









Farm Business Management

Northern Minnesota

2017 ANNUAL REPORT



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A MEMBER OF THE MINNESOTA STATE SYSTEM

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2017 Annual Report - Executive Summary

The 2017 farm year can best be described as a year with wide variety in earnings and production. Some areas were able to have excellent yields for another year while the other areas had weather issues that greatly reduced expected production. Profits were up for each of Minnesota's major types of livestock operations: dairy, pork and beef. Still the median producer earned only \$23,489 from farm operations for the year. Hog producers had a big turn-around, after many lost money on pig production in 2016. For dairy and beef producers, however, profits remained at low levels by historical standards. For dairy farms, the average price received for their milk was up by over a dollar per cwt. compared to what was received in 2016, however that gain is a little misleading as prices were higher at the beginning of 2017 but softened quite a bit at the end of the year and into 2018.

Average net farm income for the 622 farms in the Northern Minnesota database was \$54,021 for 2017. This was

Financial Factors	2013	2014	2015	2016	2017
Average Net Farm Income	\$75,243	\$114,095	\$37,182	\$59,480	\$54,021
Median Net Farm Income	\$27,886	\$46,104	\$23,730	\$25,654	\$23,489

down from the \$59,480 reported in 2016. Median net farm income was

down slightly decreasing to \$23,489 in 2017, compared to \$25,654 in 2016. The declines in the yields of both corn and soybeans caused Northern Minnesota farm profits to remain low for the majority of farms and caused a negative net return for over 30% of farms. Dry conditions, hail, and wind damage impacted farms in some smaller, regionalized areas, causing additional problems in 2017.

Some key financial measures showed a slight decline compared to 2016. Working capital dropped to \$135,504 at the end of 2017 compared to \$145,543 at the end of 2016; a decrease of 6.8%. Working Capital shows the dollar amount that current assets can or cannot cover current liabilities. Working capital remains respectable for

most operations, but the concern becomes how long farms can handle the lower commodity prices with the current cost of farm inputs.

Financial Factors	2013	2014	2015	2016	2017
Working Capital	\$130,026	\$171,051	\$138,627	\$145,543	\$135,504
Working Capital as % of Gro	27.9%	25.4%	24.7%	25.1%	23.6%
Term Debt Coverage Ratio	1.31	1.75	0.88	1.22	1.18
Operating Expense Ratio	76.2%	73.1%	81.4%	77.1%	77.5%

Term Debt Coverage is a key financial measure that Ag lenders consider in loan decisions. The 2017 Northern Minnesota average was 1.18 compared to 1.22 in 2016. That average means approximately one half of the farms in this report had less than a 1.00 term debt coverage. Those farms needed to use their working capital to help make all their scheduled payments on intermediate, long-term and personal loans. Working capital was used to offset the shortage of income in those operations in 2017.

With modest profitability in 2017, the operating expense ratio came in at 77.5 %; which is in the high end of acceptable range based on the financial scorecard on the back cover of this report. 80% is the start of the red zone area for the operating expense ratio. This ratio indicates that for every dollar of farm revenue produced, it took 77.5 cents in 2017 to cover the annual operating expenses; excluding interest paid, loan payments or depreciation, and family living. When operating expenses take that large of a slice of the gross revenue, cash flow issues are created for most farms. The Northern Minnesota farms ended the 2016 year at 77.1%, compared to 81.4% in 2015.

Trend information for the 2013-2017 Financial Summary can be found on page 4 of this report. A quick look at 2017 can be found on page 5, Year at a Glance. The impact of spending on the farm economy of Northern Minnesota by the average farmer in this report can be found on page 8.

2017 Annual Report - Executive Summary

Our two major livestock enterprises in Northern Minnesota are Dairy and Beef Cow-Calf operations. On a statewide basis, the Dairy Cow enterprise generated a Net Return/cow of only \$342.83 in 2017, an increase of

\$234 per cow from 2016. This is still \$112 below the 5 year average and a decrease of \$906 from the 5 year high experienced in 2014.

NOTE: This increase resulted from higher milk prices during the first half of 2017. During the second half of the year, producers

Statewide FBM Data	Dairy (Excluding Organic & Organic Transistion)								
Statewide Folvi Data	2013	2014	2015	2016	2017				
Gross Margin	\$4,400	\$5,618	\$4,187	\$3,767	\$4,123				
Feed Cost / Cow	\$2,393	\$2,430	\$2,108	\$1,899	\$1,937				
Dir & Ovhd Expense/Cow	\$4,113	\$4,369	\$3,897	\$3,659	\$3,780				
Net Return / Cow	\$287	\$1,249	\$289	\$109	\$343				
Average Milk Price	\$20.20	\$24.36	\$17.75	\$16.33	\$17.72				
Cost of Prod w Lab&Mgmt/Cwt	\$19.80	\$20.00	\$17.42	\$16.65	\$17.08				

experienced a much lower price and most area farms operated at a loss. Even though there has been a significant drop in price since mid-year, the early year strength in the price received for milk resulted in an increase to \$17.72 per cwt compared to \$16.33 per cwt in 2016.

