

1978 Annual Report Northeast and East Central Minnesota Report No. 23 April, 1979

AN ADULT EDUCATIONAL PROGRAM

In cooperation with: Minnesota Department of Education, Vocational Division; University of Minn. Agricultural Education Department; Staples Area Vocational Technical Institute, Staples Minn.

1978 REPORT OF THE VOCATIONAL AGRICULTURE FARM MANAGEMENT PROGRAM IN NORTHEASTERN AND EAST CENTRAL MINNESOTA William E. Guelker Area Vo-Ag Program Coordinator

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	HAVE YOU CHECKED YOUR GOALS LATELY	
	HAAT 100 CHECKED 120K GOVED BULLEDT	
	WINT DOLD TOOK TRUTES WHILE	
	MONEY SPENT BY THE AVERAGE AREA FARMER	

COLOR CODE EXPLANATION

This farm management summary is color coded for your convenience. Each color refers to a specific area.

WHITE	• INTRODUCTION & MISCELLANEOUS INFORMATION
GOLDENROD	. WHOLE FARM tables include both the landlord and the operator's inventory income and expenses.
BLUE	. OPERATOR'S tables include inventories, income and expenses for the operator only. All landlord information is excluded from these tables.
PINK	. CROP tables include the information for all crops grown on whole farm basis.
GREEN	. LIVESTOCK tables includes the information for all livestock enterprises and is listed on a whole farm basis.

INTRODUCTION

The Minnesota Vocational Agriculture Farm Management Program is available to all Minnesota farmers through their local Vocational Agricultural Instructor.

The basic plan available to farmers, is an annual analysis program (adequate for the majority of farmers).

For a cost of about \$50.00, the farmer receives a computerized depreciation schedule, and a very complete enterprise analysis of his farming operation. In addition he will be working with a Farm Management Instructor who teaches him basic accounting procedures and helps him to budget, interpret his analysis, and plan his operation and his credit needs. The "Ag Man" also helps him keep up with the latest agricultural developments. In short, the "Ag Man" helps the farmer to get the most out of his farm and himself.

In keeping with the times and to speed the analysis procedure, automatic data processing methods are used. Data is extracted from the individual farm record books at the Staples and satellite analysis centers and submitted to Specialized Data Systems at Madison, Wisconsin for processing by computer. Results are returned to the farmar as soon as the analysis is completed. Averages and indexes found in this record are computed after all Data forms have been processed.

The Staples Area Vocational-Technical Institute, in cooperation with the University of Minnesota and the Vocational Division of the Minnesota State Department of Education, is charged with the responsibility for operation and maintenance of the Vocational Agriculture Farm Management Program in Northeastern & East Central Minnesota. This 1978 report represents the twenty-third annual report for most of this area.

The report and analysis of records were completed under the direction of William E. Guelker, Area VoAg Coordinator at the Staples Area Vocational-Technical Institute. Clerical assistance was provided by Lorraine Anderson, Estelle Anderson, Alice Hogberg, Donna Korfe, Esther Johnson, Alice Lindahl, and Tom Schultz. In addition some Ag Instructors completed their own Data Forms with local secretarial help.

Directing locally in a supervisory capacity were: Dr. Duane Lund, Superintendent of Staples Public Schools and Mr. Mike Matanich, Director of the Staples Area Vocational-Technical Institute.

Cooperating agencies were represented by: Mr. Paul Day, Mr. Odell Bardusen, Mr. David McCullough, and Mr. Robert M. Madson of the Vocational Division, State Department of Education, and Dr. R. Paul Marvin, and Dr. Edgar Persons, of the Agriculture Education Department of the University of Minnesota.

SOURCH OF FARM RECORD ANALYSIS FOR 1078 FARM BUSINESS SUMMARIES FOR THE NORTHEASTERN & EAST CENTRAL MINNESOTA AREA

Class Location	Instructor	Percen Adult	t of Time Veterans	Records Processed
Aitkin	Russell Ruud		100	10
Bagley Bagley	Ken Ostlund Bill Wendlandt	100	100	29 21
Barnum	Tom Hassett		100	18
Bemidji Bemidji	Steve Ziegler Jim Sackett	100	100	22 28
Brainerd	Tom Harper & Bill Gould		100	10
Cherry	Ed Takala	50		17
Cronwell	Gordon McVay		100	6
Lagle Bend	Larry DeWald		100	15
Foley Foley	Lee Mesko Kenneth Johnson	100	100	7 25
Little Falls Little Falls	Wallace Payne Arthur Tonn		100 100	23 19
Long Prairie Long Prairie	Robert Johnson Lloyd Lane	80	100	25 22
Milaca	John R. Larson	100		33
Northome	Bob Johnson		100	15
Osakis	Leland Wilkin	75		23
Park Rapids	Wendell Francis		100	11
Pierz	Ben Jorgenson	100		17
Pine City	Arvid Anderson	100		25
Pine City	Ray Collen		100	14
Princeton	Wes Wankel	50	50	26
Sebeka	Delbert Harrington	60		14
Sebeka	Cliff Gustafson		100	10
Staples	Don Eikmeier		100	16
Staples	DelRay Lecy	50 100		6 2.2
Staples	Len Maley	100	100	14
Wadena	William Fischer	100	70.0	± (36
Woodland Center Woodland Center	Robert Anderson Bill Ladwig	100 100		32
Willow River	E. B. Prachar	50	50	14
WELLOW ALLOU			m .	

Total 625

Records this year for the 15th time were analyzed by electronic data processing with the work being done by Specialized Data Systems at Madison, Wisconsin.

TABLE 1 - SUMMARY OF FARM INVENTORIES - 1978	(WHOLE FARM)
	AVERAGE OF 291 FARMS
1 SIZE OF FARM-TOTAL ACRES	334.8
2 -TILLABLE ACRES	190.4
3 WORK UNITS-CROPS	85.92
4 -LIVESTOCK	218.19
5 –OTHER	14.87
6 TOTAL SIZE OF BUSINESS IN WORK UNITS	
7 NUMBER OF WORKERS	1.41
8 FARM CAPITAL INVESTMENT PER WORKER	\$ 88493
o ima onitimi inviorimai ipic solucie	φ σσ σσ σσ
	JAN. 1 DEC. 31
9 PRODUCTIVE LIVESTOCK	
10 DAIRY COWS	11569 15235
11 OTHER DAIRY CATTLE	5474 9130
12 BEEF BREEDING CATTLE	2532 4063
13 BEEF FEEDER CATTLE	776 1710
14 HOGS	1631 2365
15 SHEEP (INCLUDING FEEDERS) & GOATS	112 133
16 POULTRY-ALL TYPES	5 5
17 OTHER LIVESTOCK	42 85
18 TOTAL PRODUCTIVE LIVESTOCK	\$ 22141 \$ 32725 *
19 CROP, SEED & FEED	10631 12947
20 POWER, MACHINERY & EQUIPMENT	
21 AUTO & TRUCK (FARM SHARE)	1447 1664
22 POWER & MACHINERY	14128 18419
23 IRRIGATION EQUIPMENT	1860 2193
24 CUSTOM WORK EQUIPMENT	59 97
25 LIVESTOCK EQUIPMENT	4255 5495
26 TOTAL POWER, MACHINERY & EQUIPMENT	
	,
27 LAND	38920 40817
28 BUILDINGS-FENCES-ETC.	18350 22214
29 TOTAL FARM CAPITAL	\$ 111792 \$ 136570 *
30 INCREASE OR DECREASE IN TOTAL FARM CAPITA	AL \$ 24778 *

Table 1 lists the categories of farm capital for the average of 291 farms and for the 58 most profitable and 58 least profitable farms. These averages include the landlords share of the investment for rental farms.

Livestock, Crops, Seed and Feed reflect a conservative market price at the time the inventory is taken.

Machinery, equipment, and building values reflect cost less depreciation.

	LE 1 - SUMMARY OF FARM INVENTORIES - 1978	MOST PROFITABLE FARMS 58 HIGH	5
2	SIZE OF FARMTOTAL ACRES TILLABLE ACRES	448.5 272.4 129.67	
4	WORK UNITSCROPS LIVESTOCK	392.73 14.66	
5 6	OTHER TOTAL SIZE OF BUSINESS IN WORK UNITS	537.06	
7 8	NUMBER OF WORKERS FARM CAPITAL INVESTMENT PER WORKER	1.68 \$ 131078	
		JAN. 1	DEC. 31
9	PRODUCTIVE LIVESTOCK	20644	29192
10 11	DAIRY COWS OTHER DAIRY CATTLE	12277	20704
12	BEEF BREEDING CATTLE	1981	3915 6123
13 14	BEEF FEEDER CATTLE HOGS	2992 1173	1873
15	SHEEP (INCLUDING FEEDERS) & GOATS	3	3
16 17	POULTRY-ALL TYPES OTHER LIVESTOCK	32	32
18	TOTAL PRODUCTIVE LIVESTOCK ,	39102	61841 *
19	CROP, SEED & FEED	21153	26350
20	POWER, MACHINERY & EQUIPMENT	1694	1849
21 22	AUTO & TRUCK (FARM SHARE) POWER & MACHINERY	23393	28849
23	IRRIGATION EQUIPMENT	876	793
	CUSTOM WORK EQUIPMENT	297 9212	486 10496
25 26	LIVESTOCK EQUIPMENT TOTAL POWER, MACHINERY & EQUIP.	\$ 35474 \$	42473 *
27	LAND	54626	56364
28	BUILDINGS-FENCES-ETC.	28156	34611
29	TOTAL FARM CAPITAL	\$ 178510 \$	221640 *
30	INCREASE OR DECREASE IN TOTAL FARM CAPITAL	\$	43129 *
	_ ***		

TABLE 1 - SUMMARY OF FARM INVENTORIES - 1978

Work units provide a measure of the work load as an indication of size. Some clue to the farm organization is indicated by the distribution of work between crops and livestock.

The number of workers listed on line 7 includes the operator(s), hired labor, and unpaid family labor as well as the labor portion of custom work hired.

TAE	BLE 1 - SUMMARY OF FARM INVENTORIES - 1978		
		LEAST PROFITA 58 LOW	BLE FARMS
	SIZE OF FARM-TOTAL ACRES	278.3	
2	-TILLABLE ACRES	149.5	
3 4	WORK UNITS -CROPS	67.39	
4 5	-LIVESTOCK -OTHER	115.29 8.50	
	TOTAL SIZE OF BUSINESS IN WORK UNITS		
	NUMBER OF WORKERS	1.29	
8	FARM CAPITAL INVESTMENT PER WORKER	1.29 \$ 77731	
		<u>JAN. 1</u>	DEC. 31
9	PRODUCTIVE LIVESTOCK		
10	DAIRY COWS	6200	7956
11	OTHER DAIRY CATTLE	2419	3606
	BEEF BREEDING CATTLE	1369	3081
	BEEF FEEDER CATTLE	359	337
L4	HOGS	1584	2307
15	SHEEP (INCLUDING FEEDERS) & GOATS	68	93
16 17	POULTRY-ALL TYPES OTHER LIVESTOCK	2	4 288
18	TOTAL PRODUCTIVE LIVESTOCK	94 \$ 12095	
10	IOTAL INODOCTIVE HIVESIOCK	Ş 12095	Ş 1/0/2 ···
19	CROPS, SEED & FEED	6452	6832
	POWER, MACHINERY & EQUIPMENT		
21	AUTO & TRUCK (FARM SHARE)	1333	1333
22	POWER & MACHINERY IRRIGATION EQUIPMENT CUSTOM WORK FOULPMENT	12424	14978
23	CUSTOM WORK EQUIPMENT	4032	5247
	LIVESTOCK EQUIPMENT	2259	3213
26	TOTAL POWER, MACHINERY & EQUIPMENT		\$ 24771 *
	LAND	41920	42590
28	BUILDINGS-FENCES-ETC.	15299	19562
29	TOTAL FARM CAPITAL	\$ 95815	\$ 111427 *
30	INCREASE OR DECREASE IN TOTAL FARM CAPITAL		\$ 15612 *

TABLE 1 - SUMMARY OF FARM INVENTORIES - 1978

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	LE 2A - WHOLE FARM SUMMARY OF CASH RECEIPTS	- 19/0				
		AVERAGE (DF			FARMS
	· · · · · · · · · · · · · · · · · · ·	291 FARMS	5	HIGH]	TOM
1	SALE OF LIVESTOCK & LIVESTOCK PRODUCTS					
2	DAIRY COWS	\$ 2823	\$	5464	\$	
3	DAIRY PRODUCTS	27397		56104		11437
4	OTHER DAIRY CATTLE	2154		5033		1133
5	BEEF BREEDING CATTLE	1656		1230		905
6	BEEF FEEDER CATTLE	1757		6728		384
7	HOGS COMPLETE & MIXED	705		1821		157
8	HOGS FINISHING	185		9		
9	HOGS PRODUCING WEANING PIGS	3617		1836		3169
10	SHEEP, GOATS & WOOL, FARM FLOCK	72				64
11	SHEEP & WOOL, FEEDER LAMBS					
12	CHICKENS (INCLUDING HENS & BROILERS)	14		22		43
13	TURKEYS					
14	EGGS	16		12		4
15	OTHER PRODUCTIVE LIVESTOCK & PRODUCTS	3		1		
16	OTHER MISCELLANEOUS LIVESTOCK INCOME	-				
10	OTHER MISCELLANEOUS LIVESTOCK INCOME					
17	TOTAL SALES OF PRODUCTIVE LIVESTOCK	\$ 40398	\$	78260	\$	18744 *
18	SALE OF CROPS					
19	WHEAT	90		170		54
20	OTHER SMALL GRAINS	362		408		296
21	CORN	1855		2824		2732
22	SOYBEANS	123		228		332
23	OTHER ROW CROPS	21		86		
24	LEGUMES & OTHER FORAGE	486		698		595
25	GRASS SEED					
26	FRUITS & NUTS					
27	VEGETABLE ROADSIDE MARKET & SPECIALTY	136				
28		131				181
29	SET ASIDE ACRES-GOVERNMENT PAYMENTS	140		179		207
30	TOTAL SALES FROM CROPS	\$ 3344	\$	4593	\$	4396 \$
31	CAPITAL ASSETS SOLD	683		595		6 36
32	GAS TAX REFUND	90		151		54
33	INCOME FROM WORK OFF THE FARM	825		1177		428
34	CUSTOM WORK ENTERPRISE INCOME	40		201		
35	PATRONAGE REFUNDS	298		787		56
36	MISCELLANEOUS FARM INCOME	1421		1287		1359
37	TOTAL FARM SALES	\$ 47099	\$	87050	\$	25673
38	INCREASE IN FARM CAPITAL	24968		43216		16316
39	FAMILY LIVING FROM THE FARM	609		973		316
	TOTAL FARM RECEIPTS (37)+(38)+(39)	\$ 72675	~	131239	\$	42304 :

TABLE 2A - WHOLE FARM SUMMARY OF CASH RECEIPTS - 1978

Table 2A provides a listing of the sources of cash income. The landlord's share of crops and other items is included in order to calculate earnings for the whole farm business. In addition to cash sales, the increases in farm capital and value of farm produce used in the home are listed. These items represent accrued and consumed income.

	LE 2B - WHOLE FARM SUMMARY OF CASH EXPENSES	AVERAGE OF 58 FARMS 291 FARMS HIGH			58 FARMS LOW		
1	PURCHASE OF LIVESTOCK	\$	1238	\$	759	\$	1799
2	DAIRY COWS	Ş	590	Ş	573	Ŷ	449
3	OTHER DAIRY CATTLE				348		1144
4	BEEF BREEDING CATTLE		519		348 3771		50
5	BEEF FEEDER CATTLE		901		179		11
6	HOGS COMPLETE & MIXED		59				13
7	HOGS FINISHING		109		14		315
8	HOGS PRODUCING WEANING PIGS		217		71		12
9	SHEEP & GOATS		12				12
LO	SHEEP, FEEDER LAMBS		6		5		9
11	CHICKENS (INCLUDING HENS & BROILERS)		6		S		9
12	TURKEYS		•				172
13	OTHER PRODUCTIVE LIVESTOCK		39		0700		901
14	MISCELLANEOUS LIVESTOCK EXPENSE		1678		2792		901 4450
15	FEED BOUGHT		7377		12670		1710
16	FERTILIZER		2075		3738		454
17	CHEMICALS		511		1061		1157
18	OTHER CROP EXPENSE		1363		2194		174
19	IRRIGATION OPERATION COSTS		61		13		1/4
20	CUSTOM WORK ENTER. OPR. COSTS, INC. LABOR		8		41		1159
21.	CUSTOM WORK HIRED		1633		2699		211
22	REPAIR & UPKEEP OF LIVESTOCK EQUIPMENT		389		774		211 344
23	REPAIR & UPKEEP OF FARM REAL ESTATE		543		845		1437
24	GAS, OIL & GREASE BOUGHT (FARM SHARE)		1729		2696		1667
25	REPAIR & OPR. OF MACH. TRACTOR, TRUCK & AUTO		2179		3657		27
26	REPAIR & UPKEEP OF IRRIGATION EQUIP.		26				27
27	REPAIR,-CUSTOM WORK ENTERPRISE		6		31		657
28	WAGES OF HIRED LABOR		1211		2429		464
29	PERSONAL PROPERTY & REAL ESTATE TAXES		586		1010		404 716
30	GENERAL FARM EXPENSE		831		1118		201
	TELEPHONE EXPENSE(FARM SHARE)		183		194		582
32	ELECTRICITY EXPENSE (FARM SHARE)		800		1301	÷	
33	TOTAL CASH OPERATING EXPENSE	\$	26881	\$	44981	\$	20264 •
34	POWER, CROP & GEN. MACH. BOUGHT (FARM SHARE)	8507		11453		7518
35	IRRIGATION EQUIPMENT BOUGHT		564				1588
36	CUSTOM WORK EQUIPMENT BOUGHT		48		241		
37	LIVESTOCK EQUIPMENT BOUGHT		2008		2882		1402
38	NEW REAL ESTATE & IMPROVEMENT		8078		10367		9842
39	TOTAL FARM PURCHASES (33) THRU (38)	\$	46087	\$	69925	\$	40634 \$
40	DECREASE IN FARM CAPITAL						
41	INTEREST ON FARM CAPITAL		8693		14005		7254
42	UNPAID FAMILY LABOR		662		831		488
43	LABOR CHARGE FOR PARTNERS & OTHER OPR.		395		925		241
44	BOARD FURNISHED HIRED LABOR		54		81		20
45	TOTAL FARM EXPENSE (39) THRU (44)	\$	56080	\$	85854	\$	49340 🕯
46	*RET.OPR.LAB & MGTSGL OPR (WF)(2A/40)-(45)	\$	16596	\$	45386	\$	(-7036)
47	NUMBER OF OPERATORS		T		1		1
48	FULL TIME OPERATOR EQUIVALENTS		1.06		1.13		1.05
	RET.TO OPR. LABOR & MGT/FULL TIME OPR EQUIV	1	15534		39748		(-6136)

*Return to Operators Labor & Mgmt. - the return for the operator's labor and management after all expenses are deducted.

