD/UNITS OF PRODUCTION		64.65		110.36		45.06	
31	TOTAL LISTED COSTS PER ACRE		\$ 69.82	\$	76.15	\$	67.14	

TABLE 10-0570 - CROP DATA FOR LEGUME PASTURES* - 1977

*INCLUDES PASTURE CODES 0810, 0811, 0820, 0821.

	<u>LE 10-0860 - CROP DATA FOR NON-TILLABLE PRAI</u>			- 1977				
			·	12	Farms	12	? Farms	
ITEM	1S	A٦	verage of	Hi	ghest	Lowest		
		_24	Farms	ir	Yield	ir	Yield	
1	ACRES		72.4		79.5		65.3	
2	YIELD PER ACRE		8.51		7.43		9.83	
3	VALUE PER PRODUCTION UNIT	\$	1.91	Ş	2.65	\$	1.17	
4	CROP PRODUCT RETURN		16.26		19.70		11.50	
5	OTHER CROP INCOME		.32				.72	
6	TOTAL CROP RETURN PER ACRE		16.58		19.70		12.22	
7	DIRECT COSTS PER ACRE							
8	FERTILIZER	\$.39	\$.42	\$.34	
9	CHEMICALS		.64		.90		.29	
10	SEED & OTHER		.16		.01		.34	
11	SPECIAL HIRED LABOR							
12	CUSTOM WORK HIRED		. 24		•		.55	
13	IRRIGATION OPERATION							
14	TOTAL DIRECT COSTS PER ACRE		1.43		1.33		1.52	
15	RETURN OVER DIRECT COSTS PER ACRE	\$	15.15		18.37		10.70	
16	ALLOCATED COSTS PER ACRE							
17	FARM POWER & MACHINERY - OWNERSHIP	\$.21	\$.36	\$.01	
18	FARM POWER & MACHINERY - OPERATION	Ŷ	.11	. Y	.18	Ŷ	.01	
19^{-0}	IRRIGATION EQUIPMENT - OWNERSHIP		•		.10		• 0 2	
20	LAND COSTS		32,50		47,92		17.08	
21	MISCELLANEOUS COSTS		52.50		47,92		17.00	
22	INTEREST ON MACH. & EQUIP. INVESTMENT		.03	ч.	.05			
23	TOTAL ALLOCATED COSTS PER ACRE		32.85		48.51		17.11	
25	TOTAL ALLOCATED COSTS FER ACRE		J2.0J		40.J1		1/.11	
24	RETURN OVER ALL LISTED COSTS PER ACRE	\$	(-17.70)	(-	30.14)		(-6.41)	
25	SUPPLEMENTARY MANAGEMENT INFORMATION		••••••••••••••••••••••••••••••••••••••					
26	WORK UNITS ASSIGNED PER ACRE		.01		.01		.01	
27	POWER COSTS ALLOCATION FACTOR		.35		.66		.01	
28	TOTAL LISTED COST PER UNIT OF PRODUCTION	Ś	4.15	\$		\$	1.98	
29	RETURN OVER LISTED COSTS PER UNIT	Ş	(-1.99)		(-3.96)	Ş		
29 30*		۲	18.33	4 (19.39	Y	(53) 15.92	
204	DVTAVEADU ITETDAOUTI OL LKODOCTION		10.33		17.37		13.92	
31	TOTAL LISTED COSTS PER ACRE	\$	34.28	\$	49.84	\$	18.63	

TABLE 10-0860 - CROP DATA FOR NON-TILLABLE PRAIRIE PASTURE - 1977

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).

TA	BLE 11A-6470 - COSTS AND RETURNS FROM	C	OMPLETE HOG	ENTE	RPRISE* -	1977	
				1	6 Farms	1	6 Farms
					ghest in		
IT	IS				urn Above		urn Above
			Farms		eed Cost		
1	POUNDS OF HOGS PRODUCED	S OF HOGS PRODUCED 145,474		11	4,237	12	9,294
			Per Cwt	Р	'er Cwt	Р	er Cwt
2	NET INCREASE IN VALUE OF HOGS	\$	40.86	\$	44.42	\$	37.35
3	OTHER MISCELLANEOUS HOG INCOME						
4	TOTAL VALUE PRODUCED		40.86		44.42		37.35
5	POUNDS OF FEED FED						
6	CORN		275.4		260.1		289.3
7	SMALL GRAIN		20.3		12.5		26.0
8	COMPLETE RATION		56.7		20.9		118.2
9	PROTEIN, SALT & MINERAL & MILK		85.2		70.5		61.3
10	TOTAL CONCENTRATES		437.6		364.0		494.8
11	FORAGES		3.8	•	.9		1.3
12	FEED COST	4	10 57	Ş	9.75	\$	11.31
13	GRAINS	Ş	10.57 3.90		2.66		6.92
14	COMPLETE RATION		8.60		7.37		7.24
15 16	PROTEIN, SALT & MINERAL & MILK FORAGES		.03		.02		.04
17	PASTURE		.04		.04		.01
18^{17}	TOTAL FEED COSTS		23.14		19.84		25.52
19	RETURN OVER FEED COSTS	\$	17.72	\$	24.58	\$	11.83
20	OTHER DIRECT COSTS				1 00		57
21	MISCELLANEOUS LIVESTOCK EXPENSE	\$.73	\$	1.00	\$.56 .72
22	VETERINARY EXPENSE		.79		.90 .15		.31
23	CUSTOM WORK		.20		رب .		• 71
24 25	SPECIAL HIRED LABOR TOTAL OTHER DIRECT COSTS		1.86		2,05		1.59
	TOTAL OTHER DIRECT COSTS RETURN OVER FEED & OTHER DIRECT COS	rø		\$	22.53	\$	10.24
26		19	\$ T7.00	Ą	22.00		10.24
27	ALLOCATED COSTS		.83		.87	Å	1.09
28	POWER & MACHINERY COSTS	\$	1.41	\$	1.44	\$	1.29
29 30	LIVESTOCK EQUIPMENT COSTS BUILDING & FENCES		1.51		1.30		2.17
31	TOTAL ALLOWED COSTS		3.75		3.61		4,55
		\$	12,11	Å	18.92	<u>,</u>	5.69
$\frac{32}{-2}$	RETURN OVER ALL LISTED COSTS		1.4,11	\$	10.72	\$	
33	SUPPLEMENTARY MANAGEMENT INFORMATIO RETURN FOR \$100 FEED FED	IN	\$ 176.59	\$	223.90	\$	146.36
34 35	PRICE RECEIVED PER CWT. ALL ANIMA	r q	\$ 40.16	\$	40.99	\$	39.76
36	PRICE RECEIVED FER CWI. ALL ANIMA PRICE RECEIVED/CWT SOLD MKT ONLY	цIJ	\$ 40.68	ģ	40.55	\$	40.17
37	NUMBER OF LITTERS FARROWED		87		73		79
38	NUMBER OF PIGS BORN PER LITTER		9.6		9.5		9.1
39	NUMBER OF PIGS WEANED PER LITTER		7.9		7.7		7.4
40	PERCENT DEATH LOSS		14.4		13.8		14.4
41	AVERAGE WEIGHT OF ALL HOGS SOLD		225.0		215.7		210.6
42	AVERAGE WEIGHT OF MKT. HOGS SOLD		225.6		227.1		229.9
43	PRICE PER CWT. CONCENTRATE FED		\$ 5.28	\$	5.43	\$	5.16
44	PRICE/CWT PROT SALT MIN. FED		^{\$} 10.09	\$	10.45	\$	11.81
45	POUNDS OF PORK PURCHASED	-	2,819	*	3,185	~	3,224
46	TOTAL LISTED COSTS/CWT PORK PROD.	ş	28.75	\$	25.50	Ş	31.66

*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 MARKET ANIMALS.

Table	= 11B-6490 - COSTS AND RETURNS FROM H	<u>)</u> G	FINISHIN	G EN	CERPRISE* -	- 197	7
ITEM	S		of 12 Farms	H: Re	5 Farms ighest in turn Above eed Cost	R	6 Farms Lowest in eturn Above Feed Cost
	VERAGE NUMBER OF PIGS ON HAND OUNDS OF HOGS PRODUCED	230.9 18,433		142	308.9 ,071	7	151.9 4,795
	ET INCREASE IN VALUE OF HOGS THER MISCELLANEOUS HOG INCOME	\$	Per Cwt. 30.63	Р \$		\$	Per. Cwt. 28.24
5	TOTAL VALUE PRODUCED		30.63		31.88		28.24
	OUNDS OF FEED FED		287.1		287.2		286.9
7 8	CORN SMALL GRAIN		14.6		10.9		21.7
8 9	COMPLETE RATION		2.1				6.1
9	ROTEIN, SALT & MINERAL & MILK		56.7		50.9		67.6
10 P 11	TOTAL CONCENTRATES		360.5		349.0		382.3
	EED COST	ò	10.56	\$	10.28	Ş	11.08
14	GRAINS	\$.16	Ģ	10.20	Ŷ	.45
15 16 17	COMPLETE RATION PROTEIN, SALT & MINERAL & MILK FORAGES		8.99		8.68		9.58
18 19	PASTURE TOTAL FEED COSTS		19.71		18.96		21,11
	RETURN OVER FEED COSTS	\$	10.92	\$	12.92	\$	7.13
21 (THER DIRECT COSTS						
22	MISCELLANEOUS LIVESTOCK EXPENSE	Ş	.17	\$.15	\$	
23	VETERINARY EXPENSE		.54		.68		.27
24	CUSTOM WORK		.21		.10		.44
25	SPECIAL HIRED LABOR						
26	TOTAL OTHER DIRECT COSTS		.92		.93		.92
27 1	RETURN OVER FEED & OTHER DIRECT COSTS	\$	10.00	\$	11.99	\$	6.21
28 /	ALLOCATED COSTS		20	ć	.35	ć	.45
29	POWER & MACHINERY COSTS	\$		Ş			1.01
30	LIVESTOCK EQUIPMENT COSTS		.89		.80		.64
31	BUILDING & FENCES		1.04		1.20		2.10
32	TOTAL ALLOCATED COSTS		2.32		2.35		
	RETURN OVER ALL LISTED COSTS	Ş	7.68	\$	9.64	\$	4.11
	SUPPLEMENTARY MANAGEMENT INFORMATION		155 20	Å	160 15	Ş	133.78
35	RETURN FOR \$100 FEED FED		155.39		168.15 41.52	-	40.32
36	PRICE RECEIVED PER CWT.		41.07		223.6		219.1
37	AVERAGE WEIGHT OF PIGS SOLD, LBS	Å	37.69	ė		ç	
38	AVERAGE PRICE PAID PER PIG BOUGHT				42.6	4	42.7
39	AVERAGE WEIGHT PER PIG BOUGHT, LBS		42.0 643		860		426
40	NUMBER OF PIGS PURCHASED		645				1
41	NO. PIGS TRANSFERRED IN						27.0
42	AVE. WT. PIGS TRANSFERRED IN	2	7 402	3	6 632		18,172
43	POUNDS OF PORK PURCHASED, LBS	2	3.0		2.6		3.5
44	PERCENT DEATH LOSS	Ċ	5.47		5.43	5	\$ 5.52
45	PRICE PER CWT. CONCENTRATE FED	ģ	5 15.86	Ş	17.04		3 14.17
46	PRICE/CWT. PROT. SALT MIN FED EFFECTIVE DAILY GAIN LB/DAY/PIG	ኘ	1.29		1.26		1.35
47	TOTAL LISTED COST/CWT PORK PROD	¢	22.95			:	\$ 24.13
48	TOTAL FIGTED COST/CWI LOKK LKOD	ı, 		т			

*FARMS INCLUDED IN TABLE 11B EITHER PURCHASED FEEDER PIGS OR TRANSFERRED HOME FARROWED PIGS TO THE FINISHING LOTS. FEED COSTS AND RETURNS DO NOT INCLUDE ANY BREEDING HERD MAINTENANCE COSTS.

