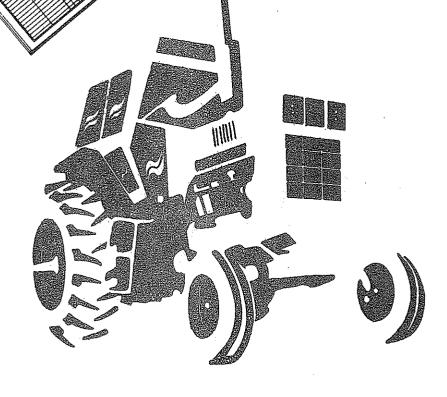


NORTHWESTERN MINNESOTA REPORT NO. 34 THIEF RIVER FALLS TECHNICAL INSTITUTE THIEF RIVER FALLS, MN APRIL, 1989

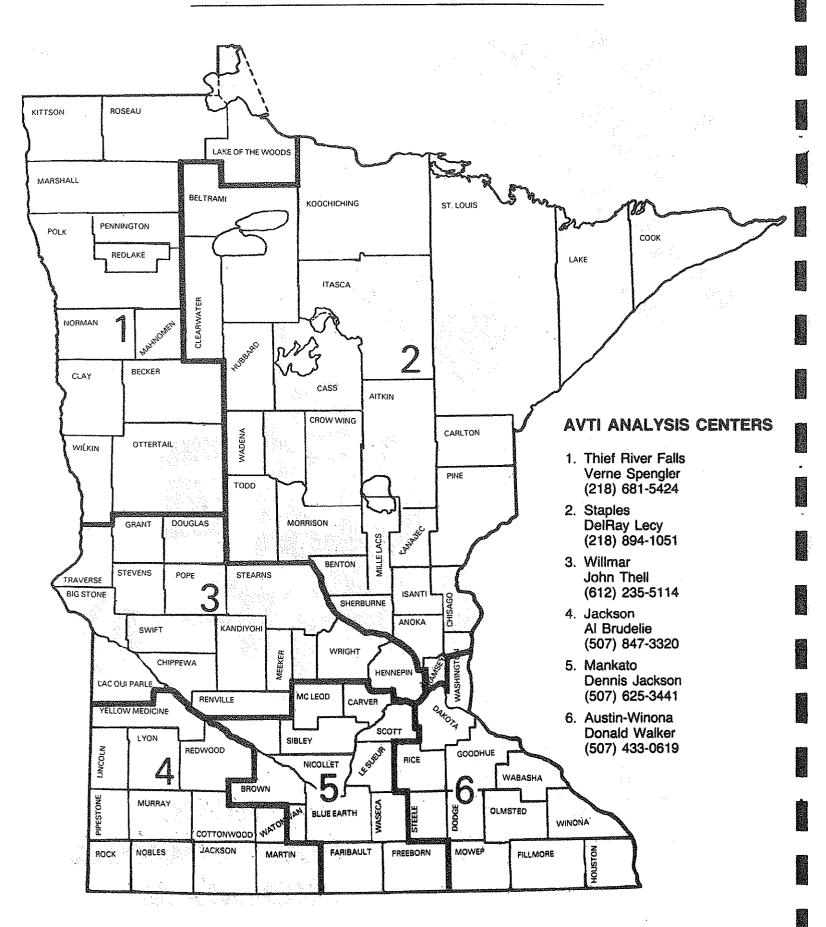


In Cooperation With
STATE BOARD OF VOCATIONAL
TECHNICAL EDUCATION
AGRICULTURAL EDUCATION DEPARTMENT
UNIVERSITY OF MINNESOTA

Price: \$5.00

AN ADULT EDUCATIONAL PROGRAM

VO-AG FARM MANAGEMENT AREAS



1988 REPORT OF THE FARM BUSINESS MANAGEMENT PROGRAM IN NORTHWESTERN MINNESOTA

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^{*}Whole farm includes all landlords, operators and partners.

INTRODUCTION

Farm Business Management programs are a part of the agricultural educacation system in Minnesota. The programs, located in both Technical Institutes and local high schools, serve over 6,000 farm families each year in six farm management areas. Initially these programs were a cooperative effort of the University of Minnesota and the State Department of Education. They are presently administered and managed by the State Board of Vocational Technical Education.

The purpose of farm management education is to help farm families achieve their farm business and family goals. This is done through improved management organization and efficiency of their farm operations.

To accomplish the purpose, programs have been organized to conform to the following guidelines:

- 1. Farm families enroll in a specific farm management course.
- 2. Each course has a specific objective and units of instruction to meet the objective.
- 3. Courses are offered in sequence, and farmers are expected to enroll in the first of the sequences of courses.
- 4. There is continuity to each course. Each leads to the next course in the sequence.
- 5. Instruction occurs both in the classroom and on the farm with the farm family.

Programs organize their course around the same central theme. They are:

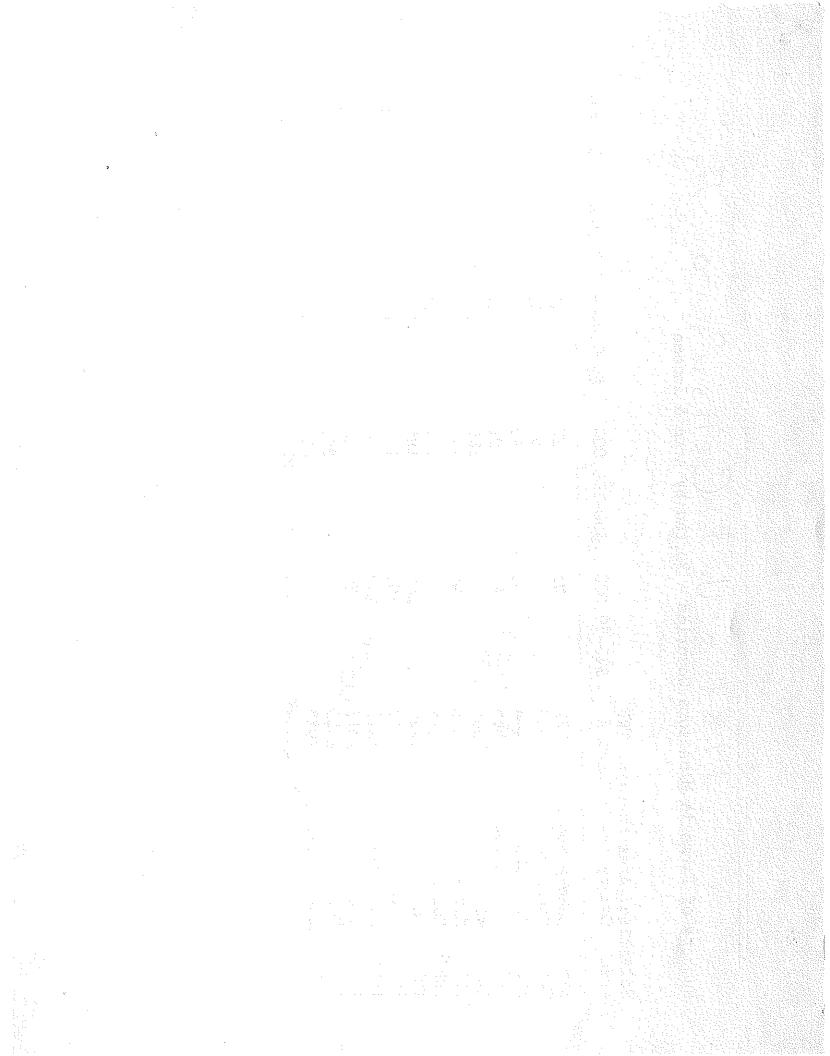
- Year 1 Farm business records and accounts.
- Year 2 Farm business analysis and evaluation.
- Year 3 Farm business organization.
- Year 4 Farm reorganization and enterprise efficiency.
- Year 5 Current issues in farm management.
- Year 6 Managing the business for family goal attainment.

Like most education programs, members benefit from the instruction in relation to how much effort they put into study. Some farmers have benefitted more, and some less, depending upon how seriously they studied the results of their business analysis and the kind of decisions they made as a result of their analysis.

This year the farm business and enterprise analysis has been redesigned. Beginning this year all specific and general farm expenses have been allocated to each enterprise. The items are: building expenses, interest, utilities, insurance and general farm expense.

The new analysis will more completely identify the expenses that each enterprise incurs. The return over listed costs for each of the enterprises may be used for family living, debt repayment, capital purchases or savings. We believe this makes the farm business analysis a more accurate report to be used for long range planning, short term cash purchase planning and cash flow projections.

40 116 131 143 284 284 284 325 343 440 493 753 50,000+ 71 198 207 226 369 379 461 491 451 687 629 968 25,000+ 124 140 186 221 295 502 410 \$100,000+ 163 Numbers of Farms in Minnesota Counties - Sorted by Area & Income 106 121 160 185 157 219 251 251 \$50-100,000 177 166 108 247 136 215 433 934* \$25-50,000 222 393 404 585 505 576 1124 1220 718 1017 1556 2925 Selection: Area contains TRF Tctal # Lake - Woods Mahnomen Red Lake Pennington Otter Tail Marshall Kittson Wilkin Becker Norman Roseau County Clay Polk TRF TRF TRF TRF TRF TRF TRF TRF TRF TRF



A special thank you is due the clerical staff: Wilma Bornholdt, Myrna Giauque, Judy Lokstad, Rita Wald, Thief River Falls; Verna Onstad, Ada; Norma Akerson, Barnesville; Louise Menk, Baudette; Linda Jirava, Detroit Lakes; Natalie Schoenbauer, Fergus Falls; Jane Salber, Fertile; Patty Maruska and Jodi Thompson, Fosston: Linda Nigg, Moorhead; Carl Anderson, Roseau; and Carol Lockhart, Ulen and Hawley.

Esther Mattson, our secretary, oversees the general operation of the office, including correspondence, billing and organization.

SCHOOLS PARTICIPATING

This report deals with farmers enrolled in 21 schools in Northwestern Minnesota. A list of cooperating schools and instructors follows:

Schools

Ada Agassiz Valley Voc. (Fertile) Barnesville Baudette Detroit Lakes Fergus Falls Fosston Frazee Goodridge Hawley Henning Karlstad-Greenbush Kittson County (Lancaster) Mahnomen, Ulen Moorhead Norman County West (Halstad) Red Lake Falls Roseau

Instructors

Peter Revier Ron Salber Tom Risdal Gerald Ausmus Duane Lemmon Allen Schoenbauer Doug Fjerstad Ron Monson Wayne Ditmer Dennis Olsen Charles Erickson Bob Bollesen Mark Prosser Mike Lockhart Rick Morgan Ray Bisek Mark Berg Duane Jaenicke Al Dalen Don Johnsen Danie Packard

WHY KEEP RECORDS?

Systematic use of records seems to raise the managerial level of the farmers. Once a farmer starts using records to check up on his performance, it is likely that he will continue for some years to improve his position above that of his less systematic neighbor.*

*Britannica Research Service

Thief River Falls

- 302 Records were included in the average.
- 560 Records were processed.

		Average of	302 Farms
	SURES OF FARM SIZE	001 4	
2	Acres - Total	991.4	
3	- Tillable	897.6	
4	Work Units - Crops	349.2	
5 6 7	- Livestock	143.7	
6	- Other	5.5	
7	- Total	498.4	
8	Workers-Operator(s) Year Equivalents	1.19	
9	-Hired	0.37	
10	-Custom	0.03	
11	-Unpaid Family		
12	-Total	1.59	
13	Capital Invested-Per Worker	302239	
$\overline{14}$	Per Work Unit	964	
WHO	LE FARM INVENTORIES		
		<u>January 1</u>	<u>December 31</u>
22	Feeder Cattle	$74\overline{4}\overline{1}$	781 0
23	Market Hogs	469	523
24	Feeder Lambs	212	204
25	Poultry-All Types		of the control of the
26	Other Lvstk-Incl. Other Dairy	2957	2990
27	Crops Held For Sale & Lvstk Feed	56372	61855
28	Supplies/Prepaids, Fuel & Lub.	9964	9636
29	Accts. Rec.& Hedging Acct. Equity	1872	3796
	Acces. Recal nearing neces bearing	10,2	37,50
3 [°] 0	Dairy Cows	10368	10269
31	Other Dairy	3304	3623
32	Beef Breeding	6502	6901
33	Swine Breeding	502	417
34	Sheep Breeding	263	299
35	Other Breeding Livestock	203	
36	Auto & Truck (Farm Share)	8429	8935
		51982	49588
	Power & Machinery	the second secon	2980
38	Livestock Equipment	3054	4.40
39	Custom Equipment	302	442
40	Irrigation Equipment	139	128
50	Bare Land	280563	286672
51		260303	23
	Land Improvements & Tile		29053
52	Buildings-Fences-Etc.	30254	23033
60	Total Farm Capital	474975	486144
		7	44460
70	Increase or Decrease in Total Farm Capita	.1	11169

^{*} Inventories include both operators and landlords share of investments. Livestock, crop and feed inventories reflect a conservative market value. Machinery equipment and building values are determined by deducting depreciation from cost. Land values are based on original cost or conservative market value.

TABLE 1	RESOURCES	USED 1	N	THE BUSINESS.	1988

		N. COUNTROL		7	
			rage of gh Farms	Averag	
MF. A	SURES OF FARM SIZE	00 11	Air tarms	60 Low	rarms_
2	Acres - Total	15	28.2	0,	28.7
3	- Tillable		37.6		51.8
4	Work Units - Crops		58.9		
5	- Livestock				04.7
6			92.8	_	99.5
7	- Other	,	3.6		2.0
7 8	- Total	6.	55.3		06.2
8	Workers-Operator(s) Year Equi		1.36		L.10
9	-Hired		0.51).39
10	-Custom	(0.03		0.02
11	-Unpaid Family				
12	-Total		1.90	1	.51
13	Capital Invested-Per Worker	360	0369	337	466
14	Per Work Unit	:	1045		.254
WHO	LE FARM INVENTORIES*				* * *
		<u>Jan 1</u>	<u>Dec 31</u>	<u>Jan 1</u>	Dec 31
22	Feeder Cattle	$\overline{18806}$	16784	3951	4345
23	Market Hogs	768	878	659	535
24	Feeder Lambs			1007	999
25	Poultry-All Types			1007	2,7,7
26	Other Lystk-Incl.Other Dairy	1433	1468	1736	1700
27	Crops Held For Sale&Lvstk Fd	89305	129181	49173	38702
28	Supplies/Prepaids, Fuel & Lub.	18357	15910		
29	Accts Rec.& Hedg.Acct.Equity			7372	6081
27	Acces Rec. a neag. Acce. Equity	<u>5124</u>	8382	<u> 1533</u>	<u>2932</u>
30	Dairy Cows	6825	6670) E E C O	4020
31	Other Dairy		6679	5562	4838
32	Beef Breeding	1813	2338	1278	1586
33		3287	4230	5368	5875
24	Swine Breeding	509	333	1205	1041
34	Sheep Breeding			304	294
35	Other Breeding Livestock				
36	Auto & Truck (Farm Share)	12590	13882	7437	8253
37	Power & Machinery	85687	80866	55240	51025
38	Livestock Equipment	2518	2408	972	1120
39	Custom Equipment			753	677
40	Irrigation Equipment	<u>695</u>	<u>640</u>		
50	Bare Land	373202	383137	339691	348113
51	Land Improvements & Tile		•	6	5
52	Buildings-Fences-Etc.	41982	<u> 39386</u>	29458	28321
	-	total in the state of the state			
60	Total Farm Capital	662901	706502	512705	506442
	<u>.</u>			522705	J00442
70	Inc./Dec. in Total Fm.Cap.		43601		-6263
	· · · · · · · · · · · · · · · · · · ·		*2007	V., *	-0203

^{*} Inventories include both operators and landlords share of investments. Livestock, crop and feed inventories reflect a conservative market value. Machinery equipment and building values are determined by deducting depreciation from cost. Land values are based on original cost or conservative market value.

TABLE 2A - WHOLE FARM SUMMARY OF CASH RECEIPTS, 1988

TAB.	<u>LE 2A - WHOLE FARM SUMMARY OF CASH RE</u>	CEIPTS, 198	3	
		Average of	High 60	Low 60
		302 Farms	Farms	Farms
SAL	ES OF LIVESTOCK AND LIVESTOCK PRODUCT			
2	Dairy Cows	2511	1423	1548
3	Dairy Products	22988	13901	11219
4	Other Dairy Cattle	2049	1006	976
5	Beef Breeding Cattle	4838	2804	3940
6	Beef Feeder Cattle	5829	16263	921
7	Hogs Complete & Mixed	972	2689	104
8	Hogs Finishing	242	447	221
9	Hogs Producing Feeder Pigs	746	~£ ~£ /	2036
		149		403
10	Sheep, Goats, Wool Breeding	164		825
11	Sheep, Goats, Wool, Feeding			
13	Eggs	215		1081
16	Other Misc. Lystk Income	34	20524	02075
17	Total Sales or Prod. Lvstk.	40737	38531	23275
	ES OF CROPS			
21	Wheat	35937	76244	26360
22	Durum	540	2092	443
23	Other Small Grain	19840	40812	15267
24	Corn	7429	20498	6070
25	Soybeans	10147	13625	16067
26	Sunflowers	3074	10567	1718
27	Other Row Crops	27666	42308	27263
28	Legumes & Other Roughage	2384	1650	834
29	Grass Seed	1602	2473	477
32	Nursery, Timber & Other	48	241	
33	Sale of Crops&Supp.Purch.for Resale	<u>3751</u>	10760	
34		$\frac{112419}{112419}$	221269	94499
J -x .	Total Buies from Crops & Bupp.	11211	221203	
40	Government Payments & Set Aside	24647	46839	19461
41	Gas Tax Refund	12	15	7
	Income From Work Off The Farm	1219	1892	817
42			1032	157
43		583	2126	
44	Patron Refunds (Cash 800, Equity 2000) 1541	2136	1502
45		5405	10205	5359
46	Total Other Farm Income	34408	61088	27303
	Total Farm Oper. Inc.	187564	320888	145076
50	Auto, Truck, & Machinery Sold	830	858	823
51	Irrigation Equipment Sold			
52	Custom Work Equipment Sold			
53	Livestock Equipment Sold	41		
54	Buildings & Fence Sold	78	206	
55	Land & Land Improvements Sold	205	317	667
56	Farm Capital Lease Income	312		
57	Total Farm, Capital Sales	1466	. <u>516</u> 1897	$\frac{440}{1930}$
58	Total Farm Sales		322785	
JO	TOCAL LATH DATES		JAAFUJ	
60	Increase in Farm Capital	11169	43601	
			249	330
61	Family Living From The Farm	3/3 200570	26662E	
62	Total Farm Receipts(58)+(60)+(61)	- 4000/8 ₂₃	200025	147336

This table includes both operator and landlord's share of cash receipts and inventory changes. For operators share of receipts see Table 6A.