Beef Cow/Calf enterprises showed a negative Net Return per cow of \$-19.01 in 2017. 2016 showed a Net

Statewide FBM Data	Beef Cow-Calf							
Statewide Fbivi Data	2013	2014	2015	2016	2017			
Gross Margin	\$778	\$1,295	\$864	\$633	\$398			
Feed Cost / Cow	\$479	\$508	\$439	\$413	\$395			
Dir & Ovhd Expense/Cow	\$741	\$844	\$747	\$718	\$717			
Net Return / Cow	\$37	\$452	\$117	(\$84)	(\$19)			
Ave Price per CWT calf sold	\$152.83	\$212.33	\$206.46	\$156.00	\$147.00			

Return of -\$84 per cow, while 2015 had a \$117 Net Return. Feed costs were lower for Beef Cow/Calf producers, which helped reduce the loss in 2017.

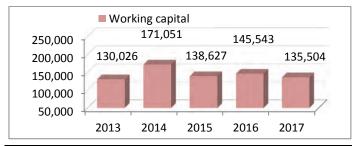
2017 was an interesting year for crop yields in Minnesota. Some isolated areas experienced weather challenges that lowered yields in those areas, but some farms produced excellent crops, especially the spring wheat crop. The average yield per acre for the northern half of Minnesota was 159 bushels for corn, 34 bushels for soybeans, and 70 bushels for wheat. Net returns decreased in both soybean and corn enterprises; while wheat enterprises showed a positive net return per acre of \$103.10, the highest in 5 years. Total direct and overhead expense for the crops listed below showed a slight increase, due in part to increased direct crop inputs.

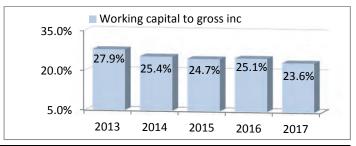
The chart below displays the 5-year history of selected factors for these crops:

				Gross	Dir & Ovhd		Dir & Ovhd
Rented Land		Yield per	Value per	Revenue	Expense	Net Return	Expense
		Acre	Unit	/Acre	/Acre	/Acre	/Unit
	2013	105.4	\$4.01	\$494.27	\$564.51	(\$70.24)	\$5.36
	2014	118.2	\$3.49	\$521.63	\$611.16	(\$89.53)	\$5.17
Corn	2015	164.2	\$3.32	\$558.23	\$585.59	(\$27.36)	\$3.57
	2016	178.4	\$3.01	\$547.14	\$563.62	(\$16.48)	\$3.16
	2017	159.4	\$3.06	\$510.64	\$575.37	(\$64.73)	\$3.62
	2013	30.6	\$12.59	\$402.48	\$310.57	\$91.91	\$10.15
	2014	32.8	\$9.78	\$342.20	\$329.59	\$12.61	\$10.04
Soybeans	2015	40.1	\$8.37	\$347.59	\$320.92	\$26.67	\$8.01
	2016	46.4	\$9.24	\$434.78	\$316.46	\$118.32	\$6.83
	2017	33.9	\$9.09	\$332.97	\$329.60	\$3.36	\$9.72
	2013	65.7	\$6.32	\$422.88	\$355.27	\$67.61	\$5.41
C	2014	62.4	\$5.56	\$361.53	\$351.33	\$10.20	\$5.63
Spring	2015	66.3	\$5.02	\$346.93	\$330.46	\$16.47	\$4.99
Wheat	2016	64.2	\$4.90	\$321.18	\$318.65	\$2.54	\$4.97
	2017	70.5	\$5.91	\$427.38	\$324.29	\$103.10	\$4.60