	LE 3 - ENTERPRISE STATEMENT - 1978	AVERAGE OF 58 FARMS		58 FARMS			
		29	1 FARMS		HIGH		LOW
1	RETURNS & NET INCREASES						
2	PRODUCTIVE LIVESTOCK				0000	~	11164
3	DAIRY COWS	\$	28757	\$	60471	\$	11164
4	OTHER DAIRY CATTLE		9938		23462		3835
5	BEEF BREEDING CATTLE		2985		3407		1566
6	FEEDER CATTLE		1496		5477		286
7	HOGS, COMPLETE & MIXED		824		2142		198
8	HOG FINISHING ENTERPRISE		107		20		21
9	PRODUCING WEANING PIGS		3968		1976		3518
10	SHEEP & GOATS		81				77
11	SHEEP, FEEDER LAMBS						_
12	CHICKENS (INCLUDING HENS & BROILERS)		30		38		48
13	TURKEYS						
14	OTHER PRODUCTIVE LIVESTOCK		7		1		21
15	TOTAL PRODUCTIVE LIVESTOCK	\$	48193	\$		\$	20735 *
16	VALUE OF FEED FED TO LIVESTOCK		19891		36968		10805
17	RETURN OVER FEED FROM LIVESTOCK		28302		60025		9930
18	CROP, SEED & FEED		13872		26342		7564
19	COOPERATIVE PATRONAGE REFUNDS		298		787		56
20	MISCELLANEOUS FARM INCOME		1421		1287		1359
21	CUSTOM WORK ENTERPRISE		15		77		
21				~	00537	\$	18909 *
22	TOTAL RETURNS & NET INCREASES	\$	43908	\$	88517	Ş	T0303
23	EXPENSES & NET DECREASES	\$	1880		2607		1875
24	TRUCK & AUTO (FARM SHARE)	Ş	6471		10262		6372
25	TRACTORS & CROP MACHINERY		251		83		377
26	IRRIGATION EQUIPMENT		800		1301		582
27	ELECTRICITY				2366		664
28	LIVESTOCK EQUIPMENT		1171 2370		2843		3421
29	BUILDINGS, FENCES & TILING		153		2040		1662
30	BARE LAND				0700		901
31	MISCELLANEOUS LIVESTOCK EXPENSE		1678		2792 3626		1217
32	LABOR		1850				241
33	LABOR CHARGE FOR OTHER OPERATOR(S)		395		925	•	241 464
34	PROPERTY TAX		586		1010		404 917
35	GENERAL FARM EXPENSE & TELEPHONE		1014		1312		7254
36	INTEREST ON FARM CAPITAL		8693		14005		/254
37	TOTAL EXPENSES & NET DECREASES	\$	27312	\$	43131	\$	25945 *
38	RETURN TO OPERATORS LABOR & MANAGEMENT	\$	16596	\$	45386	\$	(-7036)
00	NUMBER OF FARM OPERATORS		1		1		1

TABLE 3 - ENTERPRISE STATEMENT - 1978

Table 3 combines Tables 1, 2A, and 2B. Cash receipts and expenses are adjusted for changes in inventory for each enterprise and for each category of expense in order to show net increases and net decreases. The resulting labor earnings are the same as those on Table 2B.

TABLE 4 -	HOUSEHOLD	EXPENSE -	1978
-----------	-----------	-----------	------

TABLE 4 - HOUSER	JULD EXFENSE - 1976		CRAGE OF B FARMS	3	4 FARMS HIGH		FARMS LOW
I NUMBER OF PE	RSONS - FAMILY	• •	4		5		4
	DULT EQUIVALENT - FAMILY		2.9		3.5		2.5
3 CHURCH & V	TLFARE	\$	324	\$	528	\$	257
	ARE & HEALTH INSURANCE		1094		1556		871
5 FOOD & MEA			2270		2544		2071
	EXPENSE & SUPPLIES		629		906		510
	SS & EQUIPMENT		646		599		861
	CLOTHING MATERIALS		673		898		432
	CARE, PERSONAL SPENDING		337		433		375
10 EDUCATION	Sind, Through or brothe		236		309		299
11 RECREATION	T		302		360		288
	PECIAL EVENTS		339		583		213
	SHARE TRUCK & AUTO EXPENSE		444		506		522
	SHARE UPKEEP ON DWELLING		257		217		170
	(PERSONAL)		3				
	SHARE TELEPHONE & ELECT. EXP.		413		443		469
	SHARE-GENERAL FARM EXPENSE	· •	53		86		51
	CASH LIVING EXPENSE	\$	8019	\$	9967	\$	7391*
17 PERSONAL	SHARE NEW TRUCK & AUTO		395		615		390
	ING BOUGHT		1536		29		2267
-	THER DEDUCTIONS		581		741		704
	RANCE & OTHER SAVINGS & INVEST.		570		632		311
21 TOTAL	HOUSEHOLD & PERSONAL (16) THRU (20)	\$	11102	΄\$	11984	\$.	11063
22 TOTAL	FAMILY LIVING FROM THE FARM (33)		621		893		295
23 TOTAL	CASH & NON-CASH EXPENSES $(21)+(22)$	\$	11723	\$	12877	\$	11358
	FAMILY LIVING FROM THE FARM						
25							
				•			•
26 MILK & CREA							
	ALO (POUNDS)						
28 PORK (POUND			_				
	N, GOAT (POUNDS)						
30 POULTRY, AL	L FOWL (POUNDS)						
31 EGGS (DOZEN)						
32 VEG., FRUITS	, SPUDS, OTHER PRODUCE & FUEL		·				
33 TOTAL	FAMILY LIVING FROM THE FARM	\$	621	\$	893	\$	295
		·					

The household and personal expenses and receipts presented in Table 4 are for those farms with complete accounts. These farmers spent an average of \$925 per month for family living in addition to the food, fuel, and housing furnished by the farm.

TABLE 5 - NET WORTH STATEMENT--OPERATOR - 1978

FOR THOSE FARMS WITH A COMPLETE RECORD OF ALL ASSETS AND LIABILITIES AVERAGE OF 287 FARMS JAN. 1-----DEC. 31 \$ 21080 \$ 30849 1 TOTAL PRODUCTIVE LIVESTOCK 12453 10184 2 CROP, SEED & FEED 20930 26825 3 TOTAL POWER, MACHINERY & EQUIPMENT 32870 34726 4 LAND 16879 20588 5 BUILDINGS, FENCES, ETC. \$ 101942 \$ 125441 * TOTAL FARM CAPITAL 6 6543 7383 7 NON-FARM ASSETS 1702 1190 7A CASH ON HAND & IN BANK 10013 11677 8 DWELLING \$ 119689 \$ 146203 * 9 TOTAL ASSETS 27195 33095 10 REAL ESTATE MORTGAGES 24929 21352 11 CHATTEL MORTGAGES 3573 4702 12 NOTES 1607 2028 13 ACCOUNTS PAYABLE 53728 \$ 64753 * \$ TOTAL LIABILITIES 14 \$ 65960 \$ 81450 * 15 FARMERS NET WORTH \$ 15489 * GAIN (OR LOSS) IN NET WORTH 16 * * * * * * * * * * 17 SUPPLEMENTARY MANAGEMENT INFORMATION \$ 15592 RET. TO OPR. LABOR & MGT. (6B/47) 18 20235 19 RET. TO CAP. & FAMILY LABOR (6B/48) 20 NON-FARM INCOME 398 21 OUTSIDE INVESTMENT INCOME OTHER PER. INC. & INC. TAX REFUND 3791 22 72 SALE OF (P.S.) DWELLING, AUTO & TRUCK 22A \$ 4262 TOTAL NON-FARM INCOME 23 Ś 24497 24 TOTAL FAMILY FARM & NON-FARM INC. 25083 25 TOTAL MONEY BORROWED 13930 26 TOTAL PAID ON DEBT (PRINCIPAL) 9063 27 TOTAL HOUSEHOLD & PER CASH/NON-CASH EXP. .780 28 RATIO: TOTAL FARM-EXP. TO RECEIPTS (0.S.) JAN. 1 DEC. 31 2.258 2.228 29 RATIO: TOTAL-ASSETS TO LIABILITIES 2.502 2.259 30 RATIO: NON-REAL ESTATE-ASSETS TO LIAB. 2.198 2.024 31 RATIO: REAL ESTATE-ASSETS TO LIAB. 1.228 1.258 32 RATIO: NET WORTH TO TOTAL LIABILITIES .689 33* RATIO: CASH OPR. EXP. TO ADJ TOTAL FARM SALES (OS) 34 RATIO: TOTAL FARM REC. TO AVE FARM CAP. (W.F.) .580 .611 35 RATIO: TOTAL FARM REC. TO AVE. FARM CAP. (O.S.)

*ADJUSTED FARM SALES DOES NOT INCLUDE SALE OF CAPITAL ASSETS

The net worth statement presents a picture of the financial structure of the operator's share of the farm business at the beginning and at the end of the year. The gain or loss in net worth is a dollar measure of progress. This statement, accurately kept over a period of years is one of the best measures of financial progress.

The supplementary information listed in Table 5 is helpful in studying the financial structure of the farm. All figures are presented on the operators share only basis.

TABLE 5 - NET WORTH STATEMENT--OPERATOR - 1978 (Continued) FOR THOSE FARMS WITH A COMPLETE RECORD OF ALL ASSETS AND LIABILITIES

	TOTAL PRODUCTIVE LIVESTOCK CROP, SEED & FEED TOTAL POWER, MACH. & EQUIP LAND BUILDINGS, FENCES, ETC.	5'	7 FARMS	HIG	ł		58 FAR	IS	LOW
		J	AN. 1	DI	EC. 31	JA	N. 1	DE	C. 31
1	TOTAL PRODUCTIVE LIVESTOCK	5	38642	Š	60101	Ś	11404	\$	16512
2	CROP SEED & FEED	Ŷ	20901	•	25956	•	6368		6857
2	TOTAL POURD MACH & FOUTD		34277		41595		19296		22371
4	INID		44630		46632		36490		37160
5			25393		32012		14753		18857
5 6	LAND BUILDINGS, FENCES, ETC. TOTAL FARM CAPITAL	¢	163843	Ś	206295	Ś	88310	Ś	101757*
			100010	Ŧ	200230	Ŧ		•	
7	NON-FARM ASSETS CASH ON HAND & IN BANK DWELLING TOTAL ASSETS REAL ESTATE MORTGAGES		8174		8846				8271
7A	CASH ON HAND & IN BANK		2517		2918		236		771
8	DWELLING		11669		13433		8959		
9	TOTAL ASSETS	\$	186203	\$	231493	\$	104235		
10	REAL ESTATE MORTGAGES		35072		43022		22781		30161
11	REAL ESTATE MORTGAGES CHATTEL MORTGAGES NOTES		31441		33171		18448		20492
12	NOTES		5059		5565		3463		4822
	ACCOUNTS PAYABLE		1451		2175		2434		2594
14	ACCOUNTS PAYABLE TOTAL LIABILITIES	\$	73022	\$	83933	\$	47126	\$	58069 *
15	FARMERS NET WORTH	\$	113181	\$	147560	\$	57110	\$	63812 *
16	GAIN (OR LOSS) IN NET WORTH	*	* * * *	\$	34379			\$	6702 *
17	SUPPLEMENTARY MANAGEMENT INFORMATION								
18	DET TO ODD INDOD & MOT (68/47)		\$ 4	3626		Ś	(-7072)		
	RET. TO OPR. LABOR & MGT. (6B/47) RET. TO CAP. & FAMILY LABOR (6B/48	2)	5	1392			(-3505)		
19 20	NON EADM INCOME	,	Ŭ	1001			(,		
20 21	RET. TO CAP. & FAMILY LABOR (6B/48 NON-FARM INCOME OUTSIDE INVESTMENT INCOME OTHER PER INC & INC TAX REFUND SALE OF (P.S.) DWELLING, AUTO, TOTAL NON-FARM INCOME			91			1308		
21	OUISIDE INVESTMENT INCOME			1914			6245		
22	CALL OF (D.C.) DUFILING AUTO	סידי	UCK	58			192		
ZZA	SALE OF (P.S.) DWELLING, AUTO, TOTAL NON-FARM INCOME	IN	ÚÚČIK Č	200		Ś	7745		
23	TOTAL NUN-FARM INCOME	тл	ې م د 5	2000		Ş	4240		
24	TOTAL FAMILY FARM & NON-FARM	Т.Л	C, Y J	0400		Ŷ	1210		
25	TOTAL MONEY BORROWED		з	4681			23107		
26	TOTAL PAID ON DEBT (PRINCIPAL)		2	3388			11750		
27	TOTAL HOUSEHOLD & PER CASH/NON-CASH	ΕX	P (4/23	3) 11	733		7576		
28	RATIO: TOTAL FARM EXPENSE TO RECEIPT	rs	(0.S.)	•	665		1.178		
20	MIIO. IOIME MAR EMERGE IO RECEIT		J	AN.	1 DEC.	31	JAN. 1	DI	EC. 31
29	RATIO: TOTAL-ASSETS TO LIABILITIES			.550			2.212		.099
	RATIO: NON-REAL ESTATE-ASSETS TO LIA			.754			1.809		.963
30 31	RATIO: REAL ESTATE-ASSETS TO LIAB.	11) •			2.140		2.643		.225
	RATIO: NET WORTH TO TOTAL LIABILITIE	20		.550			1.212		.099
32	RATIO: NET WORR TO TOTAL DIASILITY RATIO: CASH OPR EXP TO ADJ. TOTAL FA	N D W							.953
	RATIO: CASH OPR EXP TO ADJ. TOTAL FA	7 D 7 1 / 11	(UF)	1010	., .652	,			.411
34	RATIO: TOTAL FARM REC. TO AVE FARM CA	۰ ۲ <i>۲</i>	τη.ι.) Σ /Λ σ	, ,					.418
35	*ADJUSTED FARM SALES DOES NOT INCLUI	UH DF	SALE OF	,,, , , , , , , , , , , , , , , , , , ,	TTAL ASS	SETS			
	" TACED INCLUSION INCLUSION INCLUSION	د		U11.	***** ** U				

The ratio of Assets to Liabilities (Line 29) indicates the degree of solvency at the beginning and end of the year. This is often referred to as the "Net Capital Ratio". It answers the question. "How many dollars of total assets do I have to cover each dollar of debt."

The ratio of Expense to Sales (Line 33) is a way of expressing the so-called margin. It answers the question, "How many dollars does it cost me to take in \$100?"

TABLE	6A	-	OPERATORS	SHARE	OF	CASH	RECEIPTS	-	1978

	LE 6A - OPERATORS SHARE OF CASH RECEIPTS	AVE	RAGE OF FARMS	58	3 FARMS HIGH		FARMS LOW
		231	I HIGO				
l	SALE OF LIVESTOCK & LIVESTOCK PRODUCTS						
2	DAIRY COMS	\$	2705	\$	5521		1434
3	DAIRY PRODUCTS		26411		54966		11509
4	OTHER DAIRY CATTLE		2086		4968		1122
5	BEEF BREEDING CATTLE		1639		1230		876
6	BEEF FEEDER CATTLE		1743		6728		449
7	HOGS COMPLETE & MIXED		617		1664		157
8	HOGS FINISHING		185		88		
9	HOGS PRODUCING WEANING PIGS		3591		2025		3196
10	SHEEP, GOATS & WOOL, FARM FLOCK		72				64
11	SHEEP & WOOL, FFEDER LAMBS						
12	CHICKENS (INCLUDING HENS & BROILERS)		14		22		43
13	TURKEYS						
14	EGGS		16		12		4
15	OTHER PRODUCTIVE LIVESTOCK & PRODUCTS		3		1		
16	OTHER MISCELLANEOUS LIVESTOCK INCOME		Ũ		_		
10	OTHER MISCEDERNEOUS BIVESTOCK THEORE						
17	TOTAL SALES OF PRODUCTIVE LIVESTOCK	\$	39080	\$	77226	\$	18853
18	SALE OF CROPS						
L9	WHEAT		89		163		54
20	OTHER SMALL GRAIN		313		335		269
21	CORN		1764		2644		2262
22	SOYBEANS		123		228		332
23	OTHER ROW CROPS		13		43		4
24	LEGUMES & OTHER ROUGHAGE		412		561		592
24 25	GRASS SEED						
26	FRUITS & NUTS						
20	VEGETABLES, ROADSIDE MARKET & SPECIALTY		136				
28	NURSERY, TIMBER & OTHER		131				172
20 29	SET ASIDE ACRES - GOVERNMENT PAYMENTS		137		219		202
30	TOTAL SALES FROM CROPS	\$	3117	\$	4192	\$	3888
			6.00		660		637
31	CAPITAL ASSETS SOLD		682		669		637
32	GAS TAX REFUND		88		153		49
33	INCOME FROM WORK OFF THE FARM		825		1325		476
34	CUSTOM WORK ENTERPRISE INCOME		40		201		~ ~ ~
35	PATRONAGE REFUNDS		295		804		61
36	MISCELLANEOUS FARM INCOME		1419		1314		1281
37	TOTAL FARM SALES	\$	45546	\$	85883	Ş	25245
38	INCREASE IN FARM CAPITAL		24295		44016		14153.
39	FAMILY LIVING FROM THE FARM		609		978		311
40	TOTAL FARM RECEIPTS (37)+(38)+(39)	\$	70450	\$	130877	\$	39708
41	ADJUSTED TOTAL FARM SALES (37)-(31)		44864		85214		24608
41	TOTAL CASH FARM OPERATING EXPENSE		31098		53675		23449
42 43	NET CASH OPERATING INCOME	\$	13766	\$	31539	\$	
	NET CUOIL OLEIVUITNG TUCOUR	4		-			

Table 6A is derived the same way as Table 2A with the exception of the landlord's share which is left out. For the owner-operator, Table 2A and 6A are the same.

TABLE 6B - OPERATORS SHARE OF CASH EXPENSES - 1978

1 PURCHASE OF LIVESTOCK 2 DAIRY COWS 3 OTHER DAIRY CATTLE 4 BEEF BREEDING CATTLE 5 BEEF FEEDER CATTLE 6 HOGS COMPLETE 7 HOGS FINISHING	291 \$	FARMS		HIGH		LOW
 2 DAIRY COWS 3 OTHER DAIRY CATTLE 4 BEEF BREEDING CATTLE 5 BEEF FEEDER CATTLE 6 HOGS COMPLETE 	\$					
 2 DAIRY COWS 3 OTHER DAIRY CATTLE 4 BEEF BREEDING CATTLE 5 BEEF FEEDER CATTLE 6 HOGS COMPLETE 	\$					
 3 OTHER DAIRY CATTLE 4 BEEF BREEDING CATTLE 5 BEEF FEEDER CATTLE 6 HOGS COMPLETE 	Ŧ		\$	919	\$	1799
 4 BEEF BREEDING CATTLE 5 BEEF FEEDER CATTLE 6 HOGS COMPLETE 		578		541		444
5 BEEF FEEDER CATTLE 6 HOGS COMPLETE		452		348		826
6 HOGS COMPLETE		901		3771		50
		57		175		16
		109		118		13
8 HOGS PRODUCING WEANING PIGS		209		48		315
-		12				12
		6		5		9
		38				176
13 OTHER PRODUCTIVE LIVESTOCK 14 MISCELLANEOUS LIVESTOCK EXPENSE		1649		2966		891
		7220		12684		4347
15 FEED BOUGHT		2030		3772		1610
16 FERTILIZER		502		1100		414
17 CHEMICALS 18 OTHER CROP EXPENSE		1334		2237		1093
		61		13		170
		8		41		
		1596		2739		1125
21 CUSTOM WORK HIRED		385		742		223
22 REPAIR & UPKEEP OF LIVESTOCK EQUIP		534		883		336
23 REPAIR & UPKEEP OF FARM REAL ESTATE		1695		2673		1412
24 GAS, OIL, GREASE BOUGHT (FARM SHARE))	2141		3746		1700
25 REPAIR & OPER OF MACH, TRACTOR, TRUCK, AUTO (FS	,	26				27
26 REPAIR & UPKEEP OF IRRIGATION EQUIPMENT		6		31		
27 REPAIRS, CUSTOM WORK ENTERPRISE		1178		2563		668
28 WAGES OF HIRED LABOR		533		1006		421
29 PERSONAL PROPERTY & REAL ESTATE TAXES		820		1500		353
30 CASH RENT		820		1249		685
31 GENERAL FARM EXPENSES		177		197		183
32 TELEPHONE EXPENSE (FARM SHARE)		778		1353		563
33 ELECTRICITY EXPENSE (FARM SHARE)		4020		6254		3568
34 INTEREST EXPENSE	Ś	31098				
35 TOTAL CASH OPERATING EXPENSE	Ş	21030	Ų	55075	Ŷ	20113
36 POWER, CROP & GEN MACH BOUGHT (FARM SHARE)		8327		11960		7103
37 IRRIGATION EQUIPMENT BOUGHT		564				515
38 CUSTOM WORK ENTERPRISE EQUIP BOUGHT		48		241		
39 LIVESTOCK EQUIPMENT BOUGHT		1990		2674		1570
		7946		10822		9852
	Ś			79371	\$	42487
41 TOTAL FARM PURCHASES (35) THRU (40)	•		·			
42 DECREASE IN FARM CAPITAL		0000		6070		3084
43 INTEREST ON FARM CAPITAL (EQUITY)		3982		6872 894		482
44 UNPAID FAMILY LABOR		662		894		482
45 BOARD FURNISHED HIRED LABOR	~	54				46780 ⁻
46 TOTAL FARM EXPENSE (41) THRU (45)	\$	54858	Ş	0/201	Ş	40/00
	615	15592	Ś	43626	Ś	(-7072)
47 RET TO OPR LABOR & MGMT (OPR SHARE)(6A/40)-(4	بر ن. ج	20235				(-3505)
48 ☆RET TO CAPITAL & FAMILY LABOR (47)+(44)+(43)	Ŷ	20200	Ŷ		т	

*Return to Capital and Family Labor represents the amount available for debt service, living expense, and savings.