TA	BLE 12-6290 - COSTS AND RETURNS FROM	DAIR	Y COWS, CO	OMMER	CIAL HERDS	- 197	7
				1	0 Farms	1	0 Farms
			Average		ghest in		
IT	EMS		of 30	Ret	urn Above	Ret	urn Above
			Farms		ed Costs	Fe	ed Costs
1	AVERAGE NUMBER OF COWS		43.0		44.6		35.0
			Per Cow	P	er Cow	F	er Cow
2	POUNDS OF MILK	12	2,748	14	4,160	1	1,260
3	POUNDS OF BUTTERFAT		453.2		498.2		377.8
4	PERCENT OF BUTTERFAT IN MILK		3.6		3.5		3.4
	VALUE OF PRODUCE		5.0		3.3		
5		Ċ 1	L,099.49	ċ	1,233.43	\$	939.57
6	DAIRY PRODUCTS SOLD	Ļγ	9.05		7.78	Ŷ	8.40
7	DAIRY PRODUCTS USED IN HOME				10.34		10.00
8	MILK FED TO LIVESTOCK		10.56				
9	NET INCREASES IN VALUE OF COWS		(-10.44)		44.82		(-21.06)
10	OTHER MISCELLANEOUS DAIRY INCOME						
11	TOTAL VALUE PRODUCED]	L,108.66		1,296.37		936.91
12	POUNDS OF FEED FED						
13	CORN	3	3,687.2		3,801.3		3,100.3
14	SMALL GRAIN		459.8		352.6		439.8
15	COMPLETE RATION		997.2		1,052.9		1,355.4
16	PROTEIN, SALT & MINERAL		576.1		787.1		475.3
17	TOTAL CONCENTRATES	ı	5,720.3		5,993.9		5,370.8
	LEGUME HAY		5,133.0		5,878.9		4,937.7
18		•	27.9		47.1		2.9
19	OTHER HAY & DRY ROUGHAGE		3,805.1	1	0,428.3	1	15,344.6
20	SILAGE	Т.	5,005.1	ـــــــــــــــــــــــــــــــــــــ	.0,420.5	1	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
21	FEED COSTS	Å	1/7 01		140 05	1	126 90
22	GRAINS	\$	147.91	\$	148.95	\$	126.89
23	COMPLETE RATION		65.49		71.57		101.94
24	PROTEIN, SALT & MINERAL		58.98		79.44		48.83
25	ALL HAY & DRY ROUGHAGE		133.26		158.92		131.91
26	SILAGE		115.77		82.24		126.37
27	PASTURE		3.95		2.09		4.14
28	TOTAL FEED COSTS		525.36		543.21		540.08
29	RETURN OVER FEED COSTS		583.30		753.16		396.83
30	OTHER DIRECT COSTS				· · ·		
31	MISCELLANEOUS LIVESTOCK EXPENSE	Ś	48.14	\$	50.99	\$	44.06
32	VETERINARY EXPENSE	Ŷ	17.33	Ŷ	18.83	Ŷ	18.54
			42.98		41.41		37.29
33					41.41		.06
34	SPECIAL HIRED LABOR		5.12		111 00		.00 99.95
35	TOTAL OTHER DIRECT COSTS		113.57		111.23	~	
36	RET. OVER FEED & OTHER DIRECT COSTS	Ş	469.73	\$	641.93	\$	296.88
37	ALLOCATED COSTS						10.10
38	POWER & MACHINERY COSTS	\$	46.99	\$	51.82	\$	40.42
39	LIVESTOCK EQUIPMENT COSTS		56.00		64.85		52.41
40	BUILDING & FENCES		56.76		52.36		65.26
41	TOTAL ALLOCATED COSTS		159.75		169.03		158.09
42	RETURN OVER ALL LISTED COSTS		309.98		472.90		138.79
43	SUPPLEMENTARY MANAGEMENT INFORMATION	N					·
44	RETURN FOR \$100 FEED FED	\$	211.03	\$	238.65	\$	173.48
45	FEED COST PER CWT. MILK	\$	4.12	\$	3.83		4.80
46	FEED COST PER POUND OF BUTTERFAT	\$	1.16	Ś	1.09	\$	1.43
40	POUNDS OF MILK/POUND OF CONCEN	Ś	2.23	Ś	2.36	Ś	2.10
	AVERAGE PRICE PER CWT. MILK SOLD	\$ \$	8.76	Υ ¢	8.82	Ś	8.51
48		२ ८		\$ \$ \$	2.51	\$ \$ \$ \$ \$	2.54
49	AVERAGE PRICE/POUND OF BUTTERFAT	\$	2.46	የ		ş Ş	7.09
50	TOTAL LISTED COSTS/CWT MILK PRO	\$	6.27	\$	5.82	Ş	
		•	11 0		10 6		<u> </u>
51 52		\$	44.2 798.68	\$	42.6 823.47	\$	40.0 798.12

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

	REPLACEMENTS - 1977		a a la manager a china and a la manager an				an a
ITI	EMS		Average of 32 Farms	i A	1 Highest n Return bove Feed Per Cow	j	1 Lowest In Return Above Feed Per Cow
1	NUMBER OF HEAD		52.7		43.3		51.9
23	NET INCREASE IN VALUE OTHER MISCELLANEOUS INCOME	Ş	Per Cow 204.35	\$	Per Cow 286.84	\$	Per Cow 170.40
4	TOTAL INCOME		204.35		286.84		170.40
5 6 7 8 9 10 11 12	POUNDS OF FEED FED CORN SMALL GRAIN COMPLETE RATION PROTEIN, SALT & MINERALS HAY & DRY ROUGHAGE SILAGE MILK		979.5 230.4 48.6 145.7 ,963.8 ,842.8 86.1		584.0 136.4 132.7 67.0 1,391.6 6,458.1 106.9		1,156.4 340.1 22.4 201.7 3,010.7 8,096.0 65.9
13 14 15 16 17 18 19 20 21	FEED COST GRAINS COMPLETE RATION PROTEIN, SALT & MINERALS HAY & DRY ROUGHAGE SILAGE MILK	\$	43.06 4.17 16.74 49.30 55.22 7.74 3.40 179.63	\$ \$	25.43 7.53 7.32 24.80 53.05 6.24 3.86 128.23	\$ \$	53.91 2.58 23.41 80.50 66.13 7.57 3.64 237.74
22	RETURN OVER FEED COSTS	\$	24.72	\$	158.61	\$	(-67.34)
23 24 25 26 27 28	OTHER DIRECT COSTS MISCELLANEOUS EXPENSE VETERINARY EXPENSE CUSTOM WORK HIRED SPECIAL HIRED LABOR TOTAL OTHER DIRECT COSTS	\$	3.93 3.43 1.95 1.25 10.56	\$	2.86 3.51 1.78 4.41 12.56	\$	4.82 2.35 2.62 9.79
29	RET OVER FEED & OTHER DIRECT COSTS	\$	14.16	\$	146.05	\$	(-77.13)
30 31 32 33 34	ALLOCATED COSTS POWER & MACHINERY COSTS LIVESTOCK EQUIPMENT COSTS BUILDING & FENCES TOTAL ALLOCATED COSTS	\$	8.14 10.72 9.48 28.34	\$	5.52 10.77 8.76 25.05	\$	7.33 6.65 8.55 22.53
35	RETURN OVER ALL LISTED COSTS	\$	(-14.18)	\$	121.00	\$	(-99.66)
36 37 38 39	SUPPLEMENTARY MANAGEMENT INFORMATION RETURN FOR \$100 FEED FED PERCENT DEATH LOSS - TOTAL PERCENT CALF DEATH LOSS	\$	113.75 9.9 24.4	\$	223.70 11.8 28.2	\$	71.68 7.7 20.0
40	TOTAL LISTED COSTS PER COW	\$		\$	165.84	\$	270.06

TABLE 13-6310 PERTAINS TO YOUNG DAIRY CATTLE ONLY. THE HIGH AND LOW CATEGORIES ARE BASED ON RETURNS ABOVE FEED COST OF THE COWS (TABLE 12) FOR THESE SAME FARMS.