Financial Trend Summary Northern Minnesota Farm Business Management Data

	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>
Income Statement					
Gross Cash Farm Income	595,950	658,798	551,703	557,016	562,001
Total Cash Farm Expense	467,633	522,485	469,847	473,748	470,535
Net Cash Farm Income	128,317	136,314	81,857	83,268	91,466
Inventory change	-16,741	18,383	-5,368	20,084	7,106
Depreciation	-36,037	-40,880	-40,070	-44,472	-44,668
Net Farm Income From Operations	75,539	113,816	36,419	58,880	53,905
Gain or loss on capital sales	-296	279	763	601	116
Average Net Farm Income	75,243	114,095	37,182	59,480	54,021
Median Net Farm Income	27,886	46,104	23,730	25,654	23,489
Profitability (Cost)					
Rate of Return on Assets	4.4%	6.4%	1.4%	2.7%	2.5%
Rate of Return on Equity	4.5%	8.3%	-0.9%	1.6%	1.2%
Operating Profit Margin	12.7%	17.8%	4.7%	9.2%	8.4%
Asset Turnover Rate	34.6%	36.2%	29.8%	29.6%	30.1%
Liquidity & Repayment (end of year)					
Current Assets	320,139	379,735	362,417	395,719	372,786
Current Liabilities	190,113	208,684	223,790	250,175	237,282
Current Ratio	1.68	1.82	1.62	1.58	1.57
Working capital	130,026	171,051	138,627	145,543	135,504
Working capital to gross inc	27.9%	25.4%	24.7%	25.1%	23.6%
Term Debt Coverage Ratio	1.31	1.75	0.88	1.22	1.18
Replacement coverage ratio	1.15	1.50	0.76	1.01	0.96
Term debt to EBITDA	-	2.45	4.33	3.63	3.85
Solvency (Market)					
Number of Farms	412	566	588	615	622
Total Assets	1,685,236	2,032,113	2,003,026	1,842,910	1,837,006
Total Liabilities	785,428	883,164	895,016	803,433	794,024
Net Worth	899,809	1,148,949	1,108,011	1,039,477	1,042,982
Net Worth Change	64,982	111,833	30,645	43,243	38,476
Farm Debt to Asset Ratio	44%	44%	47%	46%	46%
Total Debt to Asset Ratio	47%	43%	45%	44%	43%
Change in total net worth %	-	11%	3%	4%	4%
Nonfarm Information					
Net Nonfarm Income	26,161	25,050	28,964	27,427	28,846
Farms Reporting Liv Expenses	51	88	76	101	76
Total Family Living Expense	43,192	51,248	48,783	47,828	50,678
Total Living, Invest, & Cap Purch	60,826	69,840	74,687	59,233	65,631
Crop Acres					
Total Crop Acres	749	697	688	713	755
Total Crop Acres Owned	278	253	248	239	257
Total Crop Acres Cash Rented	462	432	428	466	492
Total Crop Acres Share Rent	9	12	12	8	6
Machinery value per crop acre	-	607	542	622	596





<u>Year at a Glance</u>	Northern	State FBM	Local	Your Farm	Your Farm
Data for the Average Farm	Minnesota	Data	Area	Data	Goal
	622	2164			
	Farms	<u>Farms</u>			
Income Statement					
Gross Cash Farm Income	\$562,001	\$735,140			
Total Cash Operating Expense	\$470,535	\$635,906			
Net Cash Farm Income	\$91,466	\$99,234			
Net Operating Profit	\$98,573	\$108,805			
Net Farm Income	\$54,021	\$59,543			
Median Farm Income	\$23,489	\$26,556			
Balance Sheet (Market)					
Total Assets - 12/31	\$2,231,661	\$2,955,907			
Total Liabilities - 12/31	\$973,963	\$1,261,663			- <u></u> -
Net Worth - 12/31	\$1,257,698	\$1,694,244			- <u></u> -
Change in Net Worth	\$49,963	\$63,209			- <u></u> -
Financial Standards Measures					
Working Capital - 12/31	\$135,504	\$192,178			- <u></u> -
Debt to Asset Ratio - 12/31	46%	45%			- <u></u> -
Rate of Return on Farm Assets - Cost	2.5%	2.2%			- <u></u> -
Rate of Return on Farm Equity - Cost	1.2%	0.6%			
Term Debt Coverage Ratio	1.18	1.10			- <u></u> -
Asset Turnover Rate	30.1%	32.1%			
Operating Expense Ratio	77.5%	80.7%			- <u></u> -
Interest Expense Ratio	5.3%	4.8%			
Operator Information					
Average Age of the Farmer	47.1	48.0			
Average Years Farming	22.2	24.1		- -	
Personal Spending & Income					
Total Cash Family Living Expense	\$50,678	\$58,534			
Total Non Farm Income	\$28,846	\$33,090			

Net Farm Income dollars are used to pay for Family Living, Social Security and Income Tax, Retirement Accounts, Medical and Health expenses, and loan principle payments. A positive balance indicates revenue for other uses, while a negative balance indicates a need for revenue from other sources.

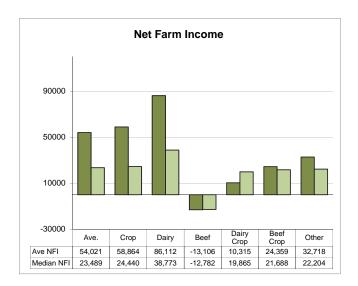
The following list shows expenses for the year:

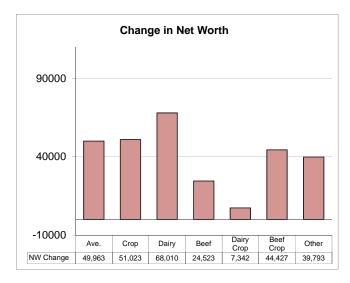
,	,	Northern Minnesota	State Data
Net Farm Income	(+)	\$54,021	\$59,543
Depreciation	(+)	\$44,668	\$51,002
Family Living (Excl Health/Med)	(-)	\$38,677	\$49,652
Social Security and Income Tax	(-)	\$6,717	\$9,829
Health and Medical Expense	(-)	\$7,478	\$9,891
Retirement Accounts	(-)	\$653	\$1,781
Principal Payments	(-)	\$62,121	\$63,286
Balance	(=)	-\$16,957	-\$23,894