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EXPLANATION OF WORK UNITS

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

Item		Item	
Dairy Cows	7.0/cow	Sunflowers	.55/acre
Other Dairy Cattle	1.2/head	Barley, Wheat, Oats, Rye	.30/acre
Beef Breeding Cows	1.5/head	Oat Silage	.40/acre
Beef Feeders	.12/cwt	Canning Corn	.40/acre
Hogs-Complete	.12/cwt	Corn for Grain	.55/acre
Hogs-Finishing	.06/cwt	Sovbeans	.45/acre
Hogs-Wean. Pigs	1.4/litter	Corn & Cane Silage	.80/acre
Sheep, Farm Flock	.60/ewe	Alfalfa Hay	.60/acre
Lambs, Feeders	.30/cwt	0. Leg. & Mix Hay	.40/acre
Chickens, Lay. Flock		Tame Grass Hay	.20/acre
Broilers	.20/cwt	Annual Hay	.30/acre
Turkeys, Lay. Flock	25.0/100	Leg & Grass Silage	.40/acre
Turkey Poults	.12/cwt	Legume & Grass Seed	.40/acre
Labor Off the Farm	1.0/\$20	Summer Fallow Tilled	.40/acre
Diverted Acres	.20/acre	Wild Hay	.20/acre
SMALL GRAIN & CORN		ND OTHER PRICES USED IN 1978 DAILY COWS. Beef COWS	
SMALL GRAIN & CORN Corn \$1 Oats 5 Soybeans 6 Wheat 5 Rye 2 Barley (Feed) 5	1.90/bu. 1.05/bu. 6.00/bu. 3.00/bu. 2.00/bu. 1.45/bu.	PASTURE PER HEAD PER MON Dairy cows, Beef cows Other Dairy & Beef Hogs Pigs Sheep Lambs	TH
SMALL GRAIN & CORNCorn\$1Oats5Soybeans6Wheat5Rye2Barley (Feed)5	1.90/bu. 1.05/bu. 6.00/bu. 3.00/bu. 2.00/bu.	PASTURE PER HEAD PER MON Dairy cows, Beef cows Other Dairy & Beef Hogs Pigs Sheep Lambs	TH \$4.00 2.00 .30 .10 .40 .20
SMALL GRAIN & CORN Corn \$ Oats \$ Soybeans 6 Wheat \$ Rye \$ Barley (Feed) \$ Potatoes \$ ROUGHAGES Alfalfa Hay O. Leg & Mix Wild Annual & Tame	1.90/bu. 1.05/bu. 6.00/bu. 3.00/bu. 2.00/bu. 1.45/bu. 1.20/bu. (\$2.00/cwt \$50.00/ton 40.00/ton 25.60/ton	PASTURE PER HEAD PER MON Dairy cows, Beef cows Other Dairy & Beef Hogs Pigs Sheep Lambs	TH \$4.00 2.00 .30 .10 .40 .20 E qt.
SMALL GRAIN & CORN Corn \$ Oats \$ Soybeans \$ Wheat \$ Rye \$ Barley (Feed) \$ Potatoes \$ <u>ROUGHAGES</u> Alfalfa Hay O. Leg & Mix Wild Annual & Tame Corn Silage Oatage	1.90/bu. 1.05/bu. 6.00/bu. 3.00/bu. 2.00/bu. 1.45/bu. 1.20/bu. (\$2.00/cwt \$50.00/ton 40.00/ton 25.60/ton 15.00/ton 20.00/ton	PASTURE PER HEAD PER MON Dairy cows, Beef cows Other Dairy & Beef Hogs Pigs Sheep Lambs :.) PRODUCTS USED IN THE HOM Cream \$1.50/ Whole Milk .25/	TH \$4.00 2.00 .30 .10 .40 .20 E qt. qt. cwt.
SMALL GRAIN & CORN Corn \$ Oats \$ Soybeans \$ Wheat \$ Rye \$ Barley (Feed) \$ Potatoes \$ ROUGHAGES Alfalfa Hay 0. Leg & Mix Wild Annual & Tame Corn Silare Oatage Haylage	1.90/bu. 1.05/bu. 6.00/bu. 3.00/bu. 2.00/bu. 1.45/bu. 1.20/bu. (\$2.00/cwt \$50.00/ton 40.00/ton 25.60/ton 15.00/ton 20.00/ton 25.00/ton	PASTURE PER HEAD PER MON' Dairy cows, Beef cows Other Dairy & Beef Hogs Pigs Sheep Lambs :.) PRODUCTS USED IN THE HOM Cream \$1.50/ Whole Milk .25/ Whole Milk fed 9.00/	TH \$4.00 2.00 .30 .10 .40 .20 E qt. qt. cwt. Y LABOR
SMALL GRAIN & CORN Corn \$ Oats \$ Soybeans \$ Wheat \$ Rye \$ Barley (Feed) \$ Potatoes \$ <u>ROUGHAGES</u> Alfalfa Hay O. Leg & Mix Wild Annual & Tame Corn Silage Oatage	1.90/bu. 1.05/bu. 6.00/bu. 3.00/bu. 2.00/bu. 1.45/bu. 1.20/bu. (\$2.00/cwt \$50.00/ton 40.00/ton 25.60/ton 15.00/ton 20.00/ton	PASTURE PER HEAD PER MON' Dairy cows, Beef cows Other Dairy & Beef Hogs Pigs Sheep Lambs :.) PRODUCTS USED IN THE HOM Cream \$1.50/ Whole Milk .25/ Whole Milk fed 9.00/	TH \$4.00 2.00 .30 .10 .40 .20 E qt. qt. cwt. Y LABOR

WORK UNITS FOR CROPS, LIVESTOCK, AND WORK OFF THE FARM

LAND COST used on Table 10 was considered to be the rental value of land on each farm. Interest on Farm Capital - 7%.

MEASURER OF FARM ORGANIZATION EFFICIENCY

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

- 1. <u>LABOR FARNINGS</u> The basis for comparing the relationship between selected farm management factors and farm profit. "Labor Earnings" represents that share of the total farm income that is credited to the operator's labor and management. It is a whole farm figure taking into account all income and expense, cash and non-cash, including a charge for the use of farm capital. Tables 2B and 3 show two methods of determining labor earnings. The operator's share of labor earnings is shown on Table 6B and may be different from Whole Farm Labor Earnings.
- 2. <u>CROP YIELDS INDEX</u> A measure of the crop yield level for all crops produced. It is expressed as a percentage of the average: the average being 100%.
- 3. <u>GROSS RETURN PER TILLABLE ACRE</u> Reflects both crop selection and crop yield.
- 4. <u>RETURN PER \$100 FEED FED TO PRODUCTIVE LIVESTOCK</u> A measure of the general level of efficiency for all livestock. It is expressed as a percentage with 100% representing average efficiency.
- 5. <u>LIVESTOCK UNITS PER 100 ACRES</u> A measure of livestock density or population, particularly important for farms with limited cropland.
- 6. SIZE OF BUSINESS WORK UNITS A measure of the 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.
- 7. WORK UNITS PER WORKER A measure of labor efficiency. It is determined by dividing the work units by the total number of workers.
- 8. POWER, MACHINERY, EOUIPMENT, AND BUILDING EXPENSE PER WORK UNIT A measure of expense control. It is the total cost of items 24 through 29 in Table 3 divided by the number of Work Units.
- 9. FARM CAPITAL INVESTMENT PER WORKER Another indication of size of business. Useful in relating farm businesses to other industries.

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 inter-relationship of factors varies from farm to farm.

TABLE 8 - MEASURES OF FARM ORGANIZATION - 19	78	AVERAGE				
		OF 291	5	-	58	
		FARMS	Hi		LOW	
1 RETURN TO OPERATORS LABOR & MANAGEMENT	\$	16596	\$4	5386	\$ (-7	036)
2 CROP YIELD INDEX		100.0		111.3		86.1
C PERCENT TILLARE LAND IN UTCH PETURN CRO	PS					
THE ADD DED WILLADLE AODE (DY DACTH	DL) C	113.75	\$	138.88	\$	107.89
6 SLIVESTOCK INITS PER 100 ACRES		24.18		28.89		18.88
5 RETURN PER \$100 FEED FED PROD. LIVESTOCK 6 *LIVESTOCK UNITS PER 100 ACRES 7 SIZE OF BUSINESS-WORK UNITS 8 WORK UNITS PER WORKER 9 POWER,MACH., EQUIP., BLDG.EXP. PER WORK UN		318.98		537.06		191.18
Q FORK UNITS PER WORKER		226.23		319.68	ļ	148.20
O PONER MACH FOULP BLDG.EXP. PER WORK UN	IT \$	40.60	\$	36.29	\$	69.51
10 FARM CAPITAL INVESTMENT PER WORKER	\$	89072	\$11	9092	\$80)327
10 FRAM CRITIAL INVESTIGATION FINC WORKERS						
11 INDEX OF RETURN PER \$100 FEED FED						
TE CLOCK DEED DEFENSIVE FARM UNOIE HEDD CO	MM	100.0		123.3		73.0
15 6100A BEEF BREEDING FARM, WHOLE HERD, CO		100.0		129.1		
17 6130A BEEF FEEDERS GRASS FED		100.0		89.1		
18 6140A BEEF FEEDERS FEEDLOT				114.0		79.5
23 6290A DAIRY COWS, COMMERCIAL, GENERAL	NTNTS	100.0		105.1		
25 6310A OTHER DAIRY, COMMERCIAL, REPLACE		100.0				
27 6470A HOGS, FARROW, FINISH, GENERAL		100.0				
29 6510A HOGS, WEANING PIG PRODUCTION		100.0		120.7		77.5
29 6670A SHEEP, FARM, COMMERCIAL		100.0				65.6
30 NUMBER OF ANIMAL UNITS		53.63		94.76	5	30.74
31 WORK UNITS						
32 CROPS		85.92		129.6	7	67.39
33 PRODUCTIVE LIVESTOCK		218.19		392.7	3	115.29
34 OTHER PRODUCTIVE WORK UNITS		14.87		14.6	5	8.50
35 EXPENSES PER WORK UNITS			ć.			
36 TRACTOR & CROF MACHINERY EXPENSE	\$	21.08	\$	19.29	\$	35.30
37 FARM SHARE OF AUTO & TRUCK EXPENSE	\$	5.90	\$	4.8	6 \$	9.81
38 FARM SHARE OF ELECTRIC EXPENSE	\$			2.43	3 \$	3.04
	\$	3.67			1 \$	
 39 LIVESTOCK EQUIPMENT EXPENSE 40 BUILDING, FENCES & TILING EXPENSE 	\$	7.43	\$\$		0\$	
- HI AA WEACTOR & OPOR MACH FYP PER CROP ACT	RE \$	33.65	, \$	· 37.4	0 \$	42.14
1	ESTOCK	\$ 1616.83	\$ \$	2902.1	7 \$	1407.37
42 FARM POWER & MACH. COST ALLOC. TO LIVE 43 BLDG., FENCE & TILING COST ALLOC. TO CH	ROPS \$	707.00) \$	708.2	5\$	1024.77
44 * ACRES INCLUDE ALL TILLABLE LAND, NON-	-TILLAE	LE HAY &	PAS	TURE		

TABLE 8 - MEASURES OF FARM ORGANIZATION - 1978

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

THERMOMETHER CHART

Using your figures from Toble 3, locate your standing with respect to the various measures of farm organization and management efficiency. The averages for the farms included in this summary are located between the dotted lines across from the center of the page.

Labor Earn- ings		lrop Lield		Gross Retur per Till	מי	Retur from Prod. Livst		Prod Lvst Unit per 100	k. s	Work Units	 Work Units per Worke	r	P.M.E. B. Exp. per Work Unit	8	Farm Capital Investment per Worker
160,000	• 1			155		136		40		700	 500		14.00		170,000
130,000	= =	155		150		130		36		650	 450		18.00		145,000
105,000		140		147		124		34		600	 400		24.00		138,000
80,000		125		145		118		32		575	 375		30.00		130,000
60,000		113		142		112		30		550	 350		34.00		125,000
45,386	- - 	111		139		107		29		537	320		36.00		119,092
37,000		109		132		106		28		500	 300		37.00		114,000
30,000		106		126		104		26		450	 275		38.00		107,000
23,000		103		120		102		25		385	 250		39.00		95,000
16,596	/	100				100		24		31.9	226		41.00		88,072
7,000		95		112		96		23		290	 200		50.00		86,000
0		90		110		92	+	21		240	 175		60.00		83,000
	 	36		103		 89		 19		191	 148		70.00		80,327
-14,000		70		90	 	 S0		17		160	 125		75.00		60,000
-21,000		55		- 30		60		15		135	 100		80.00		50,000
-28,000	;	. 36		- 70		40		13		100	 75		100.00		40,000
-35,000		- 20		60		20		11		70	 50		120.00	 	30,000
					ر بین میں معرف میں میں معرفی میں میں میں میں میں میں میں میں میں										

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Each line represents 9 farm farmers in a given year. the control of the individ factors affecting earnings 1. Crop Yields	\$-40,000	\$-25,000	\$-10,000	 \$ 7,000	\$ 16,596	\$ 30,000	\$ 45,000	\$ 75,000	\$105,000	\$135,000	\$165.000	
s 9 farm units. Every study of farm earnings shows a wide variation in earnings among year. Some of the causes for these differences in earnings, such as weather, may be beyond individual farmer. Other factors are within his control. The most important management earnings are as follows: 5. Size of business	\$-7,036	LOW 25%						\$16,598	Average Labor Earnings	\$45,386 TABLE 7 -RANGE IN FARM EARNINGS - 1978	HIGH 255	-

- urop Yields
- Gross Return Per Tillable Acre Returns from livestock Amount of Livestock
- των+ ••••

ය 7 ග ප • • • • Size of business Work units per worker Control over expenses Farm investments per worker

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The thermometer chart shows a given year. These eight 1. Crop yiel 2. Gross Ret 3. Returns f 4. Amount of 4. Amount of 4. Amount of 4. Amount of 4. Amount of 4. Amount of 4. Amount of 5. Cross Ret 5. Gross Ret 5.	er chart shows These eight 1. Crop yiel 2. Gross Ret 3. Returns f 4. Amount of b. Amount of Attention is it factors are så Farms 72 89 89 89 89	The thermometer chart shows eight major management factors that influence farm earnings within a given year. These eight factors are: 1. Crosp Yield 2. Gross Return for Tillage Acre 5. Gontrol over power 6 machinery 3. Returns from livestock 8. Farm investment Per Worker 4. Amount of livestock 8. Farm investment Per Worker The combined effect of those management factors as related to farm earnings is shown on the table below. Attention is called to the fact that farmers exceeding the arerarge in most of the management factors are also those reporting the highest labor earnings. The management factors are also prover reporting the highest labor earnings. 0. 1 72 2500 5000 9500 1500 1500 25000 23500 34000 37500 44000 4500 0. 2 3 1u2 200 0. 1 72 200 5000 9500 1500 25000 2500 2000 2500 34000 7700 4500 0. 1 72 200 0. 1 1 2 200 0. 1 2 200 0. 1 1 2 200 0. 1 2 2 200 0. 1 2 2 200 0. 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
The combined table below. the managemen	2. Gross 3. Retun 4. Amoun effect of Attention t factors	urn for Tillage Acre 7. Control over power & mach rom livestock 8. Farm Investment Per Worke livestock 8. Farm Investment Per Worke e management factors as related to farm earnings is called to the fact that farmers exceeding the average also those reporting the highest labor earnings.
		920 5460 16944 16944 26447
, F-2	34 Should be	along with the tables on Measures of Farm Organization and

LABOR EARMINGS CORRELATED WITH EXCELLED FACTORS

Management Efficiency and the Thermometer Chart. The importance of these three tables to determine the financial "Hearthsat" of a farm operation cannot be over emphasized.

			Average	Average Return over listed
0	A	A	Cost per Unit	
Crop	Ave. Acres	Ave. Yield	of Production	Cost per acre
Barley	36.7	31.0 bu.	1.58	1.90
Oats for Feed	31.5	44.3 bu.	1.26	(-7.86)
Rye	40.6	22.4 bu.	2.18	(-1.09)
Wheat	34.6	22.5 bu.	2.82	5.88
Corn	38.7	69.5 bu.	1.53	24.68
Soybeans	31.8	16.7 bu.	4.60	23.29
Alfalfa Hay	35.7	3.5 ton	24.52	70.53
Corn Silage	26.5	10.2 ton	10.39	48.61
Irrigated Corn	103.2	89.1 bu.	1.80	7.95
Irrigated Corn Silag	e 25.3	14.5	10.68	43.67

9992	SUPPLEMENTARY MANAGEMENT INFORMATION	291 Farm AVERAGE	58 Farms High Earnings	58 Farms Low
9993	PERCENT LAND TILLABLE	56.9	60.7	53.7
9995	*FERTILIZER COST PER ACRE	11.76	14.11	12.72
9996	*CROP CHEMICALS PER ACRE	3.02	4.21	3.36
9997	*SEED & OTHER COSTS PER ACRE	7.37	7.62	7,56
9998	⇔GAS, OIL & GREASE BOUGHT PER ACRF	7.56	8.42	6.86

The following crop analysis represent an attempt to show the comparable return to labor, management and capital per acre from each crop.

Out of pocket costs for fertilizer, chemicals, seed and miscellaneous crop expense, hired labor, custom work and irrigation operation are actual costs that are assigned to each individual crop in the account book. These costs are shown in Table 10, under the heading <u>Direct Costs</u>.

Other costs, called <u>Allocated Costs</u>, are not actual costs but are either calculated costs, assigned costs or non-cash costs. Line 17 represents the cost of ownershipdepreciation. Line 18 represents the cost of operation-gas, oil, grease and repairs. Work units are used as a factor on allocating a portion of Line 17 and 18 to each crop. For a typical operation or where the crop is unusual, the Power Cost Allocations Factor (PCAF) on line 27 is used to modify the work unit for use in the allocation process. Land Cost is considered to be the cash rental value based on comparable or actual rental values for similar land in each local area. For the land owner this rental must be at least enough to cover taxes and interest on investment in the land.

Irrigation crops have been separated from dryland crops. On these Tables, line 13 represents operating costs for irrigation such as: gas, electricity and repairs. Line 19 represents depreciation on irrigation equipment.

