

1989 Annual Report Southwestern Minnesota March, 1990

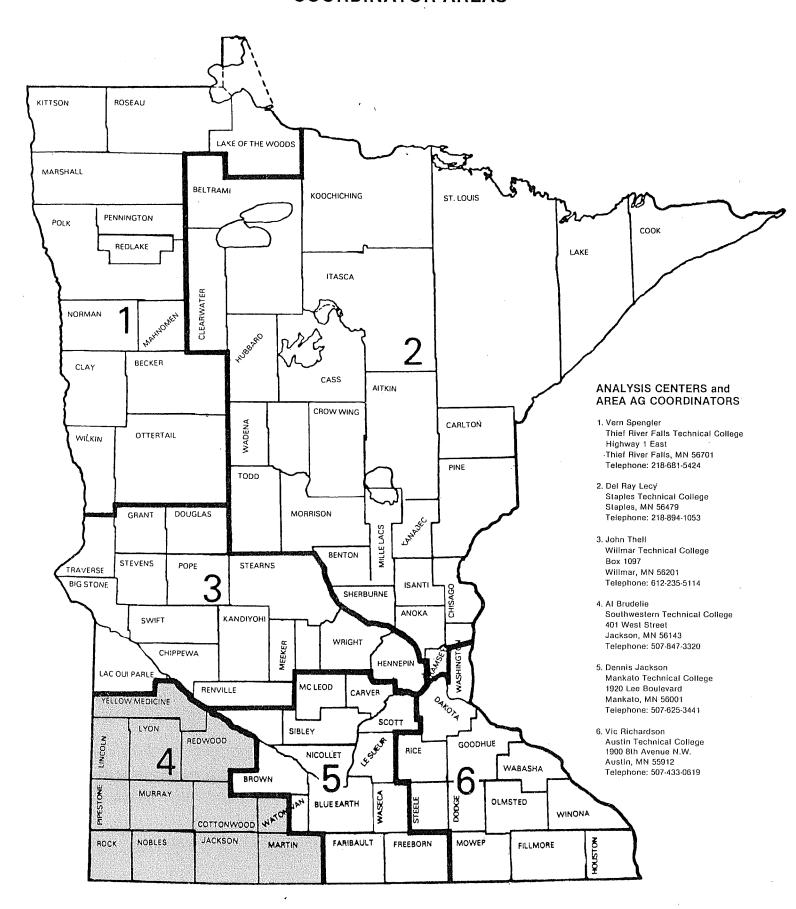
AN ADULT EDUCATIONAL PROGRAM

In cooperation with: State Board of Vocational Technical Education

Division of Agricultural Education — University of Minnesota

SOUTHWESTERN TECHNICAL COLLEGE

FARM BUSINESS MANAGEMENT COORDINATOR AREAS



SETTING GOALS

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

Sitting down as an operator or husband and wife and putting these wants in \dot{w}_{r} iting is done in one of the early classes in the adult farm management education program.

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

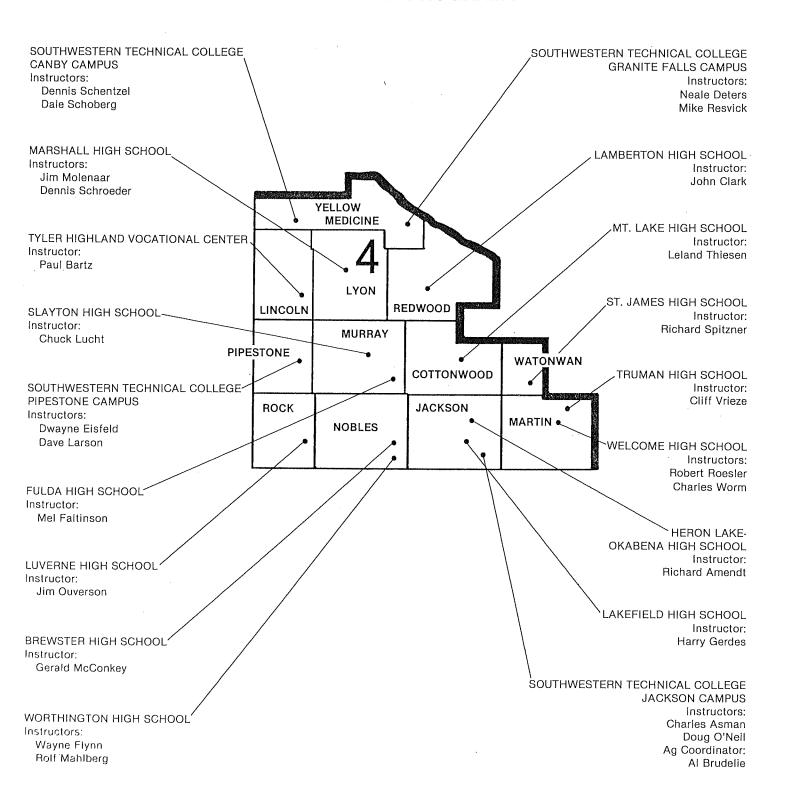
Setting up goals in a systematic way lets the family fit the wants and desires of all the family members into a plan. There are no right or wrong goals, since each family may approach the problems and opportunities they have in a different way. It is important that goals be reviewed frequently to see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

On the bottom of this page is a place for you and your family to write your goals for the coming year. The following year, these goals will be reviewed, evaluated and probably changed or expanded to fit the ever changing needs and desires of the family.

WHAT DOES YOUR FAMILY WANT?

NAME.	D. (mm	
NAME	DATE	
ADDRESS		
One of the steps for improving the farm and home bus of things you have wanted as a family, but it takes members to agree upon what is most important and whi your goals for this year and for the future, then nu	considerable thought and discus ch things come first. As a fam	sion among family
	This year	Later
FOR A PROFITABLE FARM BUSINESS:		٠.
FOR SATISFYING LIVING:		
FOR DEVELOPMENT OF FAMILY MEMBERS:		
FOR LONG TERM FINANCIAL SECURITY:		

SOUTHWEST MINNESOTA FARM BUSINESS MANAGEMENT PROGRAMS



	ZZ 101 00 07 SHEEL THAT COMMENCIAL - 190	15	AVI	TRAGE OF ZO FARMS	
			<u>FLOCK TOTAL</u>	PER EWE	
1.	Average Number of Ewes		93.4	Arrest Serventina Managarage	
2.	Pounds of Lamb, Mutton Produced		12,565		
3.	Pounds of Wool Produced		1,083		
4.	Value of Produce				
5.	Hool			10.04	
6.	Net Increase in Value			88.18	
7.	Other Miscellaneous Income			0.33	
8.	<u>Total</u> <u>Value</u> <u>Produced</u>		9,205	98.55	
9.	Feed Fed: Quantity & Cost	LBS/EWE			
. 10.	Grain	528.1		21.87	
11.	Protein, Salt, Minerals	91.4	•	19.04	
12.	Legume Hay	657.5		23.73	
13.	Other Dry Hay and Roughage	214.6		3.58	
14.	Silage	171.3		1.37	
15.	Haylage	60.7		1.19	
16.	Pasture			1.46	
17.	<u>Total Feed Cost</u>		6,746	72.24	
18.	Return Over Feed Costs		2,459	26.31	
	Other Direct Costs:				
20.	Veterinary			4.74	
21.	Breeding			0.40	
22.	Miscellaneous			4.80	
23.	Custom Work			0.64	
24.	Lease Expense			0.17	
25.	Special Hired Labor			0.15	
26.	Assigned Interest				
27.	Total Other Direct Costs ,		<u>1,018</u>	<u>10.90</u>	
28.	<u>Total Direct Costs Including</u>	g <u>Feed</u>	7,764	83.14	
29.	Return Over All Direct Cost	S	1,441	15.41	
30.	Allocated Costs				
32.	Act. Int. Paid Less Int. Assigned-L26		431	4.61	
33.	General Hired Labor			1.15	
34.	Utilities & Miscellaneous			6.76	
35.	Power & Machinery			3.90	
36.	Livestock Equipment			5.99	
37.	Buildings & Fences			<u>3.78</u>	
38.	Total Allocated Costs		2,445	<u>26.19</u>	
39.	Total Actual Listed Costs		10,209	109.33	
40.	Return Over Actual Listed Costs		-1,004	-10.78	
4.1	*********			******	*****
41.	Total Listed Costs Adj. to 7% Min. Int		10,588	113.36	
42.	Return/Listed 7% Opportunity Interest		-1,383	-14.81	
45.	Return/\$100 Feed Fed		136.45		
46.	Price/Cwt. Lamb Sold or Transferred		71.24		
47.	Ave Wt. Lamb Sold or Transferred		106		
48.	Lbs. Wool/Sheep Sheared		11.6		

			TOTAL	DED CHT	nrn HEAD
	Augusto Number of Animals		<u>TOTAL</u> 52.3	PER CWT.	<u>PER HEAD</u>
1.	Average Number of Animals Pounds of Animal Produced		35,609		
2.	Net Increase In Value: Animals		21,239	59.65	406.10
3. 4.	Other Miscellaneous Income		21,233	33.03	100110
4. 5.	Total Value Produced		21,239	59.65	406.10
6.	Feed Fed: Qty. & Cost	<u>LBS/CWT</u>	21,233	33.00	
7.	Corn	571.9		22.05	150.15
8.	Small Grains	3.9		0.20	1.38
9.	Complete Rations	21.9	,	1.22	8.28
10.	Protein, Salt, Minerals	108.2		7.04	47.95
11.	Legume Hay	70.2		2.71	18.47
12.	Other Dry Hay & Roughage	119.4		0.90	6.12
13.	Silage	481.0		4.05	27.55
14.	Haylage	75.5		0.92	6.29
15.	Pasture			0.10	0.65
16.	· <u>Total Feed Costs</u>		13,956	39.19	266.84
17.	Return Over Feed Costs		7,283	20.46	139.26
	Other Direct Costs				
19.	Veterinary			1.71	11.64
20.	Miscellaneous			1.29	8.78
21.	Custom Work & Lease Expense	!		0.83	5.68
22.	Special Hired Labor			0.01	0.06
23.	Assigned Interest			0.95	6.48
24.	Total Other Direct Co	sts	1,707	4.79	32.64
25.	<u>Total Direct Cost</u>	s <u>Incl. Feed</u>	15,663	43.98	299.48
26.	Return Over All D	irect Costs	5,576	15.67	106.62
27.	Allocated Costs				
29.	Act. Int. Pd Less Int. Assi	gned-L23		2.80	19.06
30.	General Hired Labor			0.32	2.20
31.	Utilities & Miscellaneous			1.81	12.29
32.	Power & Machinery			0.94	6.43
33.	Livestock Equipment			1.96	13.38
34.	Buildings & Fences			1.07	7.31
35.	Total Allocated Cost		3,173	8.90	60.67
36.	Total Actual Lis		<u>18,836</u>	<u>52.88</u>	<u>360.15</u>
37.	<u>Return Over Actua</u>	al <u>Listed Costs</u>	2,403	6.77	45.95
	*******	********SUPPLEMEN	TARY MANAGEMENT INFOR	MATION*********	*****
38.	Total Costs Adj. to 7% Min	. Int.	20,541	57.69	392.76
39.	Return/Listed 7% Opportuni		698	1.96	13.34
42.	Return/\$100 Feed Fed	•	152.19		
43.	Price/Cwt. Sold		73.57		
44.	Average Weight All Cattle	Sold	1,046		
45.	Price/Cwt. Bought		87.63		
46.	Average Weight Cattle Boug	ht	548		
47.	Number of Head Bought		61		
48.	Percent Death Loss		1.12		
49.	Effective Daily Gain-Pound	/Head/Day	1.87		
50.	Price to Cover Purch. Pric		135.22		
51.	Hay Equivalent/Cwt.		0.19		
52.	Corn Equivalent/Cwt.		10.28		

	·		HERD TOTAL	PER COW
1.	Average Number of Beef Cows		38.4	
2.	Average Number of Other Beef/Bulls		22.9	
3.	Pounds of Beef Produced		17,352	
4.	Net Increase in Value: Beef		15,718	409.32
5.	Other Miscellaneous Income			
6.	<u>Total Value Produced</u>		15,718	409.32
7.	Feed Fed: Quantity & Cost	LBS/COW		
8.	Grain	942.3		39.97
9.	Protein, Salt, Minerals	103.5		14.82
10.	Legume Hay	1,753.8		57.29
11.	Other Dry Hay and Roughage	1,721.7		41.17
12.	Silage	1,833.3		15.63
13.	Haylage	798.1		11.22
14.	Pasture			27.16
15.	Total Feed Costs		7,959	207.26
16.	Return Over Feed Costs		7,759	202.06
	Other Direct Costs			
18.	Veterinary			10.78
19.	Breeding			1.61
20.	Miscellaneous			8.15
21.	Custom Work & Lease Expense			1.64
22.	Special Hired Labor			0.13
23.	Assigned Interest			
24.	Total Other Direct Costs		<u>857</u>	<u>22.31</u>
25.	<u>Total Direct Costs Incl. F</u>	eed	8,816	229.57
26.	Return Over All Direct Cos	ts	6,902	179.75
	Allocated Costs			
28.	Actual Interest Paid Less		•	
29.	Interest Assigned-L23			25.26
30.	General Hired Labor			4.82
.18	Utilities & Miscellaneous			19.90
32.	Power & Machinery			10.71
33.	Livestock Equipment			16.58
34.	Buildings & Fences			8.38
35.	Total Allocated Costs		<u>3,289</u>	85.65
36.	Total Actual Listed Costs		12,105	315.22
37.	<u>Return Over Actual Listed C</u>		3,613	94.10
	**********	****** SUPPLEMENTARY MA		
38.	Total Costs Adj. to 7% Min. Int.		13,673	356.08
39.	Return Over Listed & 7% Opportunity			
40.	Interest Cost		2,045	53.24
42.	Return/\$100 Feed Fed		197.46	
43.	\$/Cwt. Breeding Animals Sold		73.74	
44.	Ave. Weight of Animals Sold		708.75	
45.	Number of Head Bought		5	
46.	Percent Death Loss		4.26	
47.	Price/Cwt. Calf Sold/Transfer		81.23	
48.	Ave. Weight Calf Sold/Transfer		541	
49.	Percent Calf Crop Born		94.87	
50.	Percent Calf Crop Weaned		92.31	
51.	Percent Calf Death Loss		5.41	
52.	Cull Income/Breeding Cow		108.52	
53.	Hay Equivalent/Cow		2.04	
54.	Corn Equivalent/Cow		16.83	
		40		

			10 HIGH RETURI PER COW		10 LOW RETURN FARMS PER COW	
1.	Average Humber of Cows	*****	41.9		41.9	
2.	Pounds of Hilk		17,399		11,569	
3.	Pounds of Butterfat		622.65		380.82	
4.	Percent of Butterfat in Milk		3.58		3.29	
5.	Value of Produce					
6.	Dairy Products Sold		2,252.58		1,429.07	
7.	Dairy Products Used in Home		5.37		4.32	
8.	Milk Fed to Livestock		1.65		10.53	
9.	Net Increase in Value:		614.92		251.91	
10.	Other Miscellaneous Income					
11.	<u> Iotal Value Produced</u>		2,874.52		1,695.83	
12.	Feed Fed: Qty. & Cost	LBS/COW		LBS/COW		
13.	Corn	6,081	241.92	7,225	278.40	
14.	Small Grain	389	22.34	190	11.12	
	Complete Ration	1,084	70.60	615	58.54	
	Protein, Salt, Minerals	1,771	<u>270.79</u>	1,033	<u>218.19</u>	
17.	<u> Iotal Grain Mix</u>	9,325	608.65	9,063	566.25	
18.	Legume Hay	6,510	262.84	8,224	320.69	
	Other Dry Hay & Roughage	845	17.30	722	13.94	
20.	Haylage	2,158	36.68	1,265	21.12	
21.	Silage	13,392	121.60	10,869	99.07	
22:	Pasture		10.72			
23.	Total Feed Costs		1,057.79		1,021.07	
24.	Return Over Feed Cost		1,816.73		674.76	
0.0	Other Direct Costs					
26.	Veterinary		56.28		35.97	
27.	Breeding		32.22		10.72	
28.	Miscellaneous		119.64		88.09	
29. 30.	Custom Work & Lease Expense		62.58		47.80	
31.	Special Hire Labor		46.25		9.14	
32.	Assigned Interest Total Other Direct Costs		216 02		101 70	
33.	<u>Iotal Direct Costs Incl. Feed</u>		<u>316.97</u>		191.72	
34.	Return Over All Direct Costs		1,374.76		1,212.79	
J4.	Allocated Costs		1,499.76		483.04	
37.	Int. Pd Less Int. Assigned-L31		64.77		00.00	
38.	General Hired Labor		66.01		86.23	
39.	Utilities & Miscellaneous		108.07		31.34 79.90	
40.	Power & Machine		66.55		34.45	
41.	Livestock Egp.		57.17		34.28	
42.	Bldg/Fences		73.43		31.89	
43.	Total Allocated Costs		436.00		298.09	
44.	Total Actual Listed Cost:	5	1,810.76		1,510.88	
45.	<u>Return Over Actual Liste</u>		1,063.76		184.95	
	*****			FORMATION***		*****
46.	Total Costs Adj. 7% Int.					
47.	Return/Listed 7% Opportunity Int.					
50.	Return/\$100 Feed Fed		272.00		166.00	
51.	Lbs. of Milk/Lbs. Grain Mix		1.87		1.28	
52.	Average Price/Cwt. Sold		12.97		12.46	
53.	Dairy Cow Turnover %		35.80		38.19	
54.	Approx. Dry Matter/Cow		54		54	
55.	Percent Calf Death Loss		5.43		7.78	
56.	lotal Investment/Cow		10,948.81		5,687.33	

57. Total Debt/Cow

AVERAGE OF 52 FARMS

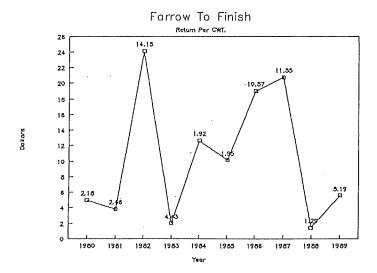
		HERD TOTAL	PER COW	CWT. MILK
1.	Average Number of Cows	51.3		
2.	Pounds of Milk		15,088	
3.	Pounds of Butterfat		497.67	
4.	Percent of Butterfat in Milk		3.32	
5.	Value of Produce			
6.	Dairy Products Sold		1,896.2	
7.	Dairy Products Used in Home		4.35	
8.	Milk Fed to Livestock		12.11	
9.	Net Increase in Value:		409.04	
0.	Other Miscellaneous Income		0.10	**************************************
1.	Total Value Produced	119,108	2,321.80	15.48
2.	Feed Fed: Qty. & Cost	LBS/COW		
3.	Corn	6,644	260.43	1.74
4.	Small Grain	320	22.16	0.15
5.	Complete Ration	1,162	73.43	0.49
6.	Protein, Salt, Minerals	1,953	275.19	1.84
7.	<u>Total</u> <u>Grain</u> <u>Mix</u>	10,079	631.21	4.22
8.	Legume Hay	5,152	198.67	1.33
9.	Other Dry Hay & Roughage	1,701	17.47	0.12
0.	llay1age	3,595	61.50	0.41
1.	Silage	14,623	129.06	0.86
2.	Pasture	HERD TOTAL	6.57	
3.	<u>Total Feed Costs</u>	53,582	1,044.48	6.98
4.	Return Over Feed Cost	65,526	1,277.32	8.50
	Other Direct Costs			
6.	Veterinary		47.47	0.32
7.	Breeding		26.00	0.17
8.	Miscellaneous		107.52	0.72
9.	Custom Work & Lease Expense		72.88	0.49
0.	Special Hire Labor		50.62	0.34
1.	Assigned Interest			
2.	Total Other Direct Costs	<u>15,621</u>	<u>304.49</u>	2.04
3.	Total Direct Costs Incl. Feed	69,203	1,348.97	9.02
4.	Return Over All Direct Costs	49,905	972.83	6.46
	Allocated Costs			
7.	Int. Pd Less Int. Assigned-L31		85.54	0.57
8.	General Hired Labor		49.30	0.33
9.	Utilities & Miscellaneous		88.95	0.59
0.	Power & Machine		55.60	0.37
1.	Livestock Eqp.		73.33	0.49
2.	Bldg/Fences		61.96	0.41
3.	Total Allocated Costs	<u>21,273</u>	414.68	<u>2.76</u>
14.	Total Actual Listed Costs	90,476	1,763.65	11.78
5.	Return Over Actual Listed Costs	28,632	558.15	3.70
_	**************************************	LEMENTARY MANAGEMENT	INFORMATION*******	*******
6.	Total Costs Adj. 7% Int.			
7.	Return/Listed 7% Opportunity Int.			
0.	Return/\$100 Feed Fed	222		
1.	Lbs. of Milk/Lbs. Grain Mix	1.49		
2.	Average Price/Cwt. Sold	12.75		
3.	Dairy Cow Turnover %	35.09		
4.	Approx. Dry Matter/Cow	58		
5.	Percent Calf Death Loss	6.06		
6.	Total Investment/Cow	7,754		
5.7	Total Dobt/Cow	2 641		

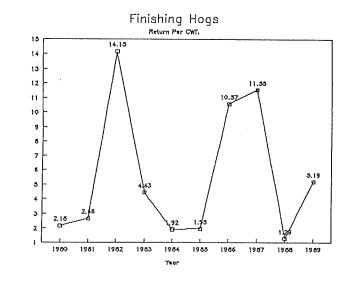
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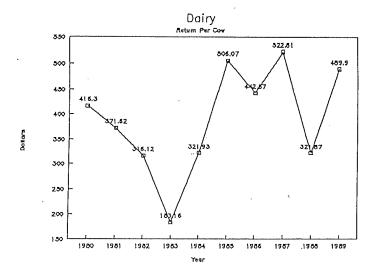
TABLE 13 6310A OTHER DAIRY/COMMERCIAL REPLACEMENT - 1989