TABLE 2B - WHOLE FARM SUMMARY OF CASH EXPENSES, 1988

TAB	<u>LE 2B - WHOLE FARM SUMMARY OF CASE</u>			
		Average of	High 60	Low 60
		302 Farms	Farms	<u>Farms</u>
PUR	CHASE OF LIVESTOCK			
5	Dairy Cows	292	316	196
6	Other Dairy Cattle	340	30	43
7	Beef Breeding Cattle	789	1472	101
8	Beef Feeder Cattle	2734	7318	897
9	Hogs Complete and Mixed	50	33	- "
10	Hogs Finishing	82	281	3
11	Hogs Producing Feeder Pigs	28		86
12	Sheep and Goats	10		3
13	Sheep, Feeders	125		628
17	Total Livestock Purchases	4451	9450	1958
1,	Total Divestock Fulchases	77JI	7430	1,550
20	Not Prooding & Mica Tucth Evn	2720	1767	1419
	Vet, Breeding & Misc. Lvstk.Exp.			
21	Purch. of Crops/Supplies for Resal		63346	19593
22	Feed Bought	7898	6758	5519
23	Fertilizer	12224	20917	11214
24	Chemicals	7077	10602	7106
25	Other Crop Expense	9246	16352	8930
26	Irrigation Operating Expense	84	294	
27	Custom Work Oper.Costs Incl.Labor	239		
28	Custom Work Hired	3372	4346	3063
29	Gas, Diesel, Lub. (Farm Share)	6731	10041	5782
30	Repair & Upkeep of Lvstk. Equip.	643	557	494
31	Repair & Upkeep of Farm Real Estat		1487	1058
32	Rep.& Oper.Of Mach, Trac, Truck, Auto		15752	10504
33	Rep.& Upkeep of Irrigation Equip.	2	11	
34	Rep.& Upkeep of Cust.Work Ent.	54		13
35	Total All Repairs	12583	17807	12069
36	Wages of Hired Labor	6165	7648	6618
37	Pers. Property & Real Estate Taxes	3842	5510	4723
38	General Farm Expenses	4462	7387	3514
39	Utilities		i i	
		<u>2285</u>	<u>2364</u>	1878
40	Total Cash Operating Expense	110322	184589	93386
50	Auto, Truck & Machinery Bought	10587	15618	9787
51	Irrigation Equipment Bought	5	23	
52	Custom Work Equipment Bought	269	0	
53	Livestock Equipment Bought	485	271	340
54	New Real Estate-Bldgs. & Improv.	1539	953	1979
55	New Real Estate-Land & Improv.	6150	9702	9155
56	Farm Cap.Lease Pmts, Except Land	<u> 1323</u>	<u> 1708</u>	2303
57	Total Capital Purchases	$\frac{1323}{20357}$		$\frac{2303}{23563}$
			$\frac{28274}{212962}$	
58	Total Farm Purchases	130679	212863	116949
60	Decrease in Farm Capital	22620	45000	6263
61	Interest on Farm Capital (7% Chg)	33639	47929	35670
63	Board Furnished Hired Labor	62	<u>26</u>	
64	Total Farm Expense	164380	260818	158882
70	Ret To W.F.Oper Labor & Mgmt			
	(T2A, L62-L64)	36198	105817	-11546
71	Number of Operators	1	103017	1
72	Full Time Operator Equivalents	1.19	1.36	1.10
73	Ret/Oper Lab. & Mgmt/Full Time	.b. 4 .b. 2	1.50	1.10
, ,	Op. Equiv (70/72)	30418	77807	-10496
	ob. Par. (10115)	20470	77007	10#30

TABLE 3 - ENTERPRISE STATEMENT WHOLE FARM

IAD	PE 2 - ENIEKSKISE SINIEMENI MUODI		+- 1	*
		Average of	High 60	Low 60
***************************************		302 Farms	<u>Farms</u>	Farms
	URNS & NET INCREASES	•		
3	Productive Livestock			
5	Net Livestock Lease Income	-107		-457
6	Dairy Cows Cattle	22223	13359	10856
7	Other Dairy Cattle	5422	3254	2429
8	Beef Breeding Cattle	5623	3648	4312
9	Beef Feeder Cattle	2429	5649	607
10	Hogs Complete and Mixed	894	2450	43
11	Hogs Finishing Enterprise	151	314	. 54
12	Producing Feeder Pigs	739		1912
13	Sheep & Goats and Wool	151		277
14	Sheep & Goats Feeders	62		311
15	Poultry, All Fowl	215		1081
18	Total All Productive Lystck	37802	28674	$\frac{-1001}{21426}$
19	Value Of Feed Fed To Livestock	17598	12766	11623
20				9803
	Return Over Feed From Lystck	20204	15908	
21	Crop, Seed, & Feed	124167	258584	90333
22	Fert. Chemicals, Seed & Other	29008	50710	28407
23	Ret.Over Direct Costs:Crops	95160	207874	61926
24	Crops&Supp.Purch For Resale(Net)		-52586	-19593
25	Cooperative Patronage Refunds	1541	2136	1502
26	Misc. Farm Income/Accts Rec.	7785	11197	6463
27	Custom Work Enterprise	65		67
28	Government Payment & Set Aside	24647	46839	<u> 19461</u>
29	Total Returns & Net Increases	126211	231369	79629
EVD	ENSES & NET DECREASES	* .		
31		5783	7667	5088
32	Truck & Auto (Farm Share)	26019	39744	27399
33	Tractors & Crop Machinery			27399
	Irrigation Equipment	18	89	1070
34	Utilities	2285	2364	1878
35	Livestock Equipment	1204	980	715
36	Buildings & Fences	3759	4956	3952
37	Land Improvements & Tile	222	186	233
38	Land	-409	-1063	-361
39	Vet & Misc. Lvstk. Expense	2720	1767	1419
40	All Labor Costs-Paid & Unpaid	6470	8036	6948
41	Property Tax	3842	5510	4723
42	General Farm Expense	4462	7387	3514
43	<pre>Int. on Fm.Cap.(7% Opport.Chg)</pre>	<u> 33639</u>	<u> 47929</u>	<u> 35670</u>
44	Total Exp.& Net Decreases	90014	125552	91178
4 "	Dot to N E Ones Tale 6 Mars	26107	105017	11540
45	Ret. to W. F. Oper.Lab.& Mgmt.	36197	105817	-11549
46	Number of Farm Operators	1 10	1 2	1 10
47	Full Time Operator Equivalent	1.19	1.36	1.10
48	Ret. to Oper Lab. Mgmt/Full Time C	per 30418	77807	-10499

Table 3 summarizes returns and net increases by enterprise. Expenses and net decreases are also summarized by major category. Data from this table forms the basis for the analysis of each individual enterprise.

TAE	BLE 4 - NON FARM INCOME & HOUSEHOL	D PERSONAL	EXPENSE, 19	88 (1. 1. 1974)
		Average of		High 30
		154 Farms		Farms
4	Number of Persons-Family	4	4	4
5	Number of Adult EquivFamily	3.0	3.2	2.9
6	Non Farm Income	urika di ka	villa, vilja i taliki i dili	The Armed Age
7	Outside Investment Income	1124	2731	916
8	Other Pers.Inc.& Inc.Tax Ref.	8836	7510	12139
9	Sale of Dwell., Auto & Truck	est for the profit		A Comment
	(Personal Share)	90	69	325
10	Net Cash From Non Farm Business	766	<u>139</u>	2063
11	Total Non Farm Income	10816	10449	15444
	SEHOLD EXPENSE			A = A
14	Church & Charity	970	1619	850
15	Medical Care & Health Ins.	2988	3102	2509
16	Food & Meals Bought	4305	4866	3590
17	Operating Expense & Supplies	2012	2595	2169
18	Furnishings & Equipment	1231	1587	862
19	Clothing & Clothing Materials	1418	1901	767
20	Personal Care, Pers.Spending	2727	2559	2987
21	Education	1027	1036	1060
22	Recreation	355	874	171
23	Gifts & Special Events	696	979	505
24	Personal Interest	313	<u>690</u>	213
	Tot Cash HH Detail Exp	10040	21000	15600
26	(Line 14-Line 24)	18042	21808	15683
27	Truck & Auto Expense: Personal	931	1043	939
29	Upkeep on Dwelling:Personal Tele.& Elect.Expense: Personal	6 869	854	15 818
30	General Farm Expense: Personal	18	7	44
31	Total Cash Liv.& Oper. Exp.	19866	23722	17500
32	New Truck & Auto Personal	785	1016	637
33	New Dwell.Build.Land Bought:Pers		1353	1039
34	Taxes & Other Deductions	3222	5841	1701
35	Life Insurance	870	1793	513
36	Paid on Personal Debt (Principal		317	505
37	Savings & Invest. (Exc. Life Ins.		5480	965
38	Total Non Farm Cash Expense	28252	39521	22861
39	Tot.N/F Exp.Minus N/F Inc.	17435	29072	7417
40	Total Family Living From Farm	314	93	260
41	Tot Cash & Non Cash Expense		39614	23121
	PLEMENTARY INFORMATION			
43	Family Living From The Farm	vist (
44	Milk & Cream (Quarts)	71	18	37
45	Beef & Buffalo (Pounds)	226	75	206
46	Pork (Pounds)	17	-	16
51	Total Family Living From Farm	314	93	260
52	Calculated Living Expense			
53	Total Family Living	49774	116131	10364
54	Minus Change in Net Worth	19654	73034	-15807
55	Apparent Family Living	30120	43097	26171
56	Tot Fam. Liv. Per Work			
	Unit: Calculated	56.69	60.31	56.28
57	Net Family Living Per Work Uni	t 34.98	44.36	18.26

TABLE 5.1 OPERATORS FINANCIAL POSITION

<u>TAB</u>	LE 5.1 OPERATORS FINANCIAL POSITION	Average of	202 Farms
		Average or	302 Falms
		January 1	December 31
am	DENM ACCEMC.	Danuary L	December 31
	RENT ASSETS:	3201	3605
4	Cash, Check. & Saving Acct. Bal: Pers.	11641	11978
5	Cash, Check. & Saving Acct. Bal: Farm	-5	539
6	Hedging Account Equity Notes & Accts.Receivables Personal	111	238
7		1877	3257
8	Notes & Accts.Receivables:Farm	48432	52952
9	Crops Held For Sale		
10	Livestock Feed	6480	7888
11	Supplies/Prepaids	9769	9501
12	Feeder Cattle & Mkt.Other Dairy	10113	10547
13	Market Hogs	469	523
14	Feeder Lambs & Goats	212	$\frac{204}{101202}$
17	Total Current Assets	92300	101233
	ERMEDIATE ASSETS:	ŧ	
19	Dairy Cows	10088	10003
20	Other Dairy	3155	3492
21	Beef Breeding Cattle	6284	6606
22	Breeding Hogs	502	417
23	Breeding Sheep/Goats	263	299
25	Auto & Truck:Personal Share	1853	2297
26	Auto & Truck: Farm Share	8360	8845
27	Power, Machinery & Equipment	51315	48912
28	Livestock Equipment	3038	2970
29	Custom Work Equipment	302	442
30	Irrigation Equipment	139	128
31	Stocks & Bonds & Co-op Equity	17551	18604
35	Other Household Personal	6438	6760
36	Retirement Accts. & Life Ins.	9605	<u> 12067</u>
37	Total Intermediate Assets	$\overline{118891}$	$1\overline{2}1841$
	G TERM ASSETS;		
39	Buildings & Fences	29658	28511
40	Land & Land Improvements	171511	177734
41	Dwelling	28355	29401
42		3778	<u> 3838</u>
43	Total Long Term Assets	$\frac{233302}{233302}$	239483
• •			
44		444493	462557
45	Total Personal Assets(Incl Cash		76810
46	Total Farm Assets (Incl Cash)	373602	385748
7 U	tocat tata mocco (that casi)	313002	000.10

TABLE 5.2 OPERATORS FINANCIAL POSITION, 1988, (CON'T.)

Average of 302 Farms

			CIUGC OI JUA	
		:	<u>January 1</u>	December 31
CUR	RENT LIABILITIES		•	
4	Accounts Payable:Personal		175	151
5	Accounts Payable:Farm		1045	1281
6	Cur.Port.of Intermed. & L-Term De	bt	35155	34602
7	Delinquent Interest		673	1092
8	Rents & Lease Pmts.Due From Past	Yr.	27	89
9	Total Current Liabilities		37075	37215
	ERMEDIATE LIABILITIES:*		0.0.0	
11	Notes Payable: Personal		138	253
12	Notes Payable: Farm		4642	4673
13	Chattel Mortgages:Personal		176	164
14	Chattel Mortgages:Farm		52484	<u>50296</u>
16	Total Intermediate Liabilities		57441	55385
	G TERM LIABILITIES:*			
18	R.E.Mortgages & Contracts:Pers.		2201	2750
19	R.E.Mortgages & Contracts:Farm		<u> 112985</u>	<u>112761</u>
21	Total Long Term Liabilities		115186	115512
22	Total Liabilities		209701	208112
23	Equity		234791	254445
24	Change in Equity			19654
	**********	**BATTO	C*********	
	Formula	Descr		
32	Current T5.1 L17 / T5.2 L9	Desci		
22	Current Assets / Current Liability		2.43	2.12
	Cullent Assets / Cullent Diabilit.	res		
33	Intermediate T5.1 L37/T5.2 L16	Debt	2.07	2.20
33		Dent	2.07	2.20
	Intermed. Assets/Intermed. Liab.			
2.4	Woodsing/me 11 17 (1 27) //me 210 (1 16)	Dalata	2 22	2 41
34	Working(T5.1L17+L37)/(T5.2L9+L16)	Debt	2.23	2.41
	(C.Assets+I.Assets)/(C.Liab.+I.Lia	(ae		
~=	m: 1 m = 4 - 4 2 / - 5 - 4 2			
35	Fixed T.51 L43/T5.2 L21	Debt	2.03	2.07
	Long Term Assts/Long Term Liab.			
36	Net Capital T5.1 L44/T5.2 L22	Debt	2.12	2.22
	Total Assets/Total Liabilities			
37	Equity/Asset T5.2 L23/T5.1 L44	Eqty	0.53	0.55
	Total Equity/Total Assets	- 4-2	*****	
	1001 24110, 10011 110000			
38	Debt/Equity T5.2 L22/T5.2L23	Debt	0.89	0.82
50	Total Liabilities/Total Equity	Debt	0.09	0.62
	rocar brabilities/rocar equity			
20	Commant Dobt ME 2 TO/ME 2 TO2	G	0 10	0 10
39	Current Debt T5.2 L9/T5.2 L22	Curr	0.18	0.18
	Current Liabilities/Total Liab.			
51	Return to Capital, Family Labor & M	Igmt.	389.	58
52	Total Income From Non-Farm Source		108	16
53	Total Family Income		497	7 4
54	Total Family Cash & Non-Cash Exp.		285	
55	Total Money Borrowed		637:	
56	Total Paid on Debt		659	
			0.5.5.	<i>,</i> ,

 $[\]star$ Does Not Include Current Portion of Principal Due in Next 12 Months.

EXPLANATION OF TABLE 5.2 RATIO'S

- LINE 32 THE CURRENT RATIO This is a measure of liquidity. It indicates the shortrun ability of the business to service debt. It demonstrates the adequacy of current assets, if liquidated, to pay off annual debts as they come due. Usually current assets have a life of 1 year or less. It is calculated by dividing current assets by current liabilities.
- LINE 33 INTERMEDIATE RATIO Intermediate assets and liabilities are those where the finances used are converted into product in a period usually from one to ten years. Examples may be breeding livestock, machinery and equipment. The increase in the ratio over a period of time is a favorable sign. It is calculated by dividing intermediate assets by intermediate liabilities.
- LINE 34 WORKING RATIO The desired trend is for this ratio to increase over time. It is also desirable for this ratio to be larger than the fixed ratio and net capital ratio. The farm business needs to have sufficient liquid assets and retain management flexibility to absorb price decreases and other factors negatively affecting current and intermediate asset values. This ratio is calculated by dividing current assets and intermediate assets by current liabilities and intermediate liabilities.
- LINE 35 FIXED RATIO This ratio should be in excess of one but it is also important for this ratio to be increasing over time. This ratio should not be increased at the expense of a safe working ratio. It is calculated by dividing long term assets by long term liabilities.
- LINE 36 NET CAPITAL RATIO Net capital ratio is one of three measures of solvency; how much value remains if all assets are converted to cash at inventoried value and the total debt is paid. This ratio reflects the risk-bearing capacity of the farm business by showing the percentage that assets could decline and still cover liabilities. The higher the ratio number, the better the risk. A ratio of less than 1.0 = insolvent, a ratio of 1.0 = a net worth of zero. A Ratio of 2.0 is considered a safe ratio. This would allow a 50% reduction in asset value or 100% increase in liabilities before becoming insolvent. This ratio is calculated by dividing total assets by total liabilities.
- LINE 37 EQUITY/ASSET This ratio shows the portion of total assets paid for and owned by the operator clear of financial claims. A ratio of .80 shows that the operator owns 80% of all total assets and a ratio of .44 shows he owns only 44% of all total assets. Therefore, this ratio should be increasing over time. It is calculated by dividing total equity by total assets.
- LINE 38 DEBT/EQUITY This is another overall measure of solvency. It shows the relationship between dept and equity. A ratio of 1.00 indicates that equity and dept. are equal. That would be equivalent to a net capital ratio of 2.00 to 1.00 and an asset equity/asset ratio of .50 to 1.00 All measures of solvency use the same three measures of financial position. They all express relationships between assets, liabilities and net worth (or equity). Lenders prefer a debt-equity ratio of less than 1.0. It is calculated by dividing total liabilities by total equity.
- LINE 39 CURRENT DEBT The lower the current debt structure ratio is, the more liquid the business. A ratio of .10 means only one dollar (\$1.00) out of every \$10 debt must be paid within the next year. A ratio of .50 means one half of the total debt must be paid in the next year. This ratio is calculated by dividing current liabilities by total liabilities.

		FINANCIAL	

TABLE 5.1 OPERATORS FINANCIAL POSIT		MARINE TO THE		
	High	60 Farms	Low 6	0 Farms
	<u>Jan.1</u>	<u>Dec.31</u>	Jan.1	<u>Dec.31</u>
CURRENT ASSETS:				A Sub-Carlos
4 Cash, Check. & Sav. Acct. Bal: Pers.	5301	6780	3474	3809
5 Cash, Check. & Sav. Acct. Bal: Farm	18521	19291	9386	8998
6 Hedging Account Equity	-58	2286	21	281
7 Notes & Accts.Rec.:Personal	339	821	92	67
8 Notes & Accts.Rec.:Farm	2815	4290	2149	4086
9 Crops Held For Sale	91469	124795	60538	44963
10 Livestock Feed	5251	9621	2297	3539
11 Supplies/Prepaids	21505	19735	8254	7439
12 Feeder Cattle & Mkt.Other Dairy	22088	20524	5081	5553
13 Market Hogs	768	878	530	552
14 Feeder Lambs & Goats			731	842
17 Total Current Assets	167999	209019	92552	80130
INTERMEDIATE ASSETS:	eart of			
19 Dairy Cows	7339	6993	4568	4264
20 Other Dairy	1478	2028	1354	1656
21 Beef Breeding Cattle	4893	5872	5250	4815
22 Breeding Hogs	509	333	1209	1062
23 Breeding Sheep/Goats				2002
25 Auto & Truck:Personal Share	2788	3223	1513	2014
26 Auto & Truck: Farm Share	12443	13656	7520	8331
27 Power, Machinery & Equipment	89531	83866	57029	52602
28 Livestock Equipment	2992	2812	934	1097
29 Custom Work Equipment	2,7,2	2022	1520	2117
30 Irrigation Equipment	695	640	3.020	£ .L .L ?
31 Stocks & Bonds & Co-op Equity	29019	31111	23614	23222
35 Other Household Personal	10415	10951	6950	7269
36 Retirement Accts. & Life Ins.	24437	31387	5960	7104
37 Total Intermediate Assets	186538	$\frac{31367}{192871}$	$\frac{3500}{117422}$	$\frac{7104}{115552}$
LONG TERM ASSETS:				
39 Buildings & Fences	38532	36709	30669	29796
40 Land & Land Improvements	283566	295055	169420	177257
41 Dwelling	46095	48582	27052	27857
42 Real Estate Personal	9393	9368	3157	3264
43 Total Long Term Assets	377586	389714	230297	$\frac{3204}{238174}$
44 Total Assets	732124	791604	440271	433856
45 Total Pers. Assets (Incl Cash)		142223	71811	74606
46 Total Farm Assets (Incl Cash)		649381	368459	359250

TABLE 5.2 OPERATORS FINANCIAL POSITION		(CON'T.)		
	High	60 Farms) Farms
	<u>Jan.1</u>	<u>Dec.31</u>	<u>Jan.1</u>	Dec.31
CURRENT LIABILITIES				
4 Accounts Payable:Personal	383	450	353	104
5 Accounts Payable:Farm	261	541	1295	1679
6 Cur.PortIntermed.& L-Term Debt	57728		32486	33984
7 Delinquent Interest	1257	1359	111	760
8 Rent & Lease Pmts.Due Fr.Past Yr.		<u>82</u>		
9 Total Current Liabilities	59628	56509	34244	36528
INTERMEDIATE LIABILITIES:*				
11 Notes Payable:Personal	-16	538	160	80
12 Notes Payable:Farm	7197	7795	8375	9388
13 Chattel Mortgages:Personal	397	284	11	
14 Chattel Mortgages:Farm	<u> 74878</u>	<u>65144</u>	<u>58008</u>	<u>58623</u>
16 Total Intermediate Liabilities	82456	73762	66553	68090
LONG TERM LIABILITIES:*			f	
18 R.E.Mortgages & Contracts:Pers.	1302	2943	2032	2705
19 R.E.Mortgages & Contracts:Farm	168494	165113	100771	<u> 105670</u>
21 Total Long Term Liabilities		168056	102803	108375
•				
22 Total Liabilities	311880	298327	203600	212993
23 Equity	420243	493278	236670	220863
24 Change in Equity		73034	•	-15807
****************	*RATIOS	*****	*****	***
Formula	Descr.	Beg.	Yr. Ei	nd Yr.
addia nop qua a mini ni della surpusa a nilipra historia.	20			.1 Dec.31
32 Current T5.1 L17 / T5.2 L9	Debt		.70 2.	
Current Assets / Current Liab.				
, , , , , , , , , , , , , , , , , , , ,		*****		
33 Intermediate T5.1 L37/T5.2 L16	Debt	2.26 2	.61 1.3	76 1.70
Intermed. Assets/Intermed. Liab.				
34 Working(T5.1L17+L37)/(T5.2L9+L16)	Debt	2.50 3	.09 2.0	08 1.87
(C.Assets+I.Assets)/(C.Liab.+I.Lia				
(011110000)/(0111100000)	/			
35 Fixed T5.1 L43/T5.2 L21	Debt	2.22 2	.32 2.3	24 2.20
Long Term Assts/Long Term Liab.				7.7
nong term indeed, nong term braze.			•	
36 Net Capital T5.1 L44/T5.2 L22	Debt	2.35 2	.65 2.	16 2.04
Total Assets/Total Liabilities	Debe	2.00 2	.03 2	2.01
10tal Assets/10tal Blastitetes				
37 Equity/Asset T5.2 L23/T5.1 L44	Eqty	0.57 0	.62 0.9	54 0.51
Total Equity/Total Assets	Edca	0.57 0	• 02 0 •	34 0.31
Total Equity/Total Assets	•			•
38 Debt/Equity T5.2 L22/T5.2L23	Debt	0.74 0	.60 0.8	86 0.96
	Dent	0.74 0	.00 0.0	00 0.50
Total Liabilities/Total Equity				
39 Current Debt T5.2 L9/T5.2 L22	Curr	0.19 0	.19 0.	17 0.17
	Cull	0.19 0	0.19	1/ 0.1/
Current Liabilities/Total Liab.				
El Dotum to Comital Bomile Tabara 6 N	Corm to	10560	2	-5080
51 Return to Capital, Family Labor & M	igiii.	10568		
52 Total Income From Non-Farm Source		1044		15444
53 Total Family Income		11613		10364
54 Total Family Cash & Non-Cash Exp.		3961		23121
55 Total Money Borrowed		12485		67991
56 Total Paid on Debt		13868	2	59720

^{*} Does Not Include Current Portion of Principal Due in Next 12 Months.