TABL	E 10 - CROP DATA FOR BARLEY, SPRING - 1978						
			ERAGE OF		FARMS		FARMS
			FARMS		HIGH		LOW R ACRE
		PE	R ACRE	PE.	R ACRE		
1	ACRES (TOTAL)		36.7		26.1		44.9 22.2
2	YIELD (BUSHEL)		31.0	4	45.4		
3	VALUE PER PRODUCTION UNIT	\$	1.54	Ş	1.48		
4	CROP PRODUCT RETURN		47.77		67.20		
5	OTHER CROP INCOME		3.02				2.12
6	TOTAL CROP RETURN	\$	50.79	\$	72.37	Ş	37.64*
7	DIRECT COSTS			<u> </u>	10 75	÷	3.67
8	FERTILIZER	\$	7.85	\$	13.75		
9	CHEMICALS		1.85		1.88		
10	SEED & OTHER		5.10		5.79		4.14
11	SPECIAL HIRED LABOR				0.00		.56
12	CUSTOM WORK HIRED		1.14		2.38		. 30
13	IRRIGATION OPERATION			4	.	Å	10.42
14	TOTAL DIRECT COSTS	\$	15.94	\$	23.80	\$	
15	RETURN OVER DIRECT COSTS	\$	34.85	\$	48.57	\$	27.22 *
16	ALLOCATED COSTS		0.00	÷	11.12	ć	3.66
17	FARM POWER & MACHINERY - OWNERSHIP	\$		Ş	10.12	Ų	9.96
18	FARM POWER & MACHINERY - OPERATION		9.93		10.12		9.50
19	IRRIGATION EQUIPMENT - OWNERSHIP				14 00		15.00
20	LAND COSTS		14.34		14.00		T2.00
21	MISCELLANEOUS COSTS		0.00		2 02		1.53
22	*INTEREST ON MACH. & EQUIP. INVESTMENT		2.32	Ċ			30.15
23	TOTAL ALLOCATED COSTS	\$		\$			(-2.93)*
24	RETURN OVER ALL LISTED COSTS	\$	1.90	ې 	9.51	ې 	(-2,30)**
25	SUPPLEMENTARY MANAGEMENT INFORMATION						0.0
26	WORK UNITS ASSIGNED PER ACRE		.30		.30		.30
27	POWER COSTS ALLOCATION FACTOR		.99		.99		.99
28	TOTAL LISTED COST PER UNIT OF PRODUCTION		1.58		1.38		
29	RETURN OVER LISTED COSTS PER UNIT		.06		.21		(13)
30	BREAKEVEN YIELD/UNITS OF PRODUCTION		31.75		42.47		25.36
31	TOTAL LISTED COSTS PER ACRE	\$	48.89	Ş	62.86	Ş	40.57 *
32	OTHER POSSIBLE COSTS NOT LISTED						
33	UTILITIES & OTHER GEN. FARM EXP.						
33A	BUILDINGS, FENCES & TILING COST						
34	INTEREST ALLOCATION						
35	OTHER COSTS NOT LISTED						
36	TOTAL COSTS						

TABLE 10 - CROP DATA FOR BARLEY, SPRING - 1978

	SLE 10 - CRUP DATA FOR OATS, FEED - 1978					
			VERAGE OF	1	50 FARMS	
			Ol FARMS		HIGH	LOW
r		<u>P</u>	ER ACRE	PI	ER ACRE	
	ACRES (TOTAL)		31.5		26.6	
2	· · · · · · · · · · · · · · · · · · ·		44.3		62.1	
З			.97		.97	.97
4	CROP PRODUCT RETURN	\$	42.98		60.23	\$ 30.52
5	OTHER CROP INCOME		5.08		7.82	3.13
6	TOTAL CROP RETURN	\$	48.06	\$	68.05	\$ 33.65 *
7	DIRECT COSTS					
8	FERTILIZER	\$	5.49	\$	6.09	\$ 5.05
9	CHEMICALS		.35		.30	.38
10	SEED & OTHER		5.02		6.28	
11	SPECIAL HIRED LABOR		.03			.08
12	CUSTOM WORK HIRED		2.41		3.46	1.65
13	IRRIGATION OPERATION					2100
14	TOTAL DIRECT COSTS	\$	13.30	\$	16.13	\$ 11.28
15	RETURN OVER DIRECT COSTS	\$	34.76	\$	51.92	\$ 22.37 *
16	ALLOCATED COSTS					
17	FARM POWER & MACHINERY - OWNERSHIP	Ś	9.25	Ś	9.15	\$ 9.36
18	FARM POWER & MACHINERY - OPERATION	•	10.69	•	10.56	10.82
19	IRRIGATION EQUIPMENT - OWNERSHIP		20000		20100	20102
20	LAND COSTS		19.38		21.31	17.54
21	MISCELLANEOUS COSTS		.10		.19	2,101
22	*INTEREST ON MACH. & EQUIP. INVESTMENT		3.20			3.16
23	TOTAL ALLOCATED COSTS			¢		\$ 40.91
24	RETURN OVER ALL LISTED COSTS		(-7.86)			\$(-18.54)*
		• #• • • • • • • • • •				
25	SUPPLEMENTARY MANAGEMENT INFORMATION		**************************************		· · · · · · · · · · · · · · · · · · ·	
26	WORK UNITS ASSIGNED PER ACRE		.30		.30	. 30
27	POWER COSTS ALLOCATION FACTOR		.98		.98	.98
28	TOTAL LISTED COST PER UNIT OF PRODUCTION		1.26		.98	1.66
29	RETURN OVER LISTED COSTS PER UNIT		(18)		.12	(59)
30	BREAKEVEN YIELD/UNITS OF PRODUCTION		57.65		62.47	53.80
31	TOTAL LISTED COSTS PER ACRE	\$	55.92	\$	60.60	
32	OTHER POSSIBLE COSTS NOT LISTED					
33	UTILITIES & OTHER GEN. FARM EXP.					
3 3 A	BUILDINGS, FENCES & TILING COSTS					······
34	INTEREST ALLOCATION					······································
35	OTHER COSTS NOT LISTED				an ann a glan a langa a ga a gun	
36	TOTAL COSTS					

TABLE 10 - CROP DATA FOR OATS, FEED - 1978

	E 10 - CROF DATA FOR RYE - 1978		ERAGE OF FARMS		ARMS IGH		ARMS LOW
		PE:	R ACRE	PEI	R ACRE	PE	R ACRE
1	ACRES (TOTAL)		40.6		38.4		42.8
	YIELD (BUSHEL)		22.4		28.2		17.2
	VALUE PER PRODUCTION UNIT		1.80		1.76		1.83
	CROP PRODUCT RETURN	\$	40.30	\$	49.64	\$	31.47
	OTHER CROP INCOME		7.46		2.68		11.75
6	TOTAL CROP RETURN	\$	47.76	\$	52.32	\$	43.22 *
7	DIRECT COSTS					<u>ب</u>	10.00
8	FERTILIZER	\$	11.16	\$	12.06	Ş	10.33
9	CHEMICALS						0 71
10	SEED & OTHER		2.61		1.41		3.71
11	SPECIAL HIRED LABOR				0.00		1 45
12	CUSTOM WORK HIRED		1.80		2.16		1.45
13	IRRIGATION OPERATION			Ŧ	15 00	~	15 40
L4	TOTAL DIRECT COSTS	\$	15.57	\$	15.63	Ş	
15	RETURN OVER DIRECT COSTS	\$	32.19	\$	36.69	\$	27.73 *
16	ALLOCATED COSTS	<u> </u>			7.42	ę	6.99
17	FARM POWER & MACHINERY - OWNERSHIP	\$	7.19	Ş	6.34	Ģ	7.99
18	FARM POWER & MACHINERY - OPERATION		7.21		0.34		1.55
19	IRRIGATIOM EQUIPMENT - OWNERSHIP				10 00		16.83
20	LAND COSTS		15.33		13.83		:05
21	MISCELLANEOUS COSTS		.02		2.57		4.39
22	*INTEREST ON MACH. & EQUIP. INVEST.	<u>م</u>	3.53	ح	30.16		
23	TOTAL ALLOCATED COSTS	\$	33.28				(-8.52)*
24	RETURN OVER ALL LISTED COSTS	Ş	(-1.09)	Ş 	6.53	ڊ 	(-0.52)
 25	SUPPLEMENTARY MANAGEMENT INFORMATION						
26	WORK UNITS ASSIGNED PER ACRE		.30		.30		.30
27	POWER COSTS ALLOCATION FACTOR		.96		1.00		.93
28			2.18		1.62		3.01
29	RETURN OVER LISTED COSTS PER UNIT		(05)		.23		(49)
30	BREAKEVEN YIELD/UNITS OF PRODUCTION		27.14		26.02		28.27
31	TOTAL LISTED COSTS PER ACRE	\$	48.85	\$	45.79	\$	51.74 *
32	OTHER POSSIBLE COSTS NOT LISTED						
33	UTILITIES & OTHER GEN. FARM EXP.						
ЗЗА						-	
34	INTEREST ALLOCATION					-	
35	OTHER COSTS NOT LISTED					-	
	TOTAL COSTS						

TABLE 10 - CROF DATA FOR RYE - 1978

	10 - CROP DATA FOR SPRING WHEAT - 1978		AVERAGE OF 21 FARMS		10 FARMS HIGH		10 FARMS LOW		
		PE.	R ACRE	PEI	R ACRE	PE	R ACRE		
1	ACRES (TOTAL)		34.6		38.7		32.1		
2	YIELD (BUSHEL)		22.5		27.7		16.3		
3	VALUE PER PRODUCTION UNIT		2.89		2.91		2.86		
4	CROP PRODUCT RETURN	\$	65.06	\$	80.54	\$	46.51		
5	OTHER CROP INCOME		4.42		7.47		1.00		
6	TOTAL CROP RETURN	\$	69.48	\$	88.01	\$	47.51 *		
7	DIRECT COSTS			~	10.80	¢	8.29		
8	FERTILIZER	\$	9.83	\$	10.80	Ş	4.24		
9	CHEMICALS		2.60		8.17		6.42		
10	SEED & OTHER		7.20		0.1/		.93		
11	SPECIAL HIRED LABOR		.40 1.30		1.34		1.34		
12	CUSTOM WORK HIRED		1.30		1.04		T • 0 ·		
13 14	IRRIGATION OPERATION TOTAL DIRECT COSTS	\$	21.33	\$	21.71	\$	21.22		
15	RETURN OVER DIRECT COSTS	\$	48.15	\$	66.30	\$	26.29 *		
16	ALLOCATED COSTS				10.05	ė	11 70		
17	FARM POWER & MACHINERY - OWNERSHIP	\$	11.70	Ş	12.05	Ş	11.73 14.99		
18	FARM POWER & MACHINERY - OPERATION		12.44		10.38		14.99		
19	IRRIGATION EQUIPMENT - OWNERSHIP		15 00				15.20		
20	LAND COSTS		15.33		14.40		10.20		
21	MISCELLANEOUS COSTS		2.80		2.58		3.16		
22	*INTEREST ON MACH. & EQUIPMENT INVEST.	÷	42.27	\$			45.08		
23	TOTAL ALLOCATED COSTS	\$ \$	42.27	\$			(-18.79)*		
24	RETURN OVER ALL LISTED COSTS	چ 	5.00	ې 	20.05				
25	SUPPLEMENTARY MANAGEMENT INFORMATION								
26	WORK UNITS ASSIGNED PER ACRE		.30		. 30		.30		
27	POWER COSTS ALLOCATION FACTOR		1.00		1.00		1.00		
28			2.82		2.21		4.07		
29	RETURN OVER LISTED COSTS PER UNIT		.26		.97		(-1.15)		
30	BREAKEVEN YIELD/UNITS OF PRODUCTION		22.01	~	21.00		23.18		
31	TOTAL LISTED COSTS PER ACRE	\$	63.60	\$	61.12	Ş	66.30 *		
32	OTHER POSSIBLE COSTS NOT LISTED								
33	UTILITIES & OTHER GEN. FARM EXP.		·				-		
33/			·			•			
34	INTEREST ALLOCATION								
35	OTHER COSTS NOT LISTED								
36	TOTAL COSTS					•			

TABLE 10 - CROP DATA FOR SPRING WHEAT - 1978

*DOES NOT INCLUDE INTEREST ON INVESTMENT IN IRRIGATION EQUIP OR LAND

	JE 10 - CROP DATA FOR CORN FOR GRAIN - 1978	AV	ERAGE OF	17	1 FARMS		171 FARMS	
		34	3 FARMS		HIGH		LOW	
		PF	R ACRE	ÞF	R ACRE		PER ACRE	
_			38.7		39.0		38.3	
	ACRES (TOTAL)		69.5		87.6		51.0	
2	YIELD (BUSHELS)		1.87		1.88		1.85	
3	VALUE PER PRODUCTION UNIT	¢	129.92	Ś	164.62			
4	CROP PRODUCT RETURN	Ŷ	1.40	Ŷ	.15	7	2.64	
5	OTHER CROP INCOME	¢	131.32	Ś	164.77	Ś		
6	TOTAL CROP RETURN	Ų	101.02	Ŷ	101.11	Ŧ	00002	
7	DIRECT COSTS	ć	00 10	ć	23.03	\$	17.83	
8	FERTILIZER	\$	20.44	Ş	23.03	Ŷ	5.85	
9	CHEMICALS		6.80		10.21		8.88	
)	SEED & OTHER		9.53		.13		.03	
1	SPECIAL HIRED LABOR		.10		.13 5.41		5.35	
2	CUSTOM WORK HIRED		5.43		5.41		0.00	
3	IRRIGATION OPERATION	~	h 0 00	Å	46.50	Ś	37.94	
4	TOTAL DIRECT COSTS	\$	42.30	Ş	46.50	Ş	37.94	
5	RETURN OVER DIRECT COSTS	\$	89.02	\$	118.27	\$	58.98 *	
6	ALLOCATED COSTS					÷	10.06	
7	FARM POWER & MACHINERY - OWNERSHIP	Ş	15.51	\$		\$	13.36 18.52	
8	FARM POWER & MACHINERY - OPERATION		18.54		18.55		18.52	
9	IRRIGATION EQUIPMENT - OWNERSHIP		00 55		25.87		21.26	
0	LAND COSTS		23.55				1.25	
1	MISCELLANEOUS COSTS		.67		.10 5.97		5.61	
2	*INTEREST ON MACH. & EQUIP. INVEST.	<u> </u>	5.79	<u>ہ</u>			60.55	
3	TOTAL ALLOCATED COSTS	\$			68.04 50.23	•	(-1.57)*	
4	RETURN OVER ALL LISTED COSTS	\$	24.68	\$	50.23	ڊ 	(-1.3/).	
25	SUPPLEMENTARY MANAGEMENT INFORMATION							
16	WORK UNITS ASSIGNED PER ACRE		.55		.55		.55	
7	POWER COSTS ALLOCATION FACTOR		.95		.97		.94	
8	TOTAL LISTED COST PER UNIT OF PRODUCTION		1.53		1.31		1.93	
9	RETURN OVER LISTED COSTS PER UNIT		.36		.57		(03)	
9	BREAKEVEN YIELD/UNITS OF PRODUCTION		57.03		60.93		53.24	
1	TOTAL LISTED COSTS PER ACRE	\$	106.64	\$	114.54	\$	98.49 \$	
32	OTHER POSSIBLE COSTS NOT LISTED							
33	UTILITIES & OTHER GEN. FARM EXP.				_			
ЗЗА								
34	INTEREST ALLOCATION							
35	OTHER COSTS NOT LISTED							
າວ								

TABLE 10 - CROP DATA FOR CORN FOR GRAIN - 1978

	LE 10 - CROP DATA FOR CORN FOR GRAIN (IRRIGAT	٨١	ERAGE OF		10 FARMS	1	.0 FARMS
		21	. FARMS		HIGH		LOW
		PĒ	R ACRE	1	PER ACRE	P	PER ACRE
1	ACRES (TOTAL)		103.2	-	72.7	-	142.7
2	YIELD (BUSHELS)		89.1		105.5		80.7
3	VALUE PER PRODUCTION UNIT		1.89		1.87		1.91
4	CROP PRODUCT RETURN	\$	168.34	\$	197.29		5154.10
5	OTHER CROP INCOME	•					
6	TOTAL CROP RETURN	\$	168.34	\$	197.29	\$	154.10
7	DIRECT COSTS						
8	FERTILIZER	\$	35.48		34.97	\$	35.92
9	CHEMICALS				7.66		11.10
0	SEED & OTHER		18.00		17.54		18.27
1	SPECIAL HIRED LABOR				G 110		0 77
2	CUSTOM WORK HIRED		3.97				2.77
3	IRRIGATION OPERATION	÷	7.74	ć	7.37 73.94	\$	7.93 75.99
ł	TOTAL DIRECT COSTS	\$	75.10	Ş	73.94	Ş	
5	RETURN OVER DIRECT COSTS	\$	93.24	\$	123.35	\$	78.11
5	ALLOCATED COSTS		-	L			
7	FARM POWER & MACHINERY - OWNERSHIP	Ş	15.03		15.29	\$	
3	FARM POWER & MACHINERY - OPERATION		15.14				12.95
)	IRRIGATION EQUIPMENT - OWNERSHIP		25.63				21.67
)	LAND COSTS		22.29		24.40		19.90
-	MISCELLANEOUS COSTS		7 00		7.32		7.14
2	*INTEREST ON MACH. & EQUIP. INVEST.	\$	7.20 85.29	¢	99.71	\$	
3	TOTAL ALLOCATED COSTS	ې \$					1.59
+	RETURN OVER ALL LISTED COSTS	ې 	7.55	Ŷ		Y	1.00
 5	SUPPLEMENTARY MANAGEMENT INFORMATION						
5	WORK UNITS ASSIGNED PER ACRE		.65		.65		.65
,	POWER COSTS ALLOCATION FACTOR		.96		.97		.96
3	TOTAL LISTED COST PER UNIT OF PRODUCTION		1.80		1.65		1.89
}	RETURN OVER LISTED COSTS PER UNIT		.09		.22		.02
)	BREAKEVEN YIELD/UNITS OF PRODUCTION		84.86				
L	TOTAL LISTED COSTS PER ACRE	\$	160.39	\$	173.65	\$	152.51
2	OTHER POSSIBLE COSTS NOT LISTED						
3	UTILITIES & OTHER GEN. FARM EXP.						
BA	BUILDINGS, FENCES & TILING COSTS						
ł	INTEREST ALLOCATION				and the second		
5	OTHER COSTS NOT LISTED						
5	TOTAL COSTS						

TABLE 10 - CROP DATA FOR CORN FOR GRAIN (IRRIGATED) - 1978

TABI	E 10 - CROP DATA FOR SOYBEANS - 1978	A 17	ERAGE OF	3	FARMS	3 F.	ARMS
			FARMS		HIGH	LO	
			R ACRE	Pl	ER ACRE	PER	ACRE
l	ACRES (TOTAL)		31.8		15.8		51.9
2	ACRES (TOTAL) YIELD (BUSHELS)		16.7		21.1		15.2
2	VALUE PER PRODUCTION UNIT		6.00		6.00		6.00
4	CROP PRODUCT RETURN	\$	100.00	\$	126.46	\$	90.98
5	OTHER CROP INCOME						~~~~~*
6	TOTAL CROP RETURN	\$	100.00	\$	126.46	\$	90.98 *
7	DIRECT COSTS			\$		\$	1.02
8	FERTILIZER	\$	1.32	Ş	10.25	Ŷ	7.36
9	CHEMICALS		8.21		4.11		16.44
10	SEED & OTHER		13.49		4.17		100
11	SPECIAL HIRED LABOR		.57		1.90		
12	CUSTOM WORK HIRED IRRIGATION OPERATION		• • • /				
13 14	TOTAL DIRECT COSTS	\$	23.59	\$	16.26	\$	24.82
15	RETURN OVER DIRECT COSTS	\$	76.41	\$	110.20	\$	66.16 *
τo							
16	ALLOCATED COSTS			÷	0 4 2	\$	15.07
17	FARM POWER & MACHINERY - OWNERSHIP	Ş	14.61 12.80	\$	8.43 15.39	Ŷ	12.32
18	FARM POWER & MACHINERY - OPERATION		12.80		T2.02		12102
19	IRRIGATION EQUIPMENT - OWNERSHIP		19.57		26.67		18.00
20	LAND COSTS		10.07				
21	MISCELLANEOUS COSTS *INTEREST ON MACH. & EQUIP. INVESTMENT		6.14		2.91		6.66
22 23	TOTAL ALLOCATED COSTS	\$	53.12	\$	53.40	\$	52.05
23 24	RETURN OVER ALL LISTED COSTS	\$	23.29	\$	56.80	\$	14.11 *
Z . "1							
25	SUPPLEMENTARY MANAGEMENT INFORMATION				_		
26	WORK UNITS ASSIGNED PER ACRE		.45		.45		.45
27	POWER COSTS ALLOCATION FACTOR		1.03		1.07		1.00 5.07
28	TOTAL LISTED COST PER UNIT OF PRODUCTION		4.60		3.30		.93
29	RETURN OVER LISTED COSTS PER UNIT		1.40		2.70		.93 12.81
30	BREAKEVEN YIELD/UNITS OF PRODUCTION		12.79	Ċ	11.61 69.66	\$	76.87 *
31		\$	76.71	Ş	69.66	Ų	/0.0/
32	OTHER POSSIBLE COSTS NOT LISTED						
33	UTILITIES & OTHER GEN FARM EXP.						
33.							
34							
35							
36	TOTAL COSTS						