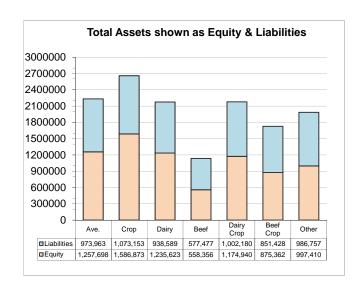
Financial Summary Northern Minnesota Farm Business Management Data (Farms Sorted By Farm Type)

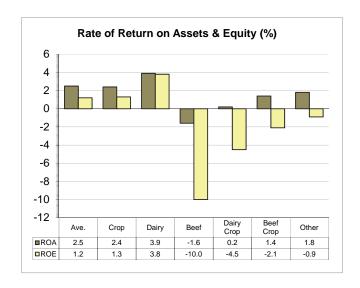
	Avg. Of All Farms	<u>Crop</u>	<u>Dairy</u>	Beef	Crop and Dairy	Crop and Beef	Other
Number of farms	622	227	189	36	31	42	92
Income Statement Gross cash farm income Total cash farm expense Net cash farm income Inventory change Depreciation Net farm income from operations Gain or loss on capital sales Average net farm income Median net farm income	562,001	571,451	716,749	172,545	491,807	405,912	452,605
	470,535	473,057	597,215	189,399	410,921	339,770	375,733
	91,466	98,394	119,535	-16,854	80,886	66,141	76,872
	7,106	9,272	17,758	15,230	-27,149	-19,244	-212
	-44,668	-48,946	-50,914	-11,680	-44,360	-23,305	-44,175
	53,905	58,720	86,379	-13,303	9,376	23,592	32,485
	116	143	-267	197	938	767	234
	54,021	58,864	86,112	-13,106	10,315	24,359	32,718
	23,489	24,440	38,773	-12,782	19,865	21,688	22,204
Profitability (cost) Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	2.5 %	2.4 %	3.9 %	-1.6 %	0.2 %	1.4 %	1.8 %
	1.2 %	1.3 %	3.8 %	-10.0 %	-4.5 %	-2.1 %	-0.9 %
	8.4 %	7.7 %	12.4 %	-12.2 %	0.6 %	5.7 %	6.2 %
	30.1 %	31.4 %	31.9 %	13.3 %	24.7 %	25.2 %	28.7 %
Profitability (market) Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	2.6 %	2.3 %	3.6 %	0.0 %	0.7 %	1.9 %	2.6 %
	1.9 %	1.8 %	3.8 %	-4.1 %	-2.3 %	0.0 %	1.7 %
	10.5 %	9.3 %	13.3 %	-0.2 %	3.4 %	9.4 %	11.0 %
	24.5 %	24.9 %	27.2 %	10.5 %	19.2 %	19.7 %	23.5 %
Liquidity & Repayment (end of year) Current assets Current liabilities Current ratio Working capital Change in working capital Working capital to gross inc Term debt coverage ratio Replacement coverage ratio Term debt to EBITDA	372,786	537,984	256,947	162,029	290,863	318,465	332,180
	237,282	315,594	151,750	120,746	185,952	252,573	263,662
	1.57	1.70	1.69	1.34	1.56	1.26	1.26
	135,504	222,390	105,198	41,282	104,911	65,892	68,518
	-307	-9,654	-4,245	14,716	-25,510	3,814	32,645
	23.6 %	37.8 %	14.3 %	22.0 %	22.2 %	16.9 %	14.6 %
	1.18	1.13	1.48	0.65	0.75	0.89	1.04
	0.96	0.84	1.31	0.60	0.59	0.75	0.88
	3.85	3.27	3.47	18.70	6.84	5.54	4.44
Solvency (end of year at cost) Number of farms Total assets Total liabilities Net worth Net worth change Farm debt to asset ratio Total debt to asset ratio Change in earned net worth %	622	227	189	36	31	42	92
	1,837,006	2,134,822	1,875,540	916,133	1,716,861	1,369,582	1,644,650
	794,024	834,912	784,808	507,705	843,715	713,009	827,265
	1,042,982	1,299,909	1,090,731	408,429	873,146	656,573	817,385
	38,476	36,046	62,798	12,027	-4,313	36,842	21,946
	46 %	42 %	44 %	60 %	51 %	55 %	54 %
	43 %	39 %	42 %	55 %	49 %	52 %	50 %
	4 %	3 %	6 %	3 %	0 %	6 %	3 %
Solvency (end of year at market) Number of farms Total assets Total liabilities Net worth Total net worth change Farm debt to asset ratio Total debt to asset ratio Change in total net worth %	622	227	189	36	31	42	92
	2,231,661	2,660,026	2,174,212	1,135,833	2,177,120	1,726,790	1,984,167
	973,963	1,073,153	938,589	577,447	1,002,180	851,428	986,757
	1,257,699	1,586,873	1,235,623	558,386	1,174,940	875,362	997,409
	49,963	51,023	68,010	24,523	7,342	44,427	39,793
	46 %	43 %	46 %	54 %	47 %	52 %	53 %
	44 %	40 %	43 %	51 %	46 %	49 %	50 %
	4 %	3 %	6 %	5 %	1 %	5 %	4 %
Nonfarm Information Net nonfarm income Farms reporting living expenses Total family living expense Total living, invest, cap. purch	28,846	34,114	16,578	51,586	21,204	37,450	31,062
	76	22	27	-	5	6	16
	50,678	53,615	52,231	-	34,552	37,434	54,024
	65,631	69,923	65,806	-	47,451	37,170	75,790
Crop Acres Total crop acres Total crop acres owned Total crop acres cash rented Total crop acres share rented Machinery value per crop acre	755	1,282	316	236	609	616	671
	257	402	140	154	231	210	208
	492	871	174	72	378	398	456
	6	9	2	10	-	9	6
	596	472	1,165	571	883	538	590