TABLE 6A - OPERATOR'S SHARE OF CASH RECEIPTS, 1988

1. 4. 2.4	DIG OR - OFBIRATOR O BITARE OF CASIL	RECEIFIG, I		
1	and the second of the control of the	Average of	High 60	Low 60
רי אד	E OF LIVERMORY C LIVERMORY PROPERTY	302 Farms	Farms	<u>Farms</u>
2 SAL	E OF LIVESTOCK & LIVESTOCK PRODUC		1506	2 4 4 72
3	Dairy Cows	2453	1506	1147
3 4	Dairy Products	22580	17308	10046
5	Other Dairy Cattle Beef Breeding Cattle	2000	1576	839
6	Beef Feeder Cattle	4604 5689	5027	3816
7	Hogs Complete & Mixed	972	17003	1248
8	Hogs Finishing	242	2689 447	0.4
9	Hogs Producing Feeder Pigs	743	44/	84 2133
10	Sheep, Goats, Wool: Breeding	149		2133
11	Sheep, Wool:Feeders	164	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	825
13	Eggs	215	$(A,b) = \{(x,y) \in \mathbb{R}^n \mid y \in \mathbb{R}^n : y \leq n \}$	1081
16	Other Misc. Livestock Income	34		TOOT
17		39844	45557	21218
	E OF CROPS	33044	43337	21210
21	Wheat	35201	75392	28673
22	Durum	526	2092	369
23	Other Small Grain	19230	40279	15227
24	Corn	7357	14639	6531
25	Soybeans	10005	10853	14227
26	Sunflowers	2663	8782	1511
27	Grain Sorghum & Other Row Crops	26654	48604	35799
28	Legumes & Other Roughage	2379	3861	981
29	Grass Seed	1589	2967	525
32	Nursery, Timber, & Other	48	241	¥(
33	Sale of Crops Sup. Purch for Resa	le <u>3751</u>	<u> 12677</u>	1892
34	Total Sales From Crops & Sup	. 109402	220385	105735
40	Government Pmts.& Set Aside Acre	s 24325	43686	22424
41	Gas Tax Refund	12	15	26
42	Income From Work Off Farm	1198	1712	1614
43	Custom Work Enterprise Income	583		2243
44	Patron Refunds (Cash 800, Equity 2		2491	1619
45	Miscellaneous Farm Income	<u>6380</u>	<u> 10105</u>	<u>6483</u>
46	Total Other Farm Income	34006	58009	34409
4.7	Total Farm Operating Income	183253	323951	161362
50	Auto, Truck & Machinery Sold	830	1165	1004
53	Livestock Equipment Sold	41		
54	Buildings & Improvements Sold	78	206	
55 56	Land & Land Improvements Sold	205	317	667
50 57	Farm Capital Lease Income	312	507	422
57 58	Total Farm Capital Sales	1466	2195	2093
60	Total Farm Sales	184719	326145	163455
61	Increase in Farm Capital Family Living From The Farm	11809 374	44274	207
62	Total Farm Rec. $+(58)+(60)+(65)$		278	207
U 2	100a1 falm Nec. 7(30) 7(00) 7(6.	1) 196902	370697	163662
70	Tot.Farm Operating Income(58)-(5	7) 183253	323951	161362
71	Total Cash Farm Oper.Exp.(65/43)		236699	137832
72	Net Cash Operating Income (70)-(87252	23530
	operating income (10)-(, 1, 1,000	01232	23330

TABLE 6B OPERATOR'S SHARE OF CASH EXPENSES, 1988

TAB:	<u>LE 6B OPERATOR'S SHARE OF CASH EXPE</u>	NSES, 1988		<u> </u>
		Average of	High 60	Low 60
*************		302 Farms	Farms	Farms
	CHASE OF LIVESTOCK		246	100
5	Dairy Cows	292	316	106
6	Other Dairy Cattle	339	23	60
7	Beef Breeding Cattle	788	2361	82
8	Beef Feeder Cattle	2724	7391	897
9	Hogs Complete & Mixed	50	33	2
10	Hogs Finishing	82	281	3
11	Hogs Producing Feeder Pigs	28		86
12	Sheep, Goats, Wool: Breeding	10		600
13	Sheep, Wool: Feeders	$\frac{125}{4325}$	10405	<u>628</u>
17	Total Livestock Purchases	4437	10405	1861
20	Vet, Breeding & Misc.Lvstk.Exp.	2683	2346	1353
21	Purch.of Crops & Sup.For Resale	26641	61965	20759
22	Feed Bought	7819	7595	5013
23	Fertilizer	11967	20623	11794
24	Chemicals	6988	11185	8533
25	Other Crop Expense	9091	15572	9889
26	Irrigation Operation Cost	84	231	
27	Custom Work Oper Excl Lab.& Rep.	239	4 7 0 0	601
28	Custom Work Hired	3322	4788	3328
29	Gas, Diesel & Lubricants	6630	10331	6685
30	Rep.& Upkeep of Lvstk Equip.	639	616	387
31	Repair & Upkeep of Farm Real Estat	e 1145	1685	1246
32	Rep.& Oper.of Mach, Trac, Truck, Auto		16482	12473
33	Rep.& Upkeep of Irrigation Equip.	2	11 ·	SECTION AND AND ADDRESS OF A DECEMBER OF A D
34	Rep.& Upkeep of Custom Work Equip.		10704	273
35	Total All Repairs	12430	18794	14379
36 37	Wages of Hired Labor	6114 2589	8804 4575	9701 2429
	Personal Prop. & Real Estate Taxes		7158	4007
39	General Farm Expense Utilities	4391 2249	2609	1979
	Farm Capital Lease Expense	16647	27337	20283
41	Total Interest Payable This Year	14864	22382	15237
42	Interest Actually Paid (\$ 14581)	14004	22302	19291
13	Total Cash Operating Expense	139184	236699	137832
50	Auto, Truck & Machinery Bought	10334	16224	9778
51	Irrigation Equipment Bought	_	2.3	3770
52	Custom Work Equipment Bought	26.9		1242
53	Livestock Equipment Bought	485	414	340
54	New R.E.: Buildings & Fences	1539	1400	2184
55	New R. E.: Land & Land Improve.	6150	10285	8568
57	Total Capital Purchases	18782	28347	22111
58	Total Farm Purchases	157966	265045	159943
60	Decrease In Farm Capital	137300	203043	8821
61	Interest on Farm Capital: 7% Chq	10887	20175	9589
63	Board Furnished Hired Labor	60	3	197
64	Total Farm Expense	168913	285223	178550
70	Return to Oper Labor & Mgmt	. 100010	20020	1,0000
, 0	(6A, L62 -6B, L64)	27989	85474	-14888
71	*Return to Cap & Fam Labor	, ~ .	001.1	
. —	(Incl Spouse-L41)	38958	105682	-5080
	/ =			

MEASURES OF FARM ORGANIZATION AND MANAGEMENT EFFICIENCY

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

- 1. Ret. to Lab. & Mgmt. A measure of the relative financial return for the operators labor, taking into account all income and expense, cash and non-cash, including a charge for the use of farm capital. This is based on the whole farm business and is found also in Table 2 and Table 3.
- 2. <u>Crop Yield Index</u> A measure of the crop yield level for all crops produced expressed as a percentage of the average; the average being 100%.
- 3. Return over all Listed Cost Per Tillable Acre (Excl. pasture)
 This is the net return per tillable crop acre after all variable and allocated costs have been paid.
 - 4. <u>Gross Return per Acre</u> An additional measure of crop selection based on total production times an average price for the crops, plus other crop income.
 - 5. Return per \$100 Feed Fed to Productive Livestock Measures the general level of efficiency for all livestock. It is expressed as a percentage of the average and combines the individual livestock indexes into one figure.
 - 6. <u>Livestock Units per 100 Acres</u> A measure of livestock density or population. Unit values are assigned to the various classes of livestock. Unit values are found in Table 7.
 - 7. <u>Size of Business Work Units</u> 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.
 - 8. Work Units per Worker Measures labor efficiency. It is the total work units divided by the number of workers on the farm including the operator, hired labor and family labor.
 - 9. Power, Machinery, Equipment and Building Expense per Work Unit A measure of expense control. It is the total of items 31 through 36 in Table 3 divided by the number of Work Units.

Other items listed on Table 8 are related to the above measures and serve to further define and describe the efficiency level of the farm business. Note should be taken that items listed in Table 8 and the Thermometer Chart are to be considered in the 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.

TAB	LE 8 - MEASURES OF FARM ORGANIZATION A	AND MANAGEMEN		
		Average of	60 High	60 Low
<u>Ite</u>	ms	302 Farms	Farms	Farms
3	Return to Oper. Labor &			
	Management, Whole Farm T2	36198	105817	-11546
4	Crop Yield Index	99.5	101.7	84.6
5	Return Over All Listed Cost Per			
	Tillable Acre (Excl Pasture)	23.73	30.57	-14.76
6	Gross Return Per Tillable Acre			
	(Excl. Pasture)	155.95	152.07	124.87
7	Index Return/\$100 Feed Fed	100.0	106.3	81.9
8	Livestock Units/100 Acres*	5.21	3.02	4.35
9	Size of Business in Tot. Work Units	498.4	655.3	406.2
10	Work Units/Worker	313.46	344.89	269.01
11	Power, Mach., Equip, Bldg Exp/Work Unit	78.39	85.15	96.09
30	Number of Animal Units	47.38	43.82	33.09
31	Work Units:			
32	Crops	349.2	558.9	304.7
33	Productive Livestock	143.7	92.8	99.5
34	Other Productive Units	5.5	3.6	2.0
35	Expenses/Work Unit:			
36	Tractor & Crop Machinery	52.24	6.0.79	67.45
37	Auto & Truck: Farm Share	11.60	11.70	12.53
38	Electricity: Farm Share	3.55	2.70	3.55
39	Livestock Equipment	2.42	1.50	1.76
40	Building, Fence & Tiling	7.54	7.56	9.73
41	Other Expense Per Total Work Units	* .		
42	General Farm, Tele. & Other Util.	9.99	12.18	9.72
43	Wages For Hired Labor	12.37	11.67	
44	Tractor, Crop Mach, Exp./Crop Acre**	29.15	27.65	
45	Fm. Pow. & Mach. Cost Allocated to Lvstk	2528.60	1251.96	
46	Fm.Pow.&Mach.Cost Allocated to Crops	25692.40	44109.04	
47	Bldg, Fence, Tile Cost Alloc. To Lvstk	1028.86	651.65	999.61
48	Bldg, Fence, Tile Cost Alloc. to Crops	2716.55	4870.82	3248.61

^{49 *} Acres Include All Tillable Land, Non-Tillable Hay & Pasture.
50 **Acres Include All Tillable Land Plus Acres In Non-Tillable Hay.

	*******SUPPLEMENTARY OPERATOR'S MANAGEM	MENT INFOR	MATION****	***
52	Oper.Return to Capital & Fam.Living	38958	99344	-2727
53	Oper.Depreciation:Farm Power&Crop Mach.	11422	18014	11814
54	Oper.Depreciation:Irrigation Equipment	16	78	
55	Oper.Depreciation:Custom Work Equip.	129		76
56	Oper.Depreciation:Livestock Equipment	512	365	192
57	Oper.Depreciation:Buildings,Fences	2608	3204	3056
58	Oper.Depreciation:Land Improv.&Tile	222	186	233
59	Total Operator's Depreciation	14909	21847	15371
60	Crop Marketing Index		• .	

TABLES 9 & 10 - INDIVIDUAL CROP ENTERPRISE ANALYSIS

The individual crop analysis tables show acres, yield, value per unit, (usually the value per unit at harvest time) and gross return per acre for each crop raised in the area the last crop year.

All crop enterprises produced on a farm are listed separately. This allows the operator to compare the return over listed costs for each crop produced. The total crop return, minus the variable and allocated costs, equals the return over listed costs, which is line 44.

Costs such as fertilizer, chemicals, seed, crop drying expense, special hired labor, and custom work are costs that are assigned to each individual crop in the account book or computer record system. These costs are shown in table 10 under variable costs.

Other costs, called <u>allocated costs</u>, are calculated from the actual costs incurred. They are allocated by formula to each enterprise. The power and crop machinery expense is divided into ownership and operation costs for each crop. This year for the first time all interest expense, wages paid, utilities and general farm expense have been allocated to each crop. This change, when compared with previous years, will generally show higher listed costs per acre and per unit of production.

Land cost on owned land is the greater of the opportunity cost or the actual cost of ownership. Individual records show the calculation of both actual and opportunity costs. Area averages report only the higher of the two costs on line 37. Land cost for rented land is based on the actual cash or crop share rent paid for use of the land.

TABLE 9 - SUPPLEMENTARY CROP MANAGEMENT INFORMATION

		MAIN WALLEL L WAY	
	Average	High	Low
	302 Farms	60 Farms	60 Farms
			·
PERCENT LAND TILLABLE	89.5	93.4	90.6
FERTILIZER COST PER ACRE	17.20	18.58	18.27
CROP CHEMICALS PER ACRE	10.49	10.44	12.63
SEED & OTHER COST PER ACRE	14.93	16.91	15.77
FUEL & LUBR. USED PER ACRE	9.93	9.25	10.36
REP.& MAINT. COST PER ACRE	15.97	14.69	18.40
*TOTAL ACRES CROPPED	671.61	1071.97	570.84

^{*}TILLABLE ACRES + RECROPPED ACRES, MINUS TILLABLE PASTURE, FALLOW AND IDLE ACRES.

TABLE 10 - CROP DATA FOR BARLEY, OWNED LAND, 1988				
<u> </u>		Average of	29 High	29 Low
		146 Farms	Farms	Farms
Ite	ms	Per Acre	Per Acre	Per Acre
3	Acres	91.4	108.1	55.0
4	Yield	36.1	57.3	9.6
5	Value per Unit	3.07	3.25	3.01
6	Crop Product Return	110.85	186.32	28.87
7	Other Crop Income	<u> 26.64</u>	<u>3.82</u>	<u>84.44</u>
8	Total Crop Return	$\overline{1}37.49$	190.14	113.31
	IABLE COSTS	10.00	0.1 4.0	10 20
10	Fertilizer	19.62	21.49	19.38
11	Chemicals	8.76	10.92	8.22
12	Seed	6.42	6.40	6.55
13	Crop Drying	0.07	0.14	0.02
14	Crop Insurance	0.91	0.78	1.13
15	Other Expenses	1.96	2.54	1.93
16	Special Hired Labor	0.73	0.08	0.69
17	Custom Work Hired	1.37	2.25	0.40
18	Irrigation Operation			
19	Assigned Interest	- 20 04	44.60	20 21
20	Total Variable Costs	39.84	44.60	38.31
21	Return Over Variable Costs	97.65	145.54	75.00
211	CAMED COCKE (MADIANIE C RIVED)	*.		
	OCATED COSTS (VARIABLE & FIXED)	11 01	14 50	16 60
31	Farm Power & Machinery - Ownership		14.50	16.60
32	Farm Power & Machinery - Operation		18.67	16.65
33	Building & Fence Cost	3.04	2.89	3.09
34	Irrigation Ownership Cost			
35 36	Land Ownership Cost Land Oppor.Ownership Cost			
37	Land Cost	29.01	29.00	26.30
38		4.32	4.32	4.64
39	Utilities & Gen. Farm Expense Hired Labor	2.81	3.07	1.87
39 41	Actual Non R.E.Int. Allocated		3.07	5.29
42	Total Allocated Costs	$\frac{4.08}{75.36}$	$\frac{3.37}{75.82}$	$\frac{3.29}{74.44}$
42	Total Allocated Costs	73.30	73.02	/2.17
43	Total Listed Costs	115.20	120.42	$\overline{112.75}$
44	Return Over Listed Costs	22.29	69.72	0.56
* *			051,2	
SUP	PLEMENTARY MANAGEMENT INFORMATION			. 71.
51	Total Cost Adj to a Min 7% Int.	115.91	122.62	112.84
52	Work Units Assigned/Acre	0.30	0.30	0.30
53	Power Cost Allocation Factor	1.00	1.00	1.00
54	Total Listed Cost/Unit of Prod.	3.19	2.10	11.74
55	Total Adjusted Cost/Unit of Prod.	3.21	2.14	11.78
56	Cash Variable Cost/Unit of Prod.	1.92	1.29	6.95
57	Return Over Listed Costs Per Unit	0.62	1.22	0.06
58	Breakeven Yield/Unit of Prod.	37.5	37.1	37.5

TAB	TABLE 10 - CROP DATA FOR BARLEY, RENTED LAND, 1988				
		Average of	29 High	29 Low	
		146 Farms	Farms	Farms	
<u>Ite</u>	ms	Per Acre	Per Acre	Per Acre	
2	A care of	00.0	88.8	73.8	
3 4	Acres	80.8 31.3	57.0	8.1	
	Yield	31.3	3.12	3.26	
5 6	Value per Unit	95.46	178.16	26.41	
7	Crop Product Return	26.23	2.78	49.81	
8	Other Crop Income Total Crop Return	$\frac{20.23}{121.69}$	$\frac{2.78}{180.94}$	$\frac{49.61}{76.22}$	
0	Total Crop Recurii	121.03	100.34	10.22	
VAR	IABLE COSTS				
10	Fertilizer	18.76	19.75	16.50	
11	Chemicals	8.06	9.65	5.51	
12	Seed	6.35	6.06	6.40	
13	Crop Drying	0.02	0.05		
14	Crop Insurance	1.23	1.73	0.38	
15	Other Expenses	1.86	2.38	1.63	
16	Special Hired Labor	0.16	0.02	0.58	
17	Custom Work Hired	1.03	1.46	0.26	
18	Irrigation Operation				
19	Assigned Interest		4		
20	Total Variable Costs	37.46	$\overline{41.10}$	31.26	
21	Return Over Variable Costs	84.23	139.84	44.96	
31 32 33 34 35	OCATED COSTS (VARIABLE & FIXED) Farm Power & Machinery - Ownership Farm Power & Machinery - Operation Building & Fence Cost Irrigation Ownership Cost Land Ownership Cost		12.11 15.35 2.55	7.66 14.72 1.96	
36 37	Land Oppor.Ownership Cost Land Cost	31.21	32.66	24.41	
3 <i>1</i>	Utilities & Gen. Farm Expense	3.90	4.12	3.27	
39	Hired Labor	2.10	1.96	1.30	
41	Actual Non R.E.Int. Allocated	4.00	4.67	4.04	
42	Total Allocated Costs	$\frac{4.00}{71.47}$	$\frac{3.07}{73.42}$	$\frac{-\frac{1}{57.36}}{57.36}$	
12	10001 1111000000	, 1.1,	73.12	37.30	
43	Total Listed Costs	108.93	114.52	88.62	
44	Return Over Listed Costs	12.76	66.42	-12.40	
• •			0011		
	PLEMENTARY MANAGEMENT INFORMATION				
51	Total Cost Adj to a Min 7% Int.	109.93			
52	Work Units Assigned/Acre	0.30	0.30	0.30	
53	Power Cost Allocation Factor	1.00	1.00	1.00	
54	Total Listed Cost/Unit of Prod.	3.48	2.01	10.94	
55	Total Adjusted Cost/Unit of Prod.	3.52		4	
56	Cash Variable Cost/Unit of Prod.	2.07	1.18	6.74	
57	Return Over Listed Costs Per Unit	0.41	1.17	-1.53	
58	Breakeven Yield/Unit of Prod.	35.7	36.7	27.2	