TABLE 10 CROP DATA FOR SOYBEANS - 1978

*DOES NOT INCLUDE INTEREST ON INVESTMENT IN IRRIGATION EQUIPMENT OR LAND

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IND	LE 10 - CROP DATA FOR ALFALFA HAY - 1978	AVERAGE OF			122 FARMS	122 FARM		
			4 FARMS				LOW	
		PE	R ACRE		PER ACRE	Р	ER ACRE	
1	ACRES (TOTAL)		35.7		39.8		31.7	
2	YIELD		3.5		4.6		2.1	
3	VALUE PER PRODUCTION UNIT		44.64		44.91		44.36	
4	CROP PRODUCT RETURN	\$	156.30	\$	208.74	\$	90.95	
5	OTHER CROP INCOME		.08		.03		.16	
6	TOTAL CROP RETURN	\$	156.38	\$	208.77	\$	91.11 *	
7	DIRECT COSTS							
8	FERTILIZER	\$	6.81	\$	7.59	\$	5.80	
9	CHEMICALS		. 3 9		.58		.16	
10	SEED & OTHER		6.89		8.22		5.17	
11	SPECIAL HIRED LABOR		.11				.22	
12	CUSTOM WORK HIRED		1.23		1.26		1.20	
13	IRRIGATION OPERATION							
14	TOTAL DIRECT COSTS	\$	15.43	\$	17.65	\$	12.55	
15	RETURN OVER DIRECT COSTS	\$	140.95	\$	191.12	\$	78.56 *	
16	ALLOCATED COSTS							
17	FARM POWER & MACHINERY - OWNERSIIP	\$	18.40	\$	20.00	\$	16.34	
18	FARM POWER & MACHINERY - OPERATION		20.50		20.49		20.46	
19	IRRIGATION EQUIPMENT - OWNERSHIP		• •					
20	LAND COSTS		24.73		26.60		22.87	
21	MISCELLANEOUS COSTS		.17				.38	
22	*INTEREST ON MACH. & EQUIP. INVESTMENT		6.59		6.84		6.25	
23	TOTAL ALLOCATED COSTS	\$	70.42	\$	73.96	\$	66.30	
24	RETURN OVER ALL LISTED COSTS	\$	70.53	\$	117.16	\$	12.26 *	
25	SUPPLEMENTARY MANAGEMENT INFORMATION		60		6.0		CO	
26			.60				.60	
27	POWER COSTS ALLOCATION FACTOR		1.00				.99	
28	TOTAL LISTED COST PER UNIT OF PRODUCTION						38.46	
29	RETURN OVER LISTED COSTS PER UNIT		20.14		25.21		5.97	
30	BREAKEVEN YIELD/UNITS OF PRODUCTION	~	1.92	~	2.04	*	1.78	
31	TOTAL LISTED COSTS PER ACRE	\$	85.85	Ş	91.61	\$	78.85 *	
32	OTHER POSSIBLE COSTS NOT LISTED							
33	UTILITIES & OTHER GEN. FARM EXP.							
33A	BUILDINGS, FENCES & TILING COSTS						a a station and a station of the state	
34	INTEREST ALLOCATION							
35	OTHER COSTS NOT LISTED							
36	TOTAL COSTS							

TABLE 10 - CROP DATA FOR ALFALFA HAY - 1978

*DOES NOT INCLUDE INTEREST ON INVESTMENT IN IRRIGATION EQUIP OR LANT

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TABI	LE 10 - CROP DATA FOR MEDIUM RED CLOVER HAY -	19	78					
			ERAGE OF	2	20 FARMS		FARMS	
		40	FARMS		HIGH		LOW	
		PE	R ACRE	F	PER ACRE	PE	r acre	
1	ACRES (TOTAL)		20.0	-	12.2		27.9	
2	YIELD (BUSHEL)		2.1		3.9		1.2	
3	VALUE PER PRODUCTINN UNIT		36.38		35.55		37.20	
4	CROP PRODUCT RETURN	\$	74.60	\$	139.84	\$	45.34	
5	OTHER CROP INCOME		5.50		6.48		5.02	
6	TOTAL CROP RETURN	\$	80.10	\$	146.32	\$	50.36	*
7	DIRECT COSTS							
8	FERTILIZER	\$	2.90	\$		\$	2.87	
9	CHEMICALS				.08			
10	SEED & OTHER		3.55		6.31		2.37	
11	SPECIAL HIRED LABOR							
12	CUSTOM WORK HIRED		.50		1.23		.18	
13	IRRIGATION OPERATION			ـ		~	F 110	
14	TOTAL DIRECT COSTS	\$	6.95	Ş	10.57	\$	5.42	
15	RETURN OVER DIRECT COSTS	\$	73.15	\$	135.75	\$	44.94	
16	ALLOCATED COSTS							
17	FARM POWER & MACHINERY - OWNERSHIP	\$		\$	16.10	\$	8.48	
18	FARM POWER & MACHINERY - OPERATION		12.42		14.46		11.49	
19	IRRIGATION EQUIPMENT - OWNERSHIP						11. 05	
20	LAND COSTS		18.83		23.60		14.05	
21	MISCELLANEOUS COSTS		.10		.25		0.00	
22	*INTEREST ON MACH. & EQUIP. INVESTMENT		3.85		4.33	~	3.62	
23	TOTAL ALLOCATED COSTS	\$	46.03			\$	37.64	
24	RETURN OVER ALL LISTED COSTS	\$	27.12	Ş	77.01	\$	7.30	
25	SUPPLEMENTARY MANAGEMENT INFORMATION							
26	WORK UNITS ASSIGNED PER ACRE		.40		.40		.40	
27	POWER COSTS ALLOCATION FACTOR		1.03		1.06		1.00	
28	TOTAL LISTED COST PER UNIT OF PRODUCTION		25.85		17.60		35.35	
29	RETURN OVER LISTED COSTS PER UNIT		13.22		19.58		5.97	
30	BREAKEVEN YIELD/UNITS OF PRODUCTION		1.46		1.95		1.16	
31	TOTAL LISTED COSTS PER ACRE	\$	52.98	\$	69.31	\$	43.06	*
32	OTHER POSSIBLE COSTS NOT LISTED							
33	UTILITIES & OTHER GEN. FARM EXP.							
33A								
34	INTEREST ALLOCATION							
35	OTHER COSTS NOT LISTED							
36	TOTAL COSTS							

TABLE 10 - CROP DATA FOR MEDIUM RED CLOVER HAY - 1978

	LE 10 - CROP DATA FOR OTHER LEGUME HAY - 1978		RAGE OF FARMS		FARMS HIGH	9 F. LO	ARMS W
		PER	ACRE	F	ER ACRE	PER	ACRE
l	ACRES (TOTAL)		25.1	-	33.3		17.7
2	YIELD (BUSHEL)		2.4		2.9		1.4
3	VALUE PER PRODUCTION UNIT		34.63		37.11		32.67
4	CROP PRODUCT RETURN	\$	81.39	\$	108.11	\$	44.29
5	OTHER CROP INCOME						
6	TOTAL CROP RETURN	\$	81.39	\$	108.11	\$	44.29 *
7	DIRECT COSTS			1		<u>.</u>	1 20
8	FERTILIZER	\$	3.11	Ş	4.23	\$	1.30
9	CHEMICALS						0.00
10	SEED & OTHER		3.03		3.66		2.20
11	SPECIAL HIRED LABOR						
12	CUSTOM WORK HIRED		.56		.51		.73
13	IRRIGATION OPERATION					4	H 00
14	TOTAL DIRECT COSTS	\$	6.70	\$	8.40	\$	4.23
15	RETURN OVER DIRECT COSTS	\$	74.69	\$	99.71	\$	40.06 *
16	ALLOCATED COSTS						
17	FARM POWER & MACHINERY - OWNERSHIP	\$		\$	17.32	\$	10.61
18	FARM POWER & MACHINERY - OPERATION		14.36		15.27		12.96
19	IRRIGATION EQUIPMENT - OWNERSHIP						
20	LAND COSTS		17.26		20.78		14.11
21	MISCELLANEOUS COSTS						
22	*INTEREST ON MACH. & EQUIP. INVESTMENT		5.03		5.47		4.53
23	TOTAL ALLOCATED COSTS	\$	51.31		58.84		
24	RETURN OVER ALL LISTED COSTS	\$	23.38	\$	40.87	\$	(-2.15)*
25	SUPPLEMENTARY MANAGEMENT INFORMATION				110		.40
26	WORK UNITS ASSIGNED PER ACRE		.40		.40		1.00
27	POWER COSTS ALLOCATION FACTOR		1.00		1.01		34.25
28	TOTAL LISTED COST PER UNIT OF PRODUCTION		24.66		23.08		(-1.58)
29	RETURN OVER LISTED COSTS PER UNIT		9.97		14.03		1.42
30	BREAKEVEN YIELD/UNITS OF PRODUCTION		1.68		1.81		46.44 *
31	TOTAL LISTED COSTS PER ACRE	\$	58.01	5.4	67.24	Ş	40.44
32	OTHER POSSIBLE COSTS NOT LISTED						
33	UTILITIES & OTHER GEN. FARM EXP.						
33A							
34	INTEREST ALLOCATION						
35	OTHER COSTS NOT LISTED		-				
30							

TABLE 10 - CROP DATA FOR OTHER LEGUME HAY - 1978

ABL	E 10 - CROP DATA FOR OTHER TILLABLE GRASS HA		LUTO	5 1	B FARMS		3 FARMS
			RAGE OF		HIGH		LOW
		100	FARMS				<u> </u>
		PFP	ACRE	PF	ER ACRE	P	ER ACRE
-			42.5		31.1		53.9
	ACRES (TOTAL)		1.3		2.1		.9
2	YIELD (TONS)		24.55		24.63		24.47
3	VALUE PER PRODUCTION UNIT	4					20.89
4	CROP PRODUCT RETURN	\$	32.35	\$	52.20	Ģ	.28
5	OTHER CROP INCOME		. 1.9			<u>.</u>	21.17 *
6	TOTAL CROP RETURN	\$	32.54	\$	52.28	\$	21.1/ .
7	DIRECT COSTS			4	0.10	\$	05
8	FERTILIZER	\$	1.67	\$	3.12	Ş	.85
9	CHEMICALS						0.5
0	SEED & OTHER		1.11		1.38		.95
.1	SPECIAL HIRED LABOR						
.2	CUSTOM WORK HIRED		1.25		2.51		.52
.3	IRRIGATION OPERATION						
.5	TOTAL DIRECT COSTS	\$	4.03	\$	7.01	\$	2.32
4	IOTAL DIRECT COSTS						
5	RETURN OVER DIRECT COSTS	\$	28.51	\$	45.27	\$	18.85
6	ALLOCATED COSTS						10.00
.7	FARM POWER & MACHINERY - OWNERSHIP	\$	14.98	Ş		\$	
.8	FARM POWER & MACHINERY- OPERATION		9.28		8.86		9.52
.9	IRRIGATION EQUIPMENT - OWNERSHIP						
0	LAND COSTS		14.68		19.04		10.32
1	MISCELLANEOUS COSTS		.07				.11
2	*INTEREST ON MACH. & EQUIP. INVESTMENT		3.83		2.82		4.42
			42.84		38.29	\$	
23	TOTAL ALLOCATED COSTS		-14.33)			\$	(-24.78)
24	RETURN OVER ALL LISTED COSTS						
5	SUPPLEMENTARY MANAGEMENT INFORMATION						
6	WORK UNITS ASSIGNED PER ACRE		.30		.30		.30
7	POWER COSTS ALLOCATION FACTOR		.95		.95		.95
8	TOTAL LISTED COST PER UNIT OF PRODUCTION		35.57		21.36		53.83
	RETURN OVER LISTED COSTS PER UNIT	(-10.88)		3.27		(-29.02)
9	BREAKEVEN YIELD/UNITS OF PRODUCTION		1.91		1.84		1.88
0		\$	46.87	Ś	45.30	\$	45.95
1	TOTAL LISTED COSTS PER ACRE	Ŧ					
2	OTHER POSSIBLE COSTS NOT LISTED						
33	UTILITIES & OTHER GEN. FARM EXP.						
ЗA	BUILDINGS, FENCES & TILING COSTS						
4	INTEREST ALLOCATION						
15	OTHER COSTS NOT LISTED						

TABLE 10 - CROP DATA FOR OTHER TILLABLE GRASS HAY - 1978

1101	JE 10 - CROP DATA FOR LEGUMEGRASS MIX HAY -	AVE	AGE OF	- 9'	7 FARMS	ç	7 FARMS
			FARMS	-	HIGH		LOW
		PER	ACRE	P	ER ACRE	I	PER ACRE
1	ACRES (TOTAL)		55.2		49.8		59.7
2	YIELD (TONS)		2.1		3.0		1.3
	VALUE PER PRODUCTION UNIT		32.41		32.15		32.59
3 4	CROP PRODUCT RETURN	\$	66.94	\$	96.85	\$	41.49
	OTHER CROP INCOME	,	.09		.10		.08
5 6	TOTAL CROP RETURN	\$	67.03	\$	96.95	\$	41.57 *
0	TOTAL CROP RETORN						
7	DIRECT COSTS						
8	FERTILIZER	\$	3.73	\$		\$	2.13
9	CHEMICALS		.22		.34		.10
LÕ	SEED & OTHER		2.99		3.63		2.43
11	SPECIAL HIRED LABOR		.85				1.57
12	CUSTOM WORK HIRED		.92		1.08		.80
13	IRRIGATION OPERATION						
14	TOTAL DIRECT COSTS	\$	8.71	\$	10.69	\$	7.03
			F 00	Å	00.00	\$	34.54 *
15	RETURN OVER DIRECT COSTS	\$	58.32	\$	86.26	Ş	34.34
16	ALLOCATED COSTS				15 00	~	19.99
17	FARM POWER & MACHINERY - OWNERSHIP	\$	17.98	Ş	15.09	Ş	19.99
18	FARM POWER & MACHINERY - OPERATION		14.02		13.51		14.03
19	IRRIGATION EQUIPMENT - OWNERSHIP						14.79
20	LAND COSTS		18.70		22.72		.15
21	MISCELLANEOUS COSTS		.09		.04		4.22
22	*INTEREST ON MACH. & EQUIP. INVESTMENT		4.71		5.37		
23	TOTAL ALLOCATED COSTS	\$	55.50				
24	RETURN OVER ALL LISTED COSTS	\$	2.82	\$	29.53	Ş	(-19.24):
					ang		
25	SUPPLEMENTARY MANAGEMENT INFORMATION		.40		.40		.40
26	WORK UNITS ASSIGNED PER ACRE		.98		1.00		.97
27	POWER COSTS ALLOCATION FACTOR		31.10		22.39		47.78
28	TOTAL LISTED COST PER UNIT OF PRODUCTION		1.36		9.80		(-15.12)
29	RETURN OVER LISTED COSTS PER UNIT		1.98		2.10		1.87
30	BREAKEVEN YIELD/UNTS OF PRODUCTION	~	64.21			Ś	60.81
31	TOTAL LISTED COSTS PER ACRE	\$	64.21	Ų	07.42	Ŷ	00004
32	OTHER POSSIBLE COSTS NOT LISTED						
33	UTILITIES & OTHER GEN. FARM EXP.						
33A							
34	INTEREST ALLOCATION						-
	OTHER COSTS NOT LISTED						
35			a second s				

TABLE 10 - CROP DATA FOR LEGUME--GRASS MIX HAY - 1978

TAB	LE 10 - CROP DATA FOR LEGUME, LEGUME-GRASS	SILAGE	<u>- 1978</u>				
			RAGE OF				6 FARMS
		12	FARMS		HIGH		LOW
		PFI	ACRE	Ţ	PER ACRE		PER ACRE
ſ	ACRES (TOTAL)	1 ha 1	26.0				25.6
2	YIELD (TONS)				5.9		3.8
3	VALUE PER PRODUCTION UNIT				17.78		
4	CROP PRODUCT RETURN	\$			104.68		
5	OTHER CROP INCOME	Ų	90.00	Ŷ	104.00	Ŷ	,
6	TOTAL CROP RETURN	\$	03 50	¢	104.68	\$	78.95 ×
U	TOTAL CROP RETORN	Ŷ	50.00	Ų	104.00	Ŷ	
7	DIRECT COSTS						
8	FERTILIZER	\$	7.00	\$	7.06	\$	6.91
9	CHEMICALS						4
10	SEED & OTHER		2.50		3.92		1.02
11	SPECIAL HIRED LABOR						
12	CUSTOM WORK HIRED		1.85		.30		3.44
13	IRRIGATION OPERATION						
14	TOTAL DIRECT COSTS	\$	11.35	\$	11.28	\$	11.37
15	RETURN OVER DIRECT COSTS	\$	82.23	\$	93.40	\$	67.58 *
16	ALLOCATED COSTS						
17	FARM POWER & MACHINERY - OWNERSHIP	\$	8.51	\$	4.42		
18	FARM POWER & MACHINERY - OPERATION		17.24	\$	19.46	\$	14.87
19	IRRIGATION EQUIPMENT - OWNERSHIP						
20	LAND COSTS		16.67		18.33		15.00
21	MISCELLANEOUS COSTS						
22	*INTEREST ON MACH. & EQUIP. INVESTMENT						7.64
23	TOTAL ALLOCATED COSTS	\$			43.87		
24	RETURN OVER ALL LISTED COSTS	\$	35.20	\$	49.53	\$	17.37 *
0.5							
25	SUPPLEMENTARY MANAGEMENT INFORMATION		110		.40		.40
	WORK UNITS ASSIGNED PER ACRE						1.00
	POWER COSTS ALLOCATION FACTOR						
28		N			9.37 8.41		4.59
29	RETURN OVER LISTED COSTS PER UNIT		3.02				2.96
30	BREAKEVEN YIELD/UNITS OF PRODUCTION	Ċ	58.38				
31	TOTAL LISTED COSTS PER ACRE	\$	38.30	Ş	55.15	Ļ	01.30
32	OTHER POSSIBLE COSTS NOT LISTED						
33	UTILITIES & OTHER GEN. FARM EXP.						
33A	BUILDINGS, FENCES & TILING COSTS						
34	INTEREST ALLOCATION						
35	OTHER COSTS NOT LISTED						
36	TOTAL COSTS						