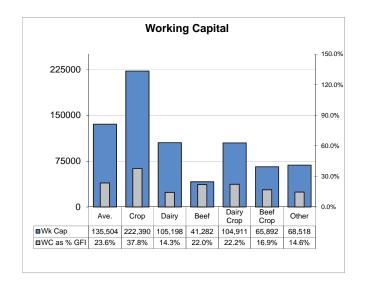
Selected Factors by Type of Farm

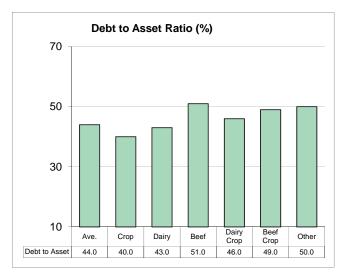




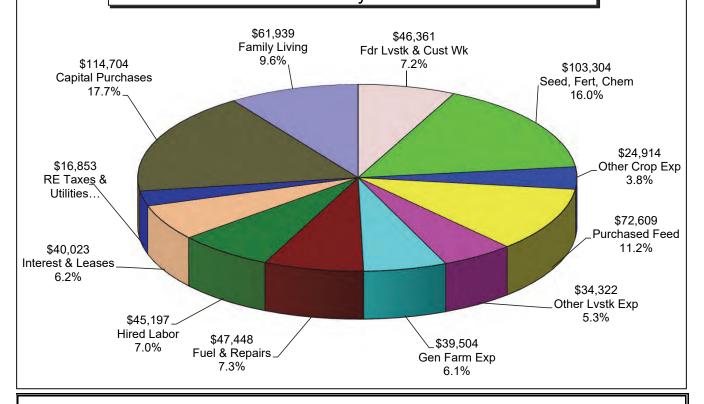








Each farmer, on average, spent \$647,178 in the Greater Community in 2017



Average Money Spent by Each Farmer in the Greater Community: \$647,178

Average Money Spent by Each Farmer in a 40 Yr Career: \$25,887,120 Money Spent in Community by 622 Farmers: \$402,544,716

Report Overview

Farm Business Management Education has been a part of agricultural education programs in Minnesota since 1953. FBM Programs are now an integral part of the Minnesota State System, delivered through eight two-year colleges. In 2017, the Northern Minnesota Annual Report is an expansion of the 15-year partnership between Northland Community & Technical College and Central Lakes College Farm Business Management Programs; to include Alexandria Technical & Community College, Ridgewater College, and St. Cloud Technical & Community Colleges.

This report was prepared under the direction of Ron Dvergsten, Josh Tjosaas, and DelRay Lecy through AgCentric, Northern Center of Excellence for Agriculture. A special thank you goes to Keith Olander, AgCentric Director & Central Lakes College Dean, for his leadership.

The tables in this report were created using FINPACK and RankEm Central, copyrighted software of the Center for Farm Financial Management, University of Minnesota.

The financial portion of the report, found in the first 26 pages, uses a standard format for each table. Data from the analysis system is printed in a four column format, which includes: Average, Low, Middle, & High. The High, Middle, & Low ranges are calculated based on a 20% slice of the farms in the total group.

The enterprise tables begin on page 30. Each of these tables consist of: a size indicator, a total & per unit income, direct & overhead expenses, and other information. Costs which are considered operating, whether easily assigned or are allocated, are listed as Direct Expenses. Costs which are general in nature, whether fixed or variable, are listed as Overhead Expenses.

The criteria for determining the 20% categories in each area are listed below:

Analysis Section
Financial
Crops
Statewide Livestock

<u>Criteria to determine the "20%" categories</u> Net Farm Income Return to Overhead Return to Overhead

Financial Summary Northern Minnesota Farm Business Management Data (Farms Sorted By Number of Years Farming)