TAB	LE 10 - CROP DATA FOR FLAX, 1988		
4		OWNED LAND	RENTED LAND
		Average of	Average of
	w.	8 Farms	9 Farms
<u>Ite</u>	ms	Per Acre	Per Acre
· ວ	Acres	28.9	33.3
	Yield	9.3	10.5
	Value per Unit	8.23	7.84
6	Crop Product Return	76.57	82.67
7	Other Crop Income	18.72	6.31
8	Total Crop Return	95.29	88.98
•	F		n de la companya de La companya de la co
VAR	IABLE COSTS		
10	Fertilizer	10.31	7.69
	Chemicals	2.66	6.43
12	Seed	9.45	8.41
	Crop Drying		
14		0.70	· :
15	Other Expenses	2.70	
16	Special Hired Labor Custom Work Hired	1.11	1.44
17 18	Irrigation Operation		
19		en de Maria de Maria. O de la companya de	4 4 t
20	Total Variable Costs	26.23	25.56
21	Return Over Variable Costs	69.06	63.42
	OCATED COSTS (VARIABLE & FIXED)		e e e e e e e e e e e e e e e e e e e
31	Farm Power & Machinery - Ownership		8.35
32	Farm Power & Machinery - Operation	16.54	
33	Building & Fence Cost	4.26	2.04
34	Irrigation Ownership Cost		Total Section 1
35	Land Ownership Cost		5.5
36	Land Oppor.Ownership Cost		
37	Land Cost	21.70	
	Utilities & Gen. Farm Expense	3.77	
39		1.56	
	Actual Non R.E.Int. Allocated	6.26	$\begin{array}{r} 2.34 \\ \hline 59.54 \end{array}$
42	Total Allocated Costs	07.90	J3.J4
43		94.13	85.10
44	Return Over Listed Costs	1.16	3.88
11			
SUP	PLEMENTARY MANAGEMENT INFORMATION		A sec
51	Total Cost Adj to a Min 7% Int.	94.39	86.79
52	Work Units Assigned/Acre	0.30	0.30
53	Power Cost Allocation Factor	1.00	1.00
54	Total Listed Cost/Unit of Prod.	10.12	8.10
55	Total Adjusted Cost/Unit of Prod.	10.14	8.23
56	Cash Variable Cost/Unit of Prod.		4.56
57 50	Return Over Listed Costs Per Unit Breakeven Yield/Unit of Prod.	11.4	0.37 10.9
58	breakeven rretu/unit or Prou.	11.4	10.3

TAE	LE 10 - CROP DATA FOR OATS, OWNED			
		Average of		12 Low
		62 Farms	Farms	Farms
<u>Ite</u>	ms	Per Acre	Per Acre	Per Acre
3	Acres	54.9	64.0	56.8
4	Yield	34.4	61.3	5.9
5	Value per Unit	2.17	2.17	2.26
6	Crop Product Return	74.72	133.06	
7	Other Crop Income			13.40
8	Total Crop Return	$\tfrac{11.40}{86.12}$	$\frac{1.56}{134.62}$	$\frac{32.98}{46.38}$
U	rocar crop Keturn	00.12	134.02	.40.30
VAR	IABLE COSTS			Section 1.
	Fertilizer	15.81	16.91	17.87
11	Chemicals	2.30	2.61	1.44
12	Seed	7.72	8.72	6.88
13	Crop Drying	, , , , ,	01,2	9.V
14	Crop Insurance	0.15		0.60
15		0.62	< 0.77	0.39
16	Special Hired Labor	0.05		
17	Custom Work Hired	1.35	1.48	0.30
18	Irrigation Operation			
19	Assigned Interest		and the second	
20	Total Variable Costs	28.00	30.48	27.48
21	Return Over Variable Costs	58.12	104.14	18.90
31 32 33 34 35 36 37 38 39	OCATED COSTS (VARIABLE & FIXED) Farm Power & Machinery - Ownershi Farm Power & Machinery - Operatio Building & Fence Cost Irrigation Ownership Cost Land Ownership Cost Land Oppor.Ownership Cost Land Cost Utilities & Gen. Farm Expense Hired Labor	25.01 3.64 1.53	19.64 2.09 34.00 4.44 2.08	12.38 19.37 3.33 26.81 4.86 1.07
41	Actual Non R.E.Int. Allocated	$\frac{4.41}{100000000000000000000000000000000000$	4.92	<u>7.36</u>
42	Total Allocated Costs	67.67	79.90	75.18
43	Total Listed Costs	95.67	$\overline{110.38}$	102.66
44	Return Over Listed Costs	-9.55	24.24	
77	Reculi Over histed Costs	9.55	24.24	-56.28
SUP1 51 52 53 54 55	PLEMENTARY MANAGEMENT INFORMATION Total Cost Adj to a Min 7% Int. Work Units Assigned/Acre Power Cost Allocation Factor Total Listed Cost/Unit of Prod. Total Adjusted Cost/Unit of Prod. Cash Variable Cost/Unit of Prod.	95.61 0.30 1.00 2.78 2.78	110.84 0.30 1.00 1.80 1.81 1.00	100.39 0.30 1.00 17.40 16.97 10.19
57	Return Over Listed Costs Per Unit		0.40	-9.54
58	Breakeven Yield/Unit of Prod.		50.9	45.4

TABLE 10 - CROP DATA FOR OATS, RENTED LAND, 1988				
_3,000,000,000		Average of	10 High	10 Low
		54 Farms	Farms	Farms
<u>Ite</u>	ms	Per Acre	Per Acre	<u>Per Acre</u>
2	• • • • •	#O 0	20.0	76 2
3	Acres	59.2	38.0 66.4	76.3 6.7
4	Yield	34.3 2.25	2.40	2.29
5 6	Value per Unit Crop Product Return	77.18	159.74	15.37
7	Other Crop Income	11.20	5.11	33.58
8	Total Crop Return	88.38	$\frac{3.11}{164.85}$	48.95
o	rocar crop wecurn	00.50	104.03	40.55
VAR	IABLE COSTS			
10	Fertilizer	13.38	17.08	10.05
$\overline{11}$	Chemicals	2.74	3.32	1.52
$\overline{12}$	Seed	6.71	7.76	4.40
$\overline{13}$	Crop Drying			
14	Crop Insurance	0.57	1.42	1.05
15	Other Expenses	0.76	1.18	0.42
16	Special Hired Labor	0.59	1.87	
17	Custom Work Hired	0.95	0.50	0.07
18	Irrigation Operation		:	
19	Assigned Interest			
20	Total Variable Costs	25.69	33.13	17.51
21	Return Over Variable Costs	62.69	131.72	31.44
	0.00000 (111.00000)			
	OCATED COSTS (VARIABLE & FIXED)	10 10	10.63	14 70
31	Farm Power & Machinery - Ownership		12.63	14.72
32	Farm Power & Machinery - Operation		18.16	15.60
33	Building & Fence Cost	1.67	2.55	2.04
34	Irrigation Ownership Cost			
35 36	Land Ownership Cost			
37	Land Oppor.Ownership Cost Land Cost	21.26	22.20	22.20
38	Utilities & Gen. Farm Expense	3.56	3.61	3.81
39	Hired Labor	0.78	0.71	0.64
41	Actual Non R.E.Int. Allocated	3.85	2.87	3.05
42	and the second s		62.73	
43	Total Listed Costs	89.16	95.86	79.57
	Return Over Listed Costs			
SUP	PLEMENTARY MANAGEMENT INFORMATION	and the second	*	Something the second
	PLEMENTARY MANAGEMENT INFORMATION Total Cost Adj to a Min 7% Int.	89.75	97.89	61.51
52	Work Units Assigned/Acre	0.30	0.30	0.30
53	Power Cost Allocation Factor	0.99	1.00	1.00
54	Total Listed Cost/Unit of Prod.	2.60	1.44	11.88
55	Total Adjusted Cost/Unit of Prod.	2.62	1.47	9.15
56				
	Return Over Listed Costs Per Unit	-0.02	1.04	-4.57
58	Breakeven Yield/Unit of Prod.	39.6	39.9	34.7

New York New York	TAB:	LE 10 - CROP DATA FOR SPRING WHEAT,			
Teems					57 Low
127.4	T 4				
2 Yield	ite	IIIS	Per Acre	Per Acre	Per Acre
2 Yield	3	Acres	127.4	114.6	149.6
5 Value per Unit 6 Crop Product Return 7 Other Crop Income 8 Total Crop Return 8					
6 Crop Product Return 51.50 28.60 95.21 8 Total Crop Return 140.31 179.23 122.36 VARIABLE COSTS					
Total Crop Income 51.50 28.60 95.21					
VARIABLE COSTS Variable Cost Variable					
10 Fertilizer 21.26 22.46 20.93 11 Chemicals 9.49 10.08 7.45 12 Seed 8.06 8.04 7.74 13 Crop Drying 0.10 0.08 0.11 14 Crop Insurance 1.32 0.68 1.51 15 Other Expenses 1.72 3.02 1.54 16 Special Hired Labor 0.40 0.28 0.15 17 Custom Work Hired 1.24 1.50 1.02 18 Irrigation Operation 19 Assigned Interest 20 Total Variable Costs 43.59 46.12 40.44 21 Return Over Variable Costs 96.72 133.11 81.92 ALLOCATED COSTS (VARIABLE & FIXED) 31 Farm Power & Machinery - Ownership 13.05 16.05 11.94 22 Farm Power & Machinery - Ownership 13.05 16.05 11.94 33 Building & Fence Cost 2.95 3.65 2.85 34 Irrigation Ownership Cost 31.14 1.15 1.19 35 Land Ownership Cost 32.95 3.65 2.85 36 Utilities & Gen. Farm Expense 5.32 4.69 6.14 39 Hired Labor 3.49 3.32 3.05 31 Hand Cost 3.49 3.32 3.05 32 Total Allocated Costs 80.34 83.62 75.76 43 Total Listed Costs 123.93 129.74 116.20 44 Return Over Listed Costs 16.38 49.49 6.16 SUPPLEMENTARY MANAGEMENT INFORMATION 51 Total Cost Adj to a Min 7% Int. 123.43 130.98 114.57 52 Work Units Assigned/Acre 0.30 0.30 0.30 0.30 53 Power Cost Allocation Factor 1.00 1.00 1.00 54 Total Listed Cost/Unit of Prod. 5.23 3.24 15.70 55 Total Adjusted Cost/Unit of Prod. 5.20 3.27 15.43 56 Cash Variable Cost/Unit of Prod. 5.20 3.27 15.43 56 Cash Variable Cost/Unit of Prod. 5.20 3.27 15.43 56 Cash Variable Cost/Unit of Prod. 5.20 3.27 15.43					
10 Fertilizer 21.26 22.46 20.93 11 Chemicals 9.49 10.08 7.45 12 Seed 8.06 8.04 7.74 13 Crop Drying 0.10 0.08 0.11 14 Crop Insurance 1.32 0.68 1.51 15 Other Expenses 1.72 3.02 1.54 16 Special Hired Labor 0.40 0.28 0.15 17 Custom Work Hired 1.24 1.50 1.02 18 Irrigation Operation 19 Assigned Interest 20 Total Variable Costs 43.59 46.12 40.44 21 Return Over Variable Costs 96.72 133.11 81.92 ALLOCATED COSTS (VARIABLE & FIXED) 31 Farm Power & Machinery - Ownership 13.05 16.05 11.94 22 Farm Power & Machinery - Ownership 13.05 16.05 11.94 33 Building & Fence Cost 2.95 3.65 2.85 34 Irrigation Ownership Cost 31.14 1.15 1.19 35 Land Ownership Cost 32.95 3.65 2.85 36 Utilities & Gen. Farm Expense 5.32 4.69 6.14 39 Hired Labor 3.49 3.32 3.05 31 Hand Cost 3.49 3.32 3.05 32 Total Allocated Costs 80.34 83.62 75.76 43 Total Listed Costs 123.93 129.74 116.20 44 Return Over Listed Costs 16.38 49.49 6.16 SUPPLEMENTARY MANAGEMENT INFORMATION 51 Total Cost Adj to a Min 7% Int. 123.43 130.98 114.57 52 Work Units Assigned/Acre 0.30 0.30 0.30 0.30 53 Power Cost Allocation Factor 1.00 1.00 1.00 54 Total Listed Cost/Unit of Prod. 5.23 3.24 15.70 55 Total Adjusted Cost/Unit of Prod. 5.20 3.27 15.43 56 Cash Variable Cost/Unit of Prod. 5.20 3.27 15.43 56 Cash Variable Cost/Unit of Prod. 5.20 3.27 15.43 56 Cash Variable Cost/Unit of Prod. 5.20 3.27 15.43		-			
11 Chemicals 9.49 10.08 7.45 12 Seed 8.06 8.04 7.74 13 Crop Drying 0.10 0.08 0.11 14 Crop Insurance 1.32 0.68 1.51 15 Other Expenses 1.72 3.02 1.54 16 Special Hired Labor 0.40 0.28 0.15 17 Custom Work Hired 1.24 1.50 1.02 18 Irrigation Operation			01.06	00.46	20.02
12 Seed					
13 Crop Drying 14 Crop Insurance 1 1.32					
14 Crop Insurance 1.32 0.68 1.51 15 Other Expenses 1.72 3.02 1.54 16 Special Hired Labor 0.40 0.28 0.15 17 Custom Work Hired 1.24 1.50 1.02 18 Irrigation Operation 1.24 1.50 1.02 19 Assigned Interest 2 1.50 1.02 20 Total Variable Costs 43.59 46.12 40.44 21 Return Over Variable Costs 96.72 133.11 81.92 ALLOCATED COSTS (VARIABLE & FIXED) 31 Farm Power & Machinery - Ownership 13.05 16.05 11.94 32 Farm Power & Machinery - Operation 16.92 20.02 14.45 33 Building & Fence Cost 2.95 3.65 2.85 34 Irrigation Ownership Cost 3.65 2.85 35 Land Cownership Cost 33.36 30.87 30.58 36 Land Cost 33.36 30.87 30.58 37 Land Cost 34.9 3.32 3.05					
15 Other Expenses 1.72 3.02 1.54 16 Special Hired Labor 0.40 0.28 0.15 17 Custom Work Hired 1.24 1.50 1.02 18 Irrigation Operation 19 Assigned Interest 20 Total Variable Costs 43.59 46.12 40.44 21 Return Over Variable Costs 96.72 133.11 81.92 ALLOCATED COSTS (VARIABLE & FIXED) 31 Farm Power & Machinery - Ownership 13.05 16.05 11.94 32 Farm Power & Machinery - Operation 16.92 20.02 14.45 33 Building & Fence Cost 2.95 3.65 2.85 34 Irrigation Ownership Cost 35 Land Ownership Cost 36 Land Oppor.Ownership Cost 37 Land Cost 38.8 Utilities & Gen. Farm Expense 5.32 4.69 6.14 39 Hired Labor 3.49 3.32 3.05 41 Actual Non R.E.Int. Allocated 5.25 5.02 6.75 42 Total Allocated Costs 80.34 83.62 75.76 43 Total Listed Costs 123.93 129.74 116.20 44 Return Over Listed Costs 16.38 49.49 6.16 SUPPLEMENTARY MANAGEMENT INFORMATION 51 Total Cost Adj to a Min 7% Int. 123.43 130.98 114.57 52 Work Units Assigned/Acre 0.30 0.30 0.30 0.30 53 Power Cost Allocation Factor 1.00 1.00 1.00 54 Total Listed Cost/Unit of Prod. 5.23 3.24 15.70 55 Total Adjusted Cost/Unit of Prod. 5.20 3.27 15.43 56 Cash Variable Cost/Unit of Prod. 5.20 3.27 15.43 56 Cash Variable Cost/Unit of Prod. 5.20 3.27 15.43 56 Cash Variable Cost/Unit of Prod. 5.20 3.27 15.43 56 Cash Variable Cost/Unit of Prod. 5.20 3.27 15.43 56 Cash Variable Cost/Unit of Prod. 5.20 3.27 15.43 56 Cash Variable Cost/Unit of Prod. 5.20 3.27 15.43 56 Cash Variable Cost/Unit of Prod. 5.20 3.27 15.43 56 Cash Variable Cost/Unit of Prod. 5.20 3.27 15.43					
16 Special Hired Labor 0.40 0.28 0.15 17 Custom Work Hired 1.24 1.50 1.02 18 Irrigation Operation 1 1.02 19 Assigned Interest 2 43.59 46.12 40.44 20 Total Variable Costs 96.72 133.11 81.92 ALLOCATED COSTS (VARIABLE & FIXED) 31 Farm Power & Machinery - Ownership 13.05 16.05 11.94 32 Farm Power & Machinery - Ownership 16.92 20.02 14.45 33 Building & Fence Cost 2.95 3.65 2.85 34 Irrigation Ownership Cost 3.40 3.65 2.85 35 Land Oppor.Ownership Cost 33.36 30.87 30.58 36 Land Oppor.Ownership Cost 3.49 3.32 30.58 38 Utilities & Gen. Farm Expense 5.32 4.69 6.14 39 Hired Labor 3.49 3.32 30.58 41 Actual Non R.E.Int. Allocated 5.25 5.02 6.75 42					
17 Custom Work Hired 1 Irrigation Operation 19 Assigned Interest 20 Total Variable Costs 43.59 46.12 40.44 21 Return Over Variable Costs 96.72 133.11 81.92 ALLOCATED COSTS (VARIABLE & FIXED) 31 Farm Power & Machinery - Ownership 13.05 16.05 11.94 32 Farm Power & Machinery - Operation 16.92 20.02 14.45 33 Building & Fence Cost 2.95 3.65 2.85 4 Irrigation Ownership Cost 35 Land Ownership Cost 36 Land Oppor.Ownership Cost 37 Land Cost 33.36 30.87 30.58 38 Utilities & Gen. Farm Expense 5.32 4.69 6.14 39 Hired Labor 3.49 3.32 3.05 41 Actual Non R.E.Int. Allocated 5.25 5.02 6.75 42 Total Allocated Costs 80.34 83.62 75.76 43 Total Listed Costs 16.38 49.49 6.16 SUPPLEMENTARY MANAGEMENT INFORMATION 51 Total Cost Adj to a Min 7* Int. 123.43 130.98 114.57 52 Work Units Assigned/Acre 0.30 0.30 0.30 53 Power Cost Allocation Factor 1.00 1.00 54 Total Listed Cost/Unit of Prod. 5.23 3.24 15.70 55 Total Adjusted Cost/Unit of Prod. 5.20 3.27 15.43 56 Cash Variable Cost/Unit of Prod. 5.20 3.27 15.43 56 Cash Variable Cost/Unit of Prod. 5.20 3.27 15.43 56 Cash Variable Cost/Unit of Prod. 5.20 3.27 15.43 56 Cash Variable Cost/Unit of Prod. 5.20 3.27 15.43 56 Cash Variable Cost/Unit of Prod. 5.20 3.27 15.43 56 Cash Variable Cost/Unit of Prod. 5.20 3.27 15.43 56 Cash Variable Cost/Unit of Prod. 5.20 3.27 15.43					
18 Irrigation Operation 19 Assigned Interest 20 Total Variable Costs					
19 Assigned Interest 20 Total Variable Costs 43.59 46.12 40.44 21 Return Over Variable Costs 96.72 133.11 81.92 ALLOCATED COSTS (VARIABLE & FIXED) 31 Farm Power & Machinery - Ownership 13.05 16.05 11.94 32 Farm Power & Machinery - Operation 16.92 20.02 14.45 33 Building & Fence Cost 2.95 3.65 2.85 34 Irrigation Ownership Cost 35 Land Ownership Cost 36 Land Oppor.Ownership Cost 37 Land Cost 33.36 30.87 30.58 38 Utilities & Gen. Farm Expense 5.32 4.69 6.14 39 Hired Labor 3.49 3.32 3.05 41 Actual Non R.E.Int. Allocated 5.25 5.02 6.75 42 Total Allocated Costs 80.34 83.62 75.76 43 Total Listed Costs 123.93 129.74 116.20 44 Return Over Listed Costs 16.38 49.49 6.16 SUPPLEMENTARY MANAGEMENT INFORMATION 51 Total Cost Adj to a Min 7% Int. 123.43 130.98 114.57 52 Work Units Assigned/Acre 0.30 0.30 0.30 53 Power Cost Allocation Factor 1.00 1.00 54 Total Listed Cost/Unit of Prod. 5.23 3.24 15.70 55 Total Adjusted Cost/Unit of Prod. 5.20 3.27 15.43 56 Cash Variable Cost/Unit of Prod. 5.20 3.27 15.43 56 Cash Variable Cost/Unit of Prod. 5.20 3.27 15.43 56 Cash Variable Cost/Unit of Prod. 5.20 3.27 15.43 56 Cash Variable Cost/Unit of Prod. 5.20 3.27 15.75			1.24	1.50	1.02
20 Total Variable Costs 43.59 46.12 40.44 21 Return Over Variable Costs 96.72 133.11 81.92 ALLOCATED COSTS (VARIABLE & FIXED) 31 Farm Power & Machinery - Ownership 13.05 16.05 11.94 32 Farm Power & Machinery - Operation 16.92 20.02 14.45 33 Building & Fence Cost 2.95 3.65 2.85 34 Irrigation Ownership Cost 3.6 Land Oppor.Ownership Cost 35 Land Cost 33.36 30.87 30.58 38 Utilities & Gen. Farm Expense 5.32 4.69 6.14 39 Hired Labor 3.49 3.32 3.05 41 Actual Non R.E.Int. Allocated 5.25 5.02 6.75 42 Total Allocated Costs 123.93 129.74 116.20 44 Return Over Listed Costs 16.38 49.49 6.16 SUPPLEMENTARY MANAGEMENT INFORMATION 51 Total Cost Adj to a Min 7% Int. 123.43 130.98 114.57 52 Work Units Assigned/Acre 0.30 0.30 <td></td> <td></td> <td></td> <td></td> <td></td>					
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ALLOCATED COSTS (VARIABLE & FIXED) 31 Farm Power & Machinery - Ownership 13.05 16.05 11.94 32 Farm Power & Machinery - Operation 16.92 20.02 14.45 33 Building & Fence Cost 2.95 3.65 2.85 34 Irrigation Ownership Cost 35 Land Ownership Cost 36 Land Oppor.Ownership Cost 37 Land Cost 33.36 30.87 30.58 38 Utilities & Gen. Farm Expense 5.32 4.69 6.14 39 Hired Labor 3.49 3.32 3.05 41 Actual Non R.E.Int. Allocated 5.25 5.02 6.75 42 Total Allocated Costs 80.34 83.62 75.76 43 Total Listed Costs 123.93 129.74 116.20 44 Return Over Listed Costs 16.38 49.49 6.16 SUPPLEMENTARY MANAGEMENT INFORMATION 51 Total Cost Adj to a Min 7% Int. 123.43 130.98 114.57 52 Work Units Assigned/Acre 0.30 0.30 0.30 53 Power Cost Allocation Factor 1.00 1.00 1.00 54 Total Listed Cost/Unit of Prod. 5.23 3.24 15.70 55 Total Adjusted Cost/Unit of Prod. 5.20 3.27 15.43 56 Cash Variable Cost/Unit of Prod. 5.20 3.27 15.43 56 Cash Variable Cost/Unit of Prod. 3.15 1.97 9.57 75 Return Over Listed Costs Per Unit 0.69 1.23 0.83					
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31 Farm Power & Machinery - Ownership 13.05 16.05 11.94 32 Farm Power & Machinery - Operation 16.92 20.02 14.45 33 Building & Fence Cost 2.95 3.65 2.85 34 Irrigation Ownership Cost 35 Land Ownership Cost 36 Land Oppor.Ownership Cost 37 Land Cost 33.36 30.87 30.58 38 Utilities & Gen. Farm Expense 5.32 4.69 6.14 39 Hired Labor 3.49 3.32 3.05 41 Actual Non R.E.Int. Allocated 5.25 5.02 6.75 42 Total Allocated Costs 80.34 83.62 75.76 43 Total Listed Costs 123.93 129.74 116.20 44 Return Over Listed Costs 16.38 49.49 6.16 SUPPLEMENTARY MANAGEMENT INFORMATION 51 Total Cost Adj to a Min 7% Int. 123.43 130.98 114.57 52 Work Units Assigned/Acre 0.30 0.30 0.30 53 Power Cost Allocation Factor 1.00 1.00 1.00 54 Total Listed Cost/Unit of Prod. 5.23 3.24 15.70 55 Total Adjusted Cost/Unit of Prod. 5.20 3.27 15.43 56 Cash Variable Cost/Unit of Prod. 5.20 3.27 15.43 57 Return Over Listed Costs Per Unit 0.69 1.23 0.83	ALL(CATED COSTS (VARIABLE & FIXED)			
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33 Building & Fence Cost 2.95 3.65 2.85 34 Irrigation Ownership Cost 35 Land Oppor.Ownership Cost 36 Land Oppor.Ownership Cost 37 Land Cost 33.36 30.87 30.58 38 Utilities & Gen. Farm Expense 5.32 4.69 6.14 39 Hired Labor 3.49 3.32 3.05 41 Actual Non R.E.Int. Allocated 5.25 5.02 6.75 42 Total Allocated Costs 80.34 83.62 75.76 43 Total Listed Costs 123.93 129.74 116.20 44 Return Over Listed Costs 16.38 49.49 6.16 SUPPLEMENTARY MANAGEMENT INFORMATION 51 Total Cost Adj to a Min 7% Int. 123.43 130.98 114.57 52 Work Units Assigned/Acre 0.30 0.30 0.30 53 Power Cost Allocation Factor 1.00 1.00 1.00 54 Total Listed Cost/Unit of Prod. 5.23 3.24 15.70 55 Total Adjusted Cost/Unit of Prod. 5.20 3.27 15.43 56 Cash Variable Cost/Unit of Prod. 5.20 3.27 15.43 56 Cash Variable Cost/Unit of Prod. 5.20 3.27 15.43 56 Cash Variable Cost/Unit of Prod. 5.20 3.27 15.43					
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39 Hired Labor 41 Actual Non R.E.Int. Allocated 5.25 5.02 6.75 42 Total Allocated Costs 80.34 83.62 75.76 43 Total Listed Costs 123.93 129.74 116.20 44 Return Over Listed Costs 16.38 49.49 6.16 SUPPLEMENTARY MANAGEMENT INFORMATION 51 Total Cost Adj to a Min 7% Int. 123.43 130.98 114.57 52 Work Units Assigned/Acre 0.30 0.30 0.30 53 Power Cost Allocation Factor 1.00 1.00 1.00 54 Total Listed Cost/Unit of Prod. 5.23 3.24 15.70 55 Total Adjusted Cost/Unit of Prod. 5.20 3.27 15.43 56 Cash Variable Cost/Unit of Prod. 3.15 1.97 9.57 57 Return Over Listed Costs Per Unit 0.69 1.23 0.83		Utilities & Gen. Farm Expense	5.32	4.69	
42 Total Allocated Costs 80.34 83.62 75.76 43 Total Listed Costs 123.93 129.74 116.20 44 Return Over Listed Costs 16.38 49.49 6.16 SUPPLEMENTARY MANAGEMENT INFORMATION 51 Total Cost Adj to a Min 7% Int. 123.43 130.98 114.57 52 Work Units Assigned/Acre 0.30 0.30 0.30 53 Power Cost Allocation Factor 1.00 1.00 1.00 54 Total Listed Cost/Unit of Prod. 5.23 3.24 15.70 55 Total Adjusted Cost/Unit of Prod. 5.20 3.27 15.43 56 Cash Variable Cost/Unit of Prod. 3.15 1.97 9.57 57 Return Over Listed Costs Per Unit 0.69 1.23 0.83					
43 Total Listed Costs 123.93 129.74 116.20 44 Return Over Listed Costs 16.38 49.49 6.16 SUPPLEMENTARY MANAGEMENT INFORMATION 51 Total Cost Adj to a Min 7% Int. 123.43 130.98 114.57 52 Work Units Assigned/Acre 0.30 0.30 0.30 53 Power Cost Allocation Factor 1.00 1.00 1.00 54 Total Listed Cost/Unit of Prod. 5.23 3.24 15.70 55 Total Adjusted Cost/Unit of Prod. 5.20 3.27 15.43 56 Cash Variable Cost/Unit of Prod. 3.15 1.97 9.57 57 Return Over Listed Costs Per Unit 0.69 1.23 0.83	41	Actual Non R.E.Int. Allocated	5.25	5.02	6.75
44 Return Over Listed Costs 16.38 49.49 6.16 SUPPLEMENTARY MANAGEMENT INFORMATION 51 Total Cost Adj to a Min 7% Int. 123.43 130.98 114.57 52 Work Units Assigned/Acre 0.30 0.30 0.30 53 Power Cost Allocation Factor 1.00 1.00 1.00 54 Total Listed Cost/Unit of Prod. 5.23 3.24 15.70 55 Total Adjusted Cost/Unit of Prod. 5.20 3.27 15.43 56 Cash Variable Cost/Unit of Prod. 3.15 1.97 9.57 57 Return Over Listed Costs Per Unit 0.69 1.23 0.83	42	Total Allocated Costs	80.34	83.62	75.76
44 Return Over Listed Costs 16.38 49.49 6.16 SUPPLEMENTARY MANAGEMENT INFORMATION 51 Total Cost Adj to a Min 7% Int. 123.43 130.98 114.57 52 Work Units Assigned/Acre 0.30 0.30 0.30 53 Power Cost Allocation Factor 1.00 1.00 1.00 54 Total Listed Cost/Unit of Prod. 5.23 3.24 15.70 55 Total Adjusted Cost/Unit of Prod. 5.20 3.27 15.43 56 Cash Variable Cost/Unit of Prod. 3.15 1.97 9.57 57 Return Over Listed Costs Per Unit 0.69 1.23 0.83	4.0		10000	100 74	116 00
SUPPLEMENTARY MANAGEMENT INFORMATION 51 Total Cost Adj to a Min 7% Int. 123.43 130.98 114.57 52 Work Units Assigned/Acre 0.30 0.30 0.30 53 Power Cost Allocation Factor 1.00 1.00 1.00 54 Total Listed Cost/Unit of Prod. 5.23 3.24 15.70 55 Total Adjusted Cost/Unit of Prod. 5.20 3.27 15.43 56 Cash Variable Cost/Unit of Prod. 3.15 1.97 9.57 57 Return Over Listed Costs Per Unit 0.69 1.23 0.83					
51 Total Cost Adj to a Min 7% Int. 123.43 130.98 114.57 52 Work Units Assigned/Acre 0.30 0.30 0.30 53 Power Cost Allocation Factor 1.00 1.00 1.00 54 Total Listed Cost/Unit of Prod. 5.23 3.24 15.70 55 Total Adjusted Cost/Unit of Prod. 5.20 3.27 15.43 56 Cash Variable Cost/Unit of Prod. 3.15 1.97 9.57 57 Return Over Listed Costs Per Unit 0.69 1.23 0.83	44	Return Over Listed Costs	16.38	49.49	0.10
51 Total Cost Adj to a Min 7% Int. 123.43 130.98 114.57 52 Work Units Assigned/Acre 0.30 0.30 0.30 53 Power Cost Allocation Factor 1.00 1.00 1.00 54 Total Listed Cost/Unit of Prod. 5.23 3.24 15.70 55 Total Adjusted Cost/Unit of Prod. 5.20 3.27 15.43 56 Cash Variable Cost/Unit of Prod. 3.15 1.97 9.57 57 Return Over Listed Costs Per Unit 0.69 1.23 0.83	SHPI	PLEMENTARY MANAGEMENT INFORMATION			
52 Work Units Assigned/Acre 0.30 0.30 0.30 53 Power Cost Allocation Factor 1.00 1.00 1.00 54 Total Listed Cost/Unit of Prod. 5.23 3.24 15.70 55 Total Adjusted Cost/Unit of Prod. 5.20 3.27 15.43 56 Cash Variable Cost/Unit of Prod. 3.15 1.97 9.57 57 Return Over Listed Costs Per Unit 0.69 1.23 0.83			123.43	130.98	114.57
53 Power Cost Allocation Factor 1.00 1.00 1.00 54 Total Listed Cost/Unit of Prod. 5.23 3.24 15.70 55 Total Adjusted Cost/Unit of Prod. 5.20 3.27 15.43 56 Cash Variable Cost/Unit of Prod. 3.15 1.97 9.57 57 Return Over Listed Costs Per Unit 0.69 1.23 0.83					
54 Total Listed Cost/Unit of Prod. 5.23 3.24 15.70 55 Total Adjusted Cost/Unit of Prod. 5.20 3.27 15.43 56 Cash Variable Cost/Unit of Prod. 3.15 1.97 9.57 57 Return Over Listed Costs Per Unit 0.69 1.23 0.83					
55 Total Adjusted Cost/Unit of Prod. 5.20 3.27 15.43 56 Cash Variable Cost/Unit of Prod. 3.15 1.97 9.57 57 Return Over Listed Costs Per Unit 0.69 1.23 0.83					
56 Cash Variable Cost/Unit of Prod. 3.15 1.97 9.57 57 Return Over Listed Costs Per Unit 0.69 1.23 0.83					
57 Return Over Listed Costs Per Unit 0.69 1.23 0.83					