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

ITEMS IO Farms Average of 30 Parms IO Farms Feed Costs Feed Cost	TA	BLE 14 - COSTS AND RETURNS FROM ALL	DAI	RY CATTLE -	1977	• • •		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $								10 Farms
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$				Average	Hi	.ghest in	I	Lowest in
1 AVERAGE NUMBER OF COWS 43.0 50.7 37.1 Per Cow Per Cow Per Cow Per Cow Per Cow 2 VALUE OF DAIRY PRODUCTS \$ 1,119.12 \$ 1,205.35 \$ 1,042.80 3 NET INCREASE IN VALUE 245.86 291.79 247.41 4 MISCELLANEOUS DAIRY INCOME 1,364.98 1,497.14 1,290.21 6 POUNDS OF FEED FED PER COW 6,861.0 6,801.0 7 GRAINS 5,663.0 4,897.2 6,801.0 8 COMPLETE RATIONS 1,060.8 2,185.4 658.8 9 PROT SALT MIN INCL MILK EQUIV 766.8 777.2 826.0 10 HAY & DRY ROUGHAGE 7,680.2 6,921.9 8,457.1 11 SILAGE 22,442.0 17,357.0 29,253.9 12 FEED COST PER COW 1 317.46 53.72 13 GRAINS \$ 201.84 \$ 175.15 \$ 238.19 14 COMPLETE RATIONS 70.93 137.46 53.72 15 PROT, SALT & MIN, INCL MILK 89.400 79.64 104.45	IT	EMS		of 30	Ret	urn Above	Re	eturn Above
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				Farms	Fe	ed Costs	I	feed Costs
2 VALUE OF DAIRY PRODUCTS \$ 1,119.12 \$ 1,205.35 \$ 1,042.80 3 NET INCREASE IN VALUE 245.86 291.79 247.41 MISCELLANEOUS DAIRY INCOME 1,364.98 1,497.14 1,290.21 6 POUNDS OF FEED FED PER COW 6,801.0 7 GRAINS 5,663.0 4,897.2 6,801.0 8 COMPLETE RATIONS 1,060.8 2,185.4 658.8 9 PROT SALT MIN INCL MILK EQUIV 766.8 777.2 826.0 10 HAY & DRY ROUGHAGE 7,680.2 6.921.9 8,457.1 11 SILAGE 22,442.0 17,357.0 29,253.9 12 FEED COST PER COW 13 GRAINS 70.93 137.46 53.72 13 GRAINS 70.93 137.46 53.72 15 238.19 14 COMPLETE RATIONS 70.93 137.46 53.72 12.22.24 15 PROT, SALT & MIN, INCL MILK 89.40 79.64 104.45 16 HAY & DRY ROUGHAGE 185.63 137.18 234.61 18 PASTURE COSTS	1	AVERAGE NUMBER OF COWS		43.0		50.7		37.1
3 NET INCREASE IN VALUE 245.86 291.79 247.41 4 MISCELLANEOUS DAIRY INCOME 1,364.98 1,497.14 1,290.21 6 POUNDS OF FEED FED PER COW 7 GRAINS 5,663.0 4,897.2 6,801.0 8 COMPLETE RATIONS 1,060.8 2,185.4 658.8 9 PROT SALT MIN INCL MILK EQUIV 766.8 777.2 826.0 10 HAY & DRY ROUGHAGE 7,680.2 6,921.9 8,457.1 11 SILAGE 22,442.0 17,357.0 29,233.9 17 FEED COST PER COW 1 317.46 53.72 13 GRAINS \$ 201.84 175.15 \$ 238.19 14 COMPLETE RATIONS 70.93 137.46 53.72 \$ 5.663 137.18 234.61 18 PASTURE COSTS 8.37 4.46 17.90 232.29 17 SILAGE 185.63 137.18 234.61 18 PASTURE COSTS 752.52 714.40<				Per Cow	F	er Cow		Per Cow
3 NET INCREASE IN VALUE 245.86 291.79 247.41 4 MISCELLANEOUS DAIRY INCOME 1,364.98 1,497.14 1,290.21 6 POUNDS OF FEED FED PER COW 7 GRAINS 5,663.0 4,897.2 6,801.0 8 COMPLETE RATIONS 1,060.8 2,185.4 658.8 9 PROT SALT MIN INCL MILK EQUIV 766.8 777.2 826.0 10 HAY & DRY ROUGHAGE 7,680.2 6,921.9 8,457.1 11 SILAGE 22,442.0 17,357.0 29,233.9 17 FEED COST PER COW 1 317.46 53.72 13 GRAINS \$ 201.84 175.15 \$ 238.19 14 COMPLETE RATIONS 70.93 137.46 53.72 \$ 5.663 137.18 234.61 18 PASTURE COSTS 8.37 4.46 17.90 232.29 17 SILAGE 185.63 137.18 234.61 18 PASTURE COSTS 752.52 714.40<	2	VALUE OF DAIRY PRODUCTS	\$	1,119.12	Ş	1,205.35	\$	1,042.80
5 TOTAL VALUE PRODUCED 1,364.98 1,497.14 1,290.21 6 POUNDS OF FEED FED PER COW 7 GRAINS 5,663.0 4,897.2 6,801.0 7 GRAINS 1,060.8 2,185.4 658.8 9 PROT SALT MIN INCL MILK EQUIV 766.8 777.2 826.0 10 HAY & DRY ROUCHAGE 7,680.2 6,921.9 8,457.1 11 SILACE 22,442.0 17,357.0 29,233.9 12 FEED COST PER COW 13 GRAINS 70.93 137.46 53.72 15 PROT, SALT & MIN, INCL MILK 89.40 79.64 104.45 16 HAY & DRY ROUCHAGE 196.35 180.51 232.29 17 SILAGE 185.63 137.18 234.61 18 PASTURE COSTS 8.37 4.46 17.90 19 TOTAL FEED COSTS PER COW 612.46 782.74 \$409.05 21 OTHER DIRECT COSTS 21.74 24.09.05 \$21.74 \$409.05 2	3	NET INCREASE IN VALUE		245.86		291.79		
6 POUNDS OF FEED FED PER COW 7 GRAINS 5,663.0 4,897.2 6,801.0 8 COMPLETE RATIONS 1,060.8 2,185.4 658.8 9 PROT SALT MIN INCL MILK EQUIV 766.8 777.2 826.0 10 HAY & DRY ROUGHAGE 2,620.2 6,921.9 8,457.1 11 SILACE 22,442.0 17,357.0 29,253.9 12 FEED COST PER COW 3 137.46 53.72 13 GRAINS \$ 201.84 \$ 175.15 \$ 238.19 14 COMPLETE RATIONS 70.93 137.46 53.72 136.1 232.2.9 15 PROT, SALT & MIN, INCL MILK 89.40 79.64 104.45 104.45 16 HAY & DRY ROUGHAGE 196.35 180.51 232.2.9 17 SILAGE 185.63 137.18 234.61 18 PASTURE COSTS 752.52 714.40 881.16 20 RETURN OVER FEED COSTS FER COW § 612.46 \$	4	MISCELLANEOUS DAIRY INCOME						
7 GRAINS 5,663.0 4,897.2 6,801.0 8 COMPLETE RATIONS 1,060.8 2,185.4 658.8 9 PROT SALT MIN INCL MILK EQUIV 766.8 777.2 826.0 10 HAY & DRY ROUGHAGE 7,680.2 6,921.9 8,457.1 11 SILAGE 22,442.0 17,357.0 29,253.9 12 FEED COST PER COW 70.93 137.46 53.72 13 GRAINS 70.93 137.46 53.72 14 COMPLETE RATIONS 70.93 137.46 53.72 15 PROT, SALT & MIN, INCL MILK 89.40 79.64 104.45 16 HAY & DRY ROUGHAGE 196.35 180.51 232.29 17 SILAGE 185.63 137.18 234.61 18 PASTURE COSTS 8.37 4.46 17.90 19 TOTAL FEED COSTS PER COW \$ 612.46 \$ 782.74 \$ 409.05 21 OTHER DIRECT COSTS 2 53.27 \$ 55.66 22 VETERINARY EXPENSE \$ 21.74 27.59 21.37 <t< td=""><td>5</td><td>TOTAL VALUE PRODUCED</td><td></td><td>1,364.98</td><td></td><td>1,497.14</td><td></td><td>1,290.21</td></t<>	5	TOTAL VALUE PRODUCED		1,364.98		1,497.14		1,290.21
8 COMPLETE RATIONS 1,060.8 2,185.4 658.8 9 PROT SALT MIN INCL MILK EQUIV 766.8 777.2 826.0 10 HAY & DRY ROUGHAGE 7,680.2 6,921.9 8,457.1 11 SILAGE 22,442.0 17,357.0 29,253.9 12 FEED COST PER COW 17,357.0 29,253.9 13 GRAINS \$201.84 \$175.15 \$238.19 14 COMPLETE RATIONS 70.93 137.46 53.72 15 PROT, SALT & MIN, INCL MILK 89.40 79.64 104.45 16 HAY & DRY ROUGHAGE 196.35 180.51 232.29 17 SILAGE 185.63 137.18 234.61 18 PASTURE COSTS 8.37 4.46 17.90 19 TOTAL FEED COSTS PER COW \$612.46 \$782.74 \$409.05 21 OTHER DIRECT COSTS 752.52 \$14.40 881.16 20 RETURN OVER FEED COSTS \$26.83 127.88 115.33 <td< td=""><td>6</td><td>POUNDS OF FEED FED PER COW</td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	6	POUNDS OF FEED FED PER COW						
8 COMPLETE RATIONS 1,060.8 2,185.4 658.8 9 PROT SALT MIN INCL MILK EQUIV 766.8 777.2 826.0 10 HAY & DRY ROUGHAGE 7,680.2 6,921.9 8,457.1 11 SILAGE 22,442.0 17,357.0 29,253.9 12 FEED COST PER COW 13 GRAINS \$ 201.84 \$ 175.15 \$ 238.19 13 GRAINS \$ 201.84 \$ 175.15 \$ 238.19 14 COMPLETE RATIONS 70.93 137.46 53.72 15 PROT, SALT & MIN, INCL MILK 89.40 79.64 104.45 16 HAY & DRY ROUGHAGE 196.35 180.51 232.29 17 SILAGE 185.63 137.18 234.61 18 PASTURE COSTS 8.37 4.46 17.90 19 TOTAL FEED COSTS PER COW \$ 612.46 \$ 782.74 \$ 409.05 21 OTHER DIRECT COSTS \$ 21.74 27.59 21.37 22 MISCELLANEOUS LIVESTOCK EXPENSE \$ 52.9	7	GRAINS		5,663.0		4,897.2		6,801.0
9 PROT SALT MIN INCL MILK EQUIV 766.8 777.2 826.0 10 HAY & DRY ROUGHAGE 7,680.2 6,921.9 8,457.1 11 SILAGE 22,442.0 17,357.0 29,253.9 12 FEED COST PER COW 17,357.0 29,253.9 13 GRAINS \$ 201.84 \$ 175.15 \$ 238.19 14 COMPLETE RATIONS 70.93 137.46 53.72 15 PROT, SALT & MIN, INCL MILK 89.40 79.64 106.45 16 HAY & DRY ROUGHAGE 196.35 180.51 232.29 17 SILAGE 185.63 137.18 234.61 18 PASTURE COSTS 752.52 714.40 881.16 20 RETURN OVER FEED COSTS PER COW 612.46 782.74 \$ 409.05 21 OTHER DIRECT COSTS 752.52 714.40 881.16 22 MISCELLANEOUS LIVESTOCK EXPENSE \$ 52.95 \$ 53.27 \$ 55.66 23 VETERINARY EXPENSE 21.74 27.59 21.37 </td <td>8</td> <td>COMPLETE RATIONS</td> <td></td> <td>1,060.8</td> <td></td> <td></td> <td></td> <td></td>	8	COMPLETE RATIONS		1,060.8				
10 HAY & DRY ROUGHAGE 7,680.2 6,921.9 8,457.1 11 SILAGE 22,442.0 17,357.0 29,253.9 12 FEED COST PER COW 175.15 \$ 238.19 14 COMPLETE RATIONS 70.93 137.46 53.72 15 PROT, SALT & MIN, INCL MILK 89.40 79.64 104.45 16 HAY & DRY ROUGHAGE 196.35 180.51 232.29 17 SILAGE 185.63 137.18 234.61 18 PASTURE COSTS 8.37 4.46 17.90 19 TOTAL FEED COSTS 752.52 714.40 881.16 20 RETURN OVER FEED COSTS PER COW 612.46 \$ 782.74 \$ 409.05 21 OTHER DIRECT COSTS 21.74 27.59 21.37 \$ 24.61 22 MISCELLANEOUS LIVESTOCK EXPENSE \$2.95 \$ 53.27 \$ 55.66 3 VERENNARY EXPENSE 21.74 27.59 21.37 24 CUSTOM WORK 45.40 47.02 38.30 25 <td< td=""><td>9</td><td>PROT SALT MIN INCL MILK EQUIV</td><td></td><td></td><td></td><td></td><td></td><td>826.0</td></td<>	9	PROT SALT MIN INCL MILK EQUIV						826.0
11 SILAGE 22,442.0 17,357.0 29,253.9 12 FEED COST PER COW 13 GRAINS \$ 201.84 \$ 175.15 \$ 238.19 14 COMPLETE RATIONS 70.93 137.46 53.72 15 PROT, SALT & MIN, INCL MILK 89.40 79.64 104.45 16 HAY & DRY ROUGHAGE 196.35 180.51 232.29 17 SILAGE 185.63 137.18 234.61 18 PASTURE COSTS 8.37 4.46 17.90 19 TOTAL FEED COSTS 752.52 714.40 881.16 20 RETURN OVER FEED COSTS PER COW \$ 612.46 \$ 782.74 \$ 409.05 21 OTHER DIRECT COSTS 752.52 714.40 881.16 20 RETURN OVER FEED COSTS PER COW \$ 612.46 \$ 782.74 \$ 409.05 21 OTHER DIRECT COSTS 75.66 \$ 752.75 \$ 55.66 23 VETERINARY EXPENSE \$ 21.74 27.59 \$ 21.37 24 CUSTOM WORK 45.40 47.02 38.30 25 SPECIAL HIRED	10			7,680.2				
12 FEED COST PER COW 13 GRAINS \$ 201.84 \$ 175.15 \$ 238.19 14 COMPLETE RATIONS 70.93 137.46 53.72 15 PROT, SALT & MIN, INCL MILK 89.40 79.64 104.45 16 HAY & DRY ROUGHAGE 196.35 180.51 232.29 17 SILACE 185.63 137.18 234.61 18 PASTURE COSTS 8.37 4.46 17.90 19 TOTAL FEED COSTS 752.52 714.40 881.16 20 RETURN OVER FEED COSTS 752.52 714.40 881.16 21 OTHER DIRECT COSTS 21.74 27.59 21.37 24 CUSTOM WORK 45.40 47.02 38.30 25 SPECIAL HIRED LABOR 6.74 27.59 21.37 24 CUSTOM WORK 485.68 654.86 293.72 28 ALLOCATED COSTS 126.83 127.88 115.33 27 RET OVER FEED & OTHER DIRECT COSTS 56.53 63.44 56.68 29 POWER & MACHINERY COSTS 56.53<	11	SILAGE		-				