	Avg. Of All Farms	10 or Less	<u> 11 - 20</u>	21 - 30	<u>31 - 40</u>	Over 40
Number of farms	622	155	137	94	136	100
Income Statement Gross cash farm income Total cash farm expense Net cash farm income Inventory change Depreciation Net farm income from operations Gain or loss on capital sales Average net farm income Median net farm income	562,001	291,384	583,216	560,855	784,927	650,293
	470,535	253,130	497,563	465,896	655,429	523,389
	91,466	38,253	85,652	94,959	129,498	126,904
	7,106	18,205	17,301	-5,683	13,932	-21,324
	-44,668	-20,754	-41,219	-50,980	-62,250	-56,614
	53,905	35,705	61,735	38,295	81,181	48,966
	116	102	397	-875	1,029	-560
	54,021	35,808	62,132	37,420	82,210	48,406
	23,489	21,127	19,081	19,644	32,173	29,417
Profitability (cost) Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	2.5 %	3.0 %	3.7 %	1.4 %	2.8 %	1.6 %
	1.2 %	2.3 %	3.3 %	-0.7 %	1.8 %	-0.3 %
	8.4 %	8.4 %	10.8 %	5.3 %	9.5 %	6.2 %
	30.1 %	36.0 %	34.6 %	25.9 %	29.8 %	26.5 %
Profitability (market) Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	2.6 %	4.3 %	3.5 %	1.4 %	2.7 %	1.8 %
	1.9 %	5.8 %	3.4 %	0.0 %	2.1 %	0.8 %
	10.5 %	13.5 %	11.4 %	6.8 %	11.0 %	9.2 %
	24.5 %	32.1 %	30.3 %	20.4 %	24.3 %	19.5 %
Liquidity & Repayment (end of year) Current assets Current liabilities Current ratio Working capital Change in working capital Working capital to gross inc Term debt coverage ratio Replacement coverage ratio Term debt to EBITDA	372,786	178,387	344,865	398,284	515,993	493,625
	237,282	124,322	256,901	251,659	294,523	294,131
	1.57	1.43	1.34	1.58	1,75	1.68
	135,504	54,066	87,963	146,625	221,470	199,494
	-307	7,553	-16,811	-15,733	7,713	13,715
	23.6 %	17.2 %	14.4 %	26.1 %	27.6 %	31.3 %
	1.18	1.44	1.32	0.90	1.26	0.97
	0.96	1.30	1.13	0.71	1.01	0.75
	3.85	3.87	4.01	4.36	3.30	4.15
Solvency (end of year at cost) Number of farms Total assets Total liabilities Net worth Net worth change Farm debt to asset ratio Total debt to asset ratio Change in earned net worth %	622	155	137	94	136	100
	1,837,006	909,773	1,687,584	2,141,797	2,483,675	2,312,952
	794,024	490,099	871,911	848,097	930,571	921,868
	1,042,982	419,674	815,673	1,293,700	1,553,104	1,391,084
	38,476	39,864	46,240	21,203	53,262	21,815
	46 %	57 %	54 %	43 %	40 %	43 %
	43 %	54 %	52 %	40 %	37 %	40 %
	4 %	10 %	6 %	2 %	4 %	2 %
Solvency (end of year at market) Number of farms Total assets Total liabilities Net worth Total net worth change Farm debt to asset ratio Total debt to asset ratio Change in total net worth %	622	155	137	94	136	100
	2,231,661	1,014,163	1,911,554	2,667,678	3,018,492	3,077,385
	973,963	541,667	1,008,407	1,071,071	1,187,538	1,215,088
	1,257,699	472,496	903,147	1,596,608	1,830,954	1,862,298
	49,963	53,794	49,907	25,930	71,964	36,770
	46 %	56 %	55 %	43 %	42 %	42 %
	44 %	53 %	53 %	40 %	39 %	39 %
	4 %	13 %	6 %	2 %	4 %	2 %
Nonfarm Information Net nonfarm income Farms reporting living expenses Total family living expense Total living, invest, cap. purch	28,846	36,596	30,010	26,816	23,492	24,429
	76	15	21	17	14	9
	50,678	43,784	46,639	60,944	44,289	62,138
	65,631	45,686	58,096	78,426	57,850	104,393
Crop Acres Total crop acres Total crop acres owned Total crop acres cash rented Total crop acres share rented Machinery value per crop acre	755	479	715	806	911	979
	257	82	171	297	346	486
	492	395	539	498	563	479
	6	2	5	11	1	14
	596	393	533	687	678	641

Financial Summary Northern Minnesota Farm Business Management Data (Farms Sorted By Gross Farm Income)