TABLE 10 - CROP DATA SPRING WHEAT, RENTED LAND, 1988				
		Average of	77 High	77 Low
		385 Farms	Farms	Farms
<u>Ite</u>	ms	Per Acre	Per Acre	Per Acre
4				
3	Acres	118.7	108.0	111.1
4	Yield	22.6	39.5	7.4
5	Value per Unit	3.74	3.72	3.55
6	Crop Product Return	84.46	146.62	26.12
7	Other Crop Income	<u>52.54</u>	<u>27.35</u>	92.35
8	Total Crop Return	137.00	173.97	118.47
	T107 7 G0 GMG			
	IABLE COSTS	20.66	20 56	10 10
10	Fertilizer	20.66	20.56	19.10
11	Chemicals	9.20	8.19	7.46
12	Seed	7.79	7.62	8.24
13	Crop Drying	0.06	0.05 2.41	0.01
14 15	Crop Insurance	2.01 1.29	1.50	2.09 1.35
16	Other Expenses Special Hired Labor	0.13	0.01	0.05
17	Custom Work Hired	1.26	0.77	1.04
18	Irrigation Operation	1.20	0.77	1.07
19	Assigned Interest		•	
20	Total Variable Costs	42.40	41.09	39.33
21	Return Over Variable Costs	94.60	132.88	79.14
ALL 31 32 33 34 35 36 37 38 39 41 42	OCATED COSTS (VARIABLE & FIXED) Farm Power & Machinery - Ownership Farm Power & Machinery - Operation Building & Fence Cost Irrigation Ownership Cost Land Ownership Cost Land Oppor.Ownership Cost Land Cost Utilities & Gen. Farm Expense Hired Labor Actual Non R.E.Int. Allocated Total Allocated Costs Total Listed Costs			7.86 13.40 1.66 35.75 4.63 1.79 3.99 69.08
44	Return Over Listed Costs	17.56	53.40	108.41
7 7	Werdin Over Disted Costs	17.50	23.40	10.00
51	PLEMENTARY MANAGEMENT INFORMATION Total Cost Adj to a Min 7% Int.	119.30		
52	Work Units Assigned/Acre	0.30	0.30	0.30
53	Power Cost Allocation Factor	1.00	1.00	1.00
54	Total Listed Cost/Unit of Prod.	5.28	3.05	14.65
55	Total Adjusted Cost/Unit of Prod.	5.28		0 - 0
56	Cash Variable Cost/Unit of Prod.	3.07		8.53
57 50	Return Over Listed Costs Per Unit	0.78	1.35	
58	Breakeven Yield/Unit of Prod.	31.9	32.4	30.5

TABLE 10 - CROP DATA FOR WINTER WHEAT, 1988

TABLE 10 - CROP DATA FOR WINTER WHEAT, 1988							
		<u>OWNED</u> <u>LAND</u> Average of 22 Farms	RENTED LAND Average of 20 Farms				
Items		Per Acre	Per Acre				
6 Crop Pi	per Unit coduct Return Crop Income	58.5 27.4 3.45 94.34 30.87	79.6 30.3 3.52 106.62 _31.78				
8	Total Crop Return	$\frac{50.07}{125.21}$	$\frac{31.78}{138.40}$				
VARIABLE CO	OSTS Lzer	14.51	18.12				
11 Chemica 12 Seed	als	2.41 5.97	2.27				
13 Crop Dr	rvina	0.14	7.15 0.24				
~	isurance	0.55	1.70				
	Expenses	1.54	3.40				
	. Hired Labor Work Hired	0.20 1.71	0.11				
	ion Operation	1./1	1.80				
19 Assigne	ed Interest	1 <u>1 4 1 1 </u>					
	al Variable Costs	26.84	34.79				
21 Ret	urn Over Variable Costs	98.37	103.61				
31 Farm Po 32 Farm Po 33 Buildin 34 Irrigat	COSTS (VARIABLE & FIXED) ower & Machinery - Ownership ower & Machinery - Operation og & Fence Cost ion Ownership Cost	11.49 18.74 2.60	9.99 20.70 2.14				
	mership Cost por.Ownership Cost						
37 Land Co	est	27.98	27.70				
38 Utiliti	es & Gen. Farm Expense	4.58	4.86				
39 Hired L 41 Actual	abor Non R.E.Int. Allocated	3.11	1.02				
	al Allocated Costs	$\frac{3.08}{71.58}$	$\frac{4.16}{70.57}$				
	al Listed Costs	98.42	105.36				
44 Ret	urn Over Listed Costs	26.79	33.04				
51 Total C 52 Work Un 53 Power C 54 Total L 55 Total A 56 Cash Va 57 Return	RY MANAGEMENT INFORMATION ost Adj to a Min 7% Int. its Assigned/Acre ost Allocation Factor isted Cost/Unit of Prod. djusted Cost/Unit of Prod. riable Cost/Unit of Prod. Over Listed Costs Per Unit en Yield/Unit of Prod.	99.90 0.30 0.98 3.59 3.65 2.06 0.98 28.5	105.64 0.30 1.00 3.48 3.49 2.16 1.09 29.9				

TAB	TABLE 10 - CROP DATA FOR CORN - GRAIN, OWNED LAND, 1988				
		Average of 98 Farms	19 High Farms	19 Low Farms	
<u>Ite</u>	MS	Per Acre	Per Acre	Per Acre	
3 4 5 6 7 8	Acres Yield Value per Unit Crop Product Return Other Crop Income Total Crop Return	47.6 75.8 2.41 182.94 28.66 211.60	44.0 113.7 2.45 278.98 16.43 295.41	34.4 28.5 2.41 68.84 37.97 106.81	
VAR	IABLE COSTS				
10 11 12 13 14 15 16 17 18	Chemicals Seed Crop Drying Crop Insurance Other Expenses Special Hired Labor Custom Work Hired Irrigation Operation Assigned Interest	23.95 10.38 17.14 3.72 0.74 1.53 0.67 2.90	24.70 7.89 17.52 8.66 0.66 2.50 1.25 3.66	23.52 5.52 15.44 0.99 0.52 1.02 0.44 3.72	
20 21	Total Variable Costs Return Over Variable Costs	61.14 150.46	66.84 228.57	51.16 55.65	
31 32 33 34 35 36	OCATED COSTS (VARIABLE & FIXED) Farm Power & Machinery - Ownership Farm Power & Machinery - Operation Building & Fence Cost Irrigation Ownership Cost Land Ownership Cost Land Oppor.Ownership Cost	31.74 8.55	23.75 34.16 9.23	17.21 30.00 3.17	
37 38	Land Cost Utilities & Gen. Farm Expense	40.14 9.33	44.64 10.70	36.40 6.02	
39	Hired Labor	3.76	4.52	2.88	
41 42	Actual Non R.E.Int. Allocated Total Allocated Costs	$\frac{12.44}{131.13}$	$\frac{11.14}{138.14}$	$\tfrac{12.09}{107.77}$	
43 44	Total Listed Costs Return Over Listed Costs	192.27 19.33	204.98 90.43	158.93 -52.12	
51 52 53 54 55 56 57	PLEMENTARY MANAGEMENT INFORMATION Total Cost Adj to a Min 7% Int. Work Units Assigned/Acre Power Cost Allocation Factor Total Listed Cost/Unit of Prod. Total Adjusted Cost/Unit of Prod. Cash Variable Cost/Unit of Prod. Return Over Listed Costs Per Unit Breakeven Yield/Unit of Prod.	188.99 0.55 0.99 2.54 2.49 1.56 0.26 79.8	201.48 0.55 0.99 1.80 1.77 1.12 0.80 83.7	151.89 0.55 1.00 5.58 5.33 3.58 -1.83 65.9	

TABLE 10 - CROP DATA FOR CORN - GRAIN, RENTED LAND, 1988					
		Average of		23 Low	
T. da		118 Farms	Farms	Farms	
<u>Ite</u>	ms	Per Acre	Per Acre	Per Acre	
3	Acres	53.9	62.2	34.4	
4	Yield	60.3	99.2	22.0	
5	Value per Unit	2.39	2.41	2.29	
6	Crop Product Return	144.08	239.13	50.38	
7	Other Crop Income	33.71	21.95	55.26	
8	Total Crop Return	$\overline{177.79}$	261.08	105.64	
	TARLE GOGEG				
10	IABLE COSTS Fertilizer	26 05	07 77	n= 20	
11	Chemicals	26.05 11.32	27.77 11.09	25.32 8.72	
12	Seed	16.79	15.58	17.53	
13	Crop Drying	3.65	7.32	0.38	
14	Crop Insurance	1.24	1.08	1.51	
15	Other Expenses		2.38	0.78	
16	Special Hired Labor	0.26	0.80		
17	Custom Work Hired	1.99	2.36	0.67	
18	Irrigation Operation				
19	Assigned Interest	***************************************		***************************************	
20	Total Variable Costs	62.69	68.38	54.91	
21	Return Over Variable Costs	115.10	192.70	50.73	
ΔΤ.Τ.	OCATED COSTS (VARIABLE & FIXED)				
31	Farm Power & Machinery - Ownership	17.42	31.96	14.77	
32	Farm Power & Machinery - Operation		37.77	23.40	
33	Building & Fence Cost	5.73	11.32	4.71	
34	Irrigation Ownership Cost				
35	Land Ownership Cost		٠.	ra e	
36	Land Oppor. Ownership Cost				
37	Land Cost	39.46	40.04	28.83	
38	Utilities & Gen. Farm Expense	8.16	10.88	5.78	
39 41	Hired Labor Actual Non R.E.Int. Allocated	4.86	3.30	2.01	
42	Total Allocated Costs	$\frac{10.63}{115.52}$	$\tfrac{15.61}{150.88}$	$\frac{9.45}{88.95}$	
12	Total Milocatea Costs	113.32		00.55	
43	Total Listed Costs	178.21	$\overline{219.26}$	143.86	
44	Return Over Listed Costs	-0.42	41.82	-38.22	
N.					
	PLEMENTARY MANAGEMENT INFORMATION	176 07	100 50	117 47	
51 52	Total Cost Adj to a Min 7% Int. Work Units Assigned/Acre	176.27 0.55	180.59	117.47	
53	Power Cost Allocation Factor	0.99	$0.55 \\ 1.00$	0.55 0.99	
54	Total Listed Cost/Unit of Prod.	2.96	2.21	6.54	
55	Total Adjusted Cost/Unit of Prod.	2.92	1.82	5.35	
56	Cash Variable Cost/Unit of Prod.	1.92	1.37	4.34	
57	Return Over Listed Costs Per Unit	-0.01	0.42	-1.74	
58	Breakeven Yield/Unit of Prod.	74.6	91.0	62.8	