TABLE 10 - CROP DATA FOR LEGUME, LEGUME-GRASS SILAGE - 1978

*DOES NOT INCLUDE INTEREST ON INVESTMENT IN IRRIGATION EQUIPMENT OR LAND

I ACRES (TOTAL) PER ACRE PER ACRE PER ACRE PER ACRE 2 YIELD (TONS) 4.0 6.8 2.1 3 VALUE PER PRODUCTION UNIT 18.38 15.46 21.31 4 CROP PRODUCT RETURN \$ 73.20 \$ 105.67 \$ 45.35 5 OTHER CROP INCOME \$ 73.20 \$ 105.67 \$ 45.35 6 TOTAL CROP RETURN \$ 73.20 \$ 105.67 \$ 45.35 7 DIRECT COSTS \$ 9.39 \$ 11.67 \$ 7.94 9 CHEMICALS .26 .44 .11 10 SEED & OTHER 8.87 11.33 7.30 11 SPECIAL HIRED LABOR	IAD	LE 10 - CROP DATA FOR GRAIN SILAGE - 1978		RAGE OF]	L3 FARMS	1	3 FARMS
1 ACRES (TOTAL) 23.1 18.0 28.2 2 YIELD (TONS) 4.0 6.8 2.1 3 VALUE PER PRODUCTION UNIT 18.38 15.46 21.31 4 CROP PRODUCT RETURN \$73.20 \$105.67 \$45.35 5 OTHER CROP INCOME \$73.20 \$105.67 \$45.35 6 TOTAL CROP RETURN \$73.20 \$105.67 \$45.35 7 DIRECT COSTS \$9.39 \$11.67 \$7.94 9 CHEMICALS .26 .44 .11 10 SEDC & OTHER 8.87 11.33 7.30 11 SEDC & OTHER 8.87 11.33 7.30 12 CUSTOM WORK HIRED 4.07 9.44 .64 13 IRRIGATION OPERATION 17.46 13.27 20.13 14 TOTAL DIRECT COSTS \$22.59 \$32.88 \$15.99 15 RETURN OVER DIRECT COSTS \$23.96 23.77 24.15 16 ALLOCATED COSTS \$3.96 23.77 24.15 17 MISCELLANFOUS COSTS			26	FARMS		HIGH		LOW
1 ACRES (TOTAL) 23.1 18.0 28.2 2 YIELD (TONS) 18.38 15.46 21.31 4 CROP PRODUCT RETURN \$73.20 \$105.67 \$45.35 5 OTHER CROP INCOME \$73.20 \$105.67 \$45.35 6 TOTAL CROP RETURN \$73.20 \$105.67 \$45.35 7 DIRECT COSTS \$9.39 \$11.67 \$7.94 9 CHEMICALS .26 .44 .11 10 SEED & OTHER 8.87 11.33 7.30 11 SPECIAL HIRED LABOR 4.07 9.44 .64 12 CUSTOM WORK HIRED 4.07 9.44 .64 14 TOTAL DIRECT COSTS \$22.59 \$32.88 \$15.99 15 RETURN OVER DIRECT COSTS \$50.61 \$72.79 \$29.36 16 ALLOCATED COSTS \$50.61 \$72.79 \$29.36 17 HARM POWER & MACHINERY - OWNERSHIP \$16.63 \$12.05 \$19.55 18 FARM POWER & MACHINERY - OWNERSHIP \$16.63 \$12.05 \$19.55 1			PEF	ACRE	Ŧ	PER ACRE	Р	ER ACRE
2 YIELD (TONS) 4.0 6.6 2.1 3 VALUE PER PRODUCTION UNIT 18.38 15.46 21.31 4 CROP PRODUCT RETURN \$ 73.20 \$ 105.67 \$ 45.35 6 TOTAL CROP RETURN \$ 73.20 \$ 105.67 \$ 45.35 7 DIRECT COSTS \$ 9.39 \$ 11.67 \$ 7.94 9 CHEMICALS .26 .44 .11 10 SEED & OTHER 8.87 11.33 7.30 12 CUSTOM WORK HIRED 4.07 9.44 .64 13 IRRIGATION OPERATION \$ 22.59 \$ 32.88 \$ 15.99 15 RETURN OVER MIRECT COSTS \$ 50.61 72.79 \$ 29.36 * 16 ALLOCATED COSTS \$ 50.61 72.79 \$ 29.36 * 18 FARM POWER & MACHINERY - OWNERSHIP \$ 16.63 \$ 12.05 \$ 19.55 18 FARM POWER & MACHINERY - OWNERSHIP \$ 16.63 \$ 12.05 \$ 19.55 19 IAND COSTS \$ 23.96 23.77 24.15 21 <	٦	ACRES (TOTAL)			-	18.0		28.2
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30BREAKEVEN YIELD/UNITS OF PRODUCTION4.705.564.0631TOTAL LISTED COSTS PER ACRE\$ 86.30\$ 85.94\$ 86.56 *32OTHER POSSIBLE COSTS NOT LISTED)			
31 TOTAL LISTED COSTS PER ACRE \$ 86.30 \$ 85.94 \$ 86.56 * 32 OTHER POSSIBLE COSTS NOT LISTED								
33 UTILITIES & OTHER GEN. FARM EXP.			\$	86.30	ţ	85.94	\$	86.56 *
33A BUILDINGS, FENCES & TILING COSTS								
34 INTEREST ALLOCATION 35 OTHER COSTS NOT LISTED	33							
35 OTHER COSTS NOT LISTED	33A	-						
	34							and the second
36 TOTAL COSTS								
	36	TOTAL COSTS						

TABLE 10 - CROP DATA FOR GRAIN SILAGE - 1978

TABLE	10	-	CROP	DATA	FOR	CORN	3	SORGHUM	SILAGE	- 1978

	THE TO - CROT DATA TOR CORV & SURGION STEASE				158 FARMS HIGH	 158 FARMS LOW
		PEI	ACRE		PER ACRE	PER ACRE
	ACRES (TOTAL)		26.5		25.5	27.3
2			10.2		13.4	7.3
3	VALUE PER PRODUCTION UNIT		15.03		15.10	14.95
	CROP PRODUCT RETURN	\$			201.92	\$ 108.42
5	OTHER CROP INCOME		1.25		2.55	.04
6	TOTAL CROP RETURN	\$	154.95	\$	204.47	\$ 108.46 *
7	DIRECT COSTS					
8	FERTILIZER	\$	18.64	\$	21.02	\$
9	CHEMICALS		5.89		6.90	4.95
10	SEED & OTHER		8.60		9.49	7.69
11	SPECIAL HIRED LABOR		.04			.07
12	CUSTOM WORK HIRED		3.13		3.45	2.89
13	IRRIGATION OPERATION					
14	TOTAL DIRECT COSTS	\$	36.30	\$	40.86	\$ 32.16
15	RETURN OVER DIRECT COSTS	\$	118.65	\$	163.61	\$ 76.30 *
16	ALLOCATED COSTS					
17	FARM POWER & MACHINERY-OWNERSHIP	\$	19.52	\$	19.52	\$ 19.67
18	FARM POWER & MACHINERY - OPERATION		21.53		22.79	20.35
19	IRRIGATION EQUIPMENT - OWNERSHIP					
20	LAND COSTS		21.73		24.71	18.73
21	MISCELLANEOUS COSTS		.04		.04	
22	*INTEREST ON MACH. & EQUIP. INVESTMENT		7.18		7.58	6.83
23	TOTAL ALLOCATED COSTS	\$	70.04	\$	74.72	\$ 65.58
24	RETURN OVER ALL LISTED COSTS	\$	48.61	\$	88.89	\$ 10.72 *
25	SUPPLEMENTARY MANAGEMENT INFORMATION					
26	WORK UNITS ASSIGNED PER ACRE		.60		.60	.60
27	POWER COSTS ALLOCATION FACTOR		.99		1.01	.98
28	TOTAL LISTED COST PER UNIT OF PRODUCTION		10.39		8.64	13.47
29	RETURN OVER LISTED COSTS PER UNIT		4.76		6.65	1.48
30	BREAKEVEN YIELD/UNITS OF PRODUCTION		7.08		7.65	6.54
31	TOTAL LISTED COSTS PER ACRE	\$		\$	115.58	\$
32	OTHER POSSIBLE COSTS NOT LISTED					
33	UTILITIES & OTHER GEN. FARM EXP.					
33A	BUILDINGS, FENCES & TILING COSTS			, ·		
34	INTEREST ALLOCATION				· · · ·	
35	OTHER COSTS NOT LISTED					
36	TOTAL COSTS	-			· ••••••	

TAB	LE 10 -CROP DATA FOR CORN & SORGHUM SILAGE	(IRR	IGATED) -	19	978		
		A	VERAGE OF		3 FARMS		FARMS
		7	FARMS		HIGH	L(WC
		וק	ER ACRE		PER ACRE	PE	R ACRE
-			25.3		17.7		34.6
1	ACRES (TOTAL)		14.5		18.5		12.3
2	YIELD (TON)		13.70		11.63		15.33
3	VALUE PER PRODUCTION UNIT	ć	198.18	\$		\$	
4	CROP PRODUCT RETURN	Ş	190.10	Ŷ	210.04	Ŷ	1001/0
5	OTHER CROP INCOME	~	100 10	\$	215.54	\$	188.76 *
6	TOTAL CROP RETURN	Ş	198.18	Ş	210.04	Ŷ	100.70
7	DIRECT COSTS				a : a	~	07 60
8	FERTILIZER	\$		\$		\$	27.60
9	CHEMICALS		8.89		7.18		9.62
10	SEED & OTHER		11.07		14.29		9.22
11	SPECIAL HIRED LABOR						
12	CUSTOM WORK HIRED		1.66		4.46		
13	IRRIGATION OPERATION		6.60		7.97		5.98
14	TOTAL DIRECT COSTS	\$	52.65	\$	58.53	\$	52.42
15	RETURN OVER DIRECT COSTS	\$	145.53	\$	157.01	\$	136.34 *
16	ALLOCATED COSTS						
17	FARM POWER & MACHINERY - OWNERSHIP	\$	15.66	\$	15.72	\$	14.80
18	FARM POWER & MACHINERY - OPERATION		24.32		21.88		26.18
19	IRRIGATION EQUIPMENT - OWNERSHIP		30.32		27.51		30.12
20	LAND COSTS		24.29		23.33		25.00
20	MISCELLANEOUS COSTS						
22	*INTEREST ON MACH. & EQUIP. INVESTMENT		7.27		6.86		5.76
23	TOTAL ALLOCATED COSTS	Ś	101.86	\$	95.30	\$	101.86
23 24	RETURN OVER ALL LISTED COSTS	\$		\$		\$	34.48 *
25	SUPPLEMENTARY MANAGEMENT INFORMATION		.80		. 80		. 80
26	WORK UNITS ASSIGNED PER ACRE		1.00		1.00		1.00
27	POWER COSTS ALLOCATION FACTOR	N T	10.68		8,30		12.53
28	TOTAL LISTED COST PER UNIT OF PRODUCTION	14			3.33		2.80
29	RETURN OVER LISTED COSTS PER UNIT		3.02		13.23		10.06
30	BREAKEVEN YIELD/UNITS OF PRODUCTION	د ا	11.28	~		÷	154.28 *
31	TOTAL LISTED COSTS PER ACRE	7.7	5 154.51	\$	153.83	Ş	104.20 "
32	OTHER POSSIBLE COSTS NOT LISTED						
33	UTILITIES & OTHER GEN. FARM EXP.						
33 <i>4</i>	BUILDINGS, FENCES & TILING COSTS						
34	INTEREST ALLOCATION						
35	OTHER COSTS NOT LISTED						
36	TOTAL COSTS						

TABLE 10 -CROP DATA FOR CORN & SORGHUM SILAGE (IRRIGATED) - 1978

TABLE 10 - (CROP	DATA	FOR	PULP		T8.\8
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	10 - CROP DATA FOR PULP - 1978	RAGE OF ARMS
		CORD
l A	CRES	
	IELD (TOTAL CORDS)	279
3 V	ALUE PER PRODUCTION UNIT	31.20
4 C	ROP PRODUCT RETURN	\$ 31.20
5 0	THER CROP INCOME	
5	TOTAL CROP RETURN	\$ 31.20 *
	IRECT COSTS	
3	FERTILIZER	\$
3	CHEMICALS	
0	STUMPAGE & OTHER	1.15
L	SPECIAL HIRED LABOR	
2	CUSTOM WORK HIRED	1.79
3	LOGGING EQUIPMENT OPERATION	2.54
4	TOTAL DIRECT COSTS	\$ 5.48
5 R	ETURN OVER DIRECT COSTS	\$ 25.72 *
	LLOCATED COSTS	
7	FARM POWER & MACHINERY - OWNERSHIP	\$ 3.14
3	FARM POWER & MACHINERY - OPERATION	1.43
9	LOGGING EQUIPMENT - OWNERSHIP	.54
0	LAND COSTS	
1	MISCELLANEOUS COSTS	
	*INTEREST ON MACH. & EQUIP. INVESTMENT	.64
3	TOTAL ALLOCATED COSTS	\$ 5.78
4 R	ETURN OVER ALL LISTED COSTS	\$ 19.94 *
5 S	UPPLEMENTARY MANAGEMENT INFORMATION	
6	WORK UNITS ASSIGNED PER UNIT	. 30
7	POWER COSTS ALLOCATION FACTOR	.51
8	TOTAL LISTED COST PER UNIT OF PRODUCTION	11.25
9	RETURN OVER LISTED COSTS PER UNIT	19.95
0	BREAKEVEN YIELD/UNITS OF PRODUCTION	.36
1	TOTAL LISTED COSTS PER UNIT	\$ 11.26 *
2	OTHER POSSIBLE COSTS NOT LISTED	
3	UTILITIES & OTHER GENERAL FARM EXPENSES	
ЗA	BUILDINGS, FENCES & TILING COSTS	and the second s
4	INTEREST ALLOCATION	
5	OTHER COSTS NOT LISTED	
6	TOTAL COSTS	· <u>····································</u>

*DOES NOT INCLUDE INTEREST ON INVESTMENT IN LOGGING EQUIP OR LAND

COSTS AND RETURNS FROM LIVESTOCK ENTERPRISES

Productive livestock enterprises are an important part of the farm business in all but a few of the farms involved in this report. Tables 11 through 16A pertain to the major livestock enterprises.

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

Other Direct Costs are those costs which have been identified as cash costs attributable to the enterprise and recorded as such in the record.

Allocated costs are calculated costs and are derived by first allocating the total cost for each catagory between the crops and livestock; then further allocating the livestock portion to each livestock enterprise on a work unit basis.

In calculating the total return for the enterprise, the inventory change, purchase and sale of livestock, value of animals butchered, products sold, and products used in the home are considered in order to arrive at the total income or net increase for the enterprise. The net increase is divided by the net quantity produced or number of head to arrive at a per unit figure for comparison.

Feed costs are determined from feed records kept by the farm operator. Purchase price is used for all purchased feeds. An average price is charged for farm grown feed.

The items listed as Supplementary Management Information provides further clues to the reasons for good, bad, or average livestock returns.

All livestock costs and returns are computed on a annual basis. Thus, with feeder enterprises, inventories of feeder animals are involved. In such cases, the amount indicated as "Price Per Cwt. Bought" is the cost of those animals on hand at the end of the year; likewise, the amount given as "Price Per Cwt. Sold" is the price received for animals sold during the twelve month period, most of which were animals on hand at the beginning of the year.

TABI	LE 11A - HOGS, FARROW, FINISH, GENERAL	- <u>1</u>	ERAGE OF		6 FARMS		6 FARMS
			FARMS		HIGH IN		
		12	I ANIO		RETURN		RETUPN
					VE FEED		
	POUNDS OF HOGS PRODUCED		26679		.8628	3	4730
1	POUNDS OF HOGS PRODUCED		ER CWT				PER CWT
~	NOT THOSEACE IN MALLE OF HOCS		62.54	Ś.	ER CWT 71.23	\$	57.89
	NET INCREASE IN VALUE OF HOGS OTHER MISCELLANEOUS HOG INCOME	Ŷ	02.01	Ŧ			
3	TOTAL VALUE PRODUCED	\$	62.54	\$	71.23	\$	57.89 *
4	POUNDS OF FEED FED	Ŷ	0210	,			
5			341.8		224.1		405.0
6	CORN		56.9		51.6		59.8
7	SMALL GRAIN COMPLETE RATION		41.7		51.2		36.7
8	PROTEIN, SALT & MINERAL & MILK		50.2		52.2		49.2
			490.6		379.1		550.7
10			28.1		13.4		36.0
	FORAGES		2012				•
12	FEED COSTS		13.55		9.15		15.91
13	GRAINS		4.79		5.92		4.18
14	COMPLETE RATION		6.30		6.59		6.15
	PROTEIN, SALT & MINERAL & MILK		.58		.27		.74
	FORAGES		.03				.04
	PASTURE	\$		\$	21.93	\$	27.02
18	TOTAL FEED COSTS	Ų	20.20	*			
• •		\$	37.29	\$	49.30	\$	30.87 *
19	RETURN OVER FEED COSTS	4	0,120	•			
20	OTHER DIRECT COSTS						
20			.75		.53		.87
21	VETERINARY EXPENSE		.69		1.10		.48
			1.71		.63		2.29
	CUSTOM WORK SPECIAL HIRED LABOR						
24 25		\$	3.15	\$	2.26	\$	3.64
20	TOTAL OTHER DIRECT COSTS						
26	RETURN OVER FEED & OTHER DIRECT COSTS	\$	34.14	\$	47.04	\$	27.23 *
20							
27	ALLOCATED COSTS						
28	POWER & MACHINERY COSTS		1.91		2.07		1.84
	LIVESTOCK EQUIPMENT COSTS		1.95		2.19		1.83
	BUILDING & FENCES		2.12		2.47		1.94
31	TOTAL ALLOCATED COSTS	\$	5.98	\$	6.73	\$	5.61
01							
32	RETURN OVER ALL LISTED COSTS	\$	28.16	\$	40.31	\$	21.62 *
33	SUPPLEMENTARY MANAGEMENT INFORMATION						
34	RETURN FOR \$100 FEED FED		247.71				214.24
35	PRICE RECEIVED PER CWT ALL ANIMALS		56.40		63.75		52.62
36	PRICE REC. PER CWT SOLD MKT ONLY						20
37	NUMBER OF LITTERS FARROWED		27		21		32
38	NUMBER OF PIGS BORN PER LITTER		8.9		9.9		8.5
39	NUMBER OF PIGS WEANED PER LITTER		5.6		6.0		5.5
40	PERCENT DEATH LOSS		26.1		29.3		24.1
41			193.0		173.5		203.6
42		•					
43	DRICE PER OUT CONCENTRATE FED		5.02		5.71		4.76
44		RAL	12.55		12.62		12.50
45	DOIMDS OF PORK PURCHASED		2087		322T		
46		(FR	DD. \$ 34	.38	\$ 3	80.92	\$36.27
40]		_		-	
47				-	المحكورية القريبي فيستجربون	-	
40				-		-	
50				-		-	
50	-40-	-					

-40-

TAB	LE 11C - HOGS, MEANING PIG PRODUCTION - 1978	AVERAGE OF 59 FARMS	HIGH IN RETURN	LOW IN
		55	ABOVE FEED	41
1	NUMBER OF LITTERS FARROWED	ככ ספיייידו מיומ		R PER LITTER
	NET THORE IN HALVE OF HOOD	<u>\$ 405.89</u>	\$ 563.18	\$ 289.39
	NET INCREASE IN VALUE OF HOGS	5 40J.05	Ç 000110	
3	OTHER MISCELLANEOUS WEANING PIG INCOME	\$ 405.89	\$ 563.18	\$ 289.39 *
4	TOTAL VALUE PRODUCED	Ş 400.00	φ στα τ	
5	POUNDS OF FEED FED			
6	CORN		1856.1	
7	SMALL GRAIN		843.3	
8	COMPLETE RATION		205.8	
	PROTEIN, SALT & MINERAL & MILK		718.9	
10	TOTAL CONCENTRATES		3624.1	
11	FORAGES		140.8	93.5
12	FEED COST			<u> </u>
13	GRAINS	64.73	78.00	69.90
14	COMPLETE RATION		23.00	
15	PROTEIN, SALT & MINERAL & MILK	47.15		27.34
16	FORAGES	3.71		
	PASTURE	.20		
18	TOTAL FEED COSTS	\$ 154.55	\$ 187.33	\$ 177.56
19	RETURN OVER FEED COSTS	\$ 251.34	\$ 375.85	\$ 111.83 *
~ •				
20	OTHER DIRECT COSTS MISCELLANEOUS LIVESTOCK EXPENSE	7,11	10.90	7.49
21	VETERINARY EXPENSE		3.63	
		3.62	1.78	
	CUSTOM WORK SPECIAL HIRED LABOR	0.02		
	TOTAL OTHER DIRECT COSTS	\$ 15.71	\$ 16.31	\$ 14.98
25	TOTAL OTHER DIRECT CODID	+		
26	RETURN OVER FEED & OTHER DIRECT COSTS	\$ 235.63	\$ 359.54	\$ 96.85 *
27	ALLOCATED COSTS			10.05
28	POWER & MACHINERY COSTS	17.80	13.79	-
29	LIVESTOCK EQUIPMENT COSTS	8.59		
30	BUILDING & FENCES	16.82		
31	TOTAL ALLOCATED COST	\$ 43.21	\$ 38.83	Ş 30.23
32	RETURN OVER ALL LISTED COSTS	\$ 192.42	\$ 320.71	\$ 60.60 *
~~	SUPPLEMENTARY MANAGEMENT INFORMATION			
33	RETURN FOR \$100 FEED FED	262.64	300.64	162.98
34	AVERAGE PRICE REC. PER ANIMAL SOLD	52.68		50.29
35	AVERAGE PRICE PER PIG SOLD OR TRANS.	46.79		
36	AVERAGE WT. PER PIG SOLD OR TRANS.	42.6	38.5	
37 38	NUMBER OF PIGS PRODUCED	397	369	
	NUMBER OF PIGS BORN PER LITTER	9.4	10.6	
39 40	NUMBER OF PIGS BORN THE HITTER	7.2	9.2	
40 41		18.9	10.1	
41	PRICE PER OWT CONCENTRATE FED		5.09	
42 43	THE THE OWEN C MENTROAT TED	10.87	11.62	
43 44		23.59	22.0	
44 45		\$ 213.47	\$ 242.4	7 \$ 228.79 *
45 46	THE THE A ATTEND OF A DADA TYDENCE			A subject of the second se
46 47				
47				
40				
+3	-41-			