13 GRAINS \$ 201.84 \$ 175.15 \$ 238.19 14 COMPLETE RATIONS 70.93 137.46 53.72 15 PROT, SALT & MIN, INCL MILK 89.40 79.64 104.45 16 HAY & DRY ROUGHAGE 196.35 180.51 232.29 17 SILACE 185.63 137.18 234.61 18 PASTURE COSTS 8.37 4.46 17.90 19 TOTAL FEED COSTS 752.52 714.40 881.16 20 RETURN OVER FEED COSTS PER COW \$ 612.46 \$ 782.74 \$ 409.05 21 OTHER DIRECT COSTS 21.74 27.59 21.37 24 CUSTOM WORK 45.40 47.02 38.30 25 SPECIAL HIRED LABOR 6.74 27.88 115.33 27 RET OVER FEED & OTHER DIRECT COSTS 126.83 127.88 115.33 27 RET OVER FEED & OTHER DIRECT COSTS 67.63 63.44 \$ 56.68 30 LIVESTOCK EQUIPMENT COSTS 56.53 63.44 \$ 56.68 30 LIVESTOCK EQUIPMENT COSTS 67.63 68.9	12	FEED COST PER COW						
14 COMPLETE RATIONS 70.93 137.46 53.72 15 PROT, SALT & MIN, INCL MILK 89.40 79.64 104.45 16 HAY & DRY ROUGHAGE 196.35 180.51 232.29 17 SILAGE 185.63 137.18 234.61 18 PASTURE COSTS 8.37 4.46 17.90 19 TOTAL FEED COSTS 752.52 714.40 881.16 20 RETURN OVER FEED COSTS PER COW 612.46 782.74 \$ 409.05 21 OTHER DIRECT COSTS 752.52 714.40 881.16 20 RETURN OVER FEED COSTS PER COW 612.46 \$ 782.74 \$ 409.05 21 OTHER DIRECT COSTS 21.74 27.59 21.37 24 CUSTOM WORK 45.40 47.02 38.30 25 SPECIAL HIRED LABOR 6.74 26 105.33 127.88 115.33 27 RET OVER FEED & OTHER DIRECT COSTS \$ 485.68 \$ 654.86 \$ 293.72 28 ALLOCATED COSTS \$ 56.53 \$ 63.44 \$ 56.68 30 LIVESTOCK EQUIPMENT CO	13	GRAINS	Ś	201.84	Ś.	175.15	Ś	238.19
15 PROT, SALT & MIN, INCL MILK 89.40 79.64 104.45 16 HAY & DRY ROUGHAGE 196.35 180.51 232.29 17 SILAGE 185.63 137.18 234.61 18 PASTURE COSTS 8.37 4.46 17.90 19 TOTAL FEED COSTS 752.52 714.40 881.16 20 RETURN OVER FEED COSTS PER COW 612.46 \$ 782.74 \$ 409.05 21 OTHER DIRECT COSTS 752.52 \$ 53.27 \$ 55.66 22 MISCELLANEOUS LIVESTOCK EXPENSE \$ 52.95 \$ 53.27 \$ 55.66 23 VETERINARY EXPENSE 21.74 27.59 21.37 24 CUSTOM WORK 45.40 47.02 38.30 25 SPECIAL HIRED LABOR 6.74 2 23.32 26 TOTAL OTHER DIRECT COSTS 126.83 127.88 115.33 27 RET OVER FEED & OTHER DIRECT COSTS \$ 65.53 \$ 63.44 \$ 56.68 30 LIVESTOCK EQUIPMENT COSTS \$ </td <td></td> <td></td> <td>,</td> <td></td> <td></td> <td></td> <td></td> <td></td>			,					
16 HAY & DRY ROUGHAGE 196.35 180.51 232.29 17 SILAGE 185.63 137.18 234.61 18 PASTURE COSTS 8.37 4.46 17.90 19 TOTAL FEED COSTS 752.52 714.40 881.16 20 RETURN OVER FEED COSTS PER COW \$ 612.46 \$ 782.74 \$ 409.05 21 OTHER DIRECT COSTS 752.52 \$ 53.27 \$ 55.66 23 VETERINARY EXPENSE \$ 21.74 27.59 21.37 24 CUSTOM WORK 45.40 47.02 38.30 25 SPECIAL HIRED LABOR 6.74 7 7 26 TOTAL OTHER DIRECT COSTS 126.83 127.88 115.33 27 RET OVER FEED & OTHER DIRECT COSTS \$ 485.68 \$ 654.86 \$ 293.72 28 ALLOCATED COSTS \$ 56.53 \$ 63.44 \$ 56.68 30 LIVESTOCK EQUIPMENT COSTS \$ 67.63 68.92 67.89 31 BUILDING & FENCES \$ 76.63 68.92 67.89 32 TOTAL ALLOCATED COSTS 191.17 209.15								
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19 TOTAL FEED COSTS 752.52 714.40 881.16 20 RETURN OVER FEED COSTS PER COW \$ 612.46 \$ 782.74 \$ 409.05 21 OTHER DIRECT COSTS 2 MISCELLANEOUS LIVESTOCK EXPENSE \$ 52.95 \$ 53.27 \$ 55.66 23 VETERINARY EXPENSE 21.74 27.59 21.37 24 CUSTOM WORK 45.40 47.02 38.30 25 SPECIAL HIRED LABOR 6.74 115.33 26 TOTAL OTHER DIRECT COSTS 126.83 127.88 115.33 27 RET OVER FEED & OTHER DIRECT COSTS 485.68 654.86 \$ 293.72 28 ALLOCATED COSTS 56.53 \$ 63.44 \$ 56.68 30 LIVESTOCK EQUIPMENT COSTS 67.63 68.92 67.89 31 BUILDING & FENCES 67.63 68.92 67.89 32 TOTAL ALLOCATED COSTS 191.17 209.15 181.80 33 RETURN OVER ALL LISTED COSTS \$ 294.46 445.71 111.92								
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22 MISCELLANEOUS LIVESTOCK EXPENSE \$ 52.95 \$ 53.27 \$ 55.66 23 VETERINARY EXPENSE 21.74 27.59 21.37 24 CUSTOM WORK 45.40 47.02 38.30 25 SPECIAL HIRED LABOR 6.74 115.33 26 TOTAL OTHER DIRECT COSTS 126.83 127.88 115.33 27 RET OVER FEED & OTHER DIRECT COSTS 485.68 \$ 654.86 \$ 293.72 28 ALLOCATED COSTS \$ 56.53 \$ 63.44 \$ 56.68 29 POWER & MACHINERY COSTS \$ 56.53 \$ 63.44 \$ 56.68 30 LIVESTOCK EQUIPMENT COSTS 67.01 76.79 57.23 31 BUILDING & FENCES 67.63 68.92 67.89 32 TOTAL ALLOCATED COSTS 191.17 209.15 181.80 33 RETURN OVER ALL LISTED COSTS \$ 294.46 \$ 445.71 \$ 111.92 34 SUPPLEMENTARY MANAGEMENT INFORMATION \$ 209.57 \$ 146.42 35 RETURN FOR \$100 FEED FED \$ 181.39 \$ 209.57 \$ 146.42	20	RETURN OVER FEED COSTS PER COW	\$	612.46	\$ ^{***}	782.74	\$	409.05
22 MISCELLANEOUS LIVESTOCK EXPENSE \$ 52.95 \$ 53.27 \$ 55.66 23 VETERINARY EXPENSE 21.74 27.59 21.37 24 CUSTOM WORK 45.40 47.02 38.30 25 SPECIAL HIRED LABOR 6.74 7 7 7 26 TOTAL OTHER DIRECT COSTS 126.83 127.88 115.33 27 RET OVER FEED & OTHER DIRECT COSTS 485.68 \$ 654.86 \$ 293.72 28 ALLOCATED COSTS 5 56.53 \$ 63.44 \$ 56.68 29 POWER & MACHINERY COSTS \$ 56.53 \$ 63.44 \$ 56.68 30 LIVESTOCK EQUIPMENT COSTS 67.01 76.79 57.23 31 BUILDING & FENCES 67.63 68.92 67.89 32 TOTAL ALLOCATED COSTS 191.17 209.15 181.80 33 RETURN OVER ALL LISTED COSTS \$ 294.46 \$ 445.71 \$ 111.92 34 SUPPLEMENTARY MANAGEMENT INFORMATION \$ 209.57 \$ 146.42 35 RETURN FOR \$100 FEED FED \$ 181.39 \$ 209.57 \$ 146.42	21	OTHER DIRECT COSTS						
23 VETERINARY EXPENSE 21.74 27.59 21.37 24 CUSTOM WORK 45.40 47.02 38.30 25 SPECIAL HIRED LABOR 6.74 707 38.30 26 TOTAL OTHER DIRECT COSTS 126.83 127.88 115.33 27 RET OVER FEED & OTHER DIRECT COSTS 485.68 \$ 654.86 \$ 293.72 28 ALLOCATED COSTS \$ 56.53 \$ 63.44 \$ 56.68 29 POWER & MACHINERY COSTS \$ 56.53 \$ 63.44 \$ 56.68 30 LIVESTOCK EQUIPMENT COSTS 67.63 68.92 67.89 31 BUILDING & FENCES 67.63 68.92 67.89 32 TOTAL ALLOCATED COSTS 191.17 209.15 181.80 33 RETURN OVER ALL LISTED COSTS \$ 294.46 \$ 445.71 \$ 111.92 34 SUPPLEMENTARY MANAGEMENT INFORMATION \$ 181.39 \$ 209.57 \$ 146.42	22		\$	52,95	S	53.27	Ś	55.66
24 CUSTOM WORK 45.40 47.02 38.30 25 SPECIAL HIRED LABOR 6.74 115.33 26 TOTAL OTHER DIRECT COSTS 126.83 127.88 115.33 27 RET OVER FEED & OTHER DIRECT COSTS 485.68 \$ 654.86 \$ 293.72 28 ALLOCATED COSTS 485.68 \$ 654.86 \$ 293.72 28 ALLOCATED COSTS \$ 56.53 \$ 63.44 \$ 56.68 30 LIVESTOCK EQUIPMENT COSTS \$ 67.01 76.79 57.23 31 BUILDING & FENCES 67.63 68.92 67.89 32 TOTAL ALLOCATED COSTS 191.17 209.15 181.80 33 RETURN OVER ALL LISTED COSTS \$ 294.46 \$ 445.71 \$ 111.92 34 SUPPLEMENTARY MANAGEMENT INFORMATION \$ 209.57 \$ 146.42	23		•		•			
25 SPECIAL HIRED LABOR 6.74 26 TOTAL OTHER DIRECT COSTS 126.83 127.88 115.33 27 RET OVER FEED & OTHER DIRECT COSTS 485.68 \$ 654.86 \$ 293.72 28 ALLOCATED COSTS 9 POWER & MACHINERY COSTS \$ 56.53 \$ 63.44 \$ 56.68 30 LIVESTOCK EQUIPMENT COSTS 67.01 76.79 57.23 31 BUILDING & FENCES 67.63 68.92 67.89 32 TOTAL ALLOCATED COSTS 191.17 209.15 181.80 33 RETURN OVER ALL LISTED COSTS \$ 294.46 \$ 445.71 \$ 111.92 34 SUPPLEMENTARY MANAGEMENT INFORMATION \$ 181.39 \$ 209.57 \$ 146.42	24							
26 TOTAL OTHER DIRECT COSTS 126.83 127.88 115.33 27 RET OVER FEED & OTHER DIRECT COSTS \$ 485.68 \$ 654.86 \$ 293.72 28 ALLOCATED COSTS \$ 56.53 \$ 63.44 \$ 56.68 29 POWER & MACHINERY COSTS \$ 56.53 \$ 63.44 \$ 56.68 30 LIVESTOCK EQUIPMENT COSTS 67.01 76.79 57.23 31 BUILDING & FENCES 67.63 68.92 67.89 32 TOTAL ALLOCATED COSTS \$ 294.46 \$ 445.71 \$ 111.92 34 SUPPLEMENTARY MANAGEMENT INFORMATION \$ 209.57 \$ 146.42 35 RETURN FOR \$100 FEED FED \$ 181.39 \$ 209.57 \$ 146.42	25							
28 ALLOCATED COSTS 29 POWER & MACHINERY COSTS \$ 56.53 \$ 63.44 \$ 56.68 30 LIVESTOCK EQUIPMENT COSTS 67.01 76.79 57.23 31 BUILDING & FENCES 67.63 68.92 67.89 32 TOTAL ALLOCATED COSTS 191.17 209.15 181.80 33 RETURN OVER ALL LISTED COSTS \$ 294.46 \$ 445.71 \$ 111.92 34 SUPPLEMENTARY MANAGEMENT INFORMATION 35 RETURN FOR \$100 FEED FED \$ 181.39 \$ 209.57 \$ 146.42						127.88		115.33
29 POWER & MACHINERY COSTS \$ 56.53 \$ 63.44 \$ 56.68 30 LIVESTOCK EQUIPMENT COSTS 67.01 76.79 57.23 31 BUILDING & FENCES 67.63 68.92 67.89 32 TOTAL ALLOCATED COSTS 191.17 209.15 181.80 33 RETURN OVER ALL LISTED COSTS \$ 294.46 \$ 445.71 \$ 111.92 34 SUPPLEMENTARY MANAGEMENT INFORMATION 35 RETURN FOR \$100 FEED FED \$ 181.39 \$ 209.57 \$ 146.42	27	RET OVER FEED & OTHER DIRECT COSTS	\$	485.68	\$	654.86	\$	293.72
29 POWER & MACHINERY COSTS \$ 56.53 \$ 63.44 \$ 56.68 30 LIVESTOCK EQUIPMENT COSTS 67.01 76.79 57.23 31 BUILDING & FENCES 67.63 68.92 67.89 32 TOTAL ALLOCATED COSTS 191.17 209.15 181.80 33 RETURN OVER ALL LISTED COSTS \$ 294.46 \$ 445.71 \$ 111.92 34 SUPPLEMENTARY MANAGEMENT INFORMATION 35 RETURN FOR \$100 FEED FED \$ 181.39 \$ 209.57 \$ 146.42	28	ALLOCATED COSTS						
30 LIVESTOCK EQUIPMENT COSTS 67.01 76.79 57.23 31 BUILDING & FENCES 67.63 68.92 67.89 32 TOTAL ALLOCATED COSTS 191.17 209.15 181.80 33 RETURN OVER ALL LISTED COSTS \$ 294.46 \$ 445.71 \$ 111.92 34 SUPPLEMENTARY MANAGEMENT INFORMATION 35 RETURN FOR \$100 FEED FED \$ 181.39 \$ 209.57 \$ 146.42			Ś	56 53	Ś	63 44	¢	56 68
31 BUILDING & FENCES 67.63 68.92 67.89 32 TOTAL ALLOCATED COSTS 191.17 209.15 181.80 33 RETURN OVER ALL LISTED COSTS \$ 294.46 \$ 445.71 \$ 111.92 34 SUPPLEMENTARY MANAGEMENT INFORMATION 35 RETURN FOR \$100 FEED FED \$ 181.39 \$ 209.57 \$ 146.42			Ŷ		Ŷ		Ŷ	
32 TOTAL ALLOCATED COSTS 191.17 209.15 181.80 33 RETURN OVER ALL LISTED COSTS \$ 294.46 \$ 445.71 \$ 111.92 34 SUPPLEMENTARY MANAGEMENT INFORMATION 35 RETURN FOR \$100 FEED FED \$ 181.39 \$ 209.57 \$ 146.42								
33 RETURN OVER ALL LISTED COSTS \$ 294.46 \$ 445.71 \$ 111.92 34 SUPPLEMENTARY MANAGEMENT INFORMATION 35 RETURN FOR \$100 FEED FED \$ 181.39 \$ 209.57 \$ 146.42								
34SUPPLEMENTARY MANAGEMENT INFORMATION35RETURN FOR \$100 FEED FED\$ 181.39\$ 209.57\$ 146.42			ė		Å			
35 RETURN FOR \$100 FEED FED \$ 181.39 \$ 209.57 \$ 146.42				294.40	ې ې	443./1	Ş	111.92
					,			
36 TOTAL LISTED COSTS PER COW \$ 1,070.52 \$ 1,051.43 \$ 1,178.29	35	RETURN FOR \$100 FEED FED	Ş	181.39	Ş.	209.57	\$	146.42
	36	TOTAL LISTED COSTS PER COW	\$	1,070.52	\$	1,051.43	\$	1,178.29