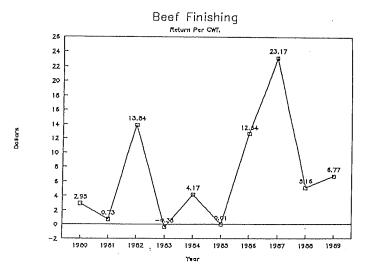
	·		AVERAGE OF 50 FARMS	10 HIGH RETURN FARMS	10 LOW RETURN FARMS
			<u>PER HEAD</u>	PER HEAD	PER HEAD
1.	Average Number of Head		64.8	42.8	56.8
2.	Net Increase in Value:		376.65	626.21	280.51
3.	Other Miscellaneous Inc				200.51
4.	<u> Iotal</u> <u>Value</u> <u>Produced</u>		376.65	626.21	280.51
5.	Feed Fed: Qty. & Cost	LBS/HEAD			
6.	Corn	1,374	53.55	45.14	87.90
7.	Small Grain	90	5.52	5.86	6.21
8.	Complete Ration	184	9,91	4.44	6.87
9. 10.	Protein, Salt, Minerals	<u>597</u>	40.37	42.76	<u>51.21</u>
11.	<u>Total Grain Mix</u> Legume Hay	2,245	109.35	98.20	152.19
12.	Other Dry Hay & Roughage	1,221	43.87	31.89	102.73
13.	Haylage	770 373	9.23	9.91	3.43
14.	Silage	373 4,804	5.99 42.52	1.29	1.97
15.	Milk	56	8.64	43.25 0.86	48.06
16.	Pasture	30	3.33	1.75	11.41
17.	<u>Total Feed Costs</u>	14,446	222.93	187.15	319.79
18.	Return Over Feed Cost	11,110	153.72	439.06	-39.28
(Other Direct Costs		100172	133.00	-33.20
20.	Veterinary		7.79	6.26	7.45
21.	Breeding		1.56		0.30
22.	Miscellaneous		8.61	3.60	8.50
23.	Custom Work & Lease Exp.		2.11	0.61	0.70
24.	Special Hired Labor		3.24		
25.	Assigned Interest				
26.	Total Other Direct Costs		<u>23.31</u>	<u>10.47</u>	<u>16.95</u>
27.	<u>Total Direct Costs Include Feed</u>		246.24	197.62	336.74
28.	Return Over All Direct Costs		130.41	428.59	-56.23
	Allocated Costs				
31.	Int. Pd Less Int. Assigned-L25		13.13	6.80	9.23
32. 33.	General Hired Labor		8.06	1.21	6.67
34.	Utilities & Misc. Power & Machine		13.13	15.05	13.40
35.	Livestock Equipment		8.65	7.92	9.77
36.	Building/Fences		12.62 <u>10.33</u>	7.50	8.49
37.	Total Allocated Costs		65.92	<u>6.78</u> 45.26	7.39
38.	Total Act. Listed Costs		312.16	242.88	<u>54.95</u> 391.69
39.	Return Return Over Actual Lis	sted Costs	64.49	383.33	-111.18

40.	lotal Costs Adj. 7% Int.		344.75	287.13	417.56
42.	Return/listed 7% Opportunity Int.		31.90	339.08	-137.05
44.	Return/\$100 Feed Fed		168.95	334.61	87.71
45.	Percent Calf Death Loss		6.12	8.82	7.17









THE FOUR GRAPHS ABOVE INDICATE THE RELATIVE PROFITABILITY OF THE LIVESTOCK INDUSTRY OVER THE PAST TEN YEARS.

			16 HIGH RETURN FARMS PER CON		16 LOW RETURN FARMS PER COW
1.	Average Number of Cows		66.53		38.3
2.	Pounds of Milk		17,399		11,567
3.	Pounds of Butterfat		595		414
4.	Percent of Butterfat in Milk		3.54		3.43
5.	Value of Produce				
6.	Dairy Products Sold		2,188.69		1,459.14
7.	Dairy Products Used in Home		3.91		4.02
8.	Milk Fed to Livestock		15.56		8.46
9.	Net Increase in Value:		-7.38		-39.90
10.	Other Miscellaneous Income		- 4		0.42
11.	<u> Iotal Value Produced</u>		2,200.78		1,432.14
12.	Feed Fed: Qty. & Cost	LBS/COW		LBS/COW	
13.	Corn	5,222	205.70	5,502	216.84
14.	Small Grain	325	28.48	104	5.93
15.	Complete Ration	396	47.70	447	36.42
16.	Protein, Salt, Minerals	1,484	250.18	896	_157.36
17.	Total Grain Mix	7,427	532.06	6,949	416.55
18.	Legume Hay	2,454	100.69	5,673	236.16
19.	Other Dry Hay & Roughage	424	10.59	2,395	3.03
20.	Haylage	3,537	57.56	1,419	22.77
21.	Silage	9,126	76.98	6,805	64.26
22.	Pasture	<u> IIERD TOTAL</u>	0.71	HERD TOTAL	1.51
23.	<u>Total</u> Feed Costs		778.59		744.28
24.	Return Over Feed Cost		1,422.19		687.86
	Other Direct Costs		-,		337,733
26.	Veterinary		40.33		29.90
27.	Breeding		29.94		13.92
28.	Miscellaneous		109.89		75.35
29.	Custom Work & Lease Expense		78.71		60.47
30.	Special Hire Labor		108.57		9.84
31.	Assigned Interest		100.0,		3.01
32.	Total Other Direct Costs		367.44		189.48
33.	<u>Total Direct Costs Incl. Feed</u>		1,146.03		933.76
34.	Return Over All Direct Costs		1,054.75		498.38
5.,	Allocated Costs		1,034.75		450.30
37.	Int. Pd Less Int. Assigned-L31		49.62		66.08
38.	General Hired Labor		38.12		24.86
39.	Utilities & Miscellaneous		75.52		71.44
40.	Power & Machine		54.43		39.06
41.	Livestock Egp.		65.68		59.17
42.	Bldy/Fences		<u>46.25</u>		
43.	Total Allocated Costs		329.62		30.25
44.	Total Actual Listed Cost	ł c	1,475.65		<u>290.86</u> 1,224.62
45.	Return Over Actual Liste		725.13		207.52
13.	*******************************			*****	
46.	Total Costs Adj. 7% Int.	SOPPLEHENTAR			
47.	_		1,509.56		1,247.23
50.	Return/Listed 7% Opportunity Int. Return/\$100 Feed Fed		691.22		184.91
			282.66		192.42
51.	Lbs. of Milk/Lbs. Grain Mix		2.26		1.74
52.	Average Price/Cwt. Sold		13.12		12.22
53.	Dairy Cow Turnover %		36.09		33.94
54.	Approx. Dry Matter/Cow		37		43
55.	Percent Calf Death Loss		XXXX		XXXX
56.	Total Investment/Cow		XXXX		XXXX
57.	Total Debt/Cow		XXXX		XXXX

		HERD TOTAL	PER COW	PER. CWT. MILK
1.	Average Number of Cows	52.1	45.000	
2.	Pounds of Milk		15,088	
3.	Pounds of Butterfat		496	
4. 5.	Percent of Butterfat in Milk Value of Produce		3.29	
6.	Dairy Products Sold		1 000 00	
7.	Dairy Products Sold Dairy Products Used in Home		1,909.08	
8.	Milk Fed to Livestock		4.07	
9.	Net Increase in Value:		12.02	
10.	Other Miscellaneous Income		-31.31	
11.	<u>Iotal Value Produced</u>	98,676	0.12	12 rr
12.	Feed Fed: Qty. & Cost	LBS/COW	1,893.98	12.55
13.	Corn		200 06	1 22
14.	Small Grain	5,079	200.06	1.33
15.	Complete Ration	213 953	16.10	0.11
16.	Protein, Salt, Minerals		59.92	0.40
17.	Total Grain Mlx	<u>1,271</u> 7,516	222.15	1.47
18.	Legume Hay	· ·	498.23	3.31
19.	Other Dry Hay & Roughage	3,550	142.76	0.95
20.	Haylage	834	6.81	0.05
21.	Silage	3,110	52.28	0.35
22.	Pasture	8,661	75.99	0.50
23.	<u>Total Feed Costs</u>	HERD TOTAL	1.21	10.0
24.	Return Over Feed Cost	40,497	777.28	5.17
6.T.	Other Direct Costs	58,179	1,116.70	7.38
26.	Veterinary		27 00	0.05
27.	Breeding		37.98	0.25
28.	Miscellaneous		23.30 98.02	0.15 0.65
29.	Custom Work & Lease Expense		71.17	0.47
30.	Special Hired Labor		50.61	0.47
31.	Assigned Interest	•	50.01	0.34
32.	Total Other Direct Costs	14,645	281.08	1 26
33.	Total Direct Costs Incl. Feed	55,142	1,058.36	<u>1.86</u> 7.03
34.	Return Over All Direct Costs	43,534	835.62	5.52
	Allocated Costs	13,331	033.02	J.JL
37.	Int. Pd Less Int. Assigned-L31	3,645	69.96	0.46
38.	General Hired Labor	2,233	42.86	0.28
39.	Utilities & Miscellaneous	3,840	73.70	0.49
40.	Power & Machine	2,367	45.44	0.30
41.	livestock Eqp.	3,315	63.63	0.42
42.	Bldg/Fences	2,612	50.13	0.33
43.	Total Allocated Costs	18,012	345.72	2.28
44.	Total Actual Listed Costs	73,154	1,404.08	9.31
45.	Return Over Actual Listed Costs	25,522	489.90	3.24
	**************************************	TARY MANAGEMENT INFORMATI	ON******	******
46.	Total Costs Adj. 7% Int.	74,063	1,421.55	9.42
47.	Return/Listed 7% Opportunity Int.	24,613	472.43	3.13
50.	Return/\$100 Feed Fed	243.66		
51.	Lbs. of Milk/Lbs. Grain Mix	2.01		
52.	Average Price/Cwt. Sold	12.75		
53.	Dairy Cow Turnover %	34.55		
54.	Approx. Dry Matter/Cow	40		
55.	Percent Calf Death Loss	XXX		
56.	Total Investment/Cow	XXX		
57.	Total Debt/Cow	XXX		
		3.5		

3. Other Miss 4. Tota Feed Fed: 6. Corn 7. Other Graf 8. Complete Fed: 9. Protein, S 10. Tota 11. Forages 12. Pasture 13. Tota 14. Retu Other Dire 16. Veterinary 17. Miscelland 18. Custom Wor 19. Special Hi 20. Assigned L 21. Tota 22. Tota 23. Retu Allocated 26. Act. Int 27. General 28. Utilitie 29. Power & 30. Livestoc 31. Building 32. Tota 33. Tota 34. Retu *********** 35. Total Cost 36. Return/Lis 37. Return/\$100 40. Ave. Wt./Mi 41. Price Rec' 42. Ave. Weigh 43. Ave. Price 44. No. Pigs Fed 45. No. Pigs Ted 46. Pounds of Fed 47. Ave. Number			<u> TOTAL</u>	PER CWT.	PER HEAD PRODUCED (L52)
2. Net Increa 3. Other Miss 4. <u>Total</u> 6. Corn 7. Other Graf 8. Complete 6 9. Protein, 5 10. <u>Total</u> 11. Forages 12. Pasture 13. <u>Total</u> 14. Retunnia 16. Veterinary 17. Miscellane 18. Custom Wor 19. Special Hi 20. Assigned II 21. Total 22. <u>Total</u> 23. Retunnia 18. Utilitie 29. Power 8 30. Livestoc 31. Building 32. Total 33. Total 34. Returnia 19. Returnia 19. Returnia 19. Returnia 19. Returnia 19. Price Rec's 36. Returnia 19. Retu	coduction Dounds		400.004		
3. Other Miss 4. Tota Feed Fed: 6. Corn 7. Other Graf 8. Complete Fed: 9. Protein, S 10. Tota 11. Forages 12. Pasture 13. Tota 14. Retu Other Dire 16. Veterinary 17. Miscellane 18. Custom Wor 19. Special Hi 20. Assigned J 21. Tota 22. Tota 23. Retu Allocated 26. Act. Int 27. General 28. Utilitie 29. Power & 30. Livestoc 31. Building 32. Tota 33. Tota 34. Retu ********** 35. Total Cost 36. Return/Lis 37. Return/\$100 40. Ave. Wt./Mi 41. Price Rec' 42. Ave. Weigh 43. Ave. Price 44. No. Pigs P 45. No. Pigs T 46. Pounds of F 47. Ave. Number	et Increase in Value: Hogs		153,234		177.8
4. Total Feed Fed: 6. Corn 7. Other Graf 8. Complete F 9. Protein, S 10. Total 11. Forages 12. Pasture 13. Total 14. Return 16. Veterinary 17. Miscellane 18. Custom Wor 19. Special Hi 20. Assigned I 21. Total 22. Total 23. Return 24. Act. Int 26. Act. Int 27. General 28. Utilitie 29. Power & 30. Livestoc 31. Building 32. Total 33. Total 34. Return/Lis 35. Total Cost 36. Return/Lis 39. Return/\$100 40. Ave. Wt./MI 41. Price Rec's 42. Ave. Weight 43. Ave. Price, 44. No. Pigs Total 45. No. Pigs Total 46. Pounds of F 47. Ave. Number	ther Miscellaneous Income		55,095	35.95	63.92
Feed Fed: 6. Corn 7. Other Graf 8. Complete Ference Fed: 9. Protein, Section Forages 11. Forages 12. Pasture 13. Total 14. Return Other Direct 16. Veterinary 17. Miscellane 18. Custom Word 19. Special Hid 20. Assigned Id 21. Total 22. Total 23. Return Allocated 26. Act. Int 27. General 28. Utilitie 29. Power & Utilitie 29. Power & Utilitie 29. Power & Utilitie 30. Livestoc 31. Building 32. Total 33. Total 34. Return/Lis 35. Total Cost 36. Return/Lis 39. Return/\$100 40. Ave. Wt./MI 41. Price Rec'd 42. Ave. Weight 43. Ave. Price, 44. No. Pigs Pounds of Fe 45. No. Pigs Total 46. Pounds of Fe 47. Ave. Number	Total Value Produced		38	0.02	0.04
6. Corn 7. Other Graf 8. Complete F 9. Protein, S 10. Tota 11. Forages 12. Pasture 13. Tota 14. Retu Other Dire 16. Veterinary 17. Miscellane 18. Custom Wor 19. Special Hi 20. Assigned I 21. Tota 22. Tota 23. Retu Allocated 26. Act. Int 27. General 28. Utilitie 29. Power & 30. Livestoc 31. Building 32. Tota 33. Tota 34. Retu ********** 35. Total Cost 36. Return/Lis 39. Return/\$100 40. Ave. Wt./MI 41. Price Rec' 42. Ave. Weigh 43. Ave. Price 44. No. Pigs P 45. No. Pigs T 46. Pounds of F 47. Ave. Number	eed Fed: Quantity & Cost	I DC /OUT	55,133	35.97	63.96
7. Other Grafe 8. Complete F 9. Protein, S 10. Tota 11. Forages 12. Pasture 13. Tota 14. Return 16. Veterinary 17. Miscellane 18. Custom Wor 19. Special Hi 20. Assigned I 21. Tota 22. Tota 23. Return 24. Act. Int 27. General 28. Utilitie 29. Power & 30. Livestoc 31. Building 32. Tota 33. Tota 34. Return/Lis 35. Total Cost 36. Return/Lis 39. Return/\$100 40. Ave. Wt./MI 41. Price Rec'd 42. Ave. Weight 43. Ave. Price 44. No. Pigs Tota 45. No. Pigs Tota 46. Pounds of F 47. Ave. Number		<u>LBS/CWT</u> 280.2	17.040	44.40	
8. Complete 6 9. Protein, 5 10. Tota 11. Forages 12. Pasture 13. Tota 14. Retu Other Dire 16. Veterinary 17. Miscellane 18. Custom Wor 19. Special Hi 20. Assigned I 21. Tota 22. Tota 23. Retu Allocated 26. Act. Int 27. General 28. Utilitie 29. Power & 30. Livestoc 31. Building 32. Tota 33. Tota 34. Retu ********* 35. Total Cost 36. Return/Lis 39. Return/Lis 39. Return/\$100 40. Ave. Wt./M 41. Price Rec' 42. Ave. Weigh 43. Ave. Price, 44. No. Pigs Po 45. No. Pigs To 46. Pounds of 6 47. Ave. Number		1.1	17,048	11.13	19.78
9. Protein, S 10. Tota 11. Forages 12. Pasture 13. Tota 14. Retu Other Dire 16. Veterinary 17. Miscellane 18. Custom Wor 19. Special Hi 20. Assigned L 21. Tota 22. Tota 23. Retu Allocated 26. Act. Int 27. General 28. Utilitie 29. Power & 30. Livestoc 31. Building 32. Tota 33. Tota 34. Retu ********* 35. Total Cost 36. Return/Lis 39. Return/Lis 39. Return/\$100 40. Ave. Wt./M 41. Price Rec' 42. Ave. Weigh 43. Ave. Price 44. No. Pigs To 45. No. Pigs To 46. Pounds of F 47. Ave. Number		10.3	131	0.09	0.05
10. Tota 11. Forages 12. Pasture 13. Tota 14. Retu Other Dire 16. Veterinary 17. Miscellane 18. Custom Wor 19. Special Hi 20. Assigned I 21. Tota 22. Tota 23. Retu Allocated 26. Act. Int 27. General 28. Utilitie 29. Power & 30. Livestoc 31. Building 32. Tota 33. Tota 34. Retu ********** 35. Total Cost 36. Return/Lis 39. Return/\$100 40. Ave. Wt./MI 41. Price Rec' 42. Ave. Weigh 43. Ave. Price 44. No. Pigs Tota 45. No. Pigs Tota 46. Pounds of Founds of F	rotein, Salt, Minerals	70.5	1,380	0.90	1.60
11. Forages 12. Pasture 13. Tota 14. Retu Other Dire 16. Veterinary 17. Miscellane 18. Custom Wor 19. Special Hi 20. Assigned I 21. Tota 22. Tota 23. Retu Allocated 26. Act. Int 27. General 28. Utilitie 29. Power & 30. Livestoc 31. Building 32. Tota 33. Tota 34. Retu ********** 35. Total Cost 36. Return/Lis 39. Return/\$100 40. Ave. Wt./MI 41. Price Rec' 42. Ave. Weigh 43. Ave. Price, 44. No. Pigs To 46. Pounds of F 47. Ave. Number	Total Grain Mix	362.1	<u>17,473</u> 36,032	11.40	20.27
12. Pasture 13. Tota 14. Retu Other Dire 16. Veterinary 17. Miscellane 18. Custom Wor 19. Special Hi 20. Assigned I 21. Tota 22. Tota 23. Retu Allocated 26. Act. Int 27. General 28. Utilitie 29. Power & 30. Livestoc 31. Building 32. Tota 33. Tota 34. Retu ********** 35. Total Cost 36. Return/Lis 39. Return/\$100 40. Ave. Wt./MI 41. Price Rec' 42. Ave. Weigh 43. Ave. Price 44. No. Pigs To 45. No. Pigs To 46. Pounds of F 47. Ave. Number		302.1	30,032	23.52	41.80
13. Total 14. Retu Other Dire 16. Veterinary 17. Miscellane 18. Custom Wor 19. Special Hi 20. Assigned I 21. Total 22. Total 23. Retu Allocated 26. Act. Int 27. General 28. Utilitie 29. Power & 30. Livestoc 31. Building 32. Total 33. Total 34. Retu ********** 35. Total Cost 36. Return/Lis 39. Return/\$10 40. Ave. Wt./Ml 41. Price Rec'd 42. Ave. Weigh 43. Ave. Price 44. No. Pigs Ti 46. Pounds of f 47. Ave. Number					
14. Retu Other Dire Ot	<u>Total</u> <u>Feed Cost</u>		36,032	23.52	41.00
Other Dire Other Dire Veterinary Miscellane Custom Wor Special Hi Assigned L Custom Wor Special Hi Assigned L Custom Wor Tota Custom Wor Special Hi Assigned L Custom Wor Tota Custom Wor Assigned L Custom Allocated Act. Int General Utilitie Power & Livestoc Livestoc Livestoc Livestoc Livestoc Livestoc Return/Lis Return/Lis Return/Lis Return/Lis Return/\$100 Ave. Wt./M Price Rec' Ave. Weight Ave. Price, Ave. Weight Ave. Price, Mo. Pigs To Company Compan	Return Over Feed Costs		19,101	12.45	41.80
16. Veterinary 17. Miscellane 18. Custom Wor 19. Special Hi 20. Assigned L 21. Tota 22. Tota 23. Retu Allocated 26. Act. Int 27. General 28. Utilitie 29. Power & 30. Livestoc 31. Building 32. Tota 33. Tota 34. Retu ********** 35. Total Cost 36. Return/Lis 39. Return/Lis 39. Return/\$100 40. Ave. Wt./M 41. Price Rec'c 42. Ave. Weigh 43. Ave. Price 44. No. Pigs To 46. Pounds of F 47. Ave. Number	her Direct Costs		15,101	12.43	22.16
17. Miscellane 18. Custom Wor 19. Special Hi 20. Assigned I 21. Tota 22. Tota 23. Return 24. Allocated 26. Act. Int 27. General 28. Utilitie 29. Power & 30. Livestoc 31. Building 32. Tota 33. Tota 34. Return 25. Total Cost 36. Return/Lis 39. Return/\$100 40. Ave. Wt./MI 41. Price Rec' 42. Ave. Weigh 43. Ave. Price 44. No. Pigs Tota 45. No. Pigs Tota 46. Pounds of f 47. Ave. Number			1,008	0.66	1 17
19. Special Hi 20. Assigned I 21. Tota 22. Tota 23. Return Allocated 26. Act. Int 27. General 28. Utilitie 29. Power & 30. Livestoc 31. Building 32. Tota 33. Tota 34. Return ***********************************	scellaneous		933	0.61	1.17 1.08
19. Special Hi 20. Assigned I 21. Tota 22. Tota 23. Return Allocated 26. Act. Int 27. General 28. Utilitie 29. Power & 30. Livestoc 31. Building 32. Tota 33. Tota 34. Return ***********************************	stom Work & Lease Expense		1,499	0.98	1.74
20. Assigned I 21. Tota 22. Tota 23. Return Allocated 26. Act. Int 27. General 28. Utilitie 29. Power & 30. Livestoc 31. Building 32. Tota 33. Tota 34. Return ********** 35. Total Cost 36. Return/Lis 39. Return/\$10 40. Ave. Wt./M 41. Price Rec'c 42. Ave. Weight 43. Ave. Price 44. No. Pigs Tota 45. No. Pigs Tota 46. Pounds of Fota 47. Ave. Number	ecial Hired Labor		368	0.24	0.43
22. Tota 23. Retu Allocated 26. Act. Int 27. General 28. Utilitie 29. Power & 30. Livestoc 31. Building 32. Tota 33. Tota 34. Retu ********** 35. Total Cost 36. Return/Lis 39. Return/Lis 39. Return/\$100 40. Ave. Wt./M 41. Price Rec' 42. Ave. Weigh 43. Ave. Price, 44. No. Pigs To 46. Pounds of § 47. Ave. Number	signed Interest		<u>74</u> ,	<u>0.05</u>	0.43
23. Return/Liss 39. Return/Liss 39. Return/Liss 39. Ave. Weight 43. Ave. Price, 44. No. Pigs Tr. 46. Pounds of f. 47. Ave. Number 47. Ave. Number 42. Ave. Number 47. Ave. Num	Total Other Direct Costs		3,882	2.54	<u>4.51</u>
Allocated 26. Act. Int 27. General 28. Utilitie 29. Power & 30. Livestoc 31. Building 32. Tota 33. Tota 34. Retu ********* 35. Total Cost 36. Return/Lis 39. Return/\$10 40. Ave. Wt./M 41. Price Rec'c 42. Ave. Weight 43. Ave. Price, 44. No. Pigs To 46. Pounds of F 47. Ave. Number	Total Direct Costs Incl.		39,914	26.06	46.31
26. Act. Int 27. General 28. Utilitie 29. Power & 30. Livestoc 31. Building 32. Tota 33. Tota 34. Retu ********* 35. Total Cost 36. Return/Lis 39. Return/\$10 40. Ave. Wt./M 41. Price Rec'c 42. Ave. Weigh 43. Ave. Price 44. No. Pigs To 45. No. Pigs To 46. Pounds of F 47. Ave. Number	Return Over All Direct Co	osts	15,219	9.91	17.65
27. General 28. Utilitie 29. Power & 30. Livestoc 31. Building 32. Tota 33. Tota 34. Retu ********** 35. Total Cost 36. Return/Lis 39. Return/\$10 40. Ave. Wt./M 41. Price Rec'd 42. Ave. Weight 43. Ave. Price, 44. No. Pigs To 45. No. Pigs To 46. Pounds of F 47. Ave. Number	<u>located</u> <u>Costs</u>				
28. Utilitie 29. Power & 30. Livestoc 31. Building 32. Tota 33. Tota 34. Retu ********** 35. Total Cost 36. Return/Lis 39. Return/\$10 40. Ave. Wt./M 41. Price Rec'c 42. Ave. Weight 43. Ave. Price, 44. No. Pigs Pt 45. No. Pigs Tt 46. Pounds of F 47. Ave. Number	Act. Int. Paid Less Int. Ass	igned-:L20	1,329	0.87	1.54
29. Power & 30. Livestoc 31. Building 32. Tota 33. Tota 34. Return/Lis 35. Total Cost 36. Return/Lis 39. Return/\$100. Ave. Wt./MI Price Rec' 42. Ave. Weight 43. Ave. Price, 44. No. Pigs Total 6. Pounds of § 47. Ave. Number 47. Ave. Number 47.	General Hired Labor		571	0.37	0.66
30. Livestoc 31. Building 32. Tota 33. Tota 34. Return ********** 35. Total Cost 36. Return/Lis 39. Return/\$100 40. Ave. Wt./M 41. Price Rec'o 42. Ave. Weigh 43. Ave. Price, 44. No. Pigs Pt 45. No. Pigs Tt 46. Pounds of F 47. Ave. Number	Utilities & Miscellaneous		1,517	0.99	1.76
31. Building 32. Tota 33. Tota 34. Retu ********** 35. Total Cost 36. Return/Lis 39. Return/\$100 40. Ave. Wt./MI 41. Price Rec'c 42. Ave. Weight 43. Ave. Price, 44. No. Pigs Pu 45. No. Pigs To 46. Pounds of F 47. Ave. Number	Power & Machinery		766	0.50	0.89
32. Tota 33. Tota 34. Retu ********** 35. Total Cost 36. Return/Lis 39. Return/\$10 40. Ave. Wt./M 41. Price Rec'c 42. Ave. Weigh 43. Ave. Price 44. No. Pigs To 45. No. Pigs To 46. Pounds of F 47. Ave. Number	Livestock Equipment		1,406	0.92	1.63
33. Total 34. Retu ********* 35. Total Cost 36. Return/Lis 39. Return/\$10 40. Ave. Wt./M 41. Price Rec'c 42. Ave. Weigh 43. Ave. Price 44. No. Pigs Pt 45. No. Pigs Tt 46. Pounds of F 47. Ave. Number	Buildings & Fences		<u>1,637</u>	1.07	<u>1.90</u>
34. Retu ********* 35. Total Cost 36. Return/Lis 39. Return/\$100 40. Ave. Wt./M 41. Price Rec'd 42. Ave. Weight 43. Ave. Price 44. No. Pigs Po 45. No. Pigs To 46. Pounds of F 47. Ave. Number	Total Allocated Costs		<u>7,226</u>	<u>4.72</u>	<u>8.38</u>
********* 35. Total Cost 36. Return/Lis 39. Return/\$100 40. Ave. Wt./M 41. Price Rec'd 42. Ave. Weigh 43. Ave. Price, 44. No. Pigs Po 45. No. Pigs To 46. Pounds of 6 47. Ave. Number	Total Actual Listed Costs		47,140	30.78	54.69
35. Total Cost 36. Return/Lis 39. Return/\$100 40. Ave. Wt./MI 41. Price Rec'd 42. Ave. Weight 43. Ave. Price 44. No. Pigs Pounds of F 46. Pounds of F 47. Ave. Number	Return Over Actual Listed	Costs	7,993	5.19	9.27
36. Return/Lis 39. Return/\$100 40. Ave. Wt./MI 41. Price Rec'd 42. Ave. Weight 43. Ave. Price, 44. No. Pigs Pt 45. No. Pigs Tt 46. Pounds of F 47. Ave. Number	******************************	******************************			******
39. Return/\$100 40. Ave. Wt./MI 41. Price Rec'd 42. Ave. Weight 43. Ave. Price, 44. No. Pigs Po 45. No. Pigs To 46. Pounds of F 47. Ave. Number	tal Costs Adj. to 7% Min. Int		49,396	32.24	57.30
40. Ave. Wt./M 41. Price Rec'd 42. Ave. Weight 43. Ave. Price, 44. No. Pigs Pt 45. No. Pigs Tt 46. Pounds of F 47. Ave. Number	turn/listed 7% Opportunity Ir	iterest	5,737	3.73	6.66
41. Price Rec'd 42. Ave. Weigh 43. Ave. Price, 44. No. Pigs Po 45. No. Pigs To 46. Pounds of F 47. Ave. Number	e. Wt./Mkt. Hog Sold		153.01	•	
42. Ave. Weight43. Ave. Price44. No. Pigs Po45. No. Pigs To46. Pounds of Fo47. Ave. Number	ice Rec'd/Cwt. Mkt Hog		232.89		
43. Ave. Price,44. No. Pigs Pt45. No. Pigs Tt46. Pounds of Ft47. Ave. Number	e. Weight/Pig Purchased		44.54		
44. No. Pigs Pt45. No. Pigs Tt46. Pounds of t47. Ave. Number	e. Price/Pig Purchased		48.07		
45. No. Pigs Ti46. Pounds of F47. Ave. Number	_		40.18		
46. Pounds of F47. Ave. Number	Pigs Transferred Out/In		476		
47. Ave. Number	unds of Pork Purchased		391		
	. Number of Pigs on Hand		22,883		
48. Percent Dea	cent Death Loss		273.5		
	ective Daily Gain		3.41		
	ce/Cwt. Grain Mix Fed		1.53		
	ce/Cwt. Protein, Salt, Miner	als	6.49 16.17		
	ber of Pigs Produced	u., J	862		