ī A.J.	LE 12 - DAIRY COWS, COMMERCIAL, GENERA	AL.	- <u>1978</u>		32 FARMS		32 FARMS		
			AVERAGE (HIGH IN)	LOW		
			TOS LAKAS	2	RETURN	F	RETURN		
				1	BOVE FEEI			D	
			34.5		35.3		30.5		
1	AVERAGE NUMBER OF COWS		PER COW						
_			<u>FER COW</u>		14134	-	10330		
2	POUNDS OF MILK POUNDS OF BUTTERFAT PERCENT OF BUTTERFAT IN MILK		12373		511 2		385.7		
3	POUNDS OF BUTTERFAT		462.0		3.6		3.7		
4	PERCENT OF BUTTERFAT IN MILK		3.0				0.		
5	VALUE OF PRODUCE	~	100E 10	ć	1105 33	Ś	976.49		
6	VALUE OF PRODUCE DAIRY PRODUCTS SOLD DAIRY PRODUCTS USED IN HOME MILK FED TO LIVESTOCK NET INCREASES IN VALUE OF COWS	Ş	1205.40	ړي ر	1403.00	Ŷ	8,49		
7	DAIRY PRODUCTS USED IN HOME		8.30		11 09		11,15		
8	MILK FED TO LIVESTOCK		14.72		100.66	(_104 98)		
9	NET INCREASES IN VALUE OF COWS		11.30		109.00	(-	-10+.50)		
10	OTHER MISCELLANEOUS DAIRY INCOME TOTAL VALUE PRODUCED			~	1507 07	Ċ	001 15 \$	•	
11	TOTAL VALUE PRODUCED	Ş	T538.88	Ş	T221.31	Ļ	091.10		
12	POINDS OF FEFD FFD								
13	CORN .		3349.3		3416.0	-	4233.3		
14	SMALL GRAIN		823.6		892.7		/3/.3 2 7 1 1 1		
15	CORN SMALL GRAIN COMPLETE RATION PROTEIN, SALT & MINERAL TOTAL CONCENTRATES LEGUME HAY OTHER HAY & DRY ROUGHAGE SILAGE		1204.3		949.0	-	101 0 TTT\.0		
16	PROTEIN, SALT & MINERAL		885.0		T320.1		491.9 66110 7		
17	TOTAL CONCENTRATES		6262.2		6608.4	(
18	LEGUME HAY		5955.3		5432.4	t	04/4.0 700 0		
19	OTHER HAY & DRY ROUGHAGE		467.4		148.0		749.0		
20	SILAGE		12501.8		11048.3	T.	2444.5		
21	FEED COSTS GRAINS COMPLETE RATION PROTEIN, SALT & MINERAL ALL HAY & DRY ROUGHAGE SILAGE PASTURE TOTAL FEED COSTS RETURN OVER FEED COST						1 7 0 1 0		
22	GRAINS		139.39		145.47		170.10		
23	COMPLETE RATION		82.55		57.22		73.28		
24	PROTEIN, SALT & MINERAL		66.30		75.61		58.92		
25	ALL HAY & DRY ROUGHAGE		137.36		124.36		150.23		
26	SILAGE		97.68		84.59		97.64		
27	PASTURE		6.70		6.66		6.33		
28	TOTAL FEED COSTS	\$	530.58	\$	493.91	Ş	556.50	۹.	
29	RETURN OVER FEED COST	\$	709.30	\$	1044.06	Ş	334.65 *	1	
30	OTHER DIRECT COSTS								
31	MISOFLIANFOUS LIVESTOCK EXPENSE		40.23		51.33		34.33		
32	VETERINARY EXPENSE		1/.05		10.00				
	CUSTOM WORK HIRED		34.90		36.71		29.57		
	CUSTOM WORK HIRED SPECIAL HIRED LABOR TOTAL OTHER DIRECT COSTS		.14		.71				
35	TOTAL OTHER DIRECT COSTS	\$	92.92	\$	107.70	Ş	82.26		
36	RETURN OVER FEED & OTHER DIRECT COST	'S\$	616.38	\$	936.36	Ş	252.39		
37	ALLOCATED COSTS								
38	POWER & MACHINERY COSTS		48.41				45.51		
			35.47		39.30		45.40		
	BUILDING & FENCES		48.46		60.90		38.76		
41	LIVESTOCK EQUIPMENT COSTS BUILDING & FENCES TOTAL ALLOCATED COSTS RETURN OVER ALL LISTED COSTS	ç	132.34	Ş	152.27	\$	5 129.67		
42	PETURN OVER ALL LISTED COSTS	Ś	494.04	ç	784.09	Ç	5 122.72	×	
43	SUDDIEMENTADY MANACEMENT INFORMATION	<u> </u>							
43 44	RETURN OVER ALL LISTED COSIS SUPPLEMENTARY MANAGEMENT INFORMATION RETURN FOR \$100 FEED FED		233.68		311.39		160.14		
44 45	FEED COST PER CWT. MILK		4.22		3.50		0.00		
45 46			1.15		.97		1.44		
40 47	POUNDS OF MILK PER POUND OF CONCEN	1.1.1	ZATE ZOUL		2.14		1.56		
47 48	AVE DETCE DED OUT MILK SOLD		5.00		10.25				
48 49			0 71		2 00		2.58		
49 50	AVE. PRICE PER POUND OF BUTTERFAT TOTAL LISTED COSTS PER CWT. MILK H	PR))) U•01		0.00		7.44		
50 51	DAIRY COW TURNOVER FERCENTAGE		31.9		28.3		29.5		
51 52	DAIRY COW TURNOVER FERCENTAGE TOTAL LISTED COSTS PER COW	\$	\$ 755.84	9	\$ 753.88	\$	768.43	Ŵ	
52	UTILITIES & OTHER GEN. FARM EXP.		_						
53 54			· · · · · · · · · · · · · · · · · · ·						
	OTHER COSTS NOT LISTED								
55 56	TOTAL COSTS								
90	-4	2-							

	LE 13 - OTHER DAIRY, COMMERCIAL, REPLACE	A	VERAGE OF		41 FARMS		FARMS	
		2	06 FARMS				W IN	
					RETURN		TURN	
				ABO	VE FEED	ABOV	E FEED	
1	NUMBER OF HEAD		41.7		39.9			
		Р	ER HEAD	1	PER HEAD	PE	R HEAD	
2	NET INCREASE IN VALUE	\$	364.70	\$	537.77	\$	226.63	
3	OTHER MISCELLANEOUS INCOME							
4	TOTAL INCOME	Ś	364.70	\$	537.77	\$	226.63	*
-								
5	POUNDS OF FEED FED							
6	CORN		481.1		608.4		498.2	
7	SMALL CRAIN				184.7		134.7	
8	COMPLETE RATION PROTEIN, SALT & MINERALS HAY & DRY ROUGHAGE		201.8		234.0		261.3	
	DECTETN CALT & MINEDALS		89.7		88.2		166.1	
9	HAY C DDY DOUGHAGE		2242.4				371.1	
0			4816.3				374.5	
1	SILAGE		119.2		90.3			
2	MILK		110.2		30.0		100.0	
3	FEED COSTS		23.09		26.79		21.54	
4	GRAINS						15.90	
5	COMPLETE RATION		13.00		13.18		9.61	
6	PROTEIN, SALT & MINERALS HAY & DRY ROUGHAGE		9.28				63.71	
7	HAY & DRY ROUGHAGE		43.29		38.52			
.8	SILAGE		38.54		43.58		41.88	
9	MILK		10.89		8.22		12.42	
0	PASTURE		5.20		5.31		4.19	
1	TOTAL FEED COSTS	\$	143.29	\$	147.25	Ş	169.25	
2	RETURN OVER FEED COSTS	\$	221.41	\$	390.52	\$	57.38	*
-								
3	OTHER DIRECT COSTS							
4	MISCELLANEOUS EXPENSE				3.36			
25	VETERINARY EXPENSE		1.75		2.06		1.01	
26	CUSTOM WORK HIRED		1.80		1.73		1.46	
7	SPECIAL HIRED LABOR							
8	TOTAL OTHER DIRECT COSTS	\$	6.19	\$	7.15	\$	4.63	
-								
9	RETURN OVER FEED & OTHER DIRECT COSTS	\$	215.22	\$	383.37	\$	52.75	*
-								
0	ALLOCATED COSTS							
1	POWER & MACHINERY COSTS		8.74		9.16		8.94	
2	LIVESTOCK EQUIPMENT COSTS		6.25		7.88		5.20	
3	•		10.61				9.88	
34	TOTAL ALLOCATED COSTS	\$	25.60	\$	35.51	\$	24.02	
	RETURN OVER ALL LISTED COSTS	\$	189.62	Ş	347.86	\$	28.73	
35	KEIUKN UVER ALL LISIED CUSIS	4 		7 				
	SUPPLEMENTARY MANAGEMENT INFORMATION							
36			254.53		365.23		133.91	
37	RETURN FOR \$100 FEED FED		8.9		7.4		8.8	
88	PERCENT DEATH LOSS-TOTAL		16.2		12.8		18.8	
39	PERCENT CALF DEATH LOSS	¢			189.91	Ś	197.90	*
+0	TOTAL LISTED COSTS PER HEAD	Ļ	1,0,00	Ŷ		7		
+1	UTILITIES & OTHER GEN. FARM EXP.					-		-
12	INTEREST ALLOCATION					-		-
ŧ3	OTHER COSTS NOT LISTED					•		-
44	TOTAL COSTS							

TABLE 13 - OTHER DAIRY, COMMERCIAL, REPLACEMNTS - 1978

<u>AD</u>	LE 14 - ALL DAIRY AND DUAL PURPOSE CATTLE	AVE	ERAGE OF		5 FARMS		FARMS	
		22	5 FARMS		IGH IN ETURN	LOW RET		
			A		E FEED			
,	AVERAGE NUMBER OF COWS		35.4		39.2		33.8	
T	AVERAGE NOMBER OF COMS	PE		PEI	R COW	PE	R COW	
2	VALUE OF DAIRY PRODUCTS		1236.16		1394.16	1	035.50	
2 3	NET INCREASE IN VALUE		465.76		812.96		146.69	
4	MISCELLANEOUS DAIRY INCOME							
5	TOTAL VALUE PRODUCED	\$	1701.92	\$	2207.12	1	182.19	5
)								
5	POUNDS OF FEED FED		4808.1		4884.7	5	416.6	
7	GRAINS		1716.5		1816.9		349.0	
3	COMPLETE RATIONS PROT.,SALT & MIN. INC. MILK EQUIV.				927.4		772.4	
9	TRUT., SALI G MIN. INC. MILK EQUIV.		8894.0		9177.2			
0	HAY & DRY ROUGHAGE		8238.3		19123.6		645.6	
1	SILAGE	-						
2	FEED COST		160.03		165.00		177.81	
3	GRAINS		106.38				98.43	
4	COMPLETE RATIONS		102.74				102.37	
	PROT., SALT & MIN. INC. MILK		186.24		201.71		200.65	
6	HAY & DRY ROUGHAGE		145.17				148.37	
7	SILAGE		13.56		14.08		7.84	
8	PASTURE COSTS TOTAL FEED COSTS	Ś	714.12				735.47	
9	TOTAL FLED COSTS					~	446.72	
0	RETURN OVER FEED COSTS	\$	987.80	\$	1445.95	. Э	440.72	
1	OTHER DIRECT COSTS				55.15		32.04	Ł
2	MISCELLANEOUS LIVESTOCK EXPENSE		45.62		23.90		18.28	
3	VETERINARY EXPENSE		20.65 38.11		41.28		30.56	
4	CUSTOM WORK		.93	,	2.83		00.00	·
5	SPECIAL HIRED LABOR	\$	105.31	\$			80.88	3
6	TOTAL OTHER DIRECT COSTS	Ļ	100.01	Ŷ				
27	RETURN OVER FEED & OTHER DIRECT COSTS	\$	882.49	\$	1322.79	\$	365.84	ł
8	ALLOCATED COSTS				61.53		55.74	+
29	POWER & MACHINERY COSTS		60.05 43.84		52.96		39.51	
30	LIVESTOCK EQUIPMENT COSTS		43.84 66.74		85.76		40.89	
31	BUILDING & FENCES	\$		Ś	200.25		136.14	
32	TOTAL ALLOCATED COSTS	Ś	711.86	Ş			229.70	
33	RETURN OVER ALL LISTED COSTS	¥		т				
34	SUPPLEMENTARY MANAGEMENT INFORMATION		238.32		289.96		160.7	4
35	RETURN FOR \$100 FEED FED	Ś		\$			952.49	9
36	TOTAL LISTED COSTS PER COW	Ş	330.00	Ļ	TOOTOO	· •		-
37						-		
38					. 	-		-
39						-		
+0	TOTAL COSTS						and the second second	