TABLE 14 PRESENTS A PICTURE OF THE COSTS AND RETURNS FROM THE WHOLE DAIRY HERD, I.E., IT IS THE SUM OF TABLES 12 AND 13. THE INFORMATION IS PRESENTED ON A PER COW BASIS, WITH THE NUMBER OF COWS TAKEN FROM TABLE 12. RETURN ABOVE FEED COST IN TABLE 12 WAS USED IN TABLE 14.

	HERD - 1977						
ITE	MO		Average of 23 Farms		1 Highest in eturn Above Feed Cost		1 Lowest in eturn Above Feed Cost
1 2	AVERAGE NUMBER OF BEEF COWS AVE. NO. OTHER BEEF ANIMALS AND BULLS POUNDS OF BEEF PRODUCED	2	57.7 40.5 7,059		56.4 54.7 30,884		63.2 29.0 25,398
	NET INCREASE IN VALUE OTHER MISCELLANEOUS BEEF INCOME TOTAL VALUE PRODCUED	\$	Per Cow 171.20 .40 171.60	\$	Per Cow 226.77 .87 227.64	Ş	Per Cow 121.82 121.82
7 8 9 10 11 12	POUNDS OF FEED FED GRAIN PROTEIN, SALT & MINERAL LEGUME HAY OTHER HAY & DRY ROUGHAGE SILAGE		249.5 162.6 2326.3 828.9 5720.6		394.3 178.9 1234.4 555.4 6385.5		124.5 148.5 3339.2 1021.9 5221.8
13 14 15 16 17 18 19 20	FEED COST GRAIN PROTEIN, SALT & MINERAL LEGUME HAY OTHER HAY & DRY ROUGHAGE SILAGE PASTURE TOTAL FEED COSTS	\$	8.96 15.20 47.14 6.83 47.12 27.57 152.82	Ş	$14.11 \\ 17.30 \\ 31.70 \\ 3.14 \\ 48.97 \\ 28.35 \\ 143.57$	\$	4.49 13.20 61.69 9.13 46.27 26.87 161.65
21	RETURN OVER FEED COST	\$	18.78	\$	84.07	\$	(-39.83)
22 23 24 25 26 27	OTHER DIRECT COSTS MISCELLANEOUS LIVESTOCK EXPENSE VETERINARY EXPENSE CUSTOM WORK SPECIAL HIRED LABOR TOTAL OTHER DIRECT COSTS	\$	14.07 5.39 4.00 23.46	\$	16.54 5.44 5.00 26.98	Ş	$ 12.10 \\ 5.44 \\ 3.18 \\ 20.72 $
28	RETURN OVER FEED & OTHER DIRECT COSTS	\$	(-4.68)	\$	57.09	\$	(-60.55)
29 30 31 32 33	ALLOCATED COSTS POWER & MACHINERY COSTS LIVESTOCK EQUIPMENT COSTS BUILDING & FENCES TOTAL ALLOCATED COSTS	\$	10.16 14.90 16.70 41.76	\$	9.53 9.93 12.82 32.28	\$	10.05 16.19 16.51 42.75
34	RETURN OVER ALL LISTED COSTS	\$-	(-46.44)	\$	24.81	\$	(-103.30)
35 36 37 38 39 40 41	SUPPLEMENTARY MANAGEMENT INFORMATION RETURN FOR \$100 FEED FED PRICE PER CWT. SOLD PRICE/CWT CALVES SOLD OR TRANS. AVERAGE WEIGHT PER HEAD SOLD AVER. WEIGHT PER CALF SOLD OR TRANS PERCENT DEATH LOSS	\$ \$ \$	112.28 39.95 35.15 876.2 473.0 4.2	\$ \$ \$	$ 158.56 \\ 41.37 \\ 38.66 \\ 1076.2 \\ 534.8 \\ 5.4 \\ 107.7 $	\$ \$ \$	75.36 38.54 33.26 748.6 445.3 2.7 103.3
42 43	PERCENT CALF CROP TOTAL LISTED COSTS PER COW	\$	105.6 218.04	\$	107.7 202.83	\$	225.12

TABLE 15A-6100 - COST AND RETURNS FROM BEEF BREEDING CATTLE, FARM, COMMERCIAL HERD - 1977

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.