TAB	LE 10 - CROP DATA FOR POTATOES, SEE	D, OWNED & RENTED, 1988
		Average of 26 Farms
Ite	me	Per Acre
Tre	1(to	
3	Acres	37.9
4		101.6
5	,	9.82
6	Crop Product Return	997.64
7	Other Crop Income	113.65
8	Total Crop Return	1111.29
	IABLE COSTS	20.42
10	•	30.42
	Chemicals	23.94
12		71.43
13		1.75
14		35.03
15		28.52
16	-	3.69
17 18		3.09
19		
20		194.78
21	Return Over Variable Costs	916.51
ALL 31 32 33 34 35	Building & Fence Cost Irrigation Ownership Cost	
36		
	Land Cost	40.88
	Utilities & Gen. Farm Expense	40.27
39		20.59
	Actual Non R.E.Int. Allocated	<u>37.39</u>
42	Total Allocated Costs	308.07
		-500 05
43	Total Listed Costs	502.85
44	Return Over Listed Costs	608.44
SUP 51 52 53 54 55 56 57	Power Cost Allocation Factor Total Listed Cost/Unit of Prod. Total Adjusted Cost/Unit of Prod. Cash Variable Cost/Unit of Prod.	488.68 3.00 1.00 4.95 4.81 1.92 5.99
58	Breakeven Yield/Unit of Prod.	51.2

TABLE 10 - CROP DATA FOR SOYBEANS, OWNED LAND, 1988				
ma.		Average of	20 High	20 Low
		100 Farms	Farms	Farms
<u>Ite</u>	ms	Per Acre	Per Acre	<u>Per Acre</u>
3	Acres	79.2	90.0	87.5
4	Yield	20.9	33.5	6.8
5	Value per Unit	7.33	7.33	7.03
6	Crop Product Return	153.41	245.40	47.83
7	Other Crop Income	19.09	0.80	60.53
8	Total Crop Return	$\frac{13.05}{172.50}$	$\frac{0.30}{246.20}$	$\frac{00.33}{108.20}$
	IABLE COSTS	^ - 4		
10	Fertilizer	8.51	9.27	7.45
11	Chemicals	15.58	13.08	15.84
12	Seed	10.93	11.27	12.75
13	Crop Drying	0.03	4 50	4 00
14	Crop Insurance	3.57	4.78	4.90
15	Other Expenses	3.23	6.79	0.78
16	Special Hired Labor	0.73	2.10	0.08
17	Custom Work Hired	1.62	1.54	0.22
18	Irrigation Operation		•	
19	Assigned Interest	. 44 00		40.00
20	Total Variable Costs	44.20	48.82	42.02
21	Return Over Variable Costs	128.30	197.38	66.34
ALL(OCATED COSTS (VARIABLE & FIXED)	2		
31	Farm Power & Machinery - Ownership	18.81	18.73	10.89
32	Farm Power & Machinery - Operation		24.07	17.51
33	Building & Fence Cost	4.86	6.03	3.55
34	Irrigation Ownership Cost		No. 4 P	
35	Land Ownership Cost			
36	Land Oppor.Ownership Cost			
37	Land Cost	44.53	45.77	46.73
38	Utilities & Gen. Farm Expense	8.35	8.60	8.75
39	Hired Labor	5.35	4.31	4.56
41	Actual Non R.E.Int. Allocated	8.79	<u>12.19</u>	<u>4.58</u>
42	Total Allocated Costs	112.75	119.70	96.57
43	Total Listed Costs	156.95	168.52	138.59
44	Return Over Listed Costs	15.55	77.68	-30.23
'X X	Recall over bibeed cobeb	10.00	77.00	30.23
	PLEMENTARY MANAGEMENT INFORMATION			
51	Total Cost Adj to a Min 7% Int.	154.43	161.33	138.65
52	Work Units Assigned/Acre	0.45	0.45	0.45
53	Power Cost Allocation Factor	0.97	0.97	0.90
54	Total Listed Cost/Unit of Prod.	7.51	5.03	20.38
55	Total Adjusted Cost/Unit of Prod.	7.38	4.82	20.39
56	Cash Variable Cost/Unit of Prod.	4.25	2.93	11.39
57	Return Over Listed Costs Per Unit	0.74	2.32	-4.45
58	Breakeven Yield/Unit of Prod.	21.4	23.0	19.7

TABLE 10 - CROP DATA FOR SOYBEANS, RENTED LAND, 1988				
Characteristics		Average of	31 High	31 Low
T.L.		156 Farms	Farms <u>Per Acre</u>	Farms Per Acre
<u>Ite</u>	INS	Per Acre	rer Acre	Per Acre
3	Acres	76.5	73.1	79.3
4	Yield	18.4	31.6	7.2
5	Value per Unit	7.30	7.29	8.27
6	Crop Product Return	134.44	230.71	59.26
7	Other Crop Income	<u>28.03</u>	2.52	$\frac{71.12}{133.33}$
8	Total Crop Return	162.47	233.23	130.38
רותזו	IABLE COSTS			
10	Fertilizer	5.82	6.09	3.13
11	Chemicals	15.29	12.97	16.24
$\overline{12}$	Seed	11.57	11.34	11.88
13	Crop Drying	0.17		0.01
14	Crop Insurance	3.54	1.74	3.58
15	Other Expenses	2.33	3.60	2.50
16	Special Hired Labor	0.29	1.92	0.06
17	Custom Work Hired	2.09	0.78	0.33
18 19	Irrigation Operation Assigned Interest			
20	Total Variable Costs	41.10	38.43	37.73
21	Return Over Variable Costs	121.37	194.80	92.65
31 32 33 34	OCATED COSTS (VARIABLE & FIXED) Farm Power & Mach Ownership Farm Power & Mach Operation Building & Fence Cost Irrigation Ownership Cost	12.69 21.76 2.30	19.64 27.46 3.39	12.75 19.32 2.17
35 36 37 38 39 41 42	Land Ownership Cost Land Oppor.Ownership Cost Land Cost Utilities & Gen. Farm Expense Hired Labor Actual Non R.E.Int. Allocated Total Allocated Costs	44.66 5.74 3.14 9.06 99.35	$47.10 \\ 5.81 \\ 2.67 \\ \underline{12.24} \\ 118.31$	35.32 6.19 4.46 10.98 91.19
43 44	Total Listed Costs Return Over Listed Costs	140.45 22.02	156.74 76.49	$ \begin{array}{r} 128.92\\ 1.46 \end{array} $
SUP 51 52 53 54 55 56 57 58	PLEMENTARY MANAGEMENT INFORMATION Total Cost Adj to a Min 7% Int. Work Units Assigned/Acre Power Cost Allocation Factor Total Listed Cost/Unit of Prod. Total Adjusted Cost/Unit of Prod. Cash Variable Cost/Unit of Prod. Return Over Listed Costs Per Unit Breakeven Yield/Unit of Prod.	4.39	108.25 0.45 1.00 4.96 3.42 2.74 2.42 21.5	105.17 0.45 0.89 17.91 14.68 10.93 0.20 15.6

TAB	LE 10 - CROP DATA FOR SUGAR BEETS,	OWNED LAND,	1988	
		Average of	10 High	10 Low
		31 Farms	Farms	Farms
Ite	ms	Per Acre	Per Acre	Per Acre
2	•			
3	Acres	125.8	118.4	72.8
4	Yield*	37.2	45.3	26.7
5	Value per Unit	14.79	14.99	14.65
6	Crop Product Return	550.57	678.51	390.81
7	Other Crop Income	<u>29.75</u>	33.45	<u>53.65</u>
8	Total Crop Return	580.32	711.96	444.46
17 A D	IABLE COSTS			
10	Fertilizer	18.43	18.81	23.28
11	Chemicals	50.63	38.74	39.24
12	Seed	31.32	28.47	32.66
13	Crop Drying	31.32	20.47	32.00
$\frac{13}{14}$	Crop Insurance	9.38	9.34	2.06
15	Other Expenses	26.19	28.61	23.43
16	Special Hired Labor	34.68	25.63	29.77
17	Custom Work Hired	16.68	27.09	13.90
18	Irrigation Operation	10.00	27.03	13.70
19	Assigned Interest	2.35	3.43	5.41
20	Total Variable Costs	189.67	180.12	169.76
21	Return Over Variable Costs	390.65	531.84	$\frac{274.70}{274.70}$
ALL	OCATED COSTS (VARIABLE & FIXED)			
31	Farm Power & Machinery - Ownership		54.16	55.47
32	Farm Power & Machinery - Operation	78.20	73.44	86.48
33	Building & Fence Cost	12.12	10.63	4.86
34	Irrigation Ownership Cost			
35	Land Ownership Cost			
36	Land Oppor.Ownership Cost			
37	Land Cost	62.69	56.68	49.38
38	Utilities & Gen. Farm Expense	26.72	24.87	18.63
39	Hired Labor	27.38	19.81	26.66
41	Actual Non R.E.Int. Allocated	29.79	<u>26.20</u>	<u>37.17</u>
42	Total Allocated Costs	284.85	265.79	278.65
43	Total Listed Costs	474.52	445.91	448.41
44	Return Over Listed Costs	105.80		
33	Reculi Over Bisted Costs	103.60	266.05	-3.95
SUPE	PLEMENTARY MANAGEMENT INFORMATION			
51	Total Cost Adj to a Min 7% Int.	462.44	443.77	427.51
52	Work Units Assigned/Acre	2.00	2.00	2.00
53	Power Cost Allocation Factor	0.84	0.84	0.85
54	Total Listed Cost/Unit of Prod.	12.76	9.84	16.79
55	Total Adjusted Cost/Unit of Prod.	12.43	9.80	16.03
56	Cash Variable Cost/Unit of Prod.	9.46	7.16	12.69
57	Return Over Listed Costs Per Unit	2.84	5.87	-0.15
58	Breakeven Yield/Unit of Prod.	32.1	29.7	30.6

^{*} Yield of sugar beets is expressed in CWT. of extractable sugar.

TAB	LE 10 - CROP DATA FOR SUGAR BEETS,	RENTED LAN		
-		Average of	14 High	14 Low
		72 Farms	Farms	Farms
<u>Ite</u>	ms	Per Acre	Per Acre	<u>Per Acre</u>
_				0.5
3	Acres	111.1	66.3	97.4
4	Yield*	34.0	49.3	21.0
5	Value per Unit	14.80	14.95	14.74
6	Crop Product Return	503.49	737.68	309.71
7	Other Crop Income	<u>39.12</u>	<u>9.43</u>	64.16
8	Total Crop Return	542.61	747.11	373.87
7777	TABLE COCMC			
	IABLE COSTS	20 10	21.76	24.92
10	Fertilizer	20.10		
11	Chemicals	41.93	42.20	51.51
12	Seed	30.65	31.00	28.95
13	Crop Drying	- 04	1 70	2 00
14	Crop Insurance	6.21	1.70	3.28
15	Other Expenses	37.10	56.70	26.58
16	Special Hired Labor	37.55	42.04	33.82
17	Custom Work Hired	12.39	11.03	8.28
18	Irrigation Operation			
19	Assigned Interest	4.45	$\tfrac{4.59}{211.01}$	1.74
20	Total Variable Costs	190.38		179.07
21	Return Over Variable Costs	352.23	536.10	194.80
лтт	OCAMED COCMC (VARIABLE C EIVED)			
	OCATED COSTS (VARIABLE & FIXED)	39.18	44.65	38.09
31	Farm Power & Machinery - Ownership		60.35	71.57
32	Farm Power & Machinery - Operation	7.09	3.85	7.87
33	Building & Fence Cost	7.09	3.03	7.07
34	Irrigation Ownership Cost			
35	Land Ownership Cost			
36	Land Oppor.Ownership Cost	C7 75	47 20	EO C4
37	Land Cost	57.75	47.29	50.64
38	Utilities & Gen. Farm Expense	24.19	14.90	.26.76
39	Hired Labor	20.24	4.34	22.95
41	Actual Non R.E.Int. Allocated	24.88	21.99	42.92
42	Total Allocated Costs	240.85	<u>197.37</u>	<u> 260.80</u>
43	Total Listed Costs	431.23	408.38	439.87
44	Return Over Listed Costs	111.38	338.73	-66.00
44	Recuin Over Listed Costs	111.30	330.73	-00.00
SUP	PLEMENTARY MANAGEMENT INFORMATION			
51	Total Cost Adj to a Min 7% Int.	421.17	380.74	366.61
52	Work Units Assigned/Acre	2.00	2.00	2.00
53	Power Cost Allocation Factor	0.85	0.81	0.80
54	Total Listed Cost/Unit of Prod.	12.68	8.28	20.95
55	Total Adjusted Cost/Unit of Prod.	12.38	7.72	17.44
56	Cash Variable Cost/Unit of Prod.	9.62	6.34	16.35
57	Return Over Listed Costs Per Unit	3.28	6.87	-3.14
57 58	Breakeven Yield/Unit of Prod.	29.1	27.3	29.8
Эğ	preakesen trend, outr of brod.	43.1	21.3	49.0

TAE	BLE 10 - CROP DATA FOR SUNFLOWERS -	OIL, 1988	The state of the s
•		<u>Owned</u> Land	<u>Rented Land</u>
		Average of	Average of
		20 Farms	24 Farms
<u>Ite</u>	ems	Per Acre	Per Acre
_			
3	Acres	85.5	82.0
4	Yield	10.6	7.44数 12.3
5	Value per Unit	10.63	10.60
6	Crop Product Return	112.71	130.38
7	Other Crop Income	<u> 13.56</u>	12.34
8	Total Crop Return	126.27	142.72
* 7 % * Y	TARLE GOGEG		Market and the second of the second
	IABLE COSTS	10 85	
10	Fertilizer	10.75	15.02
11	Chemicals	6.61	5.98
12	Seed	13.49	11.85
13	Crop Drying	0.22	0.13
14	Crop Insurance	1.66	0.83
15	Other Expenses	0.99	1.15
16	Special Hired Labor	0.11	
17	Custom Work Hired	0.98	0.32
	Irrigation Operation		•
19	Assigned Interest		NAME AND ADDRESS A
20	Total Variable Costs	34.81	35.28
21	Return Over Variable Costs	91.46	107.44
אדד	OCAMED COCMC (MADIADIE 6 ETVEN)		
	OCATED COSTS (VARIABLE & FIXED)	1 F CO	12 20
31 32	Farm Power & Machinery-Ownership	15.60	13.30
33	Farm Power & Machinery-Operation	21.03	18.89
34	Building & Fence Cost	3.73	2.32
35	Irrigation Ownership Cost		
36	Land Ownership Cost		
37	Land Oppor.Ownership Cost	26 50	25 50
	Land Cost	26.58	35.58
38	Utilities & Gen. Farm Expense	12.12	7.46
39	Hired Labor	5.93	2.18
41 42	Actual Non R.E.Int. Allocated	<u>6.56</u> 91.55	3.90
42	Total Allocated Costs	91.55	83.63
43	Total Listed Costs	126.36	118.91
44	Return Over Listed Costs	-0.09	23.81
			23.01
SUP	PLEMENTARY MANAGEMENT INFORMATION		
51	Total Cost Adj to a Min 7% Int.	127.29	122.20
52	Work Units Assigned/Acre	0.40	0.40
53	Power Cost Allocation Factor	1.00	1.00
54	Total Listed Cost/Unit of Prod.	11.92	9.67
55	Total Adjusted Cost/Unit of Prod.	12.01	9.93
56	Cash Variable Cost/Unit of Prod.	7.58	5.51
57	Return Over Listed Costs Per Unit	-0.01	0.73
58	Breakeven Yield/Unit of Prod.	11.9	11.2
		· -	The same of the sa

TABLE 10 - CROP DATA FOR ALFALFA HAY, OWNED LAND, 1988				
<u></u>		Average of	27 High	27 Low
		136 Farms	Farms	Farms
<u>Iter</u>	NS CONTRACTOR OF THE PROPERTY	<u>Per Acre</u>	Per Acre	Per Acre
2	Agrang	75.5	60.4	83.4
3 4	Acres	1.6	3.0	0.6
4 5	Value per Unit	61.14	60.58	57.63
6	Crop Product Return	96.37	183.56	33.86
7	Other Crop Income	30.93	6.90	48.25
8	Total Crop Return	127.30	190.46	82.11
O	Total Crop Recari	127.50	250110	72 7 2 2 2
WAD.	IABLE COSTS			
10	Fertilizer	10.60	9.98	7.04
11	Chemicals	0.24	0.58	, , ,
12	Seed	2.78	3.20	0.91
13	Crop Drying		0.20	• • • •
14	Crop Insurance	0.04	0.23	
15	Other Expenses	1.31	0.78	1.29
16	Special Hired Labor	0.41	0.15	
17	Custom Work Hired	1.03	0.96	1.37
18	Irrigation Operation			
19	Assigned Interest	0.07		
20	Total Variable Costs	16.48	15.88	10.61
$\overline{21}$	Return Over Variable Costs	110.82	174.58	71.50
	OCATED COSTS (VARIABLE & FIXED)			
31	Farm Power & Machinery - Ownership	17.60	24.85	15.49
32	Farm Power & Machinery - Operation		31.16	20.64
33	Building & Fence Cost	5.59	8.23	5.30
34	Irrigation Ownership Cost			
35	Land Ownership Cost			
36	Land Oppor.Ownership Cost	* :		
37	Land Cost	30.28	29.87	24.22
38	Utilities & Gen. Farm Expense	7.23	7.78	6.52
39	Hired Labor	3.89	4.78	3.96
41	Actual Non R.E.Int. Allocated	<u>8.52</u>	<u> 10.91</u>	9.11
42	Total Allocated Costs	98.37	117.58	85.24
		and the second s	***************************************	
43	Total Listed Costs	114.85	133.46	95.85
44	Return Over Listed Costs	12.45	57.00	-13.74
		:		
	PLEMENTARY MANAGEMENT INFORMATION			
51	Total Cost Adj to a Min 7% Int.	113.76	133.13	95.08
52	Work Units Assigned/Acre	0.60	0.60	0.60
53	Power Cost Allocation Factor	0.68	0.67	0.67
54	Total Listed Cost/Unit of Prod.	71.78	44.49	159.75
55	Total Adjusted Cost/Unit of Prod.		43.94	161.84
56	Cash Variable Cost/Unit of Prod.		23.50	84.73
57	Return Over Listed Costs Per Unit	7.78	19.00	-22.90
58	Breakeven Yield/Unit of Prod.	1.9	2.2	1.7