Avg. Of All Farms	Less than 100,000	100,001 - 250,000	250,001 - 500,000	500,001 - 	1,000,001- 2,000,000	Over
622	105	146	160	126	67	18
562,001	54,287	172,612	364,677	725,665	1,420,747	4,093,947 3,406,655
91,466 7,106	-7,210 8,308	23,407 5,362	65,238 527	123,151 7,133	237,391 3,948	687,292 84,303
53,905 116	-8,971 -36	13,003 430	34,741 173	74,313 197	120,075 505	-237,955 533,639 -4,083
54,021 23,489	-9,007 -4,133	13,433 17,699	34,914 36,732	74,510 78,624	120,579 131,471	529,557 207,998
2.5 % 1.2 %	-3.5 % -11.7 %	0.3 % -4.1 %	1.8 % -0.5 %	2.8 % 1.7 %	2.4 % 1.3 %	6.3 % 7.3 %
8.4 % 30.1 %	-28.7 % 12.1 %	1.4 % 23.0 %	6.7 % 26.9 %	9.1 % 30.7 %	7.7 % 31.6 %	15.8 % 39.8 %
2.6 %	-0.8 %	1.3 %	2.1 %	3.0 %	2.0 %	5.8 %
10.5 % 24.5 %	-4.2 % -8.3 % 9.5 %	-0.7 % 7.4 % 16.9 %	10.0 % 21.1 %	2.7 % 11.8 % 24.9 %	7.7 % 25.5 %	7.4 % 15.5 % 37.6 %
372,786	49,920	122,518	240,291	518,975	1,031,831	1,987,419
1.57 135,504	1.17 7,277	1.60 45,895	1.56 85,873	1.62 198,752	1.58 379,275	1,286,058 1.55 701,361
-307 23.6 % 1.18	20,802 11.6 % 0.76	2,426 25.5 % 0.99	-2,767 23.3 % 1.11	4,848 26.9 % 1.12	26.3 % 1.08	-30,062 16.5 % 1.87
0.96 3.85	0.66 20.35	0.82 6.43	0.89 4.31	0.89 3.80	0.89 3.28	1.58 2.36
622 1.837.006	105 557.018	146 839.085	160 1.365.112	126 2.329.346	67 4.203.666	18 9,336,846
794,024 1,042,982	274,590 282,429	407,243 431,842	590,896 774,216	1,018,158 1,311,189	1,778,056 2,425,610	3,535,132 5,801,714 379,269
46 % 43 %	56 % 49 %	54 % 49 %	48 % 43 %	47 % 44 %	43 % 42 %	379,209 39 % 38 % 7 %
2,231,661 973,963	689,240 306,966	1,099,741 481,570	1,703,656 712,584	2,845,683 1,256,170	5,172,650 2,302,642	18 9,858,471 4,260,898
49,963 46 %	18,079 49 %	26,215 47 %	991,072 38,585 46 %	67,950 47 %	59,617 46 %	5,597,573 367,860 45 %
44 % 4 %	45 % 5 %	44 % 4 %	42 % 4 %	44 % 4 %	45 % 2 %	43 % 7 %
28,846 76	47,420 5	34,064	24,640	24,831 16	11,586	7,918
50,678 65,631	45,494 44,091	38,829 42,195	48,455 60,407	67,102 102,678	-	- -
755 257	124	300 127	542 204	1,047	2,071 667	3,088
492 6 596	75 47 2 717	177 172 1 569	204 334 4 580	710 7 7 577	1,376 28 598	803 2,285 - 657
	562,001 470,535 91,466 7,106 -44,668 53,905 116 54,021 23,489 2.5 % 1.2 % 8.4 % 30.1 % 2.6 % 1.9 % 10.5 % 24.5 % 372,786 237,282 1.57 135,504 -307 23.6 % 1.18 0.96 3.85 622 1,837,006 794,024 1,042,982 38,476 46 % 43 % 4 % 622 2,231,661 973,963 1,257,699 49,963 46 % 44 % 4 % 28,846 76 50,678 65,631	All Farms 100,000 622 105 562,001 54,287 470,535 61,498 91,466 -7,210 7,106 8,308 -44,668 -10,069 53,905 -8,971 116 -36 54,021 -9,007 23,489 -4,133 2.5 % -3.5 % 1.2 % -11.7 % 8.4 % -28.7 % 30.1 % 12.1 % 2.6 % -0.8 % 1.9 % -4.2 % 10.5 % -8.3 % 24.5 % 9.5 % 372,786 49,920 237,282 42,643 1.57 1.17 135,504 7,277 -307 20,802 23.6 % 11.6 % 1.18 0.76 0.96 0.66 3.85 20.35 622 105 1,837,006 557,018 794,024 274,509	All Farms 100,000 250,000 622 105 146 562,001 54,287 172,612 470,535 61,498 149,205 91,466 -7,210 23,407 7,106 8,308 5,362 -44,668 -10,069 -15,766 53,905 -8,971 13,003 116 -36 430 54,021 -9,007 13,433 23,489 -4,133 17,699 2.5 % -3.5 % 0.3 % 1.2 % -11.7 % -4.1 % 30.1 % 12.1 % 23.0 % 2.6 % -0.8 % 1.3 % 1.9 % -4.2 % -0.7 % 10.5 % -8.3 % 7.4 % 24.5 % 9.5 % 16.9 % 372,786 49,920 122,518 237,282 42,643 76,623 1.57 1.17 1.60 135,504 7,277 45,895 -307 20,802	All Farms 100,000 250,000 500,000 622 105 146 160 562,001 54,287 172,612 364,677 470,535 61,498 149,205 299,439 91,466 -7,210 23,407 65,238 7,106 8,308 5,362 527 44,668 -10,069 -15,766 -31,025 53,905 -8,971 13,003 34,741 116 -36 430 173 54,021 -9,007 13,433 34,914 23,489 -4,133 17,699 36,732 2.5 % -3.5 % 0.3 % 1.8 % 1.2 % -11.7 % -4.1 % -0.5 % 8.4 % -28.7 % 1.4 % 6.7 % 30.1 % 12.1 % 23.0 % 26.9 % 2.6 % -0.8 % 1.3 % 2.1 % 1.9 % -4.2 % -0.7 % 0.9 % 1.5 % -8.3 % 7.4 % 10.0 %	All Farms 100,000 250,000 500,000 1,000,000 622 105 146 160 126 562,001 54,287 172,612 364,677 725,665 470,535 61,498 149,205 299,439 602,514 91,466 -7,210 23,407 65,238 123,151 7,106 8,308 5,362 527 7,133 44,668 -10,069 -15,766 -31,025 -55,971 116 -36 430 173 197 54,021 -9,007 13,433 34,914 74,510 23,489 -4,133 17,699 36,732 78,624 2.5 % -3.5 % 0.3 % 1.8 % 2.8 % 1.2 % -11.7 % -4.1 % -0.5 % 1.7 % 8.4 % -28.7 % 1.4 % 6.7 % 9.1 % 30.1 % 12.1 % 3.0 % 2.1 % 3.0 % 1.9 % -4.2 % -0.7 % 0.9 % 2.7 % <td>### All Farms 100,000 250,000 500,000 1,000,000 2,000,000 ### 622</td>	### All Farms 100,000 250,000 500,000 1,000,000 2,000,000 ### 622