TARLE	14	- ALL	DATRY	AND	DUAL	PURPOSE	CATTLE	- 197

53 FARMS HIGH IN RETURN ABOVE FEED LOW IN RETURN ABOVE FEED AVERAGE NUMBER OF BEEF COWS AVG. NUMBER OF OTHER BEEF ANIMALS & BULLS AVG. NUMBER OF OTHER BEEF ANIMALS & BULLS AVG. NUMBER OF OTHER BEEF ANIMALS & BULLS AVG. NUMBER OF OTHER BEEF ANIMALS & BULLS POUNDS OF BEEF PRODUCED 32.2 33.3 24.7 POUNDS OF BEEF PRODUCED 17512 16165 12113 POUNDS OF BEEF INCOME TOTAL VALUE PRODUCED \$ 437.72 \$ 707.95 \$ 216.34 OTHER MISCELLANEOUS BEEF INCOME TOTAL VALUE PRODUCED \$ 437.72 \$ 707.95 \$ 216.34 POUNDS OF FEED FED GRAIN 247.3 212.6 243.2 PROTEIN, SALT & MINERAL 47.7 65.3 11.0 LEGUME HAY 4130.4 5879.0 2810.0 OTHER HAY & DRY ROUGHAGE 1577.2 683.3 1365.1 SILAGE 3061.1 3992.0 3949.4 FEED COST GRAIN 9.22 7.73 10.29 PROTEIN, SALT & MINERAL 6.13 6.03 .99 SILAGE 23.77 32.52 28.98 SILAGE 23.77 32.52 28.98 SILAGE 23.7		LE 15A - BEEF BREEDING, FARM, WHOLE HERD, (AVERAGE O	F	11 FARMS	1	1 FARMS
RETURN RETURN FEED COST GRAIN 9.22 7.73 10.29 GRAIN <th></th> <th></th> <th></th> <th></th> <th>•</th> <th>HIGH IN</th> <th>T.</th> <th>OW IN</th>					•	HIGH IN	T.	OW IN
ANDER OF BEEF COMS 40.8 21.7 45.3 AVERAGE NUMBER OF OTHER BEEF ANIMALS & BULLS 32.2 33.3 24.7 POURDS OF BEEF PRODUCED \$ 17512 16165 121.3 POURDS OF BEEF PRODUCED \$ 137.72 \$ 707.95 \$ 216.34 TOTAL VALUE PRODUCED \$ 437.72 \$ 707.95 \$ 216.34 OTHER MISCILAMEOUS BEEF INCOME TOTAL VALUE PRODUCED \$ 437.72 \$ 707.95 \$ 216.34 FOUNDS OF FEED FED GRAIN 247.3 212.6 243.2 PROTEIN, SALT & MINERAL 47.7 65.3 11.0 LEGOME HAY \$ 507.0 2210.0 394.4 FEED COST \$ 21.61 11.86 5.21.2 GRAIN \$ 9.22 7.73 10.29 PROTEIN, SALT & MINERAL \$ 6.13 6.03 .99 LECOME HAY \$ 22.62 28.96 26.47 30.46 OTHER MAY & DRY ROUGHAGE \$ 11.86 \$ 187.67 \$ 145.69 PASTURE \$ 275.91 \$ 520.28 \$ 70.65 OTHER MAY & DRY ROUGHAGE \$ 161.61 <th></th> <th></th> <th></th> <th>50 I Millo</th> <th></th> <th>DETIIDN</th> <th>D</th> <th>FTUDN</th>				50 I Millo		DETIIDN	D	FTUDN
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NET INCREASE IN VALUE PER COM HER MISCELLANEOUS SEEF INCOME TOTAL VALUE PRODUCED PER COM H37.72 PER COM FOR TOTAL VALUE PRODUCED PER COM H37.72 PER COM H33.72 PER COM H33.73 PER COM H48.73 PER COM H48.		POUNDS OF BEEF PRODUCED		17512		16165		12113
OTHER MISCELLANEOUS SEEF INCOME TOTAL VALUE PRODUCED \$ 437.72 \$ 707.95 \$ 216.34.5 POUNDS OF FEED FED GRAIN 247.3 212.6 243.2 47.7 65.3 11.0 PROTEIN, SALT & MINERAL LEGUME HAY 47.7 65.3 11.0 DIEGUME HAY 1577.2 883.3 1385.1 3061.1 3992.0 3949.4 FEED COST GRAIN 9.22 7.73 10.29 8.3 1385.1 3061.1 3992.0 3949.4 FEED COST GRAIN 9.22 7.73 10.29 8.3 1385.1 3061.1 3992.0 3949.4 FEED COST GRAIN 9.22 7.73 10.29 8.1 1.86 25.81 9.22 7.73 10.29 9.20 3949.4 FEED COST GRAIN 9.22 7.73 10.29 8.1 36.03 .99 9.22 7.73 10.29 9.20 3949.4 FEED COST GRAIN 9.22 7.73 10.29 8.1 36.03 .99 7074L FEED COST \$ 106.11 8 128.767 \$ 145.69 TOTAL FEED COST \$ 106.16 \$ 187.67 \$ 145.69 RETURN OVER FEED COST \$ 275.91 \$ 520.28 \$ 70.65 * 00 THER DIRECT COSTS \$ 10.98 \$ 11.01 \$ 11.39 CUSTOM WORK 4.19 7.48 5.78 9.09 2.24 2.74 0.04 SPECIAL HIRED LABOR TOTAL OTHER DIRECT COSTS \$ 10.98 \$ 11.01 \$ 11.39 RETURN OVER FEED 6 OTHER DIRECT COSTS \$ 10.98 \$ 11.01 \$ 11.39 RETURN OVER ALL LISTED COST \$ 213.75 \$ 39.87 \$ 97.53 SUPPLEMENTARY MANAGEMENT INFORMATION RETURN OVER ALL LISTED COST \$ 5 11.99 6 15.23 28.15 9.69 11.39 9.45 SUPPLEMENTARY MANAGEMENT INFORMATION RETURN OVER ALL LISTED COST \$ 5 13.77 24 148.48 PRICE PER CMT. SOLD R TRANS. AVG. WEIGHT PER HEAD SOLD ATRANS. AVG. WEIGHT PER HEAD SOLD ATRANS. AVG. WEIGHT PER HEAD SOLD ATRANS. AVG. WEIGHT PER HEAD				PER COW		PER COW	Ρ	ER COW
OTHER MISCELLANEOUS BEEF INCOME TOTAL VALUE PRODUCED \$ 437.72 \$ 707.95 \$ 216.34 * POUNDS OF FEED FED GRAIN 247.3 212.6 243.2 47.7 65.3 11.0 UFGUME HAY & MINERAL LEGUME HAY & DIVENDERS 247.3 212.6 243.2 47.7 65.3 11.0 UFGUME HAY & MINERAL LEGUME HAY & DIVENDERS 247.3 212.6 243.2 47.7 65.3 11.0 UFGUME HAY & MINERAL EGUME HAY & MINERAL SILACE 247.3 212.6 243.2 47.7 65.3 11.0 UFGUME HAY & MINERAL SILACE 247.3 212.6 243.2 47.7 65.3 11.0 UFGUME HAY & MINERAL SILACE 247.3 20.2 883.3 1385.1 3061.1 3932.0 3945.4 FEED COST GRAIN 9.22 7.73 10.29 9.22 7.73 10.29 PROTEIN, SALT & MINERAL OTHER HAY & DIPY ROUGHAGE 21.81 11.86 25.81 2.03 0.6 26.47 30.46 26.47 30.46 TOTAL FEED COST 21.81 11.86 25.82 2.28 98 PASTURE TOTAL FEED COST 22.6 1.29 2.63 VITERINARY EXPENSE CUSTOM WORK 4.19 7.48 5.78 510.98 \$ 11.01 \$ 11.39 VITERINARY EXPENSE UVERIMARY EXPENSE UVERIMARY EXPENSE UVERNOVER FEED & OTHER DIRECT COSTS 2.28 1.29 2.64 3 509.27 \$ 59.26 \$ 01.98 \$ 11.01 \$ 11.39 VITERINARY EXPENSE UVERNOVER ALL DIRECT COSTS 10.98 \$ 11.01 \$ 11.39 VITERINARY EXPENSE UVERNOVER ALL LISTED COSTS 10.98 \$ 11.01 \$ 11.39 VITERINARY EXPENSE UVESTOCK EQUIPMENT COSTS 9.69 11.39 9.45 UILDING & FENCES 21.82 13.25 59.33 TOTAL ALLOCATED COSTS 19.86 15.23 28.15 9.63 11.39 9.45 VILDING & FENCES 21.82 13.25 59.33 VITAL ALLOCATED COSTS 21.82 13.25 59.43 VIL81M OVER ALL LISTED COSTS 21.82 13.75 \$ 24.45 40.70 VITERINARY EXAMPLEMENT ANY ANAGEMENT INFORMATION RETURN OVER ALL LISTED COSTS S		NET INCREASE IN VALUE	Ś	437.72	Ś	707.95	Ś	216.34
TOTAL VALUE PRODUCED \$ 437.72 \$ 707.95 \$ 216.34 \$ POUNDS OF FEED FED GRAIN 247.3 212.6 243.2 PROTEIN, SALT & MINERAL 47.7 65.3 11.0 LEGUME HAY 4130.4 5879.0 2810.0 OTHER HAY & DRY ROUGHAGE 1577.2 883.3 1385.1 SILAGE 3061.1 3992.0 3949.4 FEED COST 9.22 7.73 10.29 GRAIN 9.22 7.73 10.29 PROTEIN, SALT & MINERAL 6.13 6.03 .99 LEGUME HAY 72.82 103.06 49.16 OTHER HAY & DRY ROUGHAGE 21.81 11.66 25.61 SILAGE 23.77 32.52 28.98 PASTURE 28.06 26.47 30.46 TOTAL FEED COST \$ 161.81 \$ 187.67 \$ 145.69 CUTHER DIRECT COSTS \$ 161.81 \$ 187.67 \$ 145.69 OTHER DIRECT COSTS \$ 10.98 \$ 11.01 \$ 11.39 VETERINARY EXPENSE <t< td=""><td></td><td></td><td>Ŷ</td><td>101.12</td><td>Ŷ</td><td></td><td>Ŧ</td><td>120000</td></t<>			Ŷ	101.12	Ŷ		Ŧ	120000
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OTHER HAY & DRY ROUGHAGE 1577.2 883.3 1385.1 SILAGE 3061.1 3992.0 3949.4 FEED COST 3061.1 3992.0 3949.4 FEED COST 9.22 7.73 10.29 PROTEIN, SALT & MINERAL 6.13 6.03 .99 LEGUME HAY 72.82 103.06 49.16 OTHER HAY & DRY ROUGHAGE 21.81 11.86 25.81 SILAGE 23.77 32.52 28.98 PASTURE 28.06 26.47 30.46 TOTAL FEED COSTS \$ 161.81 \$ 187.67 \$ 145.69 RETURN OVER FEED COST \$ 275.91 \$ 520.28 \$ 70.65 \$ OTHER DIRECT COSTS \$ 10.98 11.01 \$ 11.39 \$.04 \$.04 \$.04 \$.04 \$.04 \$.04 \$.04 \$ \$.04 \$ \$.04 \$.04 \$ \$.04 \$ \$.04 \$ \$,		4130.4		5879.0		2810.0
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PERCENT DEATH LOSS 3.8 4.0 3.3 PERCENT CALF CROP TOTAL LISTED COSTS PER COW \$ 224.16 \$ 238.55 \$ 254.61 UTILITIES & OTHER GEN. FARM EXP.		AVG. WEIGHT PER CALF SOLD OR TRANS.		462.0		489.6		470.1
PERCENT CALF CROP TOTAL LISTED COSTS PER COW \$ 224.16 \$ 238.55 \$ 254.61 * UTILITIES & OTHER GEN. FARM EXP. INTEREST ALLOCATION OTHER COSTS NOT LISTED				3.8		4.0		3.3
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INTEREST ALLOCATION			Ş	224.10	Ş	200.00	Ş	204.01 ·
OTHER COSTS NOT LISTED								
		INTEREST ALLOCATION						
		OTHER COSTS NOT LISTED						

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AVERAGE OF 9 FARMS

1	AVERAGE NUMBER OF BEEF FEEDERS		68.6	
	POUNDS OF BEEF PRODUCED	49	9489	
-		PE	R CWT	
3	NET INCREASE IN VALUE OF ANIMALS	\$	68.03	
4	OTHER MISC. BEEF INCOME			
5	TOTAL VALUE PRODUCED	\$	68.03 *	
5				
6	POUNDS OF FEED FED			
7	GRAIN		536.6	
8	PROTEIN, SALT & MINERAL		19.1	
9	LEGUME HAY		278.0	
	OTHER HAY & DRY ROUGHAGE		82.2	
11	SILAGE		998.7	
ᆂ	OTDUOD			
12	FEED COSTS			
13	GRAIN		18.16	
	PROTEIN, SALT & MINERAL		2.62	
	LEGUME HAY		6.15	
	OTHER HAY & DRY ROUGHAGE		1.23	
	SILAGE		7.59	
	PASTURE		.20	
19		\$	35.95	
ت س				
20	RETURN OVER FEED COST	\$	32.08 *	
- •				
21	OTHER DIRECT COSTS			
22	MISC. LIVESTOCK EXPENSE		.79	
23	VETERINARY EXPENSE		.41	
	CUSTOM WORK HIRED		.58	
	SPECIAL HIRED LABOR			
26		\$	1.78	
		*	00 00 *	
27	RETURN OVER FEED & OTHER DIRECT COSTS	\$	30.30 *	
28	ALLOCATED COSTS		1 16	
29	POWER & MACHINERY COSTS		1.16	
30	LIVESTOCK EQUIPMENT COSTS		.78	
31	BUILDING & FENCES	*	.90	
32	TOTAL ALLOCATED COSTS	\$	2.84	
		\$	27.46 *	
33	RETURN OVER ALL LISTED COSTS	Ş	21.40 4	
34	SUPPLEMENTARY MANAGEMENT INFORMATION		189.25	
35	RETURN FOR \$100 FEED FED		48.28	
36	PRICE PER CWT SOLD		48.28	
37	AVERAGE WEIGHT PER HEAD SOLD		1287.5 56.93	
38	PRICE PER CWT BOUGHT		56.93 630.8	
39	AVERAGE WEIGHT PER HEAD BOUGHT			
40	NUMBER OF HEAD BOUGHT		74	
41	PERCENT DEATH LOSS		1.2	
42	EFFECTIVE DAILY GAIN-LBS PER HEAD PER DAY	ـ	1.98	
43	TOTAL LISTED COST PER CNT PRODUCED	\$	40.57 *	
44	UTILITIES & OTHER GEN. FARM EXPENSE		a material and a strategy of the state	
45	INTEREST ALLOCATION		-	
46	OTHER COSTS NOT LISTED			
47	TOTAL COSTS			

	`	AVERAGE OF 5 FARMS
1	AVERAGE NUMBER OF EWES	79.9
2	POUNDS OF LAMB & MUTTON PRODUCED	8453
3	POUNDS OF WOOL PRODUCED	744 PER EWE
4	VALUE OF PRODUCE	
5	WOOL	\$ 7.92
6	NET INC. IN VALUE OF ANIMALS	59.65
7	OTHER MISC. SHEEP INCOME	
8	TOTAL VALUE PRODUCED	\$ 67.57 *
9	POUNDS OF FEED FED	
10	GRAIN	138.3
11	PROTEIN, SALT & MINERAL	2.6
12	LEGUME HAY	753.4
13	OTHER HAY & DRY ROUGHAGE	30.0
14	SILAGE	85.1
15	FEED COST	4.58
16	GRAIN	.24
17	PROTEIN, SALT & MINERAL	14.27
18	LEGUME HAY	.45
19		.64
20	SILAGE	.45
21 22	PASTURE TOTAL FEED COSTS	\$ 20.63
23		\$ 46.94 *
24 25 26	OTHER DIRECT COSTS MISC. LIVESTOCK EXPENSE VETERINARY EXPENSE	1.40 .88
27	CUSTOM WORK	1.93
28	SPECIAL HIRED LABOR	
29	TOTAL OTHER DIRECT COSTS	\$ 4.21
30	RETURN OVER FEED & OTHER DIRECT COSTS	\$ 42.73 *
31	ALLOCATED COSTS	
32	POWER & MACHINERY COSTS	9.39
33	LIVESTOCK EQUIPMENT COSTS	2.41
34	BUILDING & FENCES	3.35
35	TOTAL ALLOCATED COSTS	\$ 15.15
36	RETURN OVER ALL LISTED COSTS	\$ 27.58 *
37	SUPPLEMENTARY MANAGEMENT INFORMATION	
38	RETURN FOR \$100 FEED FED	327.61
39	PRICE PER CWT LAMB & MUTTON SOLD	56.57
40	PRICE PER CWT. LAMB SOLD OR TRANS.	75.73
41	AVG. WEIGHT OF LAMBS SOLD OR TRANS.	71.9
42	POUNDS OF WOOL PER SHEEP SHEARED	
43	NUMBER OF EWES, KEPT FOR LAMBING	
44	PERCENT LAME CROP	
45	PERCENT DEATH LOSS	9.5
46	TOTAL LISTED COSTS PER EWE	\$ 39.99 *
47	UTILITIES & OTHER GEN. FARM EXP.	
48	INTEREST ALLOCATION	
49	OTHER COSTS NOT LISTED	
50	TOTAL COSTS	- Appropriate State State

CASH SUMMARY OF FARM EAD	RNINGS (N	HOLE FARM) 1975-19	78
	1975	1976	1977	1978
ARM RECEIPTS				
DAIRY CATTLE	1604	1350	2117	2823
DAIRY PRODUCTS	11380	16349	23595	27397
OTHER DAIRY	633	1220	1660	2154
BEEF CATTLE (INCL. FEEDERS)	1811	1767	1640	3413
HOGS	2067	2028		4507
SHEEP AND WOOL	73	56	65	72
OTHER PRO. LIVESTOCK			• -	33
CORN	219	171	1383	
WHEAT	69	119	115	90
OTHER SMALL GRAIN	449	191	322	362
OTHER CROPS	871	1004	414	1037
	578	902	731	683
CAPITAL ASSETS SOLD	419	902 400	484	
INCOME FROM WORK OFF THE FARM				825
MISCELLANEOUS FARM INCOME	575	674	$\frac{1627}{070000}$	1849
1. TOTAL FARM SALES	21243	26906	37236	47100
2. INCREASE IN FARM CAPITAL	6753	7254	15334	24968
3. FAMILY LIVING FROM THE FARM	533	539	544	608
4. TOTAL FARM RECEIPTS 1 & 2 & 3	28529	34699	53114	72676
ARM EXPENSE				
DAIRY CATTLE BOUGHT	696	789	906	1238
OTHER DAIRY BOUGHT	219	313	586	590
BEEF CATTLE BOUGHT (INCL. FEEDERS)	455	288	375	1420
HOGS BOUGHT	259	182	327	385
SHEEP BOUGHT (INCL. FEEDERS)	205	50	10	12
	5	50	TO	45
OTHER PRO. LIVESTOCK EVERNEE	726	1105	1366	
MISCELLANEOUS LIVESTOCK EXPENSE	4286	7193	7952	7377
FEED BOUGHT			2056	
FERTILIZER	850	1052		2075
OTHER CROP EXPENSE	975	925	1657	1935
CUSTOM WORK ENTERPRISE		23		18
CUSTOM WORK HIRED	870	1174		1633
GAS-OIL-GREASE BOUGHT (FARM SHARE)	1204	1270	1524	1729
REPAIR & OPR. OF MACH.,TRACTOR,TRUCK & AUTO (FARM SHARE)	1216	1396	1745	2143
REPAIR AND UPKEEP OF FARM REAL ESTATE	369	405	488	543
REPAIR AND UPKEEP OF LIVESTOCK EQUIP.	186	202	309	389
WAGES OF HIRED LABOR	587	835	1137	1211
ELECTRICITY EXPENSE (FARM SHARE)	367	468	617	861
REAL ESTATE & PERS. PROPERTY TAXES	307	390	515	586
TELEPHONE & GENERAL FARM EXPENSE	627	736	891	1014
5. TOTAL CASH OPERATING EXPENSE	14300	18921	24132	26882
	3776	4274	5617	
		687	1217	9119
7. LIVESTOCK EQUIPMENT BOUGHT	504			2008
8. NEW REAL ESTATE & IMPROVEMENTS	$\frac{2727}{2727}$	3124	6702	8078
9. TOTAL FARM PURCHASES	21307	27006	37668	19205
10. DECREASE IN FARM CAPITAL	1246	1982	788	189
	3407	4134	2106	8693
11. INTEREST ON FARM CAPITAL		869	570	662
<pre>11. INTEREST ON FARM CAPITAL 12. UNPAID FAMILY LABOR</pre>	766			
	74	101	48	395
12. UNPAID FAMILY LABOR			48 43	395
12. UNPAID FAMILY LABOR 13. LABOR CHARGE FOR PARTNERS	74	101	48	

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1975-1976-1977-1978 IN A CAPSULE

FARM SIZE (ACRES)	<u>1975</u> 301.7	<u>1976</u> 330.2	$\frac{1977}{317.4}$	<u>1978</u> 334.8
SIZE OF BUSINESS (WORK UNITS)*	335.9	264	307	318.98
RETURN TO CAPITAL & FAMILY LABOR	3047	3098	8654	20235
LABOR EARNINGS	1093	1227	6969	16596
NET WORTH (AVG. JAN. 1 & DEC. 31)	46622	49242	62543	73705
RATIO OF ASSETS OF LIABILITIES	2.50	2.35	2.29	2.24
SOURCE OF INCOME-CASH-RECEIPTS				
INCOME FROM LIVESTOCK	84.7%	86%	85%	89%
INCOME FROM CROPS	7.4%	6%	7%	7%
MISCELLANEOUS INCOME	7.9%	8%	8%	4%

"One Work Unit equals one 10 hour working day.

SETTING GOALS

One of the primary aims of the farm management education program is to assist farmers in reaching their farm and family goals. Clarifying their ideas as to what they really want is a very important step in improving the farm business and as a result improve family living.

Sitting down as an operator or husband and wife and putting these wants in writing is done in one of the early classes in the adult farm management education program.

Planning poals is not easy. All members of a family may not agree on what goals are most important. The family may have to give serious thought and discussion to the goals they choose so that all members of the family can benefit from the farming business. Not all goals are related to farm income. Some very important goals for a family may be in the area of social, community, family, church and educational activities.

Setting up goals in a systematic way lets the family fit the wants and desires of all the family members into a plan. There are no right or wrong goals, since each family may approach the problems and opportunities they have in a different way. It is important that goals be reviewed frequently to see if conditions have changed. If the goals are to inflexible, they may be a liability to progress rather than an asset.

On the next page is an example of the written goals of one family for the coming year. The following year, these goals will be reviewed, evaluated and probably changed or expanded to fit the ever changing needs and desires of the family.

WHAT DOES YOUR FAMILY WANT?

Name	John	Jones	Family		Date	2-10-78
------	------	-------	--------	--	------	---------

Address Anywhere, Minnesota

One of the steps for improving the farm and home business is to clarify what is wanted. You may know of things you have wanted as a family, but it takes considerable thought and discussion among family members to agree upon what is most important and which things come first. As a family write down your goals for this year and for the future, then number them in order of priority.

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		This Year	Later
	FOR A PROFITABLE FARM BUSINESS:		
6	Buy a new tractor to replace old John Deere A		
1	Raise the production of the dairy herd by 500 lbs. milk per cow.		
8	Raise the production of the dairy herd from 11000 lbs. to 15000 lbs. per cow in 10 years.		~
2	Increase hay yield by 1 ton/acre in 3 yrs.		
	FOR SATISFYING LIVING		
5	Install kitchen cabinets.		
10	Build new family room on west side of house.		
11	Paint exterior of home.		
12	Landscape yard.		
	FOR DEVELOPMENT OF FAMILY MEMBERS:		,
9	Provide opportunity for son, Dave, to attend college in two years.		
7	Provide money for Dad to attend National Convention for a week this winter.		
4	Provide time and money for Dan to attend camp this summer.		
	FOR LONG-TERM FINANCIAL SECURITY:	_	4
3	Improve net worth by 20%/year.		

MONEY SPENT BY THE AVERAGE NORTHEAST AND EAST CENTRAL MINNESOTA FARMERS IN 1978

TO OTHER FARMERS FOR LIVESTOCK AND CUSTOM WORK (Line 2-13 plus line 20 & 21)	
TO THE AGRI-BUSINESS COMMUNITY FOR FERTILIZER, CHEMICALS, SEED, FEEDS, REPAIRS AND FUEL (Lines 14-18, 22-27 Plus line 31)	
FOR EXTRA LABOR (line 28)	
SUPPORT OF LOCAL GOVERNMENT (PROPERTY & OTHER TAX) (T6B, Line 29 plus (T4) line 19)	
FOR UTILITIES (ELECTRICITY AND TELEPHONE) (Line 19, 32-33)	
FOR USE OF OTHER PEOPLES CAPITAL (INTEREST AND CASH RENT)((T6B) Line 30 & 34), (T4) (14A)	
FARM EQUIPMENT DEALERS (POWER AND MACHINERY) (Line 36-37, 38 & 39 (T4) 17)	
NEW BUILDINGS AND LAND ((T6B) 40 (T4) 18)	
FOOD, CLOTHING, HOUSE FUEL, FURNITURE AND PERSONAL CARE((T4) 5-9)	
CONTRIBUTIONS - CHURCH AND OTHER ((T4) line 3)	
MEDICAL CARE & HEALTH INSURANCE ((T4) Line 3)	
EDUCATION AND RECREATION((T4) Line 11-12-13)	
LIFE INSURANCE AND OTHER INVESTMENTS (T4) Line 20) 570	į

ABOVE INFORMATION IS TAKEN FROM TABLES 4 and 6B OF THE 1978 ANNUAL NORTHEAST AND EAST CENTRAL VO-AG FARM BUSINESS MANAGEMENT EDUCATION REPORT