	·		20 HIGH RETURN FARMS PER CWT.		NED CUT
1.	Production		378,741		
2.	Net Increase in Value: Hogs		48.09		247,809
3.	Other Miscellaneous Income		40.09		43.26
4.	<u>Total Value Produced</u>		48.09		0.01
	Feed Fed: Quantity & Cost	LBS/CWT	40.09	. DC lour	43.27
6.	Corn	251.43	10.14	LBS/CHT	
7.	Other Grain	1.31	10.14	278.11	11.02
8.	Complete Ration	9.82	0.09	3.66	0.38
9.	Protein, Salt, Mineral	72.76	2.82	29.42	2.54
ιο.	Total Grain Mix	335.32	11.27	100.38	<u>17.83</u>
11.	Forages	0.09	24.32	411.57	31.77
2.	Pasture	0.09	0.01		
3.	<u>Total Feed Cost</u>		-		
4.	Return Over Feed Costs		24.33		31.77
• • •	Other Direct Costs		23.76		11.50
6.					
7.	Veterinary		1.64		0.89
8.	Breeding				
	Miscellaneous		0.73		1.12
9.	Custom Work & Lease		2.74		0.24
0.	Special Hired Labor		0.81		1.57
Ι.	Assigned Interest				0.01
2.	Total Other Direct Costs		5.92		3.83
3.	<u>Total Direct Costs Incl. Feed</u>		30.25		35.60
4.	Return Over All Direct Costs		17.84		7.67
	Allocated Costs				7.07
7.	Act. Int. Paid Less Int. Assigned-L21		1.49		1.14
3.	General Hired Labor		1.09		0.20
9.	Utilities & Miscellaneous		1.95		0.90
).	Power & Machinery		1.29		0.91
l.	Livestock Equipment		1.46		
2.	Building & Fences		2.99		1.92
3.	Total Allocated Costs		10.27		1.62
١.	Total Actual Listed Costs		40.52		6.69
j.	Return Over Actual Listed Cost	<u>s</u>	7.57		42.29 0.98
	***********	******CIIDDI EME		,	
	**************************************	SOLLEGUE	MIAKI MANAGEMENT INFORMAT	100******	
	Return/Listed 7% Opportunity Interest		41.44		43.44
	Return/\$100 Feed Fed		6.65		-0.17
	Ave. Wt./Mkt. Hog Sold		197.59		136.24
	Price Rec'd/Cwt. Mkt. Hogs		232		223
	Total No. Litters Farrowed		46.15		46.91
	Litters/Sow/Year		215		139
	No. Pigs Born/Litter		2.05		1.88
			10.33		9.14
. 1	No. Pigs Wean/Litter		8.85		7.91
	lo. Pigs Produced/Sow/Year		16.90		13.72
. 1			12.15		8.69
. 1	litters/Crate/Year				
. 1 . (Pigs Weaned/Crate/Year		107.50		68.69
. h . l . f	Pigs Weaned/Crate/Year Ukt. Animal Death as % of Total Loss		107.50 2.51		68.69 4.98
. h . L . F . M	Pigs Weaned/Crate/Year Ukt. Animal Death as % of Total Loss Breeding Herd Death Loss				4.98
. N . (. P	Pigs Weaned/Crate/Year Ukt. Animal Death as % of Total Loss Breeding Herd Death Loss Price/Cwt. Grain Mix Fed		2.51		4.98 5.47
. M . C . M . B	Pigs Weaned/Crate/Year Ukt. Animal Death as % of Total Loss Breeding Herd Death Loss		2.51 2.13		4.98