$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	TAI	BLE 15B-6140 - COST AND RETURNS FROM D	BEEF	FEEDER C.	ATTL		1977	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				of 90 Lots	Re	eturn Above Feed Costs	Lo Ret	west in urn Above ed Costs
3 NET INCREASE IN VALUE OF ANIMALS \$ 43.33 \$ 48.90 \$ 39.97 4 OTHER MISCELLANEOUS BEEF INCOME 43.33 48.90 39.97 6 FOUNDS OF FEED FED 43.33 48.90 39.97 7 GRAIN 502.4 536.7 514.9 7 GRAIN 72.1 58.1 70.1 9 LECUME HAY 129.6 71.5 602.1 10 OTHER HAY & DRY ROUGHAGE 13.0 89.7 39.7 11 SILAGE 1,043.8 778.5 2,032.2 12 FEED COST 1 64.28 7.40 15 LECUME HAY 2.34 1.63 5.01 16 OTHER HAY & DRY ROUGHAGE 2.4 1.37 7 SILAGE .04 .31 19 TOTAL VALUE .04 .31 19 TOTAL VALUE .04 .31 10 THER HAY & DRY ROUGHAGE \$ 8.99 \$ 18.20 \$ (-8.98) 20			96				· Z	
6 POUNDS OF FEED FED 7 GRAIN 9 PROTEIN, SALT & MINERAL 72.1 58.1 1 LECUME HAY 129.6 71.5 60.11 OTHER HAY & DRY ROUGHAGE 10 OTHER HAY & DRY ROUGHAGE 11 SILAGE 12 FEED COST 13 GRAIN 14 PROTEIN, SALT & MINERAL 5.04 4.28 7.40 5 18.85 14 PROTEIN, SALT & MINERAL 5.04 4.28 7.40 5 16.56 16 OTHER HAY & DRY ROUGHAGE .234 1.63 5 16.56 17 SILAGE .04 .31 19 TOTAL FEED COST 20 RETURN OVER FEED COST 21 OTHER HAY & DRY SOL 22 MISCELLANEOUS LIVESTOCK EXPENSE 23 VETERTNARY EXPENSE .77 .78 .66 .77 .78 .67	4	OTHER MISCELLANEOUS BEEF INCOME	\$	43.33		48.90		39.97
13 GRAIN \$ 18.05 \$ 18.85 \$ 18.30 14 PROTEIN, SALT & MINERAL 5.04 4.28 7.40 15 LEGUME HAY 2.34 1.63 5.01 16 OTHER HAY & DRY ROUGHAGE .24 1.37 17 SILACE 8.63 5.94 16.56 18 PASTURE .04 .31 19 TOTAL FEED COST 34.34 30.70 48.95 20 RETURN OVER FEED COST \$ 8.99 18.20 \$ (-8.98) 21 OTHER DIRECT COSTS 2 2 2 22 MISCELLANEOUS LIVESTOCK EXPENSE \$.30 \$.46 \$.28 23 VETERINARY EXPENSE .77 .78 .67 24 CUSTOM WORK HIRED .73 .39 .74 25 SPECIAL HIRED LABOR .02 .06 26 TOTAL OTHER DIRECT COSTS 1.82 1.63 1.75 27 RET OVER FEED & OTHER DIRECT COSTS 1.36 1.59 2.09 30 LIVESTOCK EQUIPMENT COSTS 1.36 1.59 2.09<	6 7 8 9 10	POUNDS OF FEED FED GRAIN PROTEIN, SALT & MINERAL LEGUME HAY OTHER HAY & DRY ROUGHAGE		502.4 72.1 129.6 13.0		536.7 58.1 71.5		514.9 70.1 602.1 89.7
21 OTHER DIRECT COSTS 22 MISCELLANEOUS LIVESTOCK EXPENSE \$.30 \$.46 \$.28 23 VETERINARY EXPENSE .77 .78 .67 24 CUSTOM WORK HIRED .73 .39 .74 25 SPECIAL HIRED LABOR .02 .06 26 TOTAL OTHER DIRECT COSTS 1.82 1.63 1.75 27 RET OVER FEED & OTHER DIRECT COSTS \$ 7.17 \$ 16.57 \$ (-10.73) 28 ALLOCATED COSTS \$.83 \$.86 \$ 1.09 30 LIVESTOCK EQUIPMENT COSTS \$ 1.36 1.59 2.09 31 BUILDINGS & FENCES 1.39 1.67 32 TOTAL ALLOCATED COSTS \$ 3.58 3.84 4.85 33 RETURN OVER ALL LISTED COSTS \$ 3.59 \$ 12.73 \$ (-15.58) 34 SUPPLEMENTARY MANAGEMENT INFORMATION \$ 38.85 \$ 39.25 \$ 38.23 37 AVERAGE WEIGHT PER HEAD SOLD 1,063.3 1,075.8 1,099.7 38 PRICE PER CWT. SOLD \$ 39.44 \$ 37.24 \$ 41.14 39 <td< td=""><td>13 14 15 16 17 18</td><td>GRAIN PROTEIN, SALT & MINERAL LEGUME HAY OTHER HAY & DRY ROUGHAGE SILAGE PASTURE</td><td>Ş</td><td>5.04 2.34 .24 8.63 .04</td><td>\$</td><td>4.28 1.63 5.94</td><td>\$</td><td>7.40 5.01 1.37 16.56 .31</td></td<>	13 14 15 16 17 18	GRAIN PROTEIN, SALT & MINERAL LEGUME HAY OTHER HAY & DRY ROUGHAGE SILAGE PASTURE	Ş	5.04 2.34 .24 8.63 .04	\$	4.28 1.63 5.94	\$	7.40 5.01 1.37 16.56 .31
22 MISCELLANEOUS LIVESTOCK EXPENSE \$.30 \$.46 \$.28 23 VETERINARY EXPENSE .77 .78 .67 24 CUSTOM WORK HIRED .73 .39 .74 25 SPECIAL HIRED LABOR .02 .06 26 TOTAL OTHER DIRECT COSTS 1.82 1.63 1.75 27 RET OVER FEED & OTHER DIRECT COSTS \$ 7.17 \$ 16.57 \$ (-10.73) 28 ALLOCATED COSTS \$.83 \$.86 \$ 1.09 30 LIVESTOCK EQUIPMENT COSTS \$.83 \$.86 \$ 1.09 30 LIVESTOCK EQUIPMENT COSTS \$.30 \$.86 \$ 1.09 30 LIVESTOCK EQUIPMENT COSTS \$.83 \$.86 \$ 1.09 31 BUILDINGS & FENCES \$.30 \$.86 \$ 1.09 32 TOTAL ALLOCATED COSTS \$ 3.58 3.84 4.85 33 RETURN OVER ALL LISTED COSTS \$ 3.59 \$ 12.73 \$ (-15.58) 34 SUPPLEMENTARY MANAGEMENT INFORMATION \$ 38.85 \$ 39.25 \$ 38.23 37 AVERAGE WEIGHT PER HEAD SOLD 1,063.3	20	RETURN OVER FEED COST	Ş	8.99	\$	18.20	\$	(-8.98)
28 ALLOCATED COSTS 29 POWER & MACHINERY COSTS \$.83 \$.86 \$ 1.09 30 LIVESTOCK EQUIPMENT COSTS 1.36 1.59 2.09 31 BUILDINGS & FENCES 1.39 1.39 1.67 32 TOTAL ALLOCATED COSTS 3.58 3.84 4.85 33 RETURN OVER ALL LISTED COSTS \$ 3.59 \$ 12.73 \$ (-15.58) 34 SUPPLEMENTARY MANAGEMENT INFORMATION \$ \$ 126.18 \$ 159.29 \$ 81.66 36 PRICE PER CWT. SOLD \$ 38.85 \$ 39.25 \$ 38.23 37 AVERAGE WEIGHT PER HEAD SOLD 1,063.3 1,075.8 1,099.7 38 PRICE PER CWT. BOUGHT \$ 39.44 \$ 37.24 \$ 41.14 39 AVERAGE WEIGHT PER HEAD BOUGHT 577.9 602.3 570.6 570.6 40 NUMBER OF HEAD BOUGHT 215 294 77 64 77 41 PERCENT DEATH LOSS .8 .8	22 23 24 25	MISCELLANEOUS LIVESTOCK EXPENSE VETERINARY EXPENSE CUSTOM WORK HIRED SPECIAL HIRED LABOR	Ş	.77 .73 .02	\$.78 .39	Ş	.67 .74 .06
29 POWER & MACHINERY COSTS \$.83 \$.86 \$ 1.09 30 LIVESTOCK EQUIPMENT COSTS 1.36 1.59 2.09 31 BUILDINGS & FENCES 1.39 1.39 1.67 32 TOTAL ALLOCATED COSTS 3.58 3.84 4.85 33 RETURN OVER ALL LISTED COSTS \$ 3.59 \$ 12.73 \$ (-15.58) 34 SUPPLEMENTARY MANAGEMENT INFORMATION 35 RETURN FOR \$100 FEED FED \$ 126.18 \$ 159.29 \$ 81.66 36 PRICE PER CWT. SOLD \$ 38.85 \$ 39.25 \$ 38.23 37 AVERAGE WEIGHT PER HEAD SOLD 1,063.3 1,075.8 1,099.7 38 PRICE PER CWT. BOUGHT \$ 39.44 \$ 37.24 \$ 41.14 39 AVERAGE WEIGHT PER HEAD BOUGHT 577.9 602.3 570.6 40 NUMBER OF HEAD BOUGHT 215 294 77 41 PERCENT DEATH LOSS .8 .8 .6	27	RET OVER FEED & OTHER DIRECT COSTS	\$	7.17	\$	16.57	\$	(-10.73)
34 SUPPLEMENTARY MANAGEMENT INFORMATION 35 RETURN FOR \$100 FEED FED \$ 126.18 \$ 159.29 \$ 81.66 36 PRICE PER CWT. SOLD \$ 38.85 \$ 39.25 \$ 38.23 37 AVERAGE WEIGHT PER HEAD SOLD 1,063.3 1,075.8 1,099.7 38 PRICE PER CWT. BOUGHT \$ 39.44 \$ 37.24 \$ 41.14 39 AVERAGE WEIGHT PER HEAD BOUGHT 577.9 602.3 570.6 40 NUMBER OF HEAD BOUGHT 215 294 77 41 PERCENT DEATH LOSS .8 .8 .6	29 30 31	POWER & MACHINERY COSTS LIVESTOCK EQUIPMENT COSTS BUILDINGS & FENCES	Ş	1.36 1.39	\$	1.59 1.39	\$	2.09 1.67
35 RETURN FOR \$100 FEED FED \$ 126.18 \$ 159.29 \$ 81.66 36 PRICE PER CWT. SOLD \$ 38.85 \$ 39.25 \$ 38.23 37 AVERAGE WEIGHT PER HEAD SOLD 1,063.3 1,075.8 1,099.7 38 PRICE PER CWT. BOUGHT \$ 39.44 \$ 37.24 \$ 41.14 39 AVERAGE WEIGHT PER HEAD BOUGHT 577.9 602.3 570.6 40 NUMBER OF HEAD BOUGHT 215 294 77 41 PERCENT DEATH LOSS .8 .8 .6	33	RETURN OVER ALL LISTED COSTS	\$	3.59	Ş	12.73	\$	(-15.58)
42 EFFECTIVE DAILY GAIN-LB/HEAD/DAY 1.72 1.81 1.35	35 36 37 38 39 40 41	RETURN FOR \$100 FEED FED PRICE PER CWT. SOLD AVERAGE WEIGHT PER HEAD SOLD PRICE PER CWT. BOUGHT AVERAGE WEIGHT PER HEAD BOUGHT NUMBER OF HEAD BOUGHT	\$ \$	38.85 1,063.3 39.44 577.9 215	\$	39.25 1,075.8 37.24 602.3 294	\$	38.23 1,099.7 41.14 570.6 77
42EFFECTIVE DATEL GATAL CATAL LISTED COST/CWT. PRODUCED\$ 39.74\$ 36.17\$ 55.5543TOTAL LISTED COST/CWT. PRODUCED\$ 39.74\$ 36.17\$ 55.55			\$		\$		\$	

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

\underline{TA}	BLE 16A-6670 - COST AND RETURNS FROM SHEEP, FARM, FLOCK, COMMERCIAL	- 1	977
			Average of
	EMS		8 Farms
1	AVERAGE NUMBER OF EWES		50.4
2 3	POUNDS OF LAMB & MUTTON PRODUCED POUNDS OF WOOL PRODUCED		5,330 771
4	VALUE OF PRODUCE		Per Ewe
	WOOL	\$	10.36
5 6	NET INCREASE IN VALUE OF ANIMALS	ş	73.63
7	OTHER MISCELLANEOUS SHEEP INCOME		4.70
8	TOTAL VALUE PRODUCED	\$	88.69
		ę	00.09
9	POUNDS OF FEED FED		
10	GRAIN		514.6
11	PROTEIN, SALT & MINERAL		26.0
12	LEGUME HAY		1,012.9
13	OTHER HAY & DRY ROUGHAGE		
14	SILAGE		168.7
15	FEED COST		01 01
16	GRAIN		21.21
17	PROTEIN, SALT & MINERAL		2.82
18	LEGUME HAY		24.27
19	OTHER HAY & DRY ROUGHAGE		1 0 5
20	SILAGE		1.25
21	PASTURE	ć	4.56
22	TOTAL FEED COSTS	\$	54.11
23	RETURN OVER FEED COSTS	\$	34.58
24	OTHER DIRECT COSTS		
25	MISCELLANEOUS LIVESTOCK EXPENSE		3.41
26	VETERINARY EXPENSE		1.17
27	CUSTOM WORK		1.15
28	SPECIAL HIRED LABOR		.26
29	TOTAL OTHER DIRECT COSTS	\$	5.99
30	RETURN OVER FEED AND OTHER DIRECT COSTS	\$	28.59
31	ALLOCATED COSTS		
32	POWER & MACHINERY COSTS		10.55
33	LIVESTOCK EQUIPMENT COSTS		14.80
34	BUILDING & FENCES		6.67
35	TOTAL ALLOCATED COSTS	\$	32.02
36	RETURN OVER ALL LISTED COSTS	\$	(-3.43)
37	SUPPLEMENTARY MANAGEMENT INFORMATION		
38	RETURN FOR \$100 FEED FED	\$	163.92
39	PRICE PER CWT. LAMB & MUTTON SOLD	\$	61.77
40	PRICE PER CWT. LAMB SOLD OR TRANSFERRED	Ş	48.32
41	AVERAGE WEIGHT OR LAMBS SOLD OR TRANSFERRED		103.2
42	POUNDS OF WOOL PER SHEEP SHEARED		7.6
43	NUMBER OF EWES KEPT FOR LAMBING		58
44	PERCENT LAMB CROP		119.0
45	PERCENT DEATH LOSS	ę	12.4
46	TOTAL LISTED COSTS PER EWE	\$	92.12