TAB	LE 10 - CROP DATA FOR CORN SILAGE,	OWNED LAND,	1988	7777777 11 11 11 11 11 11 11 11 11 11 11
D		Average of	14 High	14 Low
		70 Farms	Farms	Farms
Ite	ms	Per Acre	Per Acre	Per Acre
_				
3	Acres	33.9	27.1	37.6
4	Yield	7.9	12.7	3.6
5	Value per Unit	16.02	15.49	15.85
6	Crop Product Return	126.17	196.57	57.74
7 8	Other Crop Income	<u>27.26</u>	<u>21.33</u>	<u> 29.55</u>
ீ 8	Total Crop Return	153.43	217.90	82.29
	TABLE GOODS			
	IABLE COSTS	17 14	10 10	11 00
10	Fertilizer	17.14	19.19	11.09
11	Chemicals	6.55	5.06	5.56
12	Seed	12.48	12.66	12.63
13	Crop Drying	0.80	4.28	
14	Crop Insurance	0.09		0 77
15	Other Expenses	0.91	0.37	0.77
16	Special Hired Labor	0.03		
17	Custom Work Hired	1.68	2.69	1.86
18	Irrigation Operation			
19	Assigned Interest			
20	Total Variable Costs	39.68	44.24	31.91
21	Return Over Variable Costs	113.75	173.66	55.38
ΔT.T.(OCATED COSTS (VARIABLE & FIXED)			
31	Farm Power & Machinery - Ownership	23.66	35.50	15.40
32	Farm Power & Machinery - Operation		43.51	37.50
33	Building & Fence Cost	5.84	5.06	5.77
34	Irrigation Ownership Cost	3.01	3.00	5 v · ·
35	Land Ownership Cost			
36	Land Oppor. Ownership Cost			
37	Land Cost	29.96	30.57	30.25
38	Utilities & Gen. Farm Expense	7.20	6.72	6.65
39	Hired Labor	5.07	5.79	2.45
41	Actual Non R.E.Int. Allocated	8.44	11.59	7.66
42	Total Allocated Costs	$\frac{0.11}{118.78}$	$\frac{11.33}{138.74}$	105.68
	10041 1111004004 00000	2201.0	1001.	
43	Total Listed Costs	158.46	182.98	137.59
44	Return Over Listed Costs	-5.03	34.92	-50.30
SUP	PLEMENTARY MANAGEMENT INFORMATION			
51	Total Cost Adj to a Min 7% Int.	158.23	180.22	139.18
52	Work Units Assigned/Acre	0.60	0.60	0.60
53	Power Cost Allocation Factor	0.98	0.99	1.00
54	Total Listed Cost/Unit of Prod.	20.06	14.41	38.22
55	Total Adjusted Cost/Unit of Prod.	20.09	14.20	38.20
56	Cash Variable Cost/Unit of Prod.	12.53	8.81	23.94
57	Return Over Listed Costs Per Unit	-0.64	2.75	-13.97
58	Breakeven Yield/Unit of Prod.	9.9	11.8	8.7

TAB	LE 10 - CROP DATA FOR MEDIUM RED CI		
		<u>Owned Land</u>	<u>Rented Land</u>
		Average of	Average of
		8 Farms	8 Farms
<u>Ite</u>	ms	Per Acre	Per Acre
2	hamaa	55.4	33.9
3	Acres	214.5	178.1
4	Yield		
5	Value per Unit	0.73	0.67
6	Crop Product Return	155.74	119.56
7	Other Crop Income	$\frac{9.37}{1.65.31}$	$\frac{10.86}{130.42}$
8	Total Crop Return	165.11	130.42
VAR	IABLE COSTS		,
10	Fertilizer	1.95	
	Chemicals	6.66	3.33
12	Seed	4.91	6.55
	Crop Drying		3.00
14	Crop Insurance		
15	Other Expenses	0.36	1.06
16	Special Hired Labor	0.50	2.00
17	Custom Work Hired	1.50	2.68
18	Irrigation Operation	x + 5 0	2.00
19	Assigned Interest	1 m	
20	Total Variable Costs	15.38	13.63
21	Return Over Variable Costs	149.73	116.79
2. 1.	Reculi Over vulluble costs	1.1.2.7.5	1101,73
ALL	OCATED COSTS (VARIABLE & FIXED)	. •	÷**
31	Farm Power & Machinery-Ownership	15.38	15.04
32	Farm Power & Machinery-Operation	25.67	27.79
33	Building & Fence Cost	3.18	3.10
34	Irrigation Ownership Cost	3.7 3.	
35	Land Ownership Cost		
36	Land Oppor.Ownership Cost	•	
37	Land Cost	26.67	22.75
38	Utilities & Gen. Farm Expense	10.02	9.65
39	Hired Labor	7.38	2.80
41	Actual Non R.E.Int. Allocated	5.34	12.36
42	Total Allocated Costs	93.64	93.49
	- Interest of the second secon	30.01	30113
43	Total Listed Costs	109.02	107.12
44	Return Over Listed Costs	56.09	23.30
SUP	PLEMENTARY MANAGEMENT INFORMATION		
51	Total Cost Adj to a Min 7% Int.	109.42	102.36
52	Work Units Assigned/Acre	0.50	0.50
53	Power Cost Allocation Factor	0.81	0.81
54	Total Listed Cost/Unit of Prod.	0.51	0.60
55	Total Adjusted Cost/Unit of Prod.	0.51	0.57
56	Cash Variable Cost/Unit of Prod.	0.30	0.37
57	Return Over Listed Costs Per Unit	0.26	0.13
58	Breakeven Yield/Unit of Prod.	149.3	159.9

TAB	LE 10 - CROP DATA FOR GRASS SEED, C		
		<u>Bluegrass</u>	${ t Timothy}$
		Average of	Average of
		6 Farms	16 Farms
<u>Ite</u>	ms	Per Acre	Per Acre
3	Acres	188.6	81.0
4	Yield	75.3	165.1
5	Value per Unit	1.06	0.62
6	Crop Product Return	79.64	101.75
7	Other Crop Income	24.68	20.88
8	Total Crop Return	$\frac{104.32}{}$	122.63
•			
VAR	IABLE COSTS		
10	Fertilizer	31.74	22.19
11	Chemicals	8.17	5.02
12	Seed	1.13	1.05
13	Crop Drying		
14	Crop Insurance		
15	Other Expenses	1.30	0.65
16	Special Hired Labor		
17	Custom Work Hired	1.04	2.05
18	Irrigation Operation		**
19	Assigned Interest		· 's
20	Total Variable Costs	43.38	30.96
21	Return Over Variable Costs	60.94	91.67
	OCATED COSTS (VARIABLE & FIXED)	C 47	C 35
31	Farm Power & Machinery-Ownership	6.47	6.35
32	Farm Power & Machinery-Operation	13.05	12.95
33	Building & Fence Cost	1.50	1.93
34	Irrigation Ownership Cost		
35	Land Ownership Cost		
36	Land Oppor.Ownership Cost	71 40	25 24
37	Land Cost	21.40	25.34
38	Utilities & Gen. Farm Expense	7.28	5.10
39	Hired Labor	9.28	4.36
41	Actual Non R.E.Int. Allocated	$\frac{2.33}{61.31}$	$\frac{5.33}{61.36}$
42	Total Allocated Costs	01.31	01.30
43	Total Listed Costs	104.69	92.32
44	Return Over Listed Costs	-0.37	30.31
		- · ·	
SUP	PLEMENTARY MANAGEMENT INFORMATION		
51	Total Cost Adj to a Min 7% Int.	107.26	90.33
52	Work Units Assigned/Acre	0.40	0.30
53	Power Cost Allocation Factor	0.52	0.61
54	Total Listed Cost/Unit of Prod.	1.39	0.56
55	Total Adjusted Cost/Unit of Prod.	1.43	0.55
56	Cash Variable Cost/Unit of Prod.	1.00	0.36
57	Return Over Listed Costs Per Unit		0.18
58	Breakeven Yield/Unit of Prod.	98.8	148.9

TAB	LE 10 - CROP DATA FOR SUMMER FALLO	V, OWNED & RENTED	, 1988
—		Owned Land	<u>Rented Land</u>
		Average of	Average of
		50 Farms	53 Farms
<u>Ite</u>	ms	Per Acre	Per Acre
3	Acres	100.3	107.1
4	Yield	100.5	0.2
5	Value per Unit		4.00
6	Crop Product Return		0.63
7	Other Crop Income	0.15	0.18
8	Total Crop Return	$\begin{array}{r} \underline{0.15} \\ 0.15 \end{array}$	0.81
_			
VAR	IABLE COSTS		
10	Fertilizer	0.21	0.03
	Chemicals	0.20	0.26
12	Seed	1.15	1.09
13	Crop Drying	0.00	
14	Crop Insurance	0.08	0.05
15	Other Expenses		0.05
16	Special Hired Labor	0.00	1.94
17	Custom Work Hired	0.88	1.94
18 19	Irrigation Operation Assigned Interest	* *	•
20	Total Variable Costs	2.51	3.37
21	Return Over Variable Costs	-2.36	-2.56
A	Moduli ovol vallablo oobob		
ALL	OCATED COSTS (VARIABLE & FIXED)		
31	Farm Power & Machinery - Ownership	9.03	5.91
32	Farm Power & Machinery - Operation	11.69	10.65
33	Building & Fence Cost	1.72	0.87
34	Irrigation Ownership Cost		
35	Land Ownership Cost		
36	Land Oppor Ownership Cost	m	A #
37	Land Cost	57.68	45.66
38	Utilities & Gen. Farm Expense	1.88	1.80
39	Hired Labor	1.51	1.59
41 42	Actual Non R.E.Int. Allocated Total Allocated Costs	$\frac{2.22}{85.73}$	$\frac{2.71}{69.19}$
4 2	Total Allocated Costs	03.73	09.19
43	Total Listed Costs	88.24	72.56
44	Return Over Listed Costs	-88.09	-71.75
SUP	PLEMENTARY MANAGEMENT INFORMATION		110
51	Total Cost Adj to a Min 7% Int.	88.19	72.32
52	Work Units Assigned/Acre	0.20	0.20
53	Power Cost Allocation Factor	1.12	1.05
54	Total Listed Cost/Unit of Prod.		
55	Total Adjusted Cost/Unit of Prod.		
56	Cash Variable Cost/Unit of Prod.		
57	Return Over Listed Costs Per Unit		
58	Breakeven Yield/Unit of Prod.		

COSTS AND RETURNS FROM LIVESTOCK ENTERPRISES

Productive livestock enterprises are an important part of many farm businesses in Minnesota. Farms involved in this report may have one or more livestock enterprises. The following tables pertain to these livestock enterprises.

In determining the total return for livestock enterprises, 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.

Since feed is the largest single item of cost for all classes of livestock, return over feed costs has been used to classify farm livestock enterprises into high, low and average groups.

Other cash costs relatively easy to identify and classify in the farm records are listed in each of the tables as other direct costs.

Allocated costs include interest charges to the enterprise, allocated charges for hired labor, utilities, power and machinery, livestock equipment and building and fence costs. These costs are allocated to each livestock enterprise by the computer using a carefully devised formula to make the proper allocations.

All livestock costs and returns are computed on an annual basis.

Accurate inventory weights and values thus become very important in the calculation of net increase in value. This is especially true for feeder livestock enterprises.

Each enterprise table includes supplementary management information. This information can provide clues indicating the strengths and weaknesses of each enterprise.

TABLE 11B - HOGS, FINISHING, 1988

TABLE TID - HOGD, PINIGHING, 1700	Average of	5 Farms
Items	Per CWT.	Per Head
1 Production - Pounds 25081 2 Net Increase In Value: Hogs 3 Other Miscellaneous Income	34.68	135.6 47.01
4 Total Value Produced FEED FED: QUANTITY & COST LBS/CWT	34.68	47.01
6 Corn 199.2 7 Other Grain 11.5 8 Complete Ration 103.8 9 Prot., Salt, Min. 182.5 10 Total Grain Mix 497.0	7.46 0.35 15.06 16.66 39.53	$ \begin{array}{r} 10.12 \\ 0.47 \\ 20.42 \\ \underline{22.59} \\ 53.60 \end{array} $
13 Total Feed Cost 14 Return Over Feed Costs OTHER DIRECT COSTS	39.53 -4.85	53.60 -6.59
16 Veterinary17 Miscellaneous21 Total Other Direct Costs	$\begin{array}{r} 0.28 \\ \underline{0.10} \\ 0.38 \end{array}$	$\begin{array}{r} 0.38 \\ \underline{0.14} \\ 0.52 \end{array}$
Total Direct Costs Incl Feed Return Over All Direct Costs	39.91 -5.23	54.12 -7.11
ALLOCATED COSTS 26 Act Int Pd Less Int Assigned-L20 27 General Hired Labor 28 Utilities & Miscellaneous 29 Power & Machinery PCAF 1.00 30 Livestock Equipment ECAF 1.00 31 Buildings & Fences BCAF 1.00 32 Total Allocated Costs	$ \begin{array}{r} 1.25 \\ 0.79 \\ 0.72 \\ 0.64 \\ 0.83 \\ \hline 0.39 \\ \hline 4.62 \end{array} $	$ \begin{array}{r} 1.70 \\ 1.07 \\ 0.97 \\ 0.87 \\ 1.12 \\ 0.53 \\ \hline 6.26 \end{array} $
Total Actual Listed Costs Return Over Actual Listed Costs	44.53	60.38 -13.37
TotalCosts Adj to 7% Min Int Return Over Listed & 7% Opportuni		62.19
Interest Cost **************SUPPLEMENTARY MANAGEMENT IN Return/\$100 Feed Fed Ave Wt./Mkt. Hog Sold Price Rec'd/CWT. Mkt. Hogs Ave. Weight/Pig Purchased No. Pigs Purchased Pounds of Pork Purchased Percent Death Loss Fifective Daily Gain Price/CWT. Grain Mix Fed Price/CWT. Prot., Salt, Min Number of Pigs Produced	-11.19 FORMATION**** 87.7 205.3 46.6 40.9 39.0 12 516 1.0 0.6 7.2 9.1	2 9 6 7 5 6 2 2 7 7 3

TABLE 11C - HOGS, WEANING PIG PRODUCTION

			of 9 Farms
Item		Per Pig	Per Litter
1 Droduction 02 Littors	20159 The	The second se	rasesum vainum tualinia (m. 1907). 1903 augustus
	36152 Lbs.	3 77 77 77	252 40
		37.77	253.40
3 Other Miscellaneous Inc	come		
4 Total Value Produced		37.77	253.40
FEED FED: QUANTITY & COST	LBS/CWT	4.54	
6 Corn	55.89	1.17	7.88
7 Other Grain	110.70	2.44	16.35
8 Complete Ration	302.86	14.19	95.20
9 Prot., Salt, Min	<u>94.97</u>	<u>7.61</u>	<u>51.03</u>
10 Total Grain Mix	564.42	25.41	170.46
11 Forages	13.89	<u>0.15</u>	0.99
13 Total Feed Cost	. *	25.56	171.45
14 Return Over Feed Cost	s	12.21	81.95
OTHER DIRECT COSTS			
16 Veterinary		1.29	8.69
17 Breeding			
18 Miscellaneous		1.56	10.49
19 Custom Work & Lease		0.35	2.32
22 Total Other Direct Co	ata	3.20	$\frac{21.50}{21.50}$
23 Total Direct Costs		28.76	192.95
24 Return Over All Dir		9.01	60.45
ALLOCATED COSTS	ect costs	7. U.L	00.43
	anad TOI	11 15	76.87
	gneu-Lzi	11.46	
		0.85	5.73
29 Utilities & Miscellaneo		4.62	30.99
	AF 1.00	1.96	13.14
	AF 1.00	1.02	6.83
	AF 1.00	1.29	8.67
33 Total Allocated Costs		21.20	142.23
34 Total Actual Listed	Costs	49.96	335.18
35 Return Over Actual		-12.19	-81.78
35 Recuir Over Accuar	Disted Costs	-12.19	-01.70
36 Total Costs Adj to	7% Min Int.	40.95	274.74
Return Over Listed			
38 Interest Cost	a oppolouil	-3.18	-21.34
**********SUPPLEMENTARY	MANAGEMENT IN		
40 Return /\$100 Feed Fed	111111011111111111111111111111111111111		.79
41 Ave Wt./Pig Sold or Tran	nsfer	447	48
42 Price Rec'd/Pig Sold	HOTCI	41	.20
43 Litters/Sow/Year			3-41.6
44 No. Pigs Born/Litter			9
45 No. Pigs Wean/Litter			
45 No. Pigs Weam/Litter 46 Pigs Produced/Sow/Year			7.6
			3.1
47 Litters/Crate/Year			5.2
48 Pigs Weaned/Crate/Year	m. i . 1 r		9.11
49 FDR Pig Deaths: AS % of			98.2
50 Breeding Deaths: As % o:			1.8
51 Price/CWT. Grain Mix Fed			7.77
52 Price/CWT. Prot., Salt,	Min.	1	3.82

TABLE 12 - DAIRY COWS, COMMERCIAL, 1988

1710	BE IZ - DAIRT COWS, COMMERCIAL, 13	7,,,,,,,,,,	10 tilab	10 Torr
•		Average of	19 High	19 Low
+ 4		97 Farms	Farms	Farms
<u>Ite</u>		Per Cow	Per Cow	Per Cow
1	Average Number of Cows	46.8	56.0	42.6
2	Pounds of Milk	15629	18212	12320
3	Pounds of Butterfat	563	656	429
4	Percent of Butterfat in Milk	3.61	3.60	3.48
5	Value of Produce			
6	Dairy Products Sold	1764.19	2059.71	1339.08
7	Dairy Products Used in Home	6.75	8.68	4.81
8	Milk Fed to Livestock	17.63	25.82	12.49
9	Net Increase in Value	-81.90	-81.93	-70.31
10	Other Miscellaneous Income			
11	Total Value Produced	1706.67	2012.28	1286.07
12	Feed Fed: Qty. & Cost Lbs/Cow			
13	Corn 3081	120.04	134.00	53.94
14	Small Grain 794	37.91	23.95	60.33
15 15	Complete Ration 1067	81.47	71.71	125.77
16	Prot., Salt, Min. <u>1562</u>	168.89	161.55	184.39
17	Total Grain Mix 6504	$\frac{100.05}{408.31}$	$\frac{101.33}{391.21}$	$\frac{101.35}{424.43}$
18	Legume Hay 7659	209.64	215.79	207.58
19	Other Dry Hay & Roughage 384	9.06	1.61	19.65
				21.20
20	Haylage 1594	22.35	25.93	
21	Silage 7160	41.54	41.52	37.79
22	Pasture	1.86	1.18	2.23
23	Total Feed Costs	692.76	677.24	712.88
24	Return Over Feed Cost	1013.91	1335.04	573.19
	ER DIRECT COSTS	22432		
26	Veterinary	39.38	55.07	17.58
27	Breeding	22.52	36.84	7.54
28	Miscellaneous	110.43	140.11	88.97
29	Custom Work & Lease Expense	78.01	77.93	65.31
30	Special Hired Labor	0.24		
31	Assigned Interest			
32	Total Other Direct Costs	250.58	309.95	$\overline{179.40}$
33	Total Direct Costs Incl Feed	943.34	987.19	892.28
34	Return Over All Direct Costs	763.33	1025.09	393.79
ALL	OCATED COSTS			
37	Act Int Pd Less Int Assigned-L31	97.92	61.81	90.83
38	General Hired Labor	59.74	78.76	24.22
39	Utilities & Miscellaneous	95.77	121.42	84.13
40	Power & Machinery PCAF 1.00		87.78	
$\stackrel{\cdot}{4}\stackrel{\circ}{1}$	Livestock Equipment ECAF 1.00	57.89	75.15	
42	Buildings & Fences BCAF 1.00	63.38	71.95	
43	Total Allocated Costs	$\frac{03.30}{450.18}$	$\frac{77.95}{496.87}$	
-2)	iocal Allocated Costs	400°TO	430.07	227.10
44	Motal Natual Listed Costs	1202 52	1404 05	1949 20
	Total Actual Listed Costs			
45	Return Over Act.Listed Costs	313.15	528.22	42.69
4.0	mate danta and to 70 arts more	1206 55	1 = 2 2	1020 06
46	Tot. Costs Adj to 7% Min Int.	1396./5	1533.64	1238.06
47	Return Over Listed & 7% Oppor			
48	Interest Cost	309.92		
	****** SUPPLEMENTARY MANAGE			
50	Return/\$100 Feed Fed Pounds of Milk/Pound Grain Mix	246.36	297.13	180.40
51	Pounds of Milk/Pound Grain Mix	2.40	2.98	1.88
52	Average Price/CWT. Sold	11.45	11.50	
53	Dairy Cow Turnover Percentage	40.6	37.5	
54	Approximate Dry Matter Consumed/C		39	42
	-			

TABLE 13 - OTHER DAIRY/COMMERCIAL REPL., 1988

THE	SEE 13 - OTHER DAIRY/COMMERCIAL RE			40 -
		Average of	19 High	19 Low
	et all a service de la companya de	Farms	Farms	Farms
<u>Ite</u>		Per Head	Per Head	<u>Per Head</u>
1	Average Number of Head	59.6	56.7	64.0
2	Net Increase in Value	330.12	468.87	222.78
3	Other Miscellaneous Income		. •	
4	Total Value Produced	330.12	468.87	222.78
FEE	D FED: QTY & COST LBS/HEAD			,
6	Corn 467	18.26	20.35	16.84
7	Small Grain 197	9.82	5.10	11.31
8	Complete Ration 248	22.13	14.06	58.52
9	Prot., Salt, Min. 218	26.04	17.72	23.84
10	Total Grain Mix 1130	76.25	57.23	110.51
$\overline{11}$	Legume Hay 2870	75.20	64.20	86.73
12	Other Dry Hay & Rough. 203	4.66	0.19	14.31
13	Haylage 200	3.04	1.39	3.25
$\frac{13}{14}$	Silage 2932	23.10	19.33	27.84
15	Milk 123	13.81	8.91	12.64
16	Pasture	1.56	2.22	$\frac{1.22}{256.50}$
17	Total Feed Cost	197.62	153.47	256.50
18	Return Over Feed Cost	132.50	315.40	-33.72
~				
	ER DIRECT COSTS			
20	Veterinary	0.77	1.36	0.25
21	Breeding			
22	Miscellaneous	0.55	0.56	1.06
23	Custom Work & Lease Expense	0.17	·	0.80
24	Special Hired Labor			
25	Assigned Interest			
26	Total Other Direct Costs	1.49	1.92	2.11
27	Total Direct Costs Incl Feed	199.11	155.39	258.61
28	Return Over All Direct Costs		313.48	-35.83
			010110	33.03
AT.T.	OCATED COSTS		•	
30	Actual Interest Paid Less			
31	Interest Assigned-L25	16.76	21.72	17 55
32	General Hired Labor			17.55
		10.94	10.55	10.77
33	Utilities & Miscellaneous	16.63	19.35	17.24
34	Power & Machinery PCAF 1.00	12.83	13.26	12.69
35	Livestock Equipment ECAF 1.00	10.18	10.61	7.94
36	Buildings & Fences BCAF 1.00	<u> 11.02</u>	<u> 12.69</u>	<u> 11.06</u>
37	Total Allocated Costs	78.36	88.18	77.25
38	Total Actual Listed Costs	277.47	243.57	335.86
39	Return Over Act.Listed Costs		225.30	-113.08
40	Total Costs Adj to 7% Min In	t 305.83	271.37	361.80
41	Return Over Listed & 7% Oppo		2,100,	301.00
42	Interest Cost	24.29	197.50	-139.02
	******* ***** SUPPLEMENTARY MANAGE			
44				
	Return/\$100 Feed Fed	167.05	305.50	86.85
45	Percent Calf Death Loss	12.0	8.3	17.3