TABLE 11A 6470A HOGS, FARROW, FINISH, GENERAL - 1989

AVERAGE OF 102 FARMS

	IADI	LE 11A 0470A HOGS, FARROW, FIRISH,	GENERAL - 1989	89 AVERAGE OF 102 FARMS		
2. Net Increase in value: Rogs 113,946 45.62 200.13 3. Other Hiscertaneous Income 13,955 45.62 200.19 Feed Feed: Quantity & Cost Instruction 13,955 45.62 200.19 Feed Feed: Quantity & Cost Instruction 12,11 442 0.18 3.13 3. Complete Ration 15.35 5.961 2.39 42,28 4. Complete Ration 15.35 5.961 2.39 42,28 5. Complete Ration 15.35 5.961 2.39 42,28 6. Protein, Salt, Minerals 95.86 34.862 13.96 247,25 7. Interpret General 15,35 46,36 27.31 485.06 8. Return Over Feed Costs 45,519 13,21 322.83 9. Protein Costs 15,35 13,38 13,21 322.83 9. Weter Inary 3,288 1,32 23,32 9. Weter Inary 3,288 1,32 23,32 10. Ustom Work & Losse 2,691 1,08 17.30 18. Hiscellaneous 2,433 0.98 17.30 19. Custom Work & Losse 2,691 1,08 19.09 19. Special Hirad Labor 2,185 0.87 15.50 19. Special Hirad Labor 2,185 0.87 15.50 19. Special Hirad Labor 4,11 26,33 21. Assigned Interest 4 0.63 22. Total Other Direct Costs 10,761 4,31 26,33 10.13 Direct Costs 10,761 4,31 26,33 10.13 Direct Costs 10,761 4,31 26,33 10.13 Direct Costs 3,758 13.90 246.50 **Allocated Costs 4,74 1,55 1,55 1,5 **Allocated Costs 4,74 1,57 1,62 10.97 28. General Hirad Labor 1,547 0.62 10.97 29. Utilities & Miscellaneous 3,823 1,53 27.11 30. Power & Machilerry 0,619 1,05 10.57 31. Livestock Equipment 3,862 1,55 27.39 32. General Hirad Labor 1,547 0.62 10.97 33. Total Other Direct Costs 1,69 1,09 1,05 10.57 34. Total Direct Costs 1,69 1,09 1,05 10.57 35. Return Over All Direct Costs 1,69 1,09 1,05 10.57 36. Feeder Costs 1,60 1,60 1,60 1,60 1,60 1,60 37. Total Other Direct Costs 1,60 1,60 1,60 1,60 1,60 38. Return Over All Direct Costs 1,60	,			TOTAL	PER CWT.	PER LITTER
2. Net Increase in Value: Hogs 13,946 45,62 808,13	1.	Production		249,756		1.771
1.0 1.0	2.	Net Increase in Value: Hogs			45.62	
Total Value Produced 113,955 45,62 808,19	3.	Other Miscellaneous Income				
Feed Feed: Quantity & Cost	4.	<u>Total Value Produced</u>		113,955	45.62	
7. Other Grain 2.31 42 0.18 3.13 8. Complete Ration 15.35 5,561 2.39 42.28 9. Protein, Salt, Hinerals 95.58 34.962 13.96 227.25 10. Total Grain Miz 305.38 68.394 27.39 405.06 11. Forages 0.56 42 0.02 0.30 12. Pasture 8 66,436 27.41 465.36 14. Return Over Feed Costs 45,519 18.21 322.03 15. Veterinary 3,288 1,32 23.32 17. Breeding 154 0.06 1.09 18. Hiscellaneous 2,439 0.99 17.30 19. Custom Work & Lease 2,691 1.08 19.09 21. Assigned Interest 4 0.07 15.50 22. Total Other Direct Costs 10,761 4.31 76.33 23. Guidel Direct Costs Incl. Feed 79,197 31.72 561.09 24. Total Other Direct Costs Incl. Feed 79,197 31.72 561.09		Feed Fed: Quantity & Cost	LBS/CWT			
Complete Ration 15.35 5.961 2.39 42.20 Protein, Salt, Minerals 95.68 34.862 11.96 247.25 Iotal Grain Mix 385.88 68.394 27.39 405.06 Forages 0.56 42 0.02 0.30 Forages 0.56 42 0.02 0.30 Pature	6.	Corn	272.14	27,129	10.86	192.40
Protein, Self., Minerals 95.58 34.862 11.96 247.25	7.	Other Grain	2.31	442	0.18	3.13
	8.	Complete Ration	15.35	5,961	2.39	42.28
10.	9.	Protein, Salt, Minerals	<u>95.58</u>	34,862	13.96	247.25
Pasture	10.	<u>Total Grain Mix</u>	385.38	68,394		
13.	11.	Forages	0.56	42	0.02	0.30
Return Over Feed Costs 15,19	12.	Pasture				
Other Direct Costs	13.	<u>Total Feed Cost</u>		68,436	27.41	485.36
16. Weterinary 3.288 1.32 23.32 17. Breeding 154 0.06 1.09 18. Hiscellaneous 2,439 0.98 17.30 19. Custom Work & Lease 2,691 1.08 19.09 20. Special Hired Labor 2,185 0.87 15.50 21. Assigned Interest 4 0.03 22. Total Other Direct Costs 10,761 4.31 25.33 23. Iotal Direct Costs Incl. Feed 79,197 31.72 561.69 24. Return Over All Direct Costs 34,756 31.90 246.50 27. Act. Int. Paid Less Int. Assigned-121 3.624 1.45 25.70 28. General Hired Labor 1,547 0.62 10.97 29. Utilities & Miscellaneous 3.823 1.53 27.11 29. Utilities & Miscellaneous 3.823 1.53 27.11 20. Power & Machinery 2,619 1.05 18.57 21. Livestock Equipment 3,862 1.55 27.39 22. Building & Fences 5.206 2.08 36.92 23. Total Altual Listed Costs 29,878 40.00 708.35 24. Total Actual Listed Costs 99,878 40.00 708.35 25. Return Over Actual Listed Costs 11.699 4.68 82.97 26. Return/Stop Feed Fed 166.51 27. Act. No. Hit. Hogs 45.74 27. Act. Stop Mean 1.96 4.94 7.25.22 28. Return/Listed 75 Opportunity Interest 11.699 4.68 82.97 29. Price Rec'd/Cnt. Mrt. Hogs 45.74 40. Return/Stop Feed Fed 1.96 4.94 7.25.22 41. Ave. Nt. /Mkt. Hogs 45.74 42. Litters/Sow/Year 1.96 4.94 4.94 43. Total No. Litters Farrowed 1.41 4.97 4.97 4.97 44. Litters/Sow/Year 1.96 4.94 4.97 4.97 4.97 45. No. Pigs Bean/Litter 9.78 4.94 4.97 4.9	14.	Return Over Feed Costs		45,519	18.21	322.83
17. Breeding		Other Direct Costs			•	
Hiscellaneous	16.	Veterinary		3,288	1.32	23.32
Custom Mork & Lease 2,691 1.08 19.09 Special Hirred Labor 2,185 0.87 15.50 Assigned Interest 4 0.03 Total Other Direct Costs 10,761 4.31 76,33 Total Direct Costs 10,761 4.31 76,33 Return Over All Direct Costs 34,758 13.90 246.50 Return Over All Direct Costs 34,758 13.90 246.50 Allocated Costs 79,197 31.72 561.69 Return Over All Direct Costs 34,758 13.90 246.50 Allocated Costs 79,197 31.72 561.69 Return Over All Direct Costs 34,758 13.90 246.50 Allocated Costs 79,197 71.75 71.75 71.75 Ceneral Hired Labor 1,547 0.62 10.97 Ultities & Miscellaneous 3,823 1.53 27.11 Opener & Machinery 2,619 1.05 18.57 Livestock Equipment 3,862 1.55 27.39 Building & Fences 5,206 2.08 36.92 Building & Fences 5,206 2.08 36.92 Building & Fences 5,206 2.08 36.92 Total Allocated Costs 99,878 40.00 708.35 Return Over Actual Listed Costs 99,878 40.00 708.35 Return/Listed 7% Opportunity Interest 11,699 4.68 82.97 Return/Listed 7% Opportunity Interest 11,699 4.68 82.97 Return/Listed 7% Opportunity Interest 11,699 4.68 82.97 Price Rec'd/Cwt. Mkt. Hogs 45,74 Otal No. Litters Farrowed 141 Litters/Cown/Year 1.96 Litters/Sow/Year 1.96 Litters/Sow/Year 1.96 No. Pigs Born/Litter 9,78 Litters/Contect/Year 10.24 Pigs Weaned/Crate/Year 15.00 Return Death as \$ of Total Loss 3.99 Pigs Weaned/Crate/Year 86.43 Return Gott Animal Death as \$ of Total Loss 3.99 Pigs Weaned/Crate/Year 10.24 Pigs Weaned/Crate/	17.	5		154	0.06	1.09
Special Hired Labor		Miscellaneous		2,439	0.98	17.30
Assigned Interest		Custom Work & Lease		2,691	1.08	19.09
22. Total Other Direct Costs 10,761 4.31 76,33 23. Total Direct Costs Incl. Feed 79,197 31,72 561,69 24. Return Over All Direct Costs 34,758 13,90 246,50 Allocated Costs 27. Act. Int. Paid Less Int. Assigned-L21 3,624 1,45 25,70 28. General Hired Labor 1,547 0,62 10,97 29. Utilities & Miscellaneous 3,823 1,53 27,11 30. Power & Machinery 2,619 1,05 18,57 31. Livestock Equipment 3,862 1,55 27,39 32. Building & Fences 5,206 2,08 36,92 33. Total Actual Listed Costs 99,878 40,00 708,35 35. Return Over Actual Listed Costs 14,077 5,62 99,84 ***********************************		Special Hired Labor		2,185	0.87	15.50
23.		Assigned Interest		4		0.03
Return Over All Direct Costs 34,758 13.90 246.50		Total Other Direct Costs		<u>10,761</u>	4.31	<u>76.33</u>
Allocated Costs	23.	<u> Total Direct Costs In</u>	<u>cl. Feed</u>	79,197	31.72	561.69
27. Act. Int. Paid Less Int. Assigned-L21 3,624 1.45 25.70 28. General Hired Labor 1,547 0.62 10.97 29. Utilities & Miscellaneous 3,823 1.53 27.11 30. Power & Machinery 2,619 1.05 18.57 31. Livestock Equipment 3,862 1.55 27.39 32. Building & Fences 5,206 2.08 36.92 33. Total Atlocated Costs 99.878 40.00 708.35 34. Total Actual Listed Costs 14.077 5.02 99.84 35. Return Over Actual Listed Costs 14.077 5.02 99.84 36. Total Costs Adj. to 7% Min. Int. 102,256 40.94 725.22 38. Return/Listed 7% Opportuni.y Interest 11,699 4.68 82.97 40. Return/S100 Feed Fed 166.51 44.0 44.0 44.0 44.0 42. Price Rec'd/Cwt. Mkt. Hogs 45.74 45.0 45.74 45.7 46.0 46.0 46.0 46.0 46.0 46.0 46.0	24.		t Costs	34,758	13.90	246.50
28. General Hired Labor 1,547 0.62 10.97 29. Utilities & Miscellaneous 3,823 1.53 27.11 30. Power & Machinery 2,619 1.05 18.57 31. Livestock Equipment 3,862 1.55 27.39 32. Building & Fences 5,206 2.08 36.92 33. Total Allocated Costs 20,681 8.28 146.66 34. Total Actual Listed Costs 99,878 40.00 708.35 35. Return Over Actual Listed Costs 14,077 5.62 99.84 ************************************						
29. Utilities & Miscellaneous 3,823 1.53 27.11 30. Power & Machinery 2,619 1.05 18.57 31. Livestock Equipment 3,862 1.55 27.39 32. Building & Fences 5,206 2.08 36.92 33. Total Allocated Costs 20,681 8.28 146.66 34. Total Actual Listed Costs 99,878 40.00 708.35 35. Return Over Actual Listed Costs 14,077 5.62 99.84 ***********************************		_	ned-L21	3,624		25.70
30. Power & Machinery 2,619 1.05 18.57 31. Livestock Equipment 3,862 1.55 27.39 32. Building & Fences 5,206 2.08 36.92 33. Total Allocated Costs 20,681 8.28 146.66 34. Total Actual Listed Costs 99,878 40.00 708.35 35. Return Over Actual Listed Costs 14,077 5.62 99.84 ***********************************				1,547	0.62	10.97
1. Livestock Equipment 3,862 1.55 27.39 32. Building & Fences 5.206 2.08 36.92 33. Total Allocated Costs 20,681 8.28 146.66 34. Total Actual Listed Costs 99,878 40.00 708.35 35. Return Over Actual Listed Costs 14.077 5.62 99.84				3,823	1.53	27.11
32. Building & Fences 5,206 2.08 36.92 33. Total Allocated Costs 20,681 8.28 146.66 34. Total Actual Listed Costs 99,878 40.00 708.35 35. Return Over Actual Listed Costs 14.077 5.62 99.84 ***********************************				2,619	1.05	18.57
33. Total Allocated Costs		• •		3,862	1.55	27.39
34. Total Actual Listed Costs 99,878 40.00 708.35 35. Return Over Actual Listed Costs 14.077 5.62 99.84 ***********************************		_		<u>5,206</u>	2.08	<u>36.92</u>
35. Return Over Actual Listed Costs 14,077 5.62 99.84 ***********************************				<u>20,681</u>	<u>8.28</u>	<u>146.66</u>
**************************************					40.00	708.35
36. Total Costs Adj. to 7% Min. Int. 102,256 40.94 725.22 38. Return/Listed 7% Opportunicy Interest 11,699 4.68 82.97 40. Return/\$100 Feed Fed 166.51 41. Ave. Wt./Mkt. Hog Sold 229 42. Price Rec'd/Cwt. Mkt. Hogs 45.74 43. Total No. Litters Farrowed 141 44. Litters/Sow/Year 1.96 45. No. Pigs Born/Litter 9.78 46. No. Pigs Wean/Litter 8.44 47. No. Pigs Produced/Sow/Year 15.00 48. Litters/Crate/Year 10.24 49. Pigs Weaned/Crate/Year 86.43 50. Mkt. Animal Death as % of Total Loss 3.99 51. Breeding Herd Death Loss 5.13 52. Price Cwt./Grain Mix Fed	35.	<u>Return Over Actual Li</u>	sted <u>Costs</u>	14.077	5.62	99.84
38. Return/Listed 7% Opportunicy Interest 11,699 4.68 82.97 40. Return/\$100 Feed Fed 166.51 41. Ave. Wt./Mkt. Hog Sold 229 42. Price Rec'd/Cwt. Mkt. Hogs 45.74 43. Total No. Litters Farrowed 141 44. Litters/Sow/Year 1.96 45. No. Pigs Born/Litter 9.78 46. No. Pigs Wean/Litter 8.44 47. No. Pigs Produced/Sow/Year 15.00 48. Litters/Crate/Year 10.24 49. Pigs Weaned/Crate/Year 86.43 50. Mkt. Animal Death as % of Total Loss 3.99 51. Breeding Herd Death Loss 5.13 52. Price Cwt./Grain Mix Fed 7.11		**********	***********SUPPLE	MENTARY MANAGEMENT	INFORMATION****	********
40. Return/\$100 Feed Fed 166.51 41. Ave. Wt./Mkt. Hog Sold 229 42. Price Rec'd/Cwt. Mkt. Hogs 45.74 43. Total No. Litters Farrowed 141 44. Litters/Sow/Year 1.96 45. No. Pigs Born/Litter 9.78 46. No. Pigs Wean/Litter 8.44 47. No. Pigs Produced/Sow/Year 15.00 48. Litters/Crate/Year 10.24 49. Pigs Weaned/Crate/Year 86.43 50. Mkt. Animal Death as % of Total Loss 3.99 51. Breeding Herd Death Loss 5.13 52. Price Cwt./Grain Mix Fed 7.11	36.	Total Costs Adj. to 7% Min. Int.		102,256	40.94	725.22
41. Ave. Wt./Mkt. Hog Sold 229 42. Price Rec'd/Cwt. Mkt. Hogs 45.74 43. Total No. Litters Farrowed 141 44. Litters/Sow/Year 1.96 45. No. Pigs Born/Litter 9.78 46. No. Pigs Wean/Litter 8.44 47. No. Pigs Produced/Sow/Year 15.00 48. Litters/Crate/Year 10.24 49. Pigs Weaned/Crate/Year 86.43 50. Mkt. Animal Death as % of Total Loss 3.99 51. Breeding Herd Death Loss 5.13 52. Price Cwt./Grain Mix Fed 7.11	38.	, ,	erest	11,699	4.68	82.97
42. Price Rec'd/Cwt. Mkt. Hogs 43. Total No. Litters Farrowed 44. Litters/Sow/Year 46. No. Pigs Born/Litter 47. No. Pigs Wean/Litter 48. Litters/Crate/Year 49. Pigs Weaned/Crate/Year	40.			166.51		
43. Total No. Litters Farrowed 44. Litters/Sow/Year 45. No. Pigs Born/Litter 46. No. Pigs Wean/Litter 47. No. Pigs Produced/Sow/Year 48. Litters/Crate/Year 49. Pigs Weaned/Crate/Year 49. Pigs Weaned/Crate/Year 49. Mkt. Animal Death as % of Total Loss 48. Animal Death as % of Total Loss 48. Breeding Herd Death Loss 49. Price Cwt./Grain Mix Fed 49. Price Cwt./Grain Mix Fed 49. Price Cwt./Grain Mix Fed	41.	Ave. Wt./Mkt. Hog Sold		229		
44. Litters/Sow/Year 45. No. Pigs Born/Litter 46. No. Pigs Wean/Litter 47. No. Pigs Produced/Sow/Year 48. Litters/Crate/Year 49. Pigs Weaned/Crate/Year 49. Pigs Weaned/Crate/Year 50. Mkt. Animal Death as % of Total Loss 51. Breeding Herd Death Loss 52. Price Cwt./Grain Mix Fed 1.96 8.44 10.24 86.43 7.11	42.	Price Rec'd/Cwt. Mkt. Hogs		45.74		
45. No. Pigs Born/Litter 9.78 46. No. Pigs Wean/Litter 8.44 47. No. Pigs Produced/Sow/Year 15.00 48. Litters/Crate/Year 10.24 49. Pigs Weaned/Crate/Year 86.43 50. Mkt. Animal Death as % of Total Loss 3.99 51. Breeding Herd Death Loss 5.13 52. Price Cwt./Grain Mix Fed 7.11	43.	Total No. Litters Farrowed		141		
46. No. Pigs Wean/Litter 8.44 47. No. Pigs Produced/Sow/Year 15.00 48. Litters/Crate/Year 10.24 49. Pigs Weaned/Crate/Year 86.43 50. Mkt. Animal Death as % of Total Loss 3.99 51. Breeding Herd Death Loss 5.13 52. Price Cwt./Grain Mix Fed 7.11	44.	• •		1.96		
47. No. Pigs Produced/Sow/Year 15.00 48. Litters/Crate/Year 10.24 49. Pigs Weaned/Crate/Year 86.43 50. Mkt. Animal Death as % of Total Loss 3.99 51. Breeding Herd Death Loss 5.13 52. Price Cwt./Grain Mix Fed 7.11	45.	No. Pigs Born/Litter		9.78		
48. Litters/Crate/Year 10.24 49. Pigs Weaned/Crate/Year 86.43 50. Mkt. Animal Death as % of Total Loss 3.99 51. Breeding Herd Death Loss 5.13 52. Price Cwt./Grain Mix Fed 7.11	46.	No. Pigs Wean/Litter		8.44		
49. Pigs Weaned/Crate/Year 50. Mkt. Animal Death as % of Total Loss 51. Breeding Herd Death Loss 52. Price Cwt./Grain Mix Fed 53. Price Cwt./Grain Mix Fed 54. 86.43 55. Price Cwt./Grain Mix Fed 56. 43 57. 11	47.			15.00		
50. Mkt. Animal Death as % of Total Loss 3.99 51. Breeding Herd Death Loss 5.13 52. Price Cwt./Grain Mix Fed 7.11	48.	Litters/Crate/Year		10.24		
51. Breeding Herd Death Loss 5.13 52. Price Cwt./Grain Mix Fed 7.11	49.	Pigs Weaned/Crate/Year		86.43		
52. Price Cwt./Grain Mix Fed 7.11	50.	Mkt. Animal Death as % of Total L	.0\$\$	3.99		
	51.	=		5.13		
53. Price/Cwt. Protein, Salt, Min. 14.60	52.			7.11		
	53.	Price/Cwt. Protein, Salt, Min.		14.60		
54. Total Death Loss Percent 14.37	54.	Total Death Loss Percent		14.37		

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.

Since feed is the largest single item of cost for all classes of livestock, return over feed costs have 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.

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

TABLE 10 - CROP DATA FOR SET ASIDE, OAT SILAGE, & CRP LAND - 1989

		SET ASIDE 659	OAT SILAGE 20	CRP LAND 11
			ALL VALUES PER ACF	<u>RE</u>
1.	*** Total Value Produced \$ ***	5,684	1,532	7,681
2.	*** Total Production ***	4,525	102	6,290
3.	*** Total Acres ***	16.0	17.0	111.7
4.	Yield Per Acre	282.8	6.0	56.3
5.	Value Per Unit	1.00	14.28	1.00
6.	Crop Production Return	288.25	85.71	58.69
7.	Other Crop Income	<u>67.00</u>	4.41	10.07
8.	<u>Total</u> <u>Crop</u> <u>Return</u>	355.25	90.12	68.76
	<u>Variable Costs</u>			
0.	Fertilizer	0.31	3.00	0.49
1.	Chemicals	2.00	0.94	1.04
2.	Seed Expense	4.69	18.59	2.95
3.	Crop Drying			
4.	Crop Insurance			
5.	Other Expense	0.38	0.18	0.20
6.	Special Hired Labor	0.25	0.18	
7.	Custom Work Hired Expense	1.38	1.53	
8.	Irrigation Operation			
9.	Assigned Interest			
0.	<u>Total Variable Costs</u>	9.00	24.41	4.67
1.	Return Over Variable Costs	346.25	65.71	64.09
	Allocated Costs (Variable and Fixed)			
1.	Farm Power & Machinery - Ownerships	5.69	7.59	2.56
2.	Farm Power & Machinery - Operation	11.00	20.35	1.96
3.	Building & Fence Cost	2.81	4.41	0.98
4.	Irrigation Ownership Cost			
7.	Actual Land Ownership Cost or Rent	67.11	52.15	20.88
8.	Utilities & General Farm Expense	3.50	5.12	2.49
9.	Hired Labor	1.31	1.24	0.39
ı.	Actual Non-Real Estate Int. Allocated	<u>5.19</u>	12.24	0.76
2.	Total Allocated Costs	96.61	103.10	30.02
3.	Total Listed Costs	105.63	127.53	34.69
4.	Return Over Listed Costs	249.62	-37.41	34.07
	**************************************	TARY MANAGEMENT INFORMATI	0N******	********
0.	Land Opportunity Ownership Cost	72.38	84.28	43.51
1.	Total Cost Adj. to a Min. 7% Interest	109.75	155.24	58.68
2.	Work Units Assigned/Acre	0.20	0.40	0.05
3.	Power Cost Allocation Factor	1.00	1.00	1.00
4.	Total Listed Cost/Unit of Production	0.37	21.26	0.62
5.	Total Adjusted Cost/Unit of Production	0.39	25.87	1.04
6.	Cash Variable Cost/Unit of Production	0.11	10.56	0.18
7.	Return Over Listed Costs Per Unit	0.88	-6.24	0.61
8.	Breakeven Yield/Unit of Production	103.6	8.9	33.4
9.	Total Acre Inches Water Applied		-	
0.	Cost of Irrigation Excluding Interest			
l.	Average Price Received/Unit Sold			
	Quantity Sold (0.S.)			

TABLE 10 - CROP DATA FOR CANNING PEAS, CANNING CORN, & SUGARBEETS - 1989

		CANNING PEAS 15	CANNING CORN 15	SUGAR BEETS 10
		<u>AL</u>	L VALUES PER ACRE	
1.	*** Total Value Produced \$ ***	4,082	10,433	159,813
2.	*** Total Production ***	3,905	9,988	3,818
3.	*** Total Acres ***	24.1	38.2	189.0
4.	Yield Per Acre	162.0	261.5	20.2
5.	Value Per Unit	1.00	1.00	41.86
6.	Crop Production Return	162.03	273.12	845.57
7.	Other Crop Income	<u>7.34</u>		013.37
8.	<u>Total Crop Return</u>	169.37	273.12	845.57
	<u>Variable</u> <u>Costs</u>			
10.	Fertilizer	11.33	36.81	25.74
11.	Chemicals	8.46	17.12	65.27
12.	Seed Expense	3.24	1.81	33.27
13.	Crop Drying			5512,
14.	Crop Insurance	11.16	6.65	8.46
15.	Other Expense	0.17		3.97
16.	Special Hired Labor			46.36
17.	Custom Work Hired Expense	3.44	0.26	8.99
18.	Irrigation Operation			
19.	Assigned Interest			
20.	<u>Total Variable Costs</u>	37.80	62.64	192.06
21.	Return Over Variable Costs	131.57	210.48	568.22
	Allocated Costs (Variable and Fixed)			
31.	Farm Power & Machinery - Ownerships	14.56	15.52	25.60
32.	Farm Power & Machinery - Operation	12.12	26.41	73.10
33.	Building & Fence Cost	3.49	5.97	10.61
34.	Irrigation Ownership Cost			20.02
37.	Actual Land Ownership Cost or Rent	67.72	75.12	69.81
38.	Utilities & General Farm Expense	8.38	7.09	30.07
39.	Hired Labor	1.99	4.06	36.90
11.	Actual Non-Real Estate Int. Allocated	12.12	14.01	<u>55.88</u>
12.	<u>Total</u> <u>Allocated</u> <u>Costs</u>	120.38	148.18	301.97
13.	Total Listed Costs	158.17	210.84	494.01
14.	<u>Return Over Listed Costs</u>	11.20	62 28	364 40
	**************************************	MANAGEMENT INFORMATION	******	*******
υ.	Land Opportunity Ownership Cost	96.20	87.73	63.76
i1.	Total Cost Adj. to a Min. 7% Interest	181.62	218.66	457.21
2.	Work Units Assigned/Acre	0.40	0.50	2.00
3.	Power Cost Allocation Factor	1.00	1.00	1.00
4.	Total Listed Cost/Unit of Production	0.98	0.81	24.46
5.	Total Adjusted Cost/Unit of Production	1.12	0.84	22.63
6.	Cash Variable Cost/Unit of Production	0.45	0.44	9.51
7.	Return Over Listed Costs Per Unit	0.07	0.24	17.55
8.	Breakeven Yield/Unit of Production	158.2	202.7	11.80
9.	Total Acre Inches Water Applied			
0.	Cost of Irrigation Excluding Interest			
1.	Average Price Received/Unit Sold			
2.	Quantity Sold (0.S.)			

		AVERAGE 99	HIGH 19	LOW 19	
			ALL VALUES PER	<u>ACRE</u>	
1.	*** Total Value Produced \$ ***	7,320	11,910	6,054	
2.	*** Total Production ***	420	685	342	
3.	*** Total Acres ***	26.4	31.6	31.9	
4.	Yield Per Acre	15.9	21.7	10.7	
5.	Value Per Unit	17.43	17.39	17.70	
6.	Crop Production Return	277.27	376.90	189.78	
7.	Other Crop Income				
8.	Total Crop Return	277.27	376.90	189.78	
	<u>Variable</u> <u>Costs</u>				
10.	Fertilizer	31.63	38.54	28.28	
11.	Chemicals	17.92	19.21	17.24	
12.	Seed Expense	20.61	21.65	20.13	
13.	Crop Drying				
14.	Crop Insurance	2.69	2.63	1.25	
15.	Other Expense	1.33	0.03	2.54	
16.	Special Hired Labor	0.30	0.22		
17.	Custom Work Hired Expense	2.27	1.52	1.19	
.81	Irrigation Operation				
19.	Assigned Interest	47 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Name of the last o	
20.	<u>Total</u> <u>Variable</u> <u>Costs</u>	76.74	83.80	70.63	
21.	Return Over Variable Costs	200.53	293.10	119.15	
	Allocated Costs (Variable and Fixed)				
31.	Farm Power & Machinery - Ownerships	13.07	13.58	6.08	
32.	Farm Power & Machinery - Operation	34.43	38.61	36.18	
33.	Building & Fence Cost	5.49	9.75	3.70	
34.	Irrigation Ownership Cost				
37.	Actual Land Ownership Cost	58.37	66.47	55.93	
38.	Utilities & General Farm Expense	9.17	17.69	6.68	
39.	Hired Labor	5.08	10.35	5.92	
41.	Actual Non-Real Estate Int. Allocated	<u>16.40</u>	20.73	<u>17.02</u>	
42.	Total Allocated Costs	142.01	177.18	131.51	
43.	Total Listed Costs	218.75	260.95	202.13	
44.	<u>Return Over Listed Costs</u>	58.52	115.95	-12.35	
	**************************************	Y MANAGEMENT INFORMAT	10N******	******	*****
50.	Land Opportunity Ownership Cost	81.99	82.77	81.56	
51.	Total Cost Adj. to a Min. 7% Interest	237.65	268.26	282.85	
52.	Work Units Assigned/Acre	0.60	0.60	0.60	
53.	Power Cost Allocation Factor	1.00	1.00	1.00	
54.	Total Adicated Cost/Unit of Production	13.76	12.03	18.89	
55.	Total Adjusted Cost/Unit of Production	14.94	12.38	26.38	
56.	Cash Variable Cost/Unit of Production	8.92	7.89	12.75	
57.	Return Over Listed Costs Per Unit	3.68	5.34	-1.15	
58.	Breakeven Yield/Unit of Production	12.6	15.0	11.4	
59.	Total Acre Inches Water Applied				
50.	Cost of Irrigation Excluding Interest				
51.	Average Price Received/Unit Sold	7.50		20.18	
52.	Quantity Sold (0.S.)	719		22	

	AVERAGE 225	HIGH 45	L0W 45	
		TJ	7J	
		ALL VALUES PER I	<u>ACRE</u>	
*** Total Value Produced \$ ***	3,916	7,191	1,664	
*** Total Production ***	54	101	22	
*** Total Acres ***	23.2	23.2	25.2	
Yield Per Acre	2.3	4.4	0.9	
Value Per Unit	72.09	71.19	71.82	
Crop Production Return	167.80	309.91	62.70	
Other Crop Income	<u>0.99</u>	0.04	3.33	
<u>Total Crop Return</u>	168.79	309.95	66.03	
<u>Variable Costs</u>				
Fertilizer	15.34	25.09	9.88	
Chemicals	1.29	1.42	1.47	
Seed Expense	6.81	8.41	3.69	
Crop Drying				
Crop Insurance				
Other Expense	2.24	2.03	1.79	
Special Hired Labor	0.65	0.82	0.48	
Custom Work Hired Expense	3.36	5.09	0.56	
Irrigation Operation				
Assigned Interest	April 16 Automotive Control		•	
<u>Total</u> <u>Variable</u> <u>Costs</u>	29.70	42.84	17.86	
Return Over Variable Costs	139.09	267.11	48.17	
Allocated Costs (Variable and Fixed)				
Farm Power & Machinery - Ownerships	13.75	18.06	9.21	
Farm Power & Machinery - Operation	34.40	33.79	33.10	
Building & Fence Cost	5.26	5.43	3.49	
Irrigation Ownership Cost				
Actual Land Ownership Cost	52.96	60.19	40.67	
Utilities & General Farm Expense	8.23	9.27	8.02	
Hired Labor	3.53	1.77	3.10	
Actual Non-Real Estate Int. Allocated	<u>14.70</u>	<u> 15.65</u>	<u>13.53</u>	
<u>Total</u> <u>Allocated</u> <u>Costs</u>	132.83	144.16	111.12	
Total Listed Costs	162.54	187.03	128.97	
Return Over Listed Costs	6.25	122.92	-62.94	
				* * * * * * *
	2.3	2.6	1.8	
. ,				
	<u> </u>			
quantity 5010 (0.5.)	14	3	7	
	*** Total Value Produced \$ *** *** Total Production *** *** Total Acres *** Yield Per Acre Value Per Unit Crop Production Return Other Crop Income	*** Total Value Produced \$ ***	Mathematical Math	Mathematical Producted Mathematical Produc