Southwestern Minnesota Farm Management Association 1977 County Averages

County	S.W. Assn.	Cottonwood	Jackson	Martin Faribault Watonwan	Pipestone Murray	Nobles	Redwood
Number of Farms	169	28	16	32	28	35	30
Size of farm acres total	501	496	516	400	545	472	600
Tillable acres	447	452	480	366	478	430	503
Farm capital invested /worker	\$205 099	\$262210	\$217991	\$194748	\$167564	\$169386	\$232657
Total farm capital 12/31	365498	393573	418938	348416	344446	334723	384567
Increase in farm capital 1/1 - 12/31	\$ 30014	\$24828	\$ 35578	\$ 15540	\$34809	\$ 33472	\$ 38815
Total farm receipts	179568	199229	195450	158005	182120	178214	174948
Total farm expense	150261	171007	164880	128937	156742	150112	139975
Return to labor & management	29307	28222	30570	29068	25378	28102	34973
Total cash living expense	\$ 11249	\$ 12695	\$ 14383	\$ 11781	\$ 9025	\$ 11480	\$ 9608
Total household & personal living expenses	20685	27494	19221	21523	18303	19178	16072
Farmers net worth 12/31	176835	122230	218233	172014	183178	120710	186948
Gain in net worth	21884	17119	18606	18022	33296	15978	28655
Ratio of assets to liabilities 12/31	2.417	2,670	2,682	2,301	2.422	1,981	2.673
Operators share - return to labor & mgt.	\$ 22935	\$ 19761	\$ 14810	\$_21473	\$ 23184	\$ 20454	\$ 32287
Return to capital & family labor	30096	27354	25513	27746	32559	25013	39414
Oats yield per acre (bu.)	82.6	87.8	85.3	86.1	78.7	79.9	85.0
Total crop return per acre (\$1.04)	\$ 89.08	\$101.32	\$ 88.03	\$ 88.63	\$ 83.42	\$ 81.95	\$ 98.74
Return over all listed costs per acre	-18.59	-22.11	-46.31	-48.53	-2.68	-22.40	55
Cost of production per bu.	1.30	1.41	1.57	1.59	1.09	1.31	1.17
Wheat yield per acre (bu,)	54.3	61.6	58.2	40.9	55.1	52.0	53-9
Total crop return per acre (\$2.28)	\$127.99	\$145.82	\$131.66	\$ 89.95	\$122.77	\$116.58	\$135.02
Return over all listed costs per acre	16.83	27.98	-6.08	-45.27	26.19	8.20	33-34
Cost of production per bu.	2.05	1.91	2.37	3.31	1.75	2.09	1.89
Alfalfa hay yield per acre (tons)	3.4	2,6	3.7	4.8	2,7	3.8	3.4
Total crop return per acre (\$45)	\$155.67	\$125.78	\$168.00	\$217.94	\$121.70	\$170.93	\$167.37
Return over all listed costs per acre	19.42	-15.64	-7.29	52.73	9.99	36.83	43.29
Cost of production per ton	40.65	53.97	46.95	34.12	41.70	35.31	36.67
Corn silage yield per acre (tons)	14.4	14.2	14.8	18.2	13.3	13.7	14.9
Total crop return per acre (\$14)	\$211.22	\$210.74	\$207.41	\$254.60	\$158.40	\$212.71	\$225.19
Return over all listed costs per acre	53.13	42.68	3.76	39.35	58.11	49.85	66.31
Cost of production per ton	10.98	11.84	13.75	11.84	9.77	11.89	9.31

County	S.W. Assn.	Cottonwood	Jackson	Martin Faribault Watonwan	Pipestone Murray	Nobles	Redwood
Corn yield per acre (bu.)	105.5	116.9	103.7	116.1	96.1	97.5	106.5
Total crop return per acre (\$1.69)	\$182.94	\$218.05	\$165.88	\$186.04	\$158.07	\$156.23	\$214.08
Fertilizer (cost per acre)	27.18	31.38	32.43	41.67	20.63	18.69	23.74
Chemicals	11.63	12.46	12.15	13.77	10.32	12.19	9.09
Seco & other	16.13	17.35	17.41	18.08	12.74	16.30	15.54
Justom work hired	3.00	1.90	6.04	3.49	3.44	2.14	2.29
Jachinery - ownership	21.66	20.77	23.11	23.32	19.97	22.06	21.05
fachinery - operation	15.68	16.63	14.90	17.65	14.73	15.09	15.12
Interest on machinery	4.74	4.68	4.33	5.20	4.73	5.21	3.99
Land cost	66.89	75.00	74.69	84.68	47.83	63.43	59.84
leturn over all listed costs	15.67	36.90	-19.18	-21.89	23.58	1.04	62.43
Cost of production per bu.	1.58	1.55	1.79	1.79	1.40	1.59	1.42
Soybean yield per acre (bu.)	39.1	43.1	36.7	43.0	35.1	35.1	39.8
Potal crop return per acre (\$5.00)	\$199.71	\$225.71	\$183.62	\$217.31	\$177.05	\$175.40	\$210.47
Pertilizer (costs per acre)	1.42	•90	1.29	2.98	•86	•86	1.59
Chemicals	9.66	10.58	8.49	10.02	10.41	9.30	9.05
Seed & other	10.99	8.90	11.31	14.09	10.96	9.68	11.51
Special hired labor	1.25	1.67	1.92	.65	.71	.35	2.23
Custom work hired	2.14	1.38	5.08	1.97	2.02	1.58	1.93
Machinery - ownership	17.66	17.81	17.06	19.52	15.81	16.88	18.23
Machinery - operation	12.71	13.50	11.82	14.34	12.57	11.57	12.38
Interest on machinery	3.76	4.13	3.20	4.21	3.86	3.83	3.25
Land cost	68.33	75.00	75.00	85.76	49.35	64.12	59.03
Return over all listed costs	71.68	91.43	48.45	63.77	70.50	57.23	91.09
Cost of production per bu.	3.28	3.11	3.68	3.57	3.03	3.37	3.00
RETURN OVER LISTED COSTS		·					
logs -farrow - finish per cwt	\$ 12.11	\$ 11.61	\$ 13.20	\$ 11.73	\$ 13.27	\$ 11.07	\$ 12.59
Dairy cows per head	309.98	316.94	*	301.04		349.84	*
Beef cows per head	-46.44	.6.52	×	-85-55	-70.89	-78.52	-38.44
Beef feeders per cwt	3.59	4.03	2.21	24	7.80	3.73	2,20
TOTAL LISTED COST PER UNIT PRODUCED	4 mà	A =0 ===	à an a-	A	A BC C C		A 07 07
Hogs - farrow - finish per cwt	\$ 28.75	\$ 28.10	\$ 28.03	\$ 27.11	\$ 29.99	\$ 31.41	\$ 27.21
Dairy cows per cwt milk	6.28	6.15	*	6.43	6.41	6.10	*
Beef cows per head	218.04	188.65	*	263.00	300.98	205.83	176.14
Beef feeders per cwt	39.74	37.57	41.44	41.64	36.98	41.28	40.94

Southwestern Minnesota Farm Management Association 1977 Averages by Type of Farm

			Cash		Cash Crops	
TUPN	Average		Crop	Cash Crop	Plus Beef	Plus Beef
ITEM	A11	Cash	Plus	Plus Hog	Feeder	Feeder
	Farms	Crop	Dairy	Complete	Hogs	Cattle
Number of farms	169	40	13	38	11	16
Land						
Acres per farm	50 1	513	438	515	571	654
Acres tillable	447	468	396	466	486	565°
% tillable in high return crops	83.5	88.4	79.9	87.8	75.0	80.1
% tillable in corn & corn silage	47.3	41.6	44.2	46.6	47.0	46.5
% tillable in soybeans	34.3	42.4	26.9	37	25.0	31.4
% tillable in alfalfa	4.9	1.8	15.3	1.9	7.8	3.2
Labor						
Number of workers	1.77	1.47	2.19	1.72	1.57	2.12
Total work units	515	300	664	483	589	549
Work units in crops	219	224	206	229	245	274
Work units in livestock	257	29	429	222	317	226
Units per worker	291	204	303	281	375	259
Capital						
Average farm capital managed	350,491	292,197	304,638	370,448	412,714	442,170
Capital managed per worker	198,018	189,263	142,613	218,500	289,842	237,918
Earnings				**************************************		<u></u>
Net cash income	29,847	24,652	31,865	27,437	31,646	24,394
Labor and management earnings	29,307	25,680	26,759	35,279	37,972	30 ,359
Rate earned on investment whole farm (%)	11.6	11.5	11.6	12.9	12.9	12.9
Total farm sales	146,894	82,693	105,905	139,579	195,704	208 ,93 3
Total value added	91,114	72,036	88,938	101,733	108,994	103,814
Proportion of Sales				-		
From livestock	27.1	1.7	32.5	29.2	31.1	18.3
From crops	69.8	94.9	64.9	68.0	66.6	78.5
Expenses						
Cash exp./\$100 sales	65	47	56	55	72	76
Purchases/\$100 sales	85	62	87	78	89	91
Yields						
Corn/bu.	105.5	110.3	104.2	105.2	105.2	105.2
Soybeans/bu.	39.1	38.9	36.4	39.4	38.7	39.9
Alfalfa/ton	3.4	3.3	3.5	3.1	2.8	4.2
Corn silage/ton	14.4	15.5	16.7	13.9	12.2	15.2

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Summary by Years

ITEMS	Average 1955 - 59	Average 1960 - 64	Average 1965 - 69	Average 1970 - 74	1972	1973	1974	1975	1976	1977
Number of farms	135	135	145	146	156	144	145	140	124	169
Total farm capital managed	\$75246	\$99907	\$138418	\$205954	208980	\$257743	\$308466	\$313913	\$331851	\$350491
Monthly charge for:							-			
Unpaid family labor a/	134	147	160	390	300	350 <u>d/</u>	400	459	599	500
Second operatora/	134	167	295	$\frac{d}{d}$	600		$\frac{d}{d}$	<u>d</u> /	$\frac{d}{d}$	833
Board for hired labor ^a /	38	40	45	69	60	75	90	120	130	120
FARM EXPENSES										
Dairy cattle bought	\$ 151	\$ 146	\$ 157	\$	\$ 746	\$ 605	\$ 782	\$ 403	\$	\$ 719
Beef cattle bought	7619	11153	13576	. 24804	. 26764	33917	21197	21073	24419	25879
Hogs bought	473	723	901	1542	1818	2208	1702	3294	3058	3098
Sheep bought (incl. feeders)	517	69	51	20	8	31	40	18	52	90
Poultry bought (incl. turkeys		244	186	358	231	458	564	660	863	1169
Horses bought	5	3	2	9	8	9	14	7	10	2
Miscellaneous livestock expen	.se 525	592	778	1401	1345	1699	1783	2156	2726	2539
Fertilizer bought	906	1223	2566	5457	3985	6256	9458	8727	6967	6602
Miscellaneous crop expenses b/	908	1184	2602	5697	4844	6930	8423	8768	7283	9465
Feed bought	5503	7225	8589	13002	10337	17768	18169	20120	24350	24390
Custom work hired	694	874	1221	1928	1835	2000	2467	2556	2206	2687
Power, crop & irrig.equip. (n	ew)1891	2057	4431	8290	6741	10972	12137	12761	11990	12963
Power & crop machinery (upkee	p) 2200	2718	3587	5519	4953	6310	7316	7957	7558	8373
Livestock equipment (new)	327	415	590	1334	991	1682	2648	1880	3203	1934
Livestock equipment (upkeep)	194	207	254	473	421	596	575	757	866	922
New real estate & improvement	s 832	1018	1670	3555	3140	4665	5605	6693	4519	14257
Buildings and fencing (upkeep) 320	.338	434	799	624	998	1072	1269	1318	1139
Hired Labor	993	1092	1436	2592	2381	3228	3208	3832	3655	3176
Taxes	910	1449	1898	2625	2613	2701	2742	3178	3089	3582
Gen. farm exp. & telephone	364	430	594	1005	905	1119	1319	1541	1819	1793
Total farm purchases	\$25557	33160	45523	80946	74690	104152	101221	107650	110344	124576
Decrease in farm capital	-	-	-	<u> </u>	-	-	3418	-	1666	-
Interest on farm capital ^{C/}	3762	4991	7372	14174	12539	15465	21592	21974	23230	21029
Unpd fam lab + oper over one	379	500	652	3326	1284	8179	5244	4156	2498	2232
Board furnished hired labor	92	82	84	150	110	176	206	189	155	217
Total farm expense	\$ 29790	\$ <u>38733</u>	\$ 53631	\$ 98596	\$ 88623	\$ 127972	\$131681	\$ 133969	\$ 137893	\$ 150261

a/ These adjustments should be considered in comparing 1976 with previous years.