TABLE 14 - ALL DAIRY + DUAL PURPOSE CATTLE, 1988

TAB	LC 14 - ALL DALXY + DUAL PURPUSE		00 ++1	20 T
		Average of	20 High	20 Low
		98 Farms	Farms	Farms
<u>Ite</u>		Per Cow	Per Cow	Per Cow
1	Average Number of Cows	47.0	56.3	44.8
2	Pounds of Milk	15583.64	18043.52	12673.33
3	Pounds of Butterfat	556.08	649.87	441.96
4	Percent of Butterfat in Milk	3.57	3.60	3.49
5	Value of Produce			
6	Dairy Products Sold	1762.64	2057.02	1384.71
7	Dairy Products Used in Home	6.70	8.58	4.53
8	Milk Fed to Livestock			
		17.49	22.34	10.67
9	Net Increase in Value	331.64	477.82	232.59
10	Other Miscellaneous Income	_		
11		$2\overline{118.47}$	2565.76	1632.50
12	Feed Fed: Qty. & Cost Lbs/Cow			
13	Corn 3667	143.15	165.40	94.46
14	Small Grain 1046	50.23	51.67	66.05
15	Complete Ration 1363	108.06	76.06	173.21
16	Prot., Salt, Min. <u>1833</u>	219.13	247.92	169.80
17	Total Grain Mix 7909	520.57	$\frac{541.05}{541.05}$	$\frac{203.50}{503.52}$
18	Legume Hay 11221	302.96	320.98	304.04
19				
	Other Dry Hay & Roughage 632	14.79	5.13	56.00
20	Haylage 1848	26.43	27.57	4.38
21	Silage 10818	70.74	68.37	73.55
22	Pasture	$\frac{3.79}{939.28}$	<u>3.52</u>	<u>2.90</u>
23	Total Feed Costs		966.62	944.39
24	Return Over Feed Cost	1179.19	1599.14	688.11
OTH	ER DIRECT COSTS		4	
26	Veterinary	41.68	49.68	25.31
27	Breeding	22.43	31.81	11.23
28	Miscellaneous	110.85	142.45	86.09
29	Custom Work & Lease Expense	78.26	86.31	65.92
30	Special Hired Labor	0.23		
31	Assigned Interest	33		
32	Total Other Direct Costs	253.45	310.25	188.55
33	Total Direct Costs Incl Feed		1276.87	$1\overline{132.94}$
34	Return Over All Direct Costs	925.74	1288.89	
		343.14	1200.03	499.56
	OCATED COSTS			
37	Act Int Pd Less Int Assigned-L31	11/.//	104.85	95.16
38	General Hired Labor	73.81	105.90	47.66
39	Utilities & Miscellaneous	116.98	125.72	
40	Power & Machinery	91.17	96.67	
41	Livestock Equipment	70.13	98.19	
42	Buildings & Fences	<u>76.89</u> 546.75	95.31	66.42
43	Total Allocated Costs	546.75	626.64	407.73
44	Total Actual Listed Costs	1739.48	1903.51	1540.67
45	Return Over Act.Listed Costs	378.99	662.25	91.83
46	Tot. Costs Adj to 7% Min Int.	1778.62	1798.76	1694.11
47	Return Over Listed & 7% Oppor	rtunity		
48	Interest Cost	339.85	767.00	-61.61
	******* SUPPLEMENTARY MANAG			
50	Return/\$100 Feed Fed	226	265	
		220	200	173
51	Pounds of Milk/Pound Grain Mix	1 1 1 2	11	11 00
52	Average Price/CWT. Sold	11.47	11.58	11.03
53	Dairy Cow Turnover Percentage			35.7
54	Approximate Dry Matter Consumed/		59	57
56	Total Investment/Cow	6334.87		
57	Total Debt/Cow	3667.51	3043.39	3536.65

TABLE 15A - BEEF COWS, COMMERCIAL, 1988

$\underline{\text{TAB}}$	<u>LE 15A - BEEF COWS, COMMERCIAL, 19</u>			
		Average of		Low 11
		50 Farms	Farms	Farms
<u>Ite</u>		Per Cow	Per Cow	Per Cow
$\frac{1}{2}$	Average Number of Beef Cows	70.1	71.1	54.3
. 2	Average Number of Other Beef/Bull		61.1	34.4
3	Pounds of Beef Produced	39924	45274	
4	Net Increase in Value: Beef	460.41	551.77	376.06
5	Other Miscellaneous Income	2.64	11.81	276 06
	Total Value Produced	463.05	563.58	376.06
	ED FED:QUANTITY & COST LBS/COW	15 60	27 06	14 02
8	Grain 422.8	15.69	27.96	14.03
9	Prot., Salt, Min. 234.0 Legume Hay 6975.1	9.42 144.14	8.41 144.09	13.76 194.71
10	→			
11	Other Dry Hay & Roughage 1514.8	20.41	1.08	27.18
12	Silage 2105.6	16.42	11.43	11.34
14	Pasture	$\frac{15.52}{231.60}$	$\tfrac{11.18}{204.15}$	$\frac{14.97}{275.99}$
15	Total Feed Costs	221.60		100.07
16	Return Over Feed Costs	241.45	359.43	100.07
18	ER DIRECT COSTS	8.52	10.97	6.39
19	Veterinary Breeding	0.03	10.37	0.33
20	Miscellaneous	13.24	37.52	3.74
21	Custom Work & Lease Expense	6.68	8.19	3.79
22	Special Hired Labor	0.00	0.17	3.13
23	Assigned Interest			
24	Total Other Direct Costs	28.47	56.68	13.92
25	Total Direct Costs Incl Feed	250.07	260.83	
26	Return Over All Direct Costs	212.98	302.75	86.15
	OCATED COSTS	212.70	302.73	00.10
28	Actual Interest Paid Less			
29	Interest Assigned-L23	39.34	27.09	61.99
30	General Hired Labor	13.85	2.93	3.20
31	Utilities & Miscellaneous	23.65	24.44	17.98
32	Power & Machinery PCAF 1.00	16.47	13.70	25.26
33	Livestock Equipment ECAF 1.00	8.30	5.78	4.57
34	Buildings & Fences BCAF 1.00	11.68	11.67	9.69
35	Total Allocated Costs	113.29	85.61	122.69
36	Total Actual Listed Costs	$\frac{113.29}{363.36}$	346.44	412.60
37	Return Over Actual Listed Costs		217.14	
-				
38	Total Costs Adj To 7% Min Int.	386.04	389.53	411.29
39				
40	Interest Cost	77.01	174.05	-35.23
	****** MANAGEN	MENT INFORMAT	TION*****	****
42	Return/\$100 Feed Fed	208.96	276.05	136.25
43	\$/CWT Breeding Animals Sold	47.20	42.20	49.31
44	Ave Weight of Animals Sold	654.32	679.64	631.37
45	Number of Head Bought	8	10	2
46	Percent Death Loss	3.78	2.99	4.51
47	Price/CWT Calf Sold/Transfer	84.68		83.39
48	Ave Weight Calf Sold/Transfer	520	588	467
49	Percent Calf Crop Born	97.14	94.52	
50	Percent Calf Crop Weaned	90.00	89.04	
51	Percent Calf Death Loss	7.35	5.80	7.69
52	Cull Income/Breeding Cow	64.07	66.74	
53	Hay Equivalent/Cow	4.60	3,97	5.69
54	Corn Equivalent/Cow	7.55	12.03	5.23

TABLE 15B - BEEF FEEDERS, 1988

TUL	DDR 13D - DRRE ERRDRUS' 130	0			
			Average of	13 High	12 Low
			25 Farms	Farms	Farms
			Per CWT	Per CWT	Per CWT
1	Average Number of Animals		73.7	95.8	49.9
2	Pounds of Animal Produced		39129	39129	29083
3	Net Increase in Value: Ani		63.37	$\frac{55.74}{66.74}$	57.30
4	Other Miscellaneous Incom		03.37	00.74	37.30
5	Total Value Produced	ie	<i>(</i> 2 27	CC 71	57 10
		T DO /OUM	63.37	66.74	57.30
		LBS/CWT	c 00	0.00	
7	Corn	188.5	6.82	2.96	13.76
8	Small Grains	60.9	2.24	0.81	4.82
9	Complete Rations	357.8	5.43	7.59	1.55
10	Prot., Salt, Min.	69.9	3.38	1.97	5.92
11	Legume Hay	392.8	8.66	6.67	12.24
12	Other Dry Hay & Rouage	116.9	1.74	2.14	1.00
13	Silage	345.6	2.83	1.20	5.76
14	Haylage	42.5	0.53		1.49
15	Pasture		0.07		0.18
16	Total Feed Cost		31.70	23.34	46.72
17	Return Over Feed Cost	S	31.67	43.40	10.58
	ER DIRECT COSTS	~	31.07	13.10	10.50
19	Veterinary		1.83	1.74	2.00
20	Miscellaneous		0.84		0.39
				1.09	
21	Custom Work & Lease Expen	se	2.65	3.43	1.25
22	Special Hired Labor				
23	Assigned Interest		***************************************		
24	Total Other Direct Cost		5.32	6.26	3.64
25	Total Direct costs In		37.02	29.60	50.36
26	Return Over All Direc	t Costs	26.35	37.14	6.94
ALL	OCATED COSTS				
28	Actual Interest Paid Less				
29	Interest Assigned-L23		7.11	9.07	3.78
30	General Hired Labor		0.91	0.78	1.16
31	Utilities & Miscellaneous		1.92	2.31	1.36
32		F 1.00	1.32	1.33	1.30
33		F 1.00	0.70	0.63	0.83
34		F 1.00	1.15	1.14	1.17
35	m-4-3 311 1 G		13.11	$\frac{15.26}{15.26}$	9.60
33	Total Allocated Costs			13.20	<u> </u>
36	Total Actual Listed C	oata	50.13	44.86	49.96
37	Return Over Actual Li	sted Costs	13.24	21.88	-2.66
20	matal Cast add to To	ant a mark	F A 1 A	47 06	CE 30
38	Total Cost Adj to 7%		54.14	47.96	65.32
39	Return Over Listed &	7% Opportu			
40	Interest Cost		9.23	18.78	-8.02
	************SUPPLEMENTAR	y managemei			
42	Return/\$100 Feed Fed		199.98	285.86	122.60
43	Price/CWT Sold		74.28	76.28	68.56
44	Average Weight All Cattle	Sold	862	853	900
45	Price/CWT Bought	•	89.18	93.63	83.43
46	Average Weight Cattle Bou	ght	496	503	484
47	Number of Head Bought	<u></u>	59	63	55
48	Percent Death Loss		0.60	0.27	1.22
49	Effective Daily Gain-Pound	d/Head/Day	1.45	1.38	1.60
51	Hay Equivalent/CWT	-,uu, wuy	0.32	0.25	0.45
52	Corn Equivalent/CWT		4.45	1.82	9.20
24	COLIL Edgingarency CMI		4.47	1.02	3.20

AVERAGES PRICES OF FEED AND PRODUCE USED IN HOME, 1988

Farm Grown Grains			Forages		
Oats	\$2.08	Bu.	Alfalfa	63.63	Ton
Barley, Feed	1.78	Bu.	Wild Hay	26.00	Ton
Wheat	2.95	Bu	Mixed Legume	42.06	Ton
Oats Mixture	1.94	Bu.	Haylage(55% Moisture)	27.25	Ton
Corn	2.22	Bu.	Corn Silage	15.80	Ton
			Straw	.72	Bale

Milk for Feed

Whole Milk-Gr. A \$10.84 Cwt.

Home Produce

Milk	.25 Qt.	Board for Hired Labor - \$5.00 per
Beef (live)	.67 lb.	day (unless otherwise specified)
Hogs (live)	.43 lb.	- ,

EXPLANATION OF "WORK UNITS"

The total "Work Units" for any one farm is a measure of the size of that farm's 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. The number of work units for each class of livestock and each acre of crop are presented below. Days of work off the farm for pay are not included in work units computations in this report.

Number of Units for Each Class of Livestock and Acre of Crop

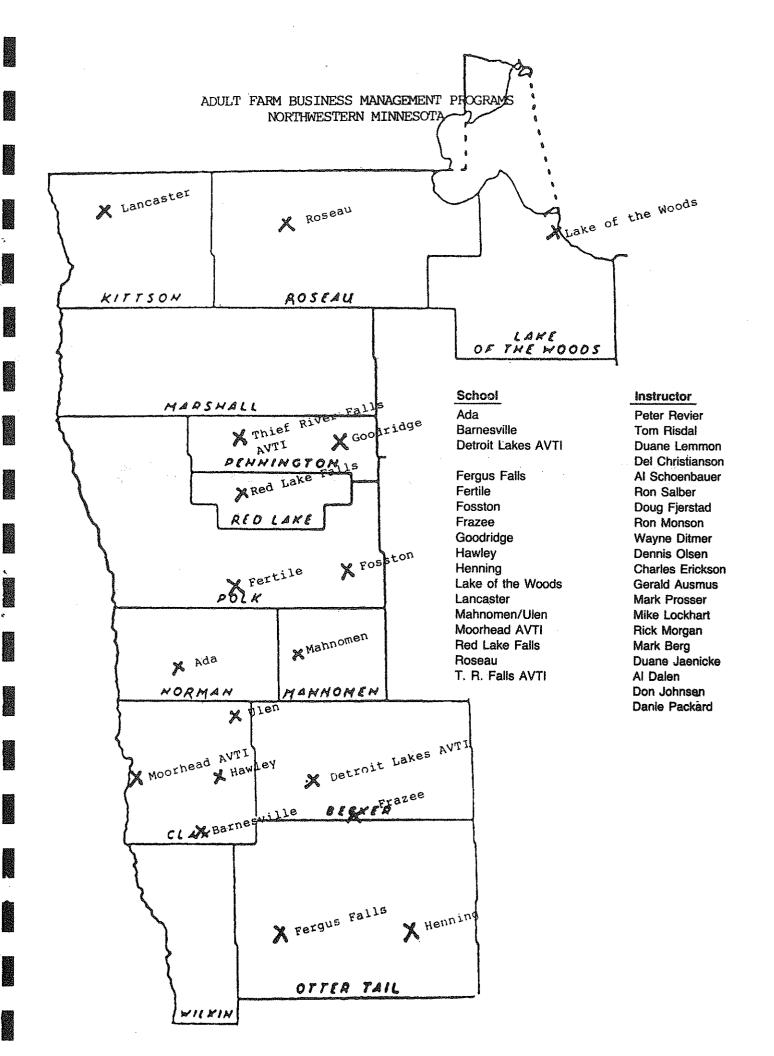
<u>Item</u> <u>N</u>	o. of	Wor	k <u>Units</u>	<u>Item</u>	<u>No.</u>	<u>of</u>	Work	<u>Units</u>
Lambs, Feeders	1.20 1.50 .12 .60 .30 .12 .06 1.40 5.00 .20 .12 .20	per per per per per per per per per	CWT CWT CWT Litter	Small Grain Corn for Grain Corn Silage Alfalfa Other Hay Legume Seed Grass Seed Potatoes Sugar Beets Summer Fallow Sunflowers Soybeans Edible Beans Conservation Reserve		.55 .60 .60 .40 .50 .40 3.00 2.00 .20 .45	per	Acre Acre Acre Acre Acre Acre Acre Acre
				Veserve		.05	per	acre

SUMMARY	ELLANEOUS ITEMS BY YEAR,	1988
CHARTETION	THE CHAILTY COORDINATED TO	T TOTALL

Items 1984 1985 1 Miscellaneous	821 507656 486144
Miscellaneous	821 507656 486144
	821 507656 486144
Average Tillable Acres 762.5 839.4 77	
→	
	.93 .84 .86
Percent Inc.from Farm Crops 80 72	74 69 68
Percent Inc.from Farm Lvstk. 20 23	20 23 20
	800 28772 28566
Trac. & Mach. Exp./Crop Acre 36.70 35.26 32	.04 30.38 29.15
<u>Efficiencies</u>	
Yield per Acre	
	0.3 55.1 34.4
	3.6 2.9 1.6
.	3.4 54.6 36.1
	4.1 41.0 23.7
	4.1 13.4 9.3
	3.6* 53.4* 37.2* 3.5 99.4 75.8
	3.9 16.7 16.8
	4.4 32.7 20.9
50ybeans 25.4 22.5 5.	7.7 J2.1 20.J
*CWT Extractable Sugar	
Return Above Feed Cost Per:	
Dairy Cow \$ 1008 968	990 1106 1014
CWT Hogs 6 7	23 12 11
Ewe 34 39	64 99
Hogs, Litter 120 101	207 183 82
CWT Cattle 14 10	18 39 168
Beef Cow 75 60	126 291 241
Prices Received Per:	en e
Oats, Bushel \$ 1.54 1.22 1	22 1 50 2 17
·	.23 1.50 2.17 .40 43.26 61.14
	.47 1.51 3.07
Wheat, Bushel 2.03 1.07 1 3.40 3.30 2	.40 2.45 3.74
Flax, Bushel 5.92 5.09 3	.73 3.19 8.23
Sugar Beets, CWT Ext. Sugar 14.64 12.76 13	.55 14.24 14.79
	.55 1.67 2.41
Sunflowers, CWT 10.87 7.97 7	.01 7.09 6.71
Soybeans, Bushel 5.77 4.82 4	.40 4.95 7.33
CWT, Milk 12.61 11.90 11	.65 11.72 11.45
	.36 68.04 74.28
CWT, Hogs 47.62 42.99 50	
CWT, Lambs 61.67 67.07 68	.21 88.84

SUMMARY OF FARM EARNINGS BY YEARS, 1988

<u>Items</u>	<u>1984</u>	<u>1985</u>	<u> 1986</u>	<u> 1987</u>	1988
Number of Records Analyzed	512	490	520	535	560
Farm Receipts					
Livestock \$ Crops Mach.& Equipment Sold Custom Work & Work Off the Farm Gov.t.Pay'ts. & Other Farm Inc.	34897 92475 2911 1924 17416	95623 3457 1433	79715 1866 1383	104490 3189 2583	40737 112419 1466 1802 32606
 (1) Total Farm Sales \$ (2) Increase in Fm Capital (3) Family Living from Farm (4) Total Farm Rec. (1+2+3) 	8829 460	158714 9 369 159092	0 370	20731 279	189030 11169 379 200578
Farm Expenses					
Livestock & Livestock Exp. Feed Bought Fertilizers & Chemicals Other Crop Expenses Custom Work Hired Gas,Oil & Grease Bought(F.S.) Rep.& Op.Mach,Trac,Auto(F.S.) Rep. & Upkeep of Real Estate Rep.& Upkeep of Livstk Equip. Wages of Hired Labor Utility Exp. (F.S.) Real Estate Taxes Gen. Farm Expense	5384 6021 20176 16880 4117 8647 9282 860 661 5066 2032 4769 3202	6151 21243 14441 4357	7092 17239 19632 3938 6474 9573 1047 641 5672 2092	6356 21329 33867 4593 7094 11420 915 549 6937 2064	7171 7898 19301 36273 3611 6731 10781 1159 643 6165 2285 3842 4462
<pre>(5) Total Cash Operating Exp. (6) Equipment Purchased (F.S.) (7) Capital Lease Payments (8) Real Estate Bot. & Improv. (9) Total Farm Purch.(5to8) (10) Decrease in Farm Capital (11) Interest on Farm Capital (12) Unpaid Family Labor (13) Lbr Chg.for Part.&Other Operation</pre> (14) Bd. Furn. Hired Labor	14674 0 8787 110558 34535 92	12238 0 7691 109763	11072 0 5196 103799 3034	134447	11346 1323 7689
(15) Total Farm Exp.(9to14) \$	145400	144953	137567	169292	164380
(16) Ret to Labor & Mgmt(4-15)	13512	14139	14477	40816	36198



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