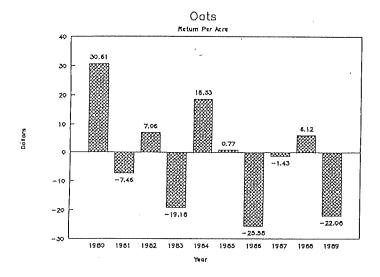
		AVERAGE 809	HIGH 161	L.OW 161	
		<u>Al</u>	L VALUES PER A	<u>CRE</u>	
1.	*** Total Value Produced \$ ***	23,978	28,886	13,156	
2.	*** Total Production ***	4,523			
3.	*** Total Acres ***		5,440	2,478	
		110.3	111.3	82.6	
4.	Yield Per Acre	41.0	48.9	30.0	
5.	Value Per Unit	5.28	5.29	5.30	
6.	Crop Production Return	216.60	258.48	158.96	
7.	Other Crop Income	<u>0.79</u>	<u>1.05</u>	0.31	
8.	Total Crop Return	217.39	259.53	159.27	
	<u>Variable</u> <u>Costs</u>				
10.	Fertilizer	2.03	3.02	1.15	
11.	Chemicals	18.14	18.34	17.26	
12.	Seed Expense	11.53	11.21	10.86	
13.	Crop Drying				
14.	Crop Insurance	8.89	10.43	5.31	
15.	Other Expense	0.71	0.78	0.74	
16.	Special Hired Labor	0.98	1.12	0.41	
17.	Custom Work Hired Expense	2.68	2.21		
18.	Irrigation Operation	2.00	2.21	1.17	
19.	Assigned Interest	0.03		0.04	
	-	0.03		0.04	
20.	Total Variable Costs	44.99	47.11	36.95	
21.	Return Over Variable Costs	172.40	212.42	122.32	
	Allocated Costs (Variable and Fixed)				
31.	Farm Power & Machinery - Ownerships	12 07	15 69	10.02	
32.	Farm Power & Machinery - Operation	12.87	15.62	10.93	
33.		23.91	23.35	22.47	
	Building & Fence Cost	6.40	12.44	3.93	
34.	Irrigation Ownership Cost				
37.	Actual Land Ownership Cost	68.77	70.40	50.95	
38.	Utilities & General Farm Expense	8.09	9.49	9.67	
39.	Hired Labor	2.96	3.81	2.47	
41.	Actual Non-Real Estate Int. Allocated	<u>11.19</u>	<u>13.22</u>	9.16	
42.	<u>Total</u> <u>Allocated</u> <u>Costs</u>	134.19	148.33	109.58	
43.	Total Listed Costs	179.17	195.44	146.55	
44.	Return Over Listed Costs	38.22	64.09	12.72	
	**************************************	ITARY MANAGEMENT INFORMATI	ON*******	******	****
50.	Land Opportunity Ownership Cost	74.98	88.36	59.18	
51.	Total Cost Adj. to a Min. 7% Interest	183.25	210.54	154.04	
52.	Work Units Assigned/Acre	0.45	0.45	0.45	
53.	Power Cost Allocation Factor	1.00	1.00	1.00	
54.	Total Listed Cost/Unit of Production	4.37	4.00	4.89	
55.	Total Adjusted Cost/Unit of Production	4.47	4.31	5.13	
56.	Cash Variable Cost/Unit of Production	2.22	1.98	2.69	
57.	Return Over Listed Costs Per Unit	0.93			
58.	Breakeven Yield/Unit of Production		1.31	0.42	
		33.9	36.9	27.7	
59.	Total Acre Inches Water Applied				
60.	Cost of Irrigation Excluding Interest				
61.	Average Price Received/Unit Sold	6.28	6.45	6.08	
62.	Quantity Sold (0.S.)	2,650	3,252	1,925	

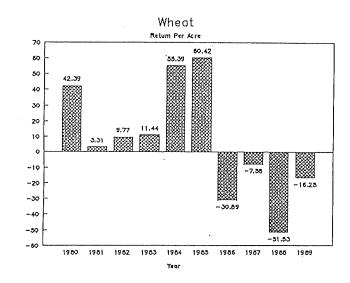
		AVERAGE 860	HTGH 172	LOW 172	
	·································		<u>LL VALUES PER A</u>	<u> </u>	
1.	*** Total Value Produced \$ ***	29,985	37,211	18,474	
2.	*** Total Production ***	14,598	18,127	8,845	
3.	*** Total Acres ***	111.0	116.3	89.7	
4.	Yield Per Acre	131.5	155.9	98.6	
5.	Value Per Unit	2.05	2.05	2.07	
6.	Crop Production Return	269.46	319.64	204.45	
7.	Other Crop Income	0.68	0.32	1.51	
8.	Total Crop Return	270.14	319.96	205.96	
	<u>Variable Costs</u>				
10.	Fertilizer	38.11	42.89	30.71	
11.	Chemicals	19.25	19.88	17.01	
12.	Seed Expense	22.38	23.39	19.74	
13.	Crop Drying	3.98	4.25	2.87	
14.	Crop Insurance	4.79	4.98	4.48	
15.	Other Expense	1.01	1.72	0.39	
16.	Special Hired Labor	0.41	0.63	0.18	
17.	Custom Work Hired Expense	3.59	6.19	1.91	
18.	Irrigation Operation				
19.	Assigned Interest	0.02			
20.	<u>Total</u> <u>Variable</u> <u>Costs</u>	93.55	103.92	77.29	
21.	Return Over Variable Costs	176.59	216.04	128.67	
	Allocated Costs (Variable and Fixed)				
31.	Farm Power & Machinery - Ownerships	14.93	17.31	13.75	
32.	Farm Power & Machinery - Operation	29.23	29.66	28.71	
33.	Building & Fence Cost	7.19	10.95	3.49	
34.	Irrigation Ownership Cost				
37.	Actual Land Ownership Cost	67.67	66.99	51.34	
38.	Utilities & General Farm Expense	9.55	10.64	7.98	
39.	Hired Labor	3.40	4.33	2.65	
41.	Actual Non-Real Estate Int. Allocated	<u>13.78</u>	<u>13.62</u>	<u>10.86</u>	
42.	Total Allocated Costs	145.75	153.50	118.78	
43.	Total Listed Costs	239.29	257.42	196.06	
44.	Return Over Listed Costs ***********************************	30.85 TTARY MANAGEMENT INFORMAT	62.54 ION******	9.90 ******	****
50.	Land Opportunity Ownership Cost	72.59	80.68	59.35	
51.	Total Cost Adj. to a Min. 7% Interest	241.66	269.79	203.60	
52.	Work Units Assigned/Acre	0.55	0.55	0.55	
53.	Power Cost Allocation Factor	1.00	1.00	1.00	
54.	Total Listed Cost/Unit of Production	1.82	1.65	1.99	
55.	Total Adjusted Cost/Unit of Production	1.84	1.73	2.06	
56.	Cash Variable Cost/Unit of Production	1.14	1.04	1.29	
57.	Return Over Listed Costs Per Unit	0.23	0.40	0.10	
58.	Breakeven Yield/Unit of Production	116.7	125.6	94.7	
59.	Total Acre Inches Water Applied	110.1	163.0	J*1+7	
60.	Cost of Irrigation Excluding Interest				
61.	Average Price Received/Unit Sold	2.19	2.30	2.04	
62.	Quantity Sold (0.S.)	5,806	7,826		
- ·	122.2.2.2.2014 (0121)	5,000	7,020	3,292	

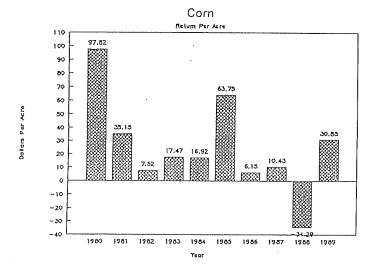
TABLE 10 - CROP DATA FOR SPRING WHEAT - 1989

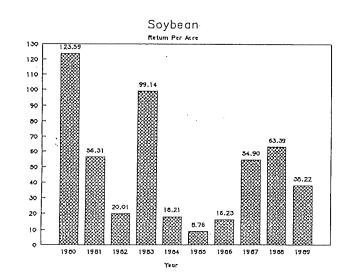
		AVERAGE 110	HIGH 22	LOW 22	
		110			
		<u>I</u>	ALL VALUES PER A	<u>ACRE</u>	
1.	*** Total Value Produced \$ ***	5363	5394	2731	
2.	*** Total Production ***	1416	1430	670	
3.	*** Total Acres ***	47.2	36.1	35.8	
4.	Yield Per Acre	30.0	39.6	18.7	
5.	Value Per Unit	3.65	3.60	3.66	
6.	Crop Production Return	109.47	142.66	68.41	
7.	Other Crop Income	<u>4.15</u>	<u>6.76</u>	<u>7.88</u>	
8.	<u>Total Crop Return</u>	113.62	149.42	76.29	
	<u>Variable Costs</u>				
10.	Fertilizer	17.56	13.93	13.83	
11.	Chemicals	5.21	4.93	5.70	
12.	Seed Expense	10.28	10.94	9.97	
13.	Crop Drying				
14.	Crop Insurance	4.87	3.74	1.84	
15.	Other Expense	1.00	2.05	0.25	
16.	Special Hired Labor	0.72	0.72		
17.	Custom Work Hired Expense	1.21	0.55	1.62	
18.	Irrigation Operation				
19.	Assigned Interest		4		
20.	<u>Total</u> <u>Variable</u> <u>Costs</u>	40.85	36.87	33.21	
21.	Return Over Variable Costs	72.77	112.55	43.08	
	Allocated Costs (Variable and Fixed)				
31.	Farm Power & Machinery - Ownerships	9.75	10.30	9.44	
32.	Farm Power & Machinery - Operation	14.22	12.77	12.91	
33.	Building & Fence Cost	2.27	2.24	1.96	
34.	Irrigation Ownership Cost				
37.	Actual Land Ownership Cost	50.36	44.04	45.84	
38.	Utilities & General Farm Expense	5.04	3.74	8.04	
39.	Hired Labor	1.61	2.08	1.87	
41.	Actual Non-Real Estate Int. Allocated	<u>5.78</u>	9.61	3.66	
42.	<u>Total Allocated Costs</u>	89.03	84.78	83.72	
43.	Total Listed Costs	129.87	121.66	116.93	
44.	Return Over Listed Costs	-16.25	27.76	-40.64	
	**************************************	ARY MANAGEMENT INFORMAT	ION******	******	******
50.	Land Opportunity Ownership Cost	58.27	80.69	44.86	
51.	Total Cost Adj. to a Min. 7% Interest	137.42	154.04	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 Production	4.33	3.07	6.25	
55.	Total Adjusted Cost/Unit of Production	4.58	3.89	6.37	
56.	Cash Variable Cost/Unit of Production	2.25	1.64	3.19	
57.	Return Over Listed Costs Per Unit	-0.54	0.70	-2.17	
58.	Breakeven Yield/Unit of Production	35.6	33.8	31.9	
59.	Total Acre Inches Water Applied				
50.	Cost of Irrigation Excluding Interest				
		2 62	2 40	2 70	
51.	Average Price Received/Unit Sold	3.63	3.49	3.79	

		AVERAGE 258	HIGH 51	LOW 51	
			ALL VALUES PER	<u>ACRE</u>	
1.	*** Total Value Produced \$ ***	2,420	3,325	1,864	
2.	*** Total Production ***	1,366	1,828	1,134	
3.	*** Total Acres ***	24.6	22.0	31.6	
4.	Yield Per Acre	55.5	83.1	35.9	
5.	Value Per Unit	1.47	1.46	1.50	
6.	Crop Production Return	81.42	121.73	53.77	
7.	Other Crop Income	<u>16.95</u>	29.41	5.22	
8.	Total Crop Return	98.37	151.14	58.99	
	<u>Variable Costs</u>				
10.	Fertilizer	11.26	9.55	13.07	
11.	Cliemicals	2.72	2.55	3.48	
12.	Seed Expense	10.28	10.27	9.72	
13.	Crop Drying		·-·		
14.	Crop Insurance	0.85	0.64	1.20	
15.	Other Expense	0.77	1.27	0.85	
16.	Special Hired Labor	0.24	0.50	0.03	
17.	Custom Work Hired Expense	4.15	7.27	2.91	
18.	Irrigation Operation				
19.	Assigned Interest				
20.	Total Variable Costs	30.28	32.05	31.27	
21.	Return Over Variable Costs	68.09	119.09	27.72	
	Allocated Costs (Variable and Fixed)				
31.	Farm Power & Machinery - Ownerships	6.75	8.36	5.03	
32.	Farm Power & Machinery - Operation	15.57	15.45	15.32	
33.	Building & Fence Cost	2.76	3.59	1.93	
34.	Irrigation Ownership Cost	2.70	3.33	1,33	
37.	Actual Land Ownership Cost	51.95	54.80	53.55	
38.	Utilities & General Farm Expense	4.19	4.64	3.86	
39.	Hired Labor	2.72	1.50	3.73	
41.	Actual Non-Real Estate Int. Allocated	6.22	6.00	5.09	
42.	Total Allocated Costs	90.16	94.34	88.51	
16.	Total Middled Costs	30.10	54.54	00.31	
43.	Total Listed Costs	120.45	126.41	119.78	
44.	Return Over Listed Costs	-22.08	24.73	-60.79	
r 0	**************************************				*****
50.	Land Opportunity Ownership Cost	56.69	61.54	51.12	
51.	Total Cost Adj. to a Min. 7% Interest	124.35	133.27	118.45	
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 Production	2.17	1.52	3.34	
55.	Total Adjusted Cost/Unit of Production	2.24	1.60	3.30	
56.	Cash Variable Cost/Unit of Production	1.06	0.72	1.65	
57.	Return Over Listed Costs Per Unit	-0.40	0.30	-1.69	
58.	Breakeven Yield/Unit of Production	81.9	86.6	79.9	
59.	Total Acre Inches Water Applied				
50.	Cost of Irrigation Excluding Interest				
61.	Average Price Received/Unit Sold	1.78	1.58	1.86	
62.	Quantity Sold (0.S.)	716	949	764	

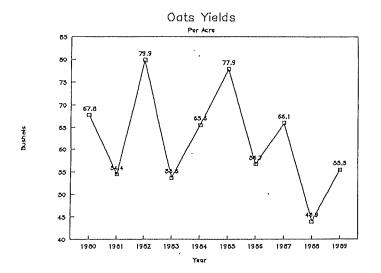


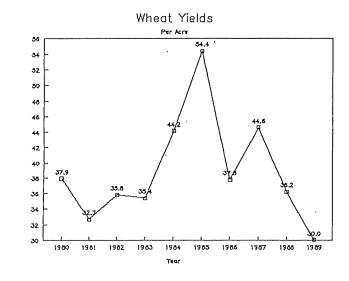


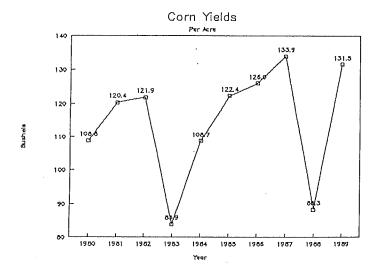


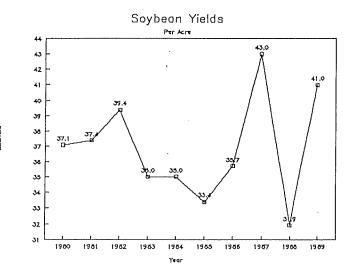


TEN YEAR RETURN ON SELECTED CROPS.









TEN YEAR CROP YIELDS ON SELECTED CROPS.

TABLE 10 - INDIVIDUAL CROP ENTERPRISE ANALYSIS

The individual crop analysis table shows acres, yield, value per unit, (usually the value per unit at harvest time) and gross return per acre for each crop raised by a particular farmer the last crop year.

Cost such as fertilizer, chemicals, seed, crop drying expenses, 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 <u>variable</u> costs.

Other costs, called <u>allocated costs</u>, are calculated from the actual costs incurred. They are allocated by formula. The power and crop machinery expense is divided into ownership and operation costs for each crop. Allocated cost calculation are assigned to each productive enterprise. Rented land cost is a reported cost from the farmer's records.

The total crop return minus the variable and allocated costs equals the return over listed costs which is line 44.

Each crop produced on a farm is listed as a separate enterprise. This allows the operator to compare the return over listed costs for each crop produced.

Land cost on owned land is calculated by taking the sum of interest paid on real estate and the real estate taxes paid, and dividing this by the acres owned.

TABLE 9 - CROP DATA FOR MAJOR CROPS, DISTRIBUTION OF ACRES & YIELDS - 1989

Α.	^	n	-	•
A	١.	ĸ	r	1

	Average	84 Most		
Char	of			
Crop 	424 Farms	Farms	Farms	
otal Small Grain + Canning Peas	26.3	26.5	32.5	
otal Row Crop	405.7 *	537.4 *	412.0 *	
otal Legumes, Including Seed	12.7 *	18.9 *	11.6 *	
otal Other Hay	1.2 *	0.6 *	3.6 *	
otal Silage + Fodder	7.3 *	11.0 *	4.3 *	
otal Tillable Pasture	0.1 *	0.1 *	0.3 *	
otal Fallow & Set Aside Land	30.5 *	32.5 *	39.6 *	
otal Tillable Land	483.8 *	626.9 *	503.8 *	
otal Non-Tillable Hay/Pasture	0.6 *	0.1 *	0.0 *	
ld Hay Not Harvested (Non-Tillable)	1.6	1.0	1.7	
asture Not Harvested	10.3	11.1	7.4	
oads + Waste	10.4	12.5	9.9	
ırmstead	10.2	12.2	10.2	
TOTAL LAND NOT HARVESTED	33.1 *	37.2 *	30.0 *	
TOTAL NON-TILLABLE LAND	33.8 *	47.4 *	30.1 *	
TOTAL LAND IN FARM OR RANCH	517.9 *	665.9 *	536.2 *	

SUPPLEMENTARY MANAGEMENT INFORMATION

	Average All Farms	High Earning Farms	Low Earning Farms
Percent Land Tillable			
* Fertilizer Cost per Acre	20.01	20.29	18.26
* Crop Chemicals per Acre	17.59	18.36	17.82
* Seed and Other Costs per Acre	25.22	25.78	25.76
* Gas, Diesel + Lubricants per Acre	10.74	11.23	9.52
* Repair and Maintenance Cost per Acre	19.34	18.22	21.96

^{*} Tillable Land minus Tillable Pasture, Fallow and Idle Land.

Table 8 - Measures of Farm Organization and Management Efficiency - 1989

I ten	ns		424	High 84	Low 84	
1.	Return to Operators Labor & Management	\$	27,965	79,959	-14,450	
2.	Crop Yield Index		100.0	99.5	95.9	
3.	Total Operator's Depreciation		11,856	16,723	12,627	
4.	Gross Return per Tillable Acre	\$	272.04	256.77	216.11	
5.	Return per \$100 Feed Fed Productive					
	Livestock Index		100.0	109.2	93.6	
6.	*livestock Units per 100 Acres		21.86	25.59	19.91	
7.	Size of Business - Work Units		457.7	705.4	383.3	
8.	Work Units per Worker		336.54	435.43	301.81	
9.	Power, Machinery, Equipment, Building					
	Expense per Work Unit	\$	73.96	67.65	92.97	
10.	Farm Capital Investment per Worker	\$	449,961	475,978	504,615	
	***************	*****	******	******	*****	*******
30.	Number of Animal Units		105.86	160.44	100.30	
31.	Work Units					
32.	Crops		232.0	309.7	233.0	
33.	Productive Livestock		216.7	393.7	147.9	
34.	Other Productive Livestock		8.9	2.0	2.4	
35.	Expenses Per Work Unit					
36.	Tractor & Crop Machinery Expenses	\$	39.38	33.09	51.86	
37.	Farm Share of Auto & Truck	\$	9.51	7.35	11.58	
38.	Farm Share of Electric Expense	\$	4.54	4.53	5.29	
39.	Livestock Equipment Expense	\$	7.26	7.90	8.10	
40.	Building, Fence & Tiling Expense	\$	12.25	13.88	14.85	
40A. 40B.	Other exp/Work Units (Inc. Custom Ent.) General Farm Telephone/Other Utilities					
	Except Electricity	\$	10.96	10.65	14.52	
40C.	Hired Labor	\$	10.47	12.84	15.63	
41.*	* Tractor & Crop Machinery Expense per Crop Acre	\$	37.17	37.23	39.36	
42.	Farm Power & Machinery Cost Allocation to Livestock	\$	2,021.69	3,152.58	1,271.34	
43.	Bldg., Fence & Tiling Cost Allocated to Crops	\$	3,528.35	5,834.03	4,332.87	

^{44. *} Acres Include all Tillable Land, Non-Tillable Hay & Pasture

^{45. **} Acres Include all lillable Land plus Acres in Non-Tillable Hay

MEASURES OF FARM ORGANIZATION AND MANAGEMENT EFFICIENCY

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

- Return to Labor and Management 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. <u>Return over all Listed Cost Per Tillable Acre</u> (Excluding pasture) This is the net return per tillable crop acre after all variable and allocated costs have been paid.
- 4. Gross Return per Acre 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</u> Work Units A measure of the total work load. A Work Unit represents the average accomplishment of a worker in one 10 hour day. Work Unit values are assigned to each class of livestock, each crop, and to other tasks utilizing farm labor.
- 8. <u>Work Units per Worker</u> 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. <u>Power, Machinery, Equipment and Building Expense per Work Unit</u> 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 level for each factor listed would indicate above average earnings, this may not be true when individual farms are considered. The inter-relationship of factors varies from farm to farm.