 $\overline{\mathbf{b}}$ / Includes chemicals.

<u>c</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% in 1970-3, and at 7% in 1974-76.

d/ Labor earnings were divided between the various partners.

Summary by Years (continued)

ITEMS	Average 1955-59	Average 1960-64	Average 1965-69	Average 1970-74	1972	1973	1974	1975	1976	1977
FARM RECEIPTS										
Dairy cattle sold	\$ 585	\$ 563	\$	\$ 1787	\$ 2075	\$ 195 8	\$ 2665	\$ 2438	\$ 239 1	\$ 2694
Dairy products sold	1450	1888	3244	5914	4891	6464	8075	7607	8996	8074
Beef cattle sold	13025	20180	239 94	43593	36866	54096	54426	43137	46808	46380
Hogs sold	7158	8431	12206	18760	16461	26762	27113	34326	34551	32204
Sheep and wool sold	981	263	182	113	96	168	98	128	265	267
Poultry (incl. turkeys) sold	530	505	388	1210	975	2229	1725	2516	2629	2663
Eggs sold	1013	1074	871	1011	761	1250	116 1	1234	1683	3073
Horses sold	5	4	1	2	~ 1	3	- 3	-	2	5
Corn sold	3149	3401	5585	14843	10049	19099	27025	22319	14561	16359
Soybeans sold	-	-	4217	12489	9 26 0	15284	23555	19132	21973	25512
Small grain sold ,	807	882	575	783	395	648	1770	1908	2683	3 37 4
Other crops sold $\underline{a}^{/}$	1759	3855	3681	3408	5460	3155	1509	1683	3097	980
Machinery & equipment sold a	nd									
gas tax refund	266	373	431	646	587	771	965	702	1179	972
Agricultural adjustment paym	ent 44	43	7	-		-	-	-	-	
Income from work off the far		396	742	1194	1194	1176	1587	1352	1370	1518
Miscellaneous farm income	306	386	813	1470	1253	1593	2606	3482	3510	2818
Total farm sales	\$ 31476	\$ 42244	\$ 577 27	\$ 107223	\$ 90324	\$134656	\$154283	\$141964	\$144798	\$146894
Increase in farm capital	. 1157	1205	6390	15439	23969	46257	 ·	9624	-	30,014
Family living from the farm	278	288	293	416	354	547	535	503	501	454
Total farm receipts	\$ 32911	\$ 43737	\$ 64410	\$123078	\$114647	\$181460	\$154818	\$ 152091	\$ <u>145299</u>	\$179568
Total farm expenses	29790	38733	53631	98596	88623	127972	131681	133969	137893	150261
Labor earnings	\$ 3121	\$ 5004	\$ 10779	\$ 24482	\$ 26024	\$ 53488	\$ 23137	\$ 18122	\$ 7406	\$ 29307
MEASURES OF FARM ORGANIZATIO	N AND MAN	AGEMENT E	FFICIENCY							
Percent land in high ret. crops		68.1	67.2	70.5	70.7	70.8	70.7	69.6	64.8	83.5
Livestock units per 100 acre		43.0	36.5	38.5	37.7	40.3	39,5	36.4	40.4	34.9
Work units 4/	469	533	498	483	460	522	542	515	531	515
Work units per worker $\frac{d}{d}$	279	318	3 03	276	270	285	301	287	312	291
Expenses per work unit ^d /	\$12.81	\$13.42	\$20.31	\$35.82	\$34.65	\$40.29	\$43.36	\$52.82	\$52.14	52.17

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

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

c/ The basis for computing animal units was revised in 1951.

 \overline{d} / 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	1972	1973	1974	1975	1976	1977
RETURN ABOVE FEED COST PER										
Dairy cow	\$125 . 34	\$140.97	\$226.79	\$330.58	\$331.38	\$371.53	\$303.48	\$301.13	\$523.31	\$583.30
100 lbs. feeder cattle prod.	5.88	1.94	5.74	2.91	12.26	7.54	-21.16	8.77	-7.43	8.99
Ewe	*	6.80	10.24	8.85	11.67	13.34	-1.63	4.56	12.99	34.58
100 lbs. hogs produced	4.52	4.28	8.71	10.41	14.63	20.53	7.28	22.95	11.95	17.20
Hen	1.05	.91	.78	1.04	- .04	2.08	2.82	1.10	2.98	. –
Beef cow	*	*	*	33.63	106.38	106.05	-138.58	-77.73	-46.45	18.78
FEED COST PER										
Dairy cow	\$ 147 .40	\$181.72	\$ 232. 80	\$342.83	\$ 257. 28	\$391.42	\$556.89	\$590.41	\$634.35	\$525 . 36
100 lbs. feeder cattle prod.	17.70	18.32	20.28	28.37	20.45	30.90	46.09	46.49	44.94	34.34
Ewe	*	13.42	16.58	26.45	23.20	38.14	28.37	22.32	46.76	54.11
100 lbs. hogs produced	10.48	10.65	12.31	17.37	13.73	20.89	25.44	26.68	23.96	23.14
Hen	3.89	2.45	3.51	3.75	3.19	4.44	4.32	4.29	5.37	-
Beef cow	*	*	*	116.30	81.99	132.91	162.25	198.50	198.62	152.82
MISCELLANEOUS LIVESTOCK INFO	RMATION					•		-		
Number of dairy cows $\frac{a}{}$	5.2	5.7	6.8	8.8	8.4	9.0	9.4	8.6	8.1	7.6
Hand in boof broading bord a	/ , 10.6	4.9	7.1	11.9	12.3	13.6	13.6	14.1	7.0	13.4
Pounds of feeder cattle prod Litters of pigs $\frac{a}{2}$	<u>.^{a/} 37685</u>	41929	46386	59187	59416	64272	55990	44630	58323	51479
Litters of pigs $\frac{a}{a}$	24.6	28.0	28.8	34.1	33.4	36.6	36.4	35.9	38.8	44.8
Pounds of hogs produced $\underline{a}/$	44369	52828	55947	61096	54435	68052	72927	68451	75048	68002
Number of hens <u>a</u> /	204	219	174	165	173	153	142	144	170	-
Pounds of butterfat per dairy		349	387	409	411	411	405	427	448	453
Pigs weaned per litter	7.2	7.0	7.4	7.3	7.3	7.3	7.5	7.5	8.0	8.0
Percent lamb crop	111	103	111	105	102	108	102	83	124	119
Eggs per hen	200	208	208	218	236	207	221	189	244	- "

* 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 23). Thus, these 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 decreasing, the number of litters being farrowed is increasing, etc., in the general area covered by the Southwest Minnesota Farm Management Association. Method of calculation changed slightly in 1977.

Summary	of	Miscellaneous	Items	by	Years

Item	Average 1955-59	Average 1960 - 64	Average 1965-69	Average 1970-74	1972	1973	1974	1975	1976	1977
	777-77	1900-04	1703-09				· · · · · · · · · · · · · · · · · · ·			
PRICE RECEIVED PER	o 01	<u>م</u> ٥/	\$ 1 . 19	\$ 1 . 64	\$ 1.45	\$ 1 . 77	\$ 2.11	\$ 2.16	\$ 2.49	\$ 2 . 46
Pound of butterfat in milk	\$.91	\$.94	25.32	35.53	34.50	42.76	40.44	40.95	37.07	38.85
100 pounds of fat cattle	22.51	22.86		.72	.97	1.02	.41	.28	.63	1.36
Pound of wool	.51	.58	.54		.20	.42	.42	.34	.47	-
Dozen of eggs	.29	.27	.27	.31 27.97	25.71	36.69	34.56	47.41	42.21	40.45
100 pounds of hogs sold	15.96	15.45	20.90	27.97	23.71	20.09	54.50	4/041	46.21	40.43
PRICE OF FEED									o (-	2 00
Corn, bu.	1.11	.99	1.10	1.57	1.08	1.70	2.75	2.65	2.45	2.00
Oats, bu.	.59	.61	.62	.83	.65	.90	1.40	1.45	1.45	1.20
Barley, bu.	.92	.91	.97	1.05 <u>c</u> /	.92	1.55	•	-		-
Alfalfa hay, ton	18.20	19.40	20.80	26.20	, 21.00	30.00	40.00	60.00	70.00	55.00
Timothy hay	10.58	11.22	12.00	10.70 <u>c</u> /		18.70	-	-	-	-
Corn silage, ton	6.08	6.60	7.36	9.15	7.25	10.00	14.00	20.00	22.00	16.00
ACRES PER FARM										
Small grains	48.8	39.5	27.1	24.2	15.8	22.8	30.8	29.2	55.5	45.3
Cultivated crops	153.7	187.0	251.5	331.2	309.2	370.7	391.2	391.7	350.5	376.0
Tillable land in hay	34.9	31.0	27.5	22.9	21.1	23.4	24.9	25.3	26.5	22.0
Tillable land in pasture	13.2	6.8	4.5	, 3.6	, 3.5	3.2	3.4	3.6	4.9	4.4
Tillable land not cropped	2.2	25.9	<u>a/ 44.1</u>	<u>a/ 33.9.a/</u>	67.7	a/ 9.8.a	./ 1.6	1.3	1.0	<u>-0.8 d</u> /
	252.8	290.2	354.7	415.8	417.3	429.9	451.9	451.1	438.4	446.9
Total tillable land	40.5	44.6	48.5	55.9	57.7	55.8	59.1	60.9	53.4	54.3
Non-tillable land	293.3	334.8	403.2	$\frac{33.5}{471.7}$	475.0	485.7	511.0	512.0	491.8	501.2
Total acres per farm	293.3	554.0	403.2		47580	105.1	2			
YIELD PER ACRE		10.0	10 1	1r ob	/ 17 F			-	9.5	-
Flax, bu	13.0	13.6	16.4	15.8 b/		- 77 0	- 72 0	74.8	57.8	82.6
Oats, bu.	51.7	54.8	61.1	71.0	75.1	77.2	73.0	74.0	57.6	105.5
Corn grain, bu.	57.1	71.3	84.3	91.7	107.4	95.4	67.8			105.5
Corn silage, tons	9.7	11.8	13.1	15.1	16.6	16.1	12.0	12.2	9.6	
Soybeans, bu.	22.5	25.5	25.4	31.9	37.2	32.6	27.9	33.5	24.4	39.1
Alfalfa hay, tons	2.5	3.0	3.1	3.7	4.2	3.6	3.6	3.6	2.1	3.4

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 $\frac{a}{b}$ Including feed grain program $\frac{b}{3}$ -year average $\frac{c}{4}$ -year average $\frac{d}{b}$ Negative sign means that area double cropped exceeded area not cropped by the amount shown.