EXPLANATION OF TABLE 5.2 RATIO'S

- 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.
- 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. This ratio is calculated by dividing intermediate assets by intermediate liabilities.
- 34. <u>WORKING RATIO</u>. 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.
- 35. <u>FIXED RATIO</u>. 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.
- 36. <u>NET CAPITAL RATIO</u>. 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.
- 37. <u>EQUITY/ASSET</u>. 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. This ratio is calculated by dividing total equity by total assets.
- 38. DEBT/EQUITY. This is another overall measure of solvency. It shows the relationship between debt and equity. A ratio of 1.00 indicates that equity and debt are equal. That would be equivalent to a net capital ratio of 2.00 and 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.
- 39. <u>CURRENT DEBT</u>. 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.

TABLE 5.2 - STATEMENT OF OPERATOR'S FINANCIAL POSITION (CONTINUED) - 1989

Average of 424 Farms

Items	tems		84 High Return Farms		84 Low Return Farms	
					Return Farms	
			<u>Jan 1</u>	<u>Dec 31</u>	<u>Jan 1</u>	<u>Dec</u>
	<u>Current Liabilities:</u>					
4.	Accounts Payable: Personal					
5.	Accounts Payable: Farm		125	348	1,694	3,286
G.	Current Portion: Chattel & Real Estate Debt		10,660	11,665	8,810	9,598
GA.	Current Portion: Notes & Line of Credit		13,921	17,746	9,701	13,03
7.	Delinquent Interest			•	255	50
8.	Rents & Lease Payments Due From Past Year			160		
9.	<u> Total Current Liabilities</u>		24,707	29,918	20,460	26,42
*	Intermediate Liabilities:					
1.	Notes Payable: Personal		479	594	626	420
2.	Notes Payable: Farm		28,238	31,609	15,392	
3.	Chattel Hortgages: Personal		35	31,003	249	19,63
4.	Chattel Mortgages: Farm		60,134	62 004		158
6.	Total Intermediate Liabilities		88,886	<u>62,004</u> 94,207	<u>53,938</u> 70,205	53,22 73,43
*	Long <u>T</u> erm Liabilities:					
8. –	Real Estate Mortgages & Contracts: Personal		1 144	2 041	0 040	2 70
9.	Real Estate Mortgages & Contracts: Farm		1,144	2,041	2,343	3,30
). 1.	<u>Iotal Long Term Liabilities</u>		113,061	117,673	79,963	77,94
•	Total Long Term Liabilities		114,205	119,714	<u>82,305</u>	81,24
2.	Total Liabilities		227,798	243,839	172,970	181,10
3.	Equi ty		285,340	332,858	260,060	248,32
١.	Change In Equity			47,518	200,000	-11,73
				DATI	os	
				RATI	<u>0S</u>	
	<u>FORMULA</u>		END YR.	RATI	OS END YR.	§ 1N DEB
	<u>FORMULA</u> Current (T5.1, L17)/(T5.2, L9) Current Assets)/(Current Liabilities)	Debt	<u>END YR.</u> 6.06	· · · · · · · · · · · · · · · · · · ·		
3. 1	furrent (T5.1, L17)/(T5.2, L9)	Debt Debt		% IN DEBT	END YR.	24.4
() }. 1 (Current (T5.1, L17)/(T5.2, L9) Current Assets)/(Current Liabilities) ntermediate (T5.1, L37)/(T5.2, L16)		6.06	% <u>IN DEBT</u> 16.51	END YR. 4.09	24.4 75.4
(i. 1 (i. 1 (i. 1	Current (T5.1, L17)/(T5.2, L9) Current Assets)/(Current Liabilities) Intermediate (T5.1, L37)/(T5.2, L16) Intermediate Assets)/(Intermed. Liab.) Intermediate (T5.1, L17 + L37) / (T5.2, L9 + L16)	Debt	6.06	½ <u>IN DEBT</u> 16.51 68.33	END YR. 4.09	24.4 75.4 48.6
. I	Current (T5.1, L17)/(T5.2, L9) Current Assets)/(Current Liabilities) Intermediate (T5.1, L37)/(T5.2, L16) Intermediate Assets)/(Intermed. Liab.) Intermediate Assets)/(Thermed. Liab.) Intermediate Assets)/(Co. Liab. + I. Liab.) C. Assets + I. Assets) / (C. Liab. + I. Liab.)	Debt Debt	6.06 1.46 2.57	\$ <u>IN DEBT</u> 16.51 68.33 38.90	END YR. 4.09 1.33 2.06	24.4 75.4 48.6 36.2
() () () () () ()	Current (T5.1, L17)/(T5.2, L9) Current Assets)/(Current Liabilities) Intermediate (T5.1, L37)/(T5.2, L16) Intermediate Assets)/(Intermed. Liab.) Idrking (T5.1, L17 + L37) / (T5.2, L9 + L16) C. Assets + I. Assets) / (C. Liab. + I. Liab.) Iixed Debt (T5.1, L43)/(T5.2, L21) Long Term Assets)/(Long Term Liab.) Idet Capital Debt (T5.1, L44)/(T5.2, L22)	Debt Debt Debt	6.06 1.46 2.57 2.15	\$\frac{1N DEBT}{16.51}\$ 68.33 38.90 46.47	END YR. 4.09 1.33 2.06 2.76	24.4 75.4 48.6 36.2
(Current (T5.1, L17)/(T5.2, L9) Current Assets)/(Current Liabilities) Intermediate (T5.1, L37)/(T5.2, L16) Intermediate Assets)/(Intermed. L1ab.) Iorking (T5.1, L17 + L37) / (T5.2, L9 + L16) C. Assets + I. Assets) / (C. Liab. + I. Liab.) Iixed Debt (T5.1, L43)/(T5.2, L21) Long Term Assets)/(Long Term Liab.) Iotet Capital Debt (T5.1, L44)/(T5.2, L22) Total Assets)/(Total Liabilities) quity Assets (T5.2, L23)/(T5.1, L44)	Debt Debt Debt	6.06 1.46 2.57 2.15	\$\frac{1N DEBT}{16.51}\$ 68.33 38.90 46.47 42.28	END YR. 4.09 1.33 2.06 2.76 2.37	24.4 75.4 48.6 36.2 42.1
. I () () () () () () () () () (Current (T5.1, L17)/(T5.2, L9) Current Assets)/(Current Liabilities) Intermediate (T5.1, L37)/(T5.2, L16) Intermediate Assets)/(Intermed. Liab.) Iorking (T5.1, L17 + L37) / (T5.2, L9 + L16) C. Assets + I. Assets) / (C. Liab. + I. Liab.) Tixed Debt (T5.1, L43)/(T5.2, L21) Long Term Assets)/(Long Term Liab.) Let Capital Debt (T5.1, L44)/(T5.2, L22) Total Assets)/(Total Liabilities) quity Assets (T5.2, L23)/(T5.1, L44) Total Equity)/(Total Assets) ebt/Equity (T5.2, L22)/(T5.2, L23)	Debt Debt Debt Eqty.	6.06 1.46 2.57 2.15 2.37	\$\frac{1N DEBT}{16.51}\$ 68.33 38.90 46.47 42.28 57.72	END YR. 4.09 1.33 2.06 2.76 2.37 0.58	24.44 75.41 48.6 36.2 42.1 57.8
() () () () () () () () () () () () () (Current (T5.1, L17)/(T5.2, L9) Current Assets)/(Current Liabilities) Intermediate (T5.1, L37)/(T5.2, L16) Intermediate Assets)/(Intermed. Liab.) Intermediate Assets)/(Intermed. Liab.) Intermediate Assets)/(Intermed. Liab.) Intermediate Assets)/(C. Liab. + I. Liab.) Intermediate Assets / (C. Liab. + I. Liab.)	Debt Debt Debt Eqty. Debt	6.06 1.46 2.57 2.15 2.37 0.58 0.73	16.51 68.33 38.90 46.47 42.28 57.72 73.26	END YR. 4.09 1.33 2.06 2.76 2.37 0.58 0.73 0.15	24.4 75.4 48.6 36.2 42.1 57.8
() () () () () () () () () () () () () (Current (T5.1, L17)/(T5.2, L9) Current Assets)/(Current Liabilities) Intermediate (T5.1, L37)/(T5.2, L16) Intermediate Assets)/(Intermed. Liab.) Intermediate Assets)/(Intermed. Liab.) Intermediate Assets)/(Intermed. Liab.) Intermediate Assets)/(C. Liab. + I. Liab.) Intermediate Assets / (C. Liab. + I. Liab.) Intermediate Assets / (Long Term Liab.) Intermediate Assets / (Long Term Liab.) Intermediate Assets / (T5.1, L44)/(T5.2, L22) Intermediate Assets / (T5.1, L44)/(T5.2, L22) Intermediate Assets / (C. Liab. + I. Liab.)	Debt Debt Debt Eqty. Debt	6.06 1.46 2.57 2.15 2.37 0.58 0.73 0.12	16.51 68.33 38.90 46.47 42.28 57.72 73.26	END YR. 4.09 1.33 2.06 2.76 2.37 0.58 0.73 0.15	24.4 75.4 48.6 36.2 42.1 57.8
() () () () () () () () () () () () () (Current (T5.1, L17)/(T5.2, L9) Current Assets)/(Current Liabilities) Intermediate (T5.1, L37)/(T5.2, L16) Intermediate Assets)/(Intermed. Liab.) Intermediate Assets)/(Intermed. Liab.) Intermediate Assets)/(Intermed. Liab.) Intermediate Assets)/(C. Liab. + I. Liab.) Intermediate Assets / (C. Liab. + I. Liab.) Intermediate Assets / (Long Term Liab.) Intermediate (T5.1, L43)/(T5.2, L21) Intermediate Assets)/(Intermed. Liabilities) Intermediate Assets / (C. Liab. + I. Liab.)	Debt Debt Debt Eqty. Debt	6.06 1.46 2.57 2.15 2.37 0.58 0.73 0.12 74,050 15,581	16.51 68.33 38.90 46.47 42.28 57.72 73.26	END YR. 4.09 1.33 2.06 2.76 2.37 0.58 0.73 0.15 581 15,056	24.44 75.41 48.6 36.2 42.1 57.8
() () () () () () () () () () () () () (Current (T5.1, L17)/(T5.2, L9) Current Assets)/(Current Liabilities) Intermediate (T5.1, L37)/(T5.2, L16) Intermediate Assets)/(Intermed. Liab.) Intermediate Assets)/(Intermed. Liab.) Intermediate Assets)/(Intermed. Liab.) Intermediate Assets)/(C. Liab. + I. Liab.) Intermediate Assets)/(C. Liab. + I. Liab.) Intermediate Assets)/(C. Liab. + I. Liab.) Intermediate Assets)/(Long Term Liab.) Intermediate Assets)/(Long Term Liab.) Intermediate Assets)/(Intermed. Liabilities) Intermediate Assets)/(Intermed. Liabilities) Intermediate Assets)/(Intermed. Liabilities) Intermediate Assets)/(Intermed. Liabilities) Intermediate Assets)/(Intermed. Liabilities)/(Intermediate) Intermediate Assets)/(Intermed. Liabilities)/(Intermed. Liabilities) Intermediate (T5.1, L47)/(T5.2, L22) Intermediate (T5.1, L43)/(T5.2, L22) Intermediate Assets)/(Intermed. Liab.) Intermediate (T5.1, L43)/(T5.2, L22) Intermediate Assets)/(Intermed. Liab.) Intermediate (T5.1, L43)/(T5.2, L22) Intermediate Assets)/(Intermed. Liab.) Intermediate (T5.1, L43)/(T5.2, L22) Intermediate (T5.1, L43)/(T5.2, L22) Intermediate (T5.1, L43)/(T5.2, L22) Intermediate (T5.1, L43)/(T5.2, L22) Intermediate (T5.1, L44)/(T5.2, L22) Intermedia	Debt Debt Debt Eqty. Debt	6.06 1.46 2.57 2.15 2.37 0.58 0.73 0.12 74,050 15,581 89,631	16.51 68.33 38.90 46.47 42.28 57.72 73.26	END YR. 4.09 1.33 2.06 2.76 2.37 0.58 0.73 0.15 581 15,056 15,637	24.44 75.41 48.6 36.2 42.1 57.8
((() () () () () () () () ()	Current (T5.1, L17)/(T5.2, L9) Current Assets)/(Current Liabilities) Intermediate (T5.1, L37)/(T5.2, L16) Intermediate Assets)/(Intermed. Liab.) Intermediate Assets)/(Intermed. Liab.) Intermediate Assets)/(Intermed. Liab.) Intermediate Assets)/(C. Liab. + I. Liab.) Intermediate Assets)/(C. Liab. + I. Liab.) Intermediate Assets)/(Long Term Liab.) Intermediate Assets)/(Long Term Liab.) Intermediate Assets)/(Long Term Liab.) Intermediate Assets)/(Intermed. Liab.) Intermediate Assets)/(Intermed. Liab.) Intermediate Assets)/(Intermed. Liab.)/(Intermed. Liab.) Intermediate Assets)/(Intermed. Liab.) Intermediate Assets Ass	Debt Debt Debt Eqty. Debt Curr.	6.06 1.46 2.57 2.15 2.37 0.58 0.73 0.12 74,050 15,581 89,631 44,429	16.51 68.33 38.90 46.47 42.28 57.72 73.26	END YR. 4.09 1.33 2.06 2.76 2.37 0.58 0.73 0.15 581 15,056 15,637 29,771	24.44 75.49 48.60 36.20 42.10 57.80
((() () () () () () () () ()	Current (T5.1, L17)/(T5.2, L9) Current Assets)/(Current Liabilities) Intermediate (T5.1, L37)/(T5.2, L16) Intermediate Assets)/(Intermed. Liab.) Intermediate Assets)/(Intermed. Liab.) Intermediate Assets)/(Intermed. Liab.) Intermediate Assets)/(C. Liab. + I. Liab.) Intermediate Assets)/(C. Liab. + I. Liab.) Intermediate Assets)/(C. Liab. + I. Liab.) Intermediate Assets)/(Long Term Liab.) Intermediate Assets)/(Long Term Liab.) Intermediate Assets)/(Intermed. Liabilities) Intermediate Assets)/(Intermed. Liabilities) Intermediate Assets)/(Intermed. Liabilities) Intermediate Assets)/(Intermed. Liabilities) Intermediate Assets)/(Intermed. Liabilities)/(Intermediate) Intermediate Assets)/(Intermed. Liabilities)/(Intermed. Liabilities) Intermediate (T5.1, L47)/(T5.2, L22) Intermediate (T5.1, L43)/(T5.2, L22) Intermediate Assets)/(Intermed. Liab.) Intermediate (T5.1, L43)/(T5.2, L22) Intermediate Assets)/(Intermed. Liab.) Intermediate (T5.1, L43)/(T5.2, L22) Intermediate Assets)/(Intermed. Liab.) Intermediate (T5.1, L43)/(T5.2, L22) Intermediate (T5.1, L43)/(T5.2, L22) Intermediate (T5.1, L43)/(T5.2, L22) Intermediate (T5.1, L43)/(T5.2, L22) Intermediate (T5.1, L44)/(T5.2, L22) Intermedia	Debt Debt Debt Eqty. Debt Curr.	6.06 1.46 2.57 2.15 2.37 0.58 0.73 0.12 74,050 15,581 89,631	16.51 68.33 38.90 46.47 42.28 57.72 73.26	END YR. 4.09 1.33 2.06 2.76 2.37 0.58 0.73 0.15 581 15,056 15,637	½ IN DEB* 24.44 75.49 48.60 36.27 42.17 57.80

TABLE 5.2 - STATEMENT OF OPERATOR'S FINANCIAL POSITION (CONTINUED) - 1989

Items		AVERAGE OF 424 FARMS			
	<u>JAN</u>	1	<u>DEC 31</u>		
<u>Current Liabilities:</u>					
 Accounts Payable: Personal 		6	6		
Accounts Payable: Farm	1,33		1,891	•	
Current Portion: Chattel & Real Estate Deb			9,330		
A. Current Portion: Notes & Line of Credit Delinguent Interest	12,35		14,700		
 Delinquent Interest Rents & Lease Payments Due From Past Year 	10	1	178		
. <u>Iotal Current Liabilities</u>	23,00	i	$\frac{32}{26,137}$		
*Intermediate Liabilities:					
1. Notes Payable: Personal	60	2	632		
Notes Payable: Farm	15,17	6	18,127		
3. Chattel Mortgages: Personal	28		201		
4. Chattel Mortgages: Farm	44.10	-	45,327		
<u> Total Intermediate Liabilities</u>	60,17	0	64,289		
*Long Term Liabilities:Real Estate Mortgages & Contracts: Persona	1 1 02	0	0.266		
Real Estate Mortgages & Contracts: Farm	•		2,365		
Log Iotal Long Jerm Liabilities	<u>82,64</u> 84,57	_	<u>84,292</u> 86,657		
	04,37	9	00,037		
. Total Liabilities	167,75	0	177,083		
Equity	234,43		248,450		
. Change In Equity			14,014		
****************	***********	****** <u>RAT</u>	10S	******	
FORMULA	##************************************			r.	
FORMULA (TE 1 117)/(TE 2 10)	DESCRIPTION	BEG. YR.	END YR.	5 <u>6</u>	
	DESCRIPTION Debt			<u>*</u> 22.1	
Current (T5.1, L17)/(T5.2, L9) (Current Assets)/(Current Liabilities) Intermediate (T5.1, L37)/(T5.2, L16)		BEG. YR.	END YR.		
Current (T5.1, L17)/(T5.2, L9) (Current Assets)/(Current Liabilities) Intermediate (T5.1, L37)/(T5.2, L16) (Intermediate Assets)/(Intermed. Liab.)	Debt	BEG. YR.	<u>END YR.</u> 4.52	22.1	
Current (T5.1, L17)/(T5.2, L9) (Current Assets)/(Current Liabilities) Intermediate (T5.1, L37)/(T5.2, L16) (Intermediate Assets)/(Intermed. Liab.)	Debt Debt	BEG. YR.	<u>END YR.</u> 4.52	22.1	
Current (T5.1, L17)/(T5.2, L9) (Current Assets)/(Current Liabilities) Intermediate (T5.1, L37)/(T5.2, L16) (Intermediate Assets)/(Intermed. Liab.) Working (T5.1, L17 + L37) / (T5.2, L9 + L16) (C. Assets + I. Assets) / (C. Liab. + I. Liab.)	Debt Debt Debt	BEG. YR. 4.93 1.60 2.52	END YR. 4.52 1.65	22.1 60.6 40.3	
Current (T5.1, L17)/(T5.2, L9) (Current Assets)/(Current Liabilities) Intermediate (T5.1, L37)/(T5.2, L16) (Intermediate Assets)/(Intermed. Liab.) Horking (T5.1, L17 + L37) / (T5.2, L9 + L16) (C. Assets + I. Assets) / (C. Liab. + I. Liab.)	Debt Debt	BEG. YR. 4.93	END YR. 4.52 1.65	22.1 60.6 40.3	
Current (T5.1, L17)/(T5.2, L9) (Current Assets)/(Current Liabilities) Intermediate (T5.1, L37)/(T5.2, L16) (Intermediate Assets)/(Intermed. Liab.) Working (T5.1, L17 + L37) / (T5.2, L9 + L16) (C. Assets + 1. Assets) / (C. Liab. + 1. Lial) Fixed Debt (T5.1, L43)/(T5.2, L21) (Long Term Assets)/(Long Term Liab.) Net Capital Debt (T5.1, L44)/(T5.22)	Debt Debt Debt	BEG. YR. 4.93 1.60 2.52	END YR. 4.52 1.65	22.1 60.6 40.3	
Current (T5.1, L17)/(T5.2, L9) (Current Assets)/(Current Liabilities) Intermediate (T5.1, L37)/(T5.2, L16) (Intermediate Assets)/(Intermed. Liab.) Working (T5.1, L17 + L37) / (T5.2, L9 + L16) (C. Assets + I. Assets) / (C. Liab. + I. Liai) Fixed Debt (T5.1, L43)/(T5.2, L21) (Long Term Assets)/(Long Term Liab.) Net Capital Debt (T5.1, L44)/(T5.22) (Total Assets)/(Total Liabilities)	Debt Debt Debt Debt Debt	BEG. YR. 4.93 1.60 2.52 2.28 2.40	END YR. 4.52 1.65 2.48 2.32	22.1 60.6 40.3	
Current (T5.1, L17)/(T5.2, L9) (Current Assets)/(Current Liabilities) Intermediate (T5.1, L37)/(T5.2, L16) (Intermediate Assets)/(Intermed. Liab.) Working (T5.1, L17 + L37) / (T5.2, L9 + L16) (C. Assets + 1. Assets) / (C. Liab. + 1. Liai Fixed Debt (T5.1, L43)/(T5.2, L21) (Long Term Assets)/(Long Term Liab.) Net Capital Debt (T5.1, L44)/(T5.22) (Total Assets)/(Total Liabilities)	Debt Debt Debt Debt	BEG. YR. 4.93 1.60 2.52 2.28	END YR. 4.52 1.65 2.48 2.32	22.1 60.6 40.3	
Current (T5.1, L17)/(T5.2, L9) (Current Assets)/(Current Liabilities) Intermediate (T5.1, L37)/(T5.2, L16) (Intermediate Assets)/(Intermed. Liab.) Working (T5.1, L17 + L37) / (T5.2, L9 + L16) (C. Assets + I. Assets) / (C. Liab. + I. Liai) Fixed Debt (T5.1, L43)/(T5.2, L21) (Long Term Assets)/(Long Term Liab.) Net Capital Debt (T5.1, L44)/(T5.22) (Total Assets)/(Total Liabilities) Equity Assets (T5.2, L23)/(T5.1, L44) (lotal Equity)/(Total Assets) Debt/Equity (T5.2, L22)/(T5.2, L23)	Debt Debt Debt Debt Debt	BEG. YR. 4.93 1.60 2.52 2.28 2.40	END YR. 4.52 1.65 2.48 2.32 2.40	22.1 60.6 40.3 43.6 41.6	
Current (T5.1, L17)/(T5.2, L9) (Current Assets)/(Current Liabilities) Intermediate (T5.1, L37)/(T5.2, L16) (Intermediate Assets)/(Intermed. Liab.) Working (T5.1, L17 + L37) / (T5.2, L9 + L16) (C. Assets + I. Assets) / (C. Liab. + I. Lial Fixed Debt (T5.1, L43)/(T5.2, L21) (Long Term Assets)/(Long Term Liab.) Net Capital Debt (T5.1, L44)/(T5.22) (Total Assets)/(Total Liabilities) Equity Assets (T5.2, L23)/(T5.1, L44) (Total Equity)/(Total Assets)	Debt Debt Debt Debt Debt Debt Debt	BEG. YR. 4.93 1.60 2.52 2.28 2.40 0.58	END YR. 4.52 1.65 2.48 2.32 2.40 0.58	22.1 60.6 40.3 43.6 41.6	
Current (T5.1, L17)/(T5.2, L9) (Current Assets)/(Current Liabilities) Intermediate (T5.1, L37)/(T5.2, L16) (Intermediate Assets)/(Intermed. Liab.) Working (T5.1, L17 + L37) / (T5.2, L9 + L16) (C. Assets + I. Assets) / (C. Liab. + I. Liai) Fixed Debt (T5.1, L43)/(T5.2, L21) (Long Term Assets)/(Long Term Liab.) Net Capital Debt (T5.1, L44)/(T5.22) (Total Assets)/(Total Liabilities) Equity Assets (T5.2, L23)/(T5.1, L44) (lotal Equity)/(Total Assets) Debt/Equity (T5.2, L22)/(T5.2, L23) (Total Liabilities)/(Total Equity)	Debt Debt Debt Debt Debt Debt Debt	BEG. YR. 4.93 1.60 2.52 2.28 2.40 0.58	END YR. 4.52 1.65 2.48 2.32 2.40 0.58	22.1 60.6 40.3 43.0 41.6 58.3	
Current (T5.1, L17)/(T5.2, L9) (Current Assets)/(Current Liabilities) Intermediate (T5.1, L37)/(T5.2, L16) (Intermediate Assets)/(Intermed. Liab.) Working (T5.1, L17 + L37) / (T5.2, L9 + L16) (C. Assets + 1. Assets) / (C. Liab. + 1. Liai) Fixed Debt (T5.1, L43)/(T5.2, L21) (Long Term Assets)/(Long Term Liab.) Net Capital Debt (T5.1, L44)/(T5.22) (Total Assets)/(Total Liabilities) Equity Assets (T5.2, L23)/(T5.1, L44) (lotal Equity)/(Total Assets) Debt/Equity (T5.2, L22)/(T5.2, L23) (Total Liabilities)/(Total Equity) Current Debt (T5.2, L9)/(T5.2, !22) (Current Liabilities)/(Total Liab.)	Debt Debt Debt Debt Debt Debt Debt	BEG. YR. 4.93 1.60 2.52 2.28 2.40 0.58 0.72	END YR. 4.52 1.65 2.48 2.32 2.40 0.58 0.71 .015	22.1 60.6 40.3 43.0 41.6 58.3	
Current (T5.1, L17)/(T5.2, L9) (Current Assets)/(Current Liabilities) Intermediate (T5.1, L37)/(T5.2, L16) (Intermediate Assets)/(Intermed. Liab.) Working (T5.1, L17 + L37) / (T5.2, L9 + L16) (C. Assets + 1. Assets) / (C. Liab. + 1. Lial) Fixed Debt (T5.1, L43)/(T5.2, L21) (Long Term Assets)/(Long Term Liab.) Met Capital Debt (T5.1, L44)/(T5.22) (Total Assets)/(Total Liabilities) Equity Assets (T5.2, L23)/(T5.1, L44) (Total Equity)/(Total Assets) Debt/Equity (T5.2, L22)/(T5.2, L23) (Total Liabilities)/(Total Equity) Current Debt (T5.2, L9)/(T5.2, L22) (Current Liabilities)/(Total Liab.) Return to Capital, Family Labor & Management	Debt Debt Debt Debt Debt Debt Debt	BEG. YR. 4.93 1.60 2.52 2.28 2.40 0.58 0.72	END YR. 4.52 1.65 2.48 2.32 2.40 0.58 0.71 .015	22.1 60.6 40.3 43.0 41.6 58.3	
Current (T5.1, L17)/(T5.2, L9) (Current Assets)/(Current Liabilities) Intermediate (T5.1, L37)/(T5.2, L16) (Intermediate Assets)/(Intermed. Liab.) Horking (T5.1, L17 + L37) / (T5.2, L9 + L16) (C. Assets + 1. Assets) / (C. Liab. + 1. Lial) Fixed Debt (T5.1, L43)/(T5.2, L21) (Long Term Assets)/(Long Term Liab.) Het Capital Debt (T5.1, L44)/(T5.22) (Total Assets)/(Total Liabilities) Equity Assets (T5.2, L23)/(T5.1, L44) (lotal Equity)/(Total Assets) Debt/Equity (T5.2, L22)/(T5.2, L23) (Total Liabilities)/(Total Equity) Current Debt (T5.2, L9)/(T5.2, 1.22) (Current Liabilities)/(Total Liab.) Return to Capital, Family Labor & Management Total Income From Non-Farm Source	Debt Debt Debt Debt Debt Debt Debt	BEG. YR. 4.93 1.60 2.52 2.28 2.40 0.58 0.72	END YR. 4.52 1.65 2.48 2.32 2.40 0.58 0.71 .015	22.1 60.6 40.3	
2. Current (T5.1, L17)/(T5.2, L9) (Current Assets)/(Current Liabilities) 3. Intermediate (T5.1, L37)/(T5.2, L16) (Intermediate Assets)/(Intermed. Liab.) 4. Working (T5.1, L17 + L37) / (T5.2, L9 + L16) (C. Assets + 1. Assets) / (C. Liab. + I. Liailong Term Assets)/(Long Term Liab.) 5. Fixed Debt (T5.1, L43)/(T5.2, L21) (Long Term Assets)/(Long Term Liab.) 6. Met Capital Debt (T5.1, L44)/(T5.22) (Total Assets)/(Total Liabilities) 7. Equity Assets (T5.2, L23)/(T5.1, L44) (lotal Equity)/(Total Assets) 8. Debt/Equity (T5.2, L22)/(T5.2, L23) (Total Liabilities)/(Total Equity) 9. Current Debt (T5.2, L9)/(T5.2, L22) (Current Liabilities)/(Total Liab.) Return to Capital, Family Labor & Management Total Income From Non-Farm Source	Debt Debt Debt Debt Debt Debt Debt	BEG. YR. 4.93 1.60 2.52 2.28 2.40 0.58 0.72	END YR. 4.52 1.65 2.48 2.32 2.40 0.58 0.71 .015	22.1 60.6 40.3 43.0 41.6 58.3	

56. Total Paid on Debt

80,946

TABLE 5.1 - STATEMENT OF OPERATOR'S FINANCIAL POSITION - 1989

Items		84 HIGH PROFIT FARMS		84 LOW PROFIT FARMS	
	<u>Current</u> <u>Assets:</u>	<u>JAN 1</u>	<u>DEC</u> 31	JAN 1	<u>DEC</u> <u>1</u>
4.	Cash, Checking & Saving Account Balance: Pers.	3,604	3,980	1,660	1,281
5.	Cash, Checking & Saving Account Balance: Farm	3,003	5,869	6,777	3,477
6.	Hedging Account Equity	817	446	75	203
7.	Notes & Accounts Receivables: Personal	55		154	107
8.	Notes & Accounts Receivables: Farm	7,187	7,164	2,571	2,670
9.	Crops Held for Sale	70,201	77,569	58,286	49,641
10.	Livestock Feed	17,853	22,402	12,374	10,193
11.	Supplies/Prepaids	9,592	10,128	6,016	5,577
12.	Feeder Cattle & Market Other Dairy	19,975	25,478	21,102	22,183
13.	Market Hogs	19,486	28,078	12,940	12,667
14.	Feeder Lambs & Goats	88	9	275	100
15.	Poultry - All Types				
16.	Other Livestock	132	120	Trea Treatment	
17.	<u>Total</u> <u>Current</u> <u>Assets</u>	151,994	181,242	122,229	108,099
	Intermediate Assets:				
19.	Dairy Cows	9,696	10,252	490	452
20.	Other Dairy	1,929	1,478		
21.	Beef Breeding Cattle	1,382	1,500	2,370	1,850
22.	Breeding Hogs	9,170	10,541	6,943	7,000
23.	Breeding Sheep/Goats		95	807	947
24.	Other Productive Livestock		15		
25.	Auto & Truck: Personal Share	2,988	4,155	3,037	3,363
26.	Auto & Truck: Farm Share	7,411	8,620	5,282	5,599
27.	Power, Machinery, & Equipment	52,822	60,879	42,835	47,231
28.	Livestock Equipment	8,537	9,314	5,479	5,819
29.	Custom Work Equipment				
30.	Irrigation Equipment			494	445
31.	Stocks & Bonds & Co-Op Equity - Farm	7,425	8,167	7,919	8,511
32.	Stocks & Bonds & Co-op Equity - Personal	2,389	2,944	1,400	1,260
35.	Other Household Personal	11,459	11,143	8,492	9,024
36.	Retirement Accounts & Life Insurance	<u>7,288</u>	<u>8,764</u>	<u>4,946</u>	<u>5,832</u>
37.	<u>Total Intermediate Assets</u>	122,496	137,868	90,495	97,335
	Long Term Assets:				
39.	Building & Fences	51,712	54,414	35,029	36,125
4().	Land & Land Improvements	163,476	178,435	151,719	152,890
41.	Dwelling	13,916	14,158	18,933	20,262
42.	Real Estate Personal	9,544	<u>10,581</u>	14,626	14,724
43.	<u>lotal</u> <u>Long</u> <u>Term</u> <u>Assets</u>	238,648	257,588	220,307	<u>224,001</u>
44.	<u> Total</u> <u>Assets</u>	513,138	576,698	433,030	429,435
45.	Total Personal Assets (Incl. Cash)	58,668	63,592	61,167	64,365
46.	Total Farm Assets (Incl. Cash)	454,470	512,806	371,863	365,070

	Current Assets:	<u>Jan</u> <u>1</u>	<u>Dec 31</u>
4.	Cash, Checking & Saving Account Balance: Pers.	1,823	1,490
5.	Cash, Checking & Saving Account Balance: Farm	3,819	3,460
6.	Hedging Account Equity	256	297
7.	Notes & Accounts Receivables: Personal	46	512
8.	Notes & Accounts Receivables: Farm	2,838	2,989
9.	Crops Held for Sale	54,549	55,771
10.	Livestock Feed	13,963	14,929
11.	Supplies/Prepaids	6,876	6,034
12.	Feeder Cattle & Market Other Dairy	14,572	15,863
13.	Market Hogs	14,456	16,753
14.	Feeder Lambs & Goats	85	51
15.	Poultry - All Types	11	30
16.	Other Livestock	<u> 51</u>	62
17.	Total Current Assets	113,345	118,240
	<u>Intermediate</u> <u>Assets:</u>		
19.	Dairy Cows	4,487	4,748
20.	Other Dairy	956	950
21.	Beef Breeding Cattle	2,575	2,530
22.	Breeding Hogs	6,102	6,792
23.	Breeding Sheep/Goats	416	458
24.	Other Productive Livestock	15	37
25.	Auto & Truck: Personal Share	3,067	3,804
26.	Auto & Truck: Farm Share	5,512	6,360
27.	Power, Machinery, & Equipment	41,200	45,861
28.	Livestock Equipment	5,935	6,400
29.	Custom Work Equipment	138	140
30.	Irrigation Equipment	98	88
31.	Stocks & Bonds & Co-Op Equity - Farm	7,939	8,520
32.	Stocks & Bonds & Co-op Equity - Personal	1,875	2,094
35.	Other Household Personal	9,343	9,551
36.	Retirement Accounts & Life Insurance	<u>6,707</u>	<u>7,689</u>
37.	<u>Total Intermediate Assets</u>	96,364	106,021
2.0	Long Term Assets:		
39.	Building & Fences	36,469	37,636
40.	Land & Land Improvements	133,127	139,731
41.	Dwelling	16,521	17,254
42.	Real Estate Personal	<u>6,360</u>	<u>6,651</u>
43.	<u> Total Long Term Assets</u>	<u>192,476</u>	<u>201,271</u>
44.	<u>Total</u> <u>Assets</u>	402,185	425,533
45.	Total Personal Assets (Incl. Cash)	53,681	57,564
46.	Total Farm Assets (Incl. Cash)	348,504	367,969

TABLE 4 - NON FARM INCOME AND HOUSEHOLD AND PERSONAL EXPENSES - 1989

Iten	253 FARMS			50 LOW FARMS
4.	Number of Persons - Family	4	4	
5.	Number of Adult Equivalents - Family	2.9	2.9	2.8
6.	Non Farm Income			
7.	Outside Investment Income	3,920	8,931	4,299
8.	Other Personal Income & Income Tax Refund	7,042	5,914	9,407
9.	Sale of Dwelling, Auto, & Truck (Pers. Share)	171		221
10.	Net Cash from Non Farm Business	<u>878</u>	<u>736</u>	1,129
11.	Total Non Farm Income Household Expense	12,012	15,581	15,056
13.	Family Draw (Alternative to Detail)			
14.	Church & Charity	1,006	1,421	700
15.	Medical Care & Health Insurance	2,995	3,670	2,894
16.	Food & Meals Bought	4,728	4,861	4,917
17.	Operating Expense & Supplies	1,902	2,309	1,710
18.	Furnishings & Equipment	1,189	1,117	1,662
19.	Clothing & Clothing Materials	1,502	1,641	1,349
20.	Personal Care, Personal Spending	2,678	3,407	2,135
21.	Education	621	600	453
22.	Recreation	1,309	1,691	895
23.	Gifts & Special Events	1,092	1,411	1,036
24.	Personal Interest	<u> 202</u>	<u>220</u>	<u>221</u>
25.	Total Cash Household Detail Exp. (L14-L24)	19,224	22,348	17,973
26.	Truck & Auto Expense: Personal	1,352	1,277	1,047
27.	Upkeep on Dwelling: Personal	564	524	245
28.	Cash Rent: Personal	23	90	12
29.	Telephone & Electricity Expense: Personal	839	794	834
30.	General Farm Expense: Personal	_42	10	49
31.	<u>Total Cash Living & Operating Expense</u>	22,043	25,043	20,159
32.	New Truck & Auto: Personal	1,421	1,811	565
33.	New Dwelling, Buildings, Land Bought: Personal	1,242	1,961	1.769
34.	Taxes & Other Deductions	4,759	7,190	2,563
35.	Life Insurance	1,074	1,091	936
36.	Paid on Personal Debt (Principal)	598	843	708
37. 38.	Savings & Investments (Excluding Life Ins.)	3,391	6,348	2,850
39.	Total Non Farm Cash Expense Total Non.Farm Exp. Minus Non Farm Inc.	34,527	44,287	29,549
40.	Total Family Living From Farm	22,515 <u>265</u>	28,706 <u>142</u>	14,493
41.	Total Cash & Non Cash Expense	34,792	44,429	<u>222</u> 29,771
	*********SUPPLEMENTARY			
43.	Family Living from the Farm	•••		
44.	Milk & Cream (Quarts)	110	111	74
45.	Beef & Buffalo (Pounds)	232	97	243
46.	Pork (Pounds)	186	168	111
47.	Lamb, Mutton, Goat, (Pounds)	3	2	11
48.	Poultry, All Fowl (Pounds)	1		7
49. 50.	Eggs (Dozen)	1		
51.	Vegetables, Fruits, Spuds, Other Produce & Wood Total Family Living From the Farm			
52.	Calculated Living Expense			
53.	Total Family Income	45,726	89,631	15,637
54.	Minus Change In Net Worth	14,014	47,518	-11,731
55.	Apparent Family Living	31,712	42,113	27,368
56.	Total Family Living Per Work Unit: Calculated	75.44	62.78	77.09
57.	Net Family Living Per Work Unit	49.19	40.69	37.81

TABLE 3 - ENTERPRISE STATEMENT FOR WHOLE FARM - 1989

Item	S	AVERAGE	HIGH	LOW	
		424	84	84	
4.	Returns & Net Increases				
5.	Net Livestock Lease Income	-86	-235	-185	
6.	Dairy Cows Cattle	12,108	30,377	2,334	
7.	Other Dairy Cattle	3,200	8,403	1,212	
8.	Beef Breeding Cattle	1,774	1,358	1,381	
9.	Beef Feeder Cattle	8,513	13,949	11,622	
10.	Hogs Complete and Mixed	38,958	63,425	36,496	
11.	Hogs Finishing Enterprise	10,044	17,762	5,166	
12.	Producing Feeder Pigs	4,886	10,571		
13.	Sheep & Goats and Wool	565	97	1,461	
14.	Sheep & Goats Feeders	26	10	1,042	
15.	Poultry, All Fowl	219	10	120	
6.	Contract Livestock	213		6	
7.	Other Productive Livestock	47_	3.4		
.8.	Total All Productive Livestock	80,254	<u>34</u>	60 655	
9.	Value of Feed Fed to Livestock	45,273	145,751	60,655	
0.	Return Over Feed From Livestock	34,981	73,919	37,975	
1.	Crop, Seed, & Feed	96,955	71,832	22,679	
2.	Fertilizer, Chemicals, Seed & Other	28,686	144,486	77,567	
3.	Return Over Direct Costs: Crops	68,269	37,072	29,948	
4.	Crops & Supplies Purch. for Resale (Net)	3,877	107,414	47,620	
5.	Cooperative Patronage Refunds	919	11,858	685	
6.	Miscellaneous Farm Income/Accts. Receivable	3,012	1,305	792	
7.	Custom Work Enterprise	616	4,740	3,504	
8.	Government Payment & Set Aside	10,160	12 400	288	
9.	Total Returns & Net Increases	121,834	<u>13,402</u> 210,551	<u>9,840</u> 85,408	
0.	Expenses & Net Decreases	,	220,002	03, 100	
1.	Truck & Auto (Farm Share)				
2.	Tractors & Crop Machinery	4,355	5,188	4,437	
3.	Irrigation Equipment	17,989	23,341	19,828	
4.	Utilities	34		49	
5.	Livestock Equipment	2,543	3,819	2,524	
5.	Buildings & Fences	3,321	5,576	3,106	
,. '.	Land Improvements & Tile	5,608	9,794	5,693	
3.	Land	324	483	428	
).	Vet & Misc. Livestock Expense	-74	-22	-59	
).		4,667	8,851	4,335	
•	All Labor Costs - Paid & Unpaid Property Tax	4,874	9,796	6,424	
	· · · · · · · · · · · · · · · · · · ·	2,838	2,904	3,160	
· · · · · · · · · · · · · · · · · · ·	General Farm Expense	4,552	6,887	5,068	
). .	Interest on Farm Capital (7% Opportunity Chg.)	42,836	<u>53,976</u>	44,860	
•	<u>Total Expenses & Net Decreases</u>	93,867	130,593	99,853	
	Return to Whole Farm Operator Labor & Mgmt.	27,967	79,958	-14,445	
).	Number of Farm Operators	1	1	1	
•	Full Time Operator Equivalent	1.08	1.13	1.01	
	Return to Operator Labor & Mgmt./Full Time Operator	25,895	70,759	-14,302	

Purchase of Livestock Dairy Cows Other Dairy Cattle	Whole <u>Farm</u>	Operator			
Other Dairy Cattle	***************************************	Share	Whole Farm	Operator Share	
Other Dairy Cattle			1. 331. 111	<u> </u>	
	264	246	XXXX	XXXX	
Doof Unooding Cattle	215	200	555	555	
Beef Breeding Cattle Beef Feeder Cattle	41.7	417	60	60	
Hogs Complete & Mixed	22,135	22,135	18,955	18,704	
llogs Finishing	4,064	3,996	2,376	2,361	
Hogs Producing Feeder Pigs	3,099	3,099	2,330	2,330	
Sheep, Goats, Wool: Breeding	1,547	1,547	67	67	
	32	32			
			1	1	
	5	5	vvv	VVVV	
		•	•		
Fertilizer					
Chemicals					
Other Crop Expense					
Irrigation Operation Cost					
CW Oper. Costs Excl. Labor & Repair					
Custom Work Hired					
Gas, Diesel & Lubricants		•			
Repair & Upkeep of Lvsk. Equipment	2,901				
Repair & Upkeep of Farm Real Estate	1,616	1,615			
Repair & Oper. Mach, Trac, Trk, Auto	10,580	10,543	9,801		
Repair & Upkeep of Irrig. Equip.					
Repair & Upkeep of Custom Work Equip.	XXXX	XXXX	38	38	
Total All Repairs	15,096	15,005	13,284		
Wages of Hired Labor	9,058	9,057	5,991	5,989	
	2,904	1,650	3,160	1,708	
•	6,887	6,883	5,068	5,015	
	3,819	3,758	2,524	2,465	
•	4,619	34,790	1,427	17,116	
	XXXX	21,257	XXXX	14,484	
	XXXX	21,257	XXXX	14,234	
	184,084	232,008	131,058	157,452	
	19,449	19,421	13,989	13,939	
				1,718	
				4,258	
				<u>3,234</u>	
				10,950	
				13	
			-14,450	-10,711	
			1	XXXX	
raming Editor a righter	۸۸۸۸	74,050	XXXX	581	
	Sheep, Wool: Feeders Poultry, All Fowl Custom, Contract Livestock Feeding Other Productive Livestock	Sheep, Wool: Feeders	Sheep, Wool: Feeders 32 32 32 32 32 32 32 3	Sheep, Wool: Feeders 32 32 85	Sheep, Wool: Feeders 32 32 35 35 35

Items			424 FARHS	
		Who l e	Operator	
	<u>Purchase</u> of <u>Livestock</u>	<u>Farm</u>	<u>Share</u>	
5. Da	iry Cows	213	210	
	her Dairy Cattle	271	268	
	eel Breeding Cattle	409	404	
	nef Feeder Cattle	13,299	13,249	
	ogs Complete & Mixed	1,899	1,877	
	ogs Finishing	3,355	3,346	
	ogs Producing Feeder Pigs	715	715	
	neep, Goats, Wool: Breeding	76	76	
	neep, Wool: Feeders	23	23	
	oultry, All Fowl		2.5	
	ustom, Contract Livestock Feeding			
	ther Productive Livestock	28	28	
17.	<u>Total Livestock Purchases</u>	20,288	20,196	
	et, Breeding & Misc. Livestock Exp.	4,667	4,568	
	urchase or Crops & Supp. for Resale	3,801	3,799	
	ed Bought	30,647	29,863	
	ertilizer	. 8,891	8,487	
	nemi cals	7,881	7,575	
	ther Crop Expense	11,022	10,785	
	rigation Operation Cost	44	44	
	1 Oper. Costs Excl. Labor & Repair	524	524	
	ustom Work Hired	3,024	2,989	
	os, Diesel & Lubricants	5,044	5,010	
	epair & Upkeep of Lvsk. Equipment	1,720	1,689	
31. R	epair & Upkeep of Farm Real Estate	1,451	1,438	
	epair & Oper. Mach, Trac, Irk, Auto	8,360	8,303	
33. R	epair & Upkeep of Irrig. Equip.	1	1	
34. R	epair & Upkeep of Custom Work Equip.	132	<u>132</u>	
35.	<u>Total All Repairs</u>	11,665	11,564	
36. W	ages of Hired Labor	4,793	4,785	
37. P	ersonal Property & Real Est. Taxes	2,838	1,407	
38. G	eneral Farm Expenses	4,552	4,531	
39. U	Lilities	2,543	2,500	
40. F	arm Capital Lease Expense	2,134	19,034	
41. T	otal Interest Payable This Year	XXXX	14,748	
42. 0	perator Interest Actually Paid	XXXX	14,672	
43.	Total Cash Operating Expense	124,358	152,408	
50. A	uto, Truck & Machinery Bought	13,606	13,536	
51. 1	rrigation Equipment Bought			
52. C	ustom Work Equipment Bought	32	32	
53. L	ivestock Equipment Bought	1,748	1,748	
54. 11	ew Real Estate: Buildings & Fences	4,611	4,535	
55. N	ew Real Estate: Land-Land Improvements	7,276	7,276	
57.	Total Capital Purchases	27,273	27,127	
58.	Total Farm Purchases	151,631	179,535	
	ecrease in Farm Capital (Not Incl. Cash)			
	nterest on Farm Capital: 7% Charge	42,836	10,074	
	upaid Family Labor	158	158	
	oard Furnished Hired Labor	6	6_	
64.	Total Farm Expense	194,631	189,773	
	eturn to Operator Labor & Mgmt. (GA/G2)-(G4)	27,965	23,293	
	umber of Operators		XXXX	
		1 08		
	ull Time Operator Equivalents	1.08	XXXX	
	eturn/Operator/Full Fime Oper. Equiv. (70/72)	25,894	XXXX	
74. *	Return: Cap. & Family Labor & Mymt.	XXXX	33,714	

Items			85	:	85	
			Ret. Farms	Low Re	et. Farms	
		Whole	Operator	 Whole	Operator	
<u>Sale</u>	of <u>Livestock</u> & <u>Livestock</u> <u>Products</u>	Farm	<u>Share</u>	<u>Farm</u>	Share	
2. 1	Dairy Cows	0.745				
	Dairy Products	2,745	2,531	92	92	
	Other Dairy Cattle	30,784	28,143	2,514	2,514	
	Beef Breeding Cattle	2,691	2,590	2,870	2,870	
	Beef Feeder Cattle	916	825	1,164	1,142	
	logs Complete & Mixed	33,581	33,581	28,968	28,087	
	logs Comprete & Mixed logs Finishing	59,630	58,591	38,202	37,502	
		26,725	26,725	8,679	8,679	
	logs Producing Feeder Pigs	3,983	3,983	1,122	1,122	
	Sleep, Goats, Wool: Breeding	.149	149	965	940	
	Sheep, Wool: Feeders	6	6	490	490	
	Poultry, All Fowl	XXXX	XXXX	4	4	
	ggs					
4. 0	Custom, Contract Livestock Feeding					
	Other Productive Livestock	37	37	XXXX	xxxx	
	ther Misc. Livestock Income	XXXX	XXXX	4	4	
7.	<u>Total Sales of Productive Livestock</u>	161,246	157,161	85,072	83,446	
ala a	f Crops		•	00,072	03,440	
<u> </u>	· 21.063					
1. W		1,245	1,205	1,225	1,225	
	urim		•	-,	- , 6. 6. 0	
3. 0	ther Small Grain	759	695	621	609	
4. C	orn	45,509	41,831	30,956		
5. S	oybeans	56,025	53,369	36,105	29,872	
5. S	unflowers	50,520	35,303	30,103	34,655	
7. Gı	rain Sorghum & Other Row Crops	3,779	3,779	110	110	
8. L	egumes & Other Roughage	832	805	118	118	
	rass Seed	032	603	8,000	7,997	
0. Fr	ruits & Nuts					
	egetables, Roadside Mkt./Specialty					
	ursery, Timber & Other	121				
	ale: Crops/Supply Purch. for Resale	121	121	XXXX	XXXX	
4.	Total Sales From Crops and Supplies	13,873	13,873	<u>7,526</u>	<u>7,526</u>	
	overnment Payments - Set Aside Acres	122,145	115,680	84,551	82,000	
	as Tax Refund	13,402	13,147	9,840	9,553	
	ncome From Work Off Farm	15	15	26	26	
	istom Work Enterprise Income	1,984	1,984	1,098	1,071	
A Pa	stronge Refunds (Cast)	XXXX	XXXX	374	374	
n ra	tronage Refunds (Cash)	519	519	359	359	
	tronage Refunds (Equity)	786	783	434	434	
	scellaneous Farm Income	4,763	4,763	3,405	3,404	
i.	Total Other Farm Income	21,469	21,211	15,535	15,220	
	Total Farm Operating Income	304,860	294,051	185,158	180,667	
	to, Truck, & Machinery Sold	1,050	1,050	1,514	1,514	
	rigation Equipment Sold			-,,	.,511	
	stom Work Equipment Sold					
	vestock Equipment Sold	23	23	68	68	
	ildings & Improvements Sold	476	XXXX	498	34	
	nd & Land Improvements Sold	2,954	159	4,814		
	rm Capital Lease Income	446	446		1,703	
	Total Farm Capital Sales	4,948	1,678	149 7 043	149 3 469	
•	Total Farm Sales	309,809	295,729	7,043	3,468	
. Ind	crease in Farm Capital (Not Incl. Cash)	53,789		192,201	184,136	
. Far	nily Living From the Farm		55,470	XXXX	XXXX	
•	Total Farm Receipts (58)+(60)+(61)	<u>290</u> 363,888	<u>271</u> 351,470	295 192,496	242	
τ			, ,,,	176,430	184,378	
. Tot	al Farm Operating Income (Line 47)		294,051		180,667	
Fot	al Cash Farm Operating Expense (68-L43)		232,008		157,452	
	C1 0 11 + 1				-0.1.00	
Net	Cash Operating Income (70)-(71)		62,043		23,215	

Items AVERAGES OF 424 FARMS

<u>Sale</u>	of Livestock & Livestock Products	Whole Farm	Operator Share
2.	Dairy Cows	1,217	1,175
3.	Dairy Products	12,200	11,677
4.	Other Dairy Cattle	1,652	1,607
5.	Beef Breeding Cattle	1,233	1,210
6.	Beef Feeder Cattle	21,674	21,485
7.	Hogs Complete & Mixed	38,008	36,652
8.	Hogs Finishing	15,740	15,714
9. 10.	Hogs Producing Feeder Pigs Sheep, Goats, Wool: Breeding	2,977 578	2,977 562
11.	Sheep, Wool: Feeders	98	98
12.	Poultry, All Fowl	12	12
13.	Eggs	187	187
14.	Custom, Contract Livestock Feeding	XXXX	XXXX
15.	Other Productive Livestock	36	31
16.	Other Misc. Livestock Income	11	11
17.	Total Sales of Productive Livestock	95,623	93,397
-, -			55,55,
<u>Sale</u>	of Crops		
21.	Wheat	1,066	1,028
22.	Durum	XXXX	XXXX
23.	Other Small Grain	926	858
24.	Corn	33,194	29,872
25.	Soybeans	41,059	38,217
26.	Sunflowers	29	29
27.	Grain Sorghum & Other Row Crops	1,487	1,481
28.	Legumes & Other Roughage	2,090	2,065
29.	Grass Seed		
30.	Fruits & Muts		
31. 32.	Vegetables, Roadside Mkt./Specialty	100	100
33.	Nursery, Timber & Other Sale: Crops/Supply Purch. for Resale	108	108
34.	Total Sales From Crops and Supplies	<u>7,678</u> 87,636	7,678
40.	Government Payments - Set Aside Acres	10,160	81,336 9,692
41.	Gas Tax Refund	14	14
42.	Income From Work Off Farm	1,553	1,541
43.	Custom Work Enterprise Income	1,302	1,302
441	Patronage Refunds (Cash)	413	413
44B	Patronage Refunds (Equity)	506	506
45.	Miscellaneous Farm Income	2,861	2,861
46.	Total Other Farm Income	16,808	16,328
47.	<u>Total Farm Operating Income</u>	200,067	191,061
50.	Auto, Truck, & Machinery Sold	1,182	1,111
51.	Irrigation Equipment Sold		
52.	Custom Work Equipment Sold		
53.	Livestock Equipment Sold	70	63
54.	Buildings & Improvements Sold	294	12
55.	Land & Land Improvements Sold	2,165	466
56.	Farm Capital Lease Income	<u>276</u>	<u>256</u>
57. 58.	Total Farm Capital Sales	3,987	1,907
50.	Increase in Farm Capital (Not Incl. Cach)	204,054	192,968
61.	Increase in Farm Capital (Not Incl. Cash) Family Living From the Farm	18,251	19,824
62.	Total Farm Receipts (58)+(60)+(61)	<u>291</u> 222,596	<u>274</u> 213,066
J. 1		555,330	213,000
70.	Total Farm Operating Income (Line 47)	XXXX	191,061
71.	Total Cash Farm Operating Expense (GB-L43)	XXXX	152,408
72.	Net Cash Operating Income (70)-(71)	XXXX	38,653
		G.	

TABLE 1 - SUMMARY OF FARM INVENTORIES * - 1989

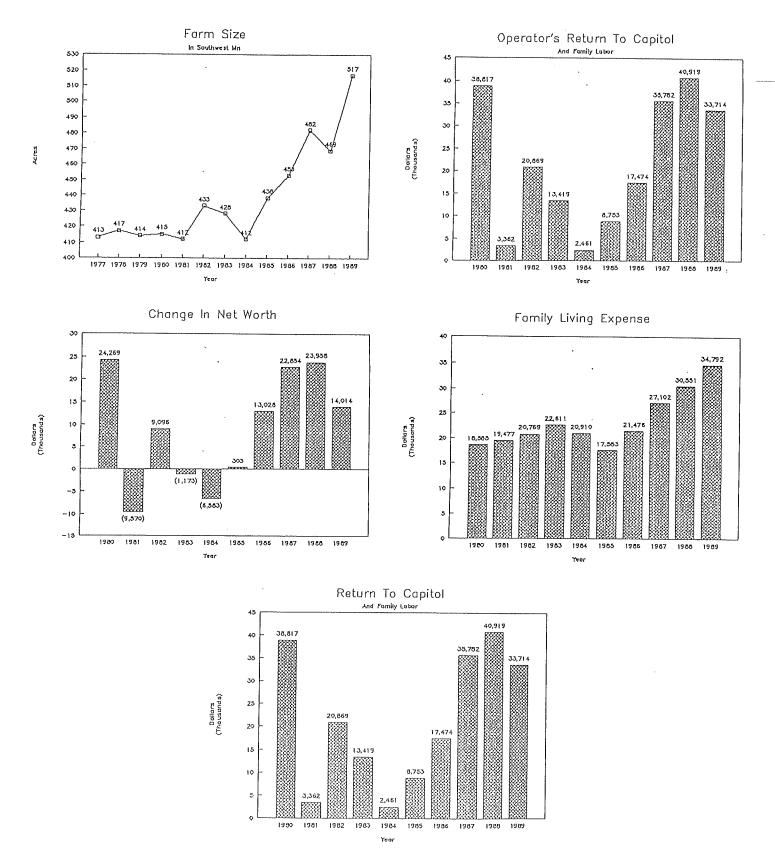
I tei	ns	84 FARMS HIGH PROFIT		84 FARMS LOW PROFIT	
	Measures of Farm Size				
2.	Acres - Total	665.9		536.2	
3.	- Tillable	629.0		508.4	
4.	Work Units - Crops	309.7		233.0	
5.	- Livestock	393.7		147.9	
6.	- Other	2.0		2.4	
7.	- Total	705.4		383.3	
8.	Workers - Operator(s) Year Equivalents	1.13		1.01	
9.	- Hired	.44		.24	
0.	- Custom	.02		.02	
1.	- Unpaid Family	03			
2.	- Total	1.62		1.27	
3.	Capital Invested - Per Worker	475,978		504,615	
4.	- Per Work Unit	1,093		1,672	
	Whole Farm Inventories				
_		<u>JAN 1</u>	<u>DEC 31</u>	<u>JAN 1</u>	<u>DEC 31</u>
2.	Feeder Cattle	15,124	19,033	20,022	22,293
3.	Market llogs	19,782	28,459	13,283	12,964
1.	Feeder Lambs	88	36	282	108
ō.	Poultry - All Types				
j.	Other Livestock	5,987	7,581	2,148	769
7.	Crops Held for Sale & Livestock Feed	88,247	101,511	72,283	61,065
3.	Supplies/Prepaids, Fuel & Lubricants	9,714	10,291	6,077	5,643
}.	Accounts Receivables & Hedging Acct. Equity	8,004	7,609	2,646	2,873
١.	Dairy Cows	10,861	11,512	690	595
•	Other Dairy	1,939	1,492		
. •	Beef Breeding	1,760	2,015	2,382	1,850
	Swine Breeding	9,308	10,692	6,997	7,166
	Sheep Breeding		68	834	973
	Other Breeding Livestock		15		
i.	Auto & Truck (Farm Share)	7,411	8,620	5,400	5,706
٠.	Power & Machinery	53,007	61,087	43,097	47,467
3.	Livestock Equipment	8,573	9,347	5,535	5,869
).	Custom Equipment				
١.	Irrigation Equipment			494	445
	Bare Land	445,202	456,933	417,845	416,141
	Land Improvements & Tile	4,625	4,949	4,218	3,982
	Buildings - Fences - Etc.	54,558	<u>56,729</u>	40,519	41,061
	Total Farm Capital	744,190	797,979	644,752	636,970
	Increase or Decrease in Total Farm Capital		53,789		-7,782

Items AVERAGES OF 424 FARMS

	<u>Measures of Farm Size</u>		
2.	Acres - Total	517.9	
3.	- Tillable	485.3	
4.	Work Units - Crops	232.0	
5.	- Livestock	216.7	
6.	- Other	8.9	
7.	- Total	457.7	
8.	Workers - Operator(s) Year Equivalents	1.08	
9.	- Hired	.24	
10.	- Custom	.02	
11.	- Unpaid Family	.02	
12.	- Total	1.36	
13.	Capital Invested - Per Worker	449,961	
14.	- Per Work Unit	1,337	
	Whole Farm Inventories	<u>Jan</u> <u>1</u>	<u>Dec</u> 31
22.	Feeder Cattle	12,426	13,595
23.	Market Hogs	14,825	17,148
24.	Feeder Lambs	87	58
25.	Poultry - All Types	11	30
26.	Other Livestock	2,635	2,736
27.	Crops Held for Sale & Livestock Feed	69,192	71,609
28.	Supplies/Prepaids, Fuel & Lubricants	6,939	6,106
29.	Accounts Receivables & Hedging Acct. Equity	3,094	3,286
30.	Dairy Cows	4,758	5,026
31.	Other Dairy	958	953
32.	Beef Breeding	2,667	2,653
33.	Swine Breeding	6,221	6,957
34.	Sheep Breeding	433	471
35.	Other Breeding Livestock	23	44
36.	Auto & Truck (Farm Share)	5,577	6,413
37.	Power & Machinery	41,864	46,494
38.	Livestock Equipment	6,070	6,515
39.	Custom Equipment	138	140
40.	Irrigation Equipment	98	88
50.	Bare Land	381,732	386,502
51.	Land Improvements & File	3,251	3,353
52.	Buildings - Fences - Etc.	39,823	40,896
60.	Total Farm Capital	602,822	621,073
70.	Increase or Decrease in Total Farm Capital		18,251

TABLE 500 - SUMMARY MANAGEMENT INFORMATION - 1989

Items	AVERAGE 424	HIGH 84	LOW 84
Farm Size			
2. Total Acres Operated	517.9	665.9	536.2
2A. Total Acres Owned	169.2	154.3	191.1
3. Tillable Acres Operated	485.3	629.0	508.4
3A. Tillable Acres Owned	150.8	137.3	174.7
4. Total Work Units	457.7	705.4	383.3
5. Total Full Time Equivalent Workers	1.36	1.62	1.27
Profit and Loss Analysis			
12. Return to Labor & Management-Whole Farm	27,965	79,959	-14,450
13. Full Time Operator Equivalent	1.08	1.13	1.01
14. Return to Capital, Farm Labor, & Management (O.S.)	33,714	74,050	581
5. Ratio: Total Expense to Total Receipts (0.S.)	0.89	0.83	1.06
6. Ratio: Cash Operating Exp. to Total Farm Op. Inc.	0.80	0.79	0.87
7. Ratio: Cash Operating Expense to Total Expenses	0.80	0.80	0.81
8. Ratio: Capital Turnover: Ave. Capital to Receipts: W.F.	2.75	2.12	3.33
9. Ratio: Capital Turnover: Ave. Capital to Recepits: 0.S.	1.68	1.38	2.00
O. Net Cash Operating Income	38,653	62,043	23,215
1. Interest Payable Per Work Unit	32.22	30.13	37.79
2. Interest Payable Per Dollar of Farm Operating Income	0.08	0.07	0.08
Balance Sheet Analysis			
1. Change in Total Assets	23,348	63,560	-3,595
2. Change in Total Liabilities	9,333	16,041	8,136
3. Change in Equity	14,014	47,518	-11,731
4. Current Ratio: End of Year	4.52	6.06	4.09
5. Working Ratio: End of Year	2.48	2.57	2.06
6. Fixed Ratio: End of Year	2.32	2.15	2.76
7. Net Capital Ratio: End of Year	2.40	2.37	2.37
8. Total Farm Assets/Work Unit	804	727	952
9. Total Farm Liabilities/Work Unit	380	342	454
amily <u>Information</u>			
1. Total Mon-Farm Income	12,012	15,581	15,056
2. Total Cash & Mon-Cash Family Living Expense	34,792	44,429	29,771
3. Total Dollars Available to Save or Reduce Debt	14,923	52,393	-10,576



THE FOUR GRAPHS ABOVE SHOW US WHAT HAPPENED TO AGRICULTURE IN SOUTHWESTERN MINNESOTA IN THE PAST DECADE.

Below is a Listing of the Schools Involved and the Instructors Responsible for these Programs.

CLASS LOCATION	INSTRUCTOR
Brewster	Gerald McConkey Dennis Schentzel Dale Schoberg
Fulda	Mel Faltinson Richard Amendt Charles Asman Douglas O'Neil
Granite Falls	Neale Deters Mike Resvick
Lakefield	Harry Gerdes John Clark Jim Ouverson Dennis Schroeder Jim Molenaar
Mt. Lake	Leland Thiesen Dwayne Eisfeld Dave Larson
Slayton	Chuck Lucht Richard Spitzner Cliff Vrieze Paul Bartz Robert Roesler Charles Worm
	Wayne Flynn Rolf Mahlberg

* * * * * * * * * * * * * * * * * *

The Analysis of the records and preparation of the report for the Southwest area is done under the direction of Al Brudelie, Area Ag Coordinator, at Southwestern Technical College - Jackson Campus. Directing in a supervisory capacity are Marlin Macholz, Director, Southwestern Technical College; Dennis Finstad, Campus Director; John Murray, Education Specialist, State Board of Vocational Technical Education; and Dr. Edgar Persons, Chairman of the University of Minnesota Agricultural Education Division. Data processing was done by Specialized Data Systems, Inc., Madison, Wisconsin. Special acknowledgments to Suzanne Lovell for her part in the preparation of this report.

INTRODUCTION

Farm Business Management Education has been a part of agriculture education programs in Minnesota schools since 1952. From the early cooperative efforts of the State Department of Education and the Department of Agriculture Education (University of Minnesota), the program has expanded to serve over 6,000 farm families each year in six Farm Management areas. Programs are now administered and managed by the State Board of Vocational Technical Education through the Technical Colleges and local school districts.

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. This purpose has not changed over the years.

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

- 1. Farm families enroll in a specific 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 sequence 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 educational 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 farm 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.

AL BRUDELIE AREA PROGRAM COORDINATOR

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