Financial Summary Northern Minnesota Farm Business Management Data (Farms Sorted By Total Acres)

	•						
	Less than 100	101 - <u>250</u>	251 - 500	501 - <u>1,000</u>	1,001 - <u>1,500</u>	1,501 - 2,000	2,001 - 5,000
Number of farms	100	140	121	116	51	29	61
Income Statement							
Gross cash farm income	235,718	242,668	378,331	526,389	789,539	952,118	1,705,140
Total cash farm expense	202,570	202,160	320,505	445,011	656,310	805,271	1,404,613
Net cash farm income	33,148	40,507	57,827	81,378	133,229	146,847	300,527
Inventory change Depreciation	4,639 -15,462	5,046 -18,327	13,192 -33,869	-4,956 -48,298	-17,962 -68,998	32,403 -71,986	62,714 -126,167
Net farm income from operations	22,325	27,227	37,149	28,124	46,268	107,264	237,074
Gain or loss on capital sales	125	43	842	-263	157	-79	1,544
Average net farm income	22,450	27,269	37,991	27,862	46,425	107,185	238,617
Median net farm income	9,004	15,828	26,624	28,400	41,740	104,530	140,452
Profitability (cost)	1.8 %	1.9 %	1.8 %	1.2 %	1.4 %	3.5 %	4.7 %
Rate of return on assets Rate of return on equity	-0.8 %	-0.5 %	-0.3 %	-1.7 %	-0.6 %	3.5 % 3.5 %	4.7 % 5.1 %
Operating profit margin	6.6 %	7.9 %	6.6 %	4.6 %	5.2 %	10.0 %	13.2 %
Asset turnover rate	26.5 %	24.7 %	27.5 %	26.8 %	27.6 %	34.5 %	35.8 %
Profitability (market)							
Rate of return on assets	1.4 %	2.3 %	2.4 %	2.3 %	1.7 %	3.4 %	3.5 %
Rate of return on equity	-0.6 % 6.8 %	1.1 % 11.8 %	1.5 % 10.7 %	1.2 % 10.9 %	0.5 % 7.6 %	4.1 % 11.7 %	3.7 % 11.6 %
Operating profit margin Asset turnover rate	21.2 %	19.6 %	22.1 %	20.8 %	22.3 %	29.3 %	29.8 %
Liquidity & Repayment (end of year)							
Current assets	81,769	114,325	209,643	330,791	556,861	758,959	1,360,459
Current liabilities	77,677	75,450	125,513	224,108	364,271	441,257	785,737
Current ratio Working capital	1.05 4,091	1.52 38,874	1.67 84,129	1.48 106,683	1.53 192,590	1.72 317,702	1.73 574,722
Change in working capital	-8,860	-765	4,970	-2,884	-3,076	72,575	3,279
Working capital to gross inc	1.7 %	15.7 %	21.5 %	20.2 %	24.4 %	33.0 %	32.0 %
Term debt coverage ratio	1.30	1.18	1.25	0.88	0.82	1.48	1.65
Replacement coverage ratio Term debt to EBITDA	1.09 4.79	1.03 4.87	1.03 4.40	0.73 5.39	0.71 4.28	1.13 2.70	1.28 2.23
Solvency (end of year at cost)							
Number of farms	100	140	121	116	51	29	61
Total assets	758,256	895,154	1,295,164	1,889,220	2,844,616	2,911,659	4,871,050
Total liabilities	376,066	429,729	571,732	874,540	1,095,845	1,132,144	1,889,858
Net worth change	382,190 25,270	465,424 31,275	723,432 25,983	1,014,680 9,718	1,748,771 52,699	1,779,515 94,235	2,981,192 149,883
Net worth change Farm debt to asset ratio	53 %	53 %	25,965 48 %	50 %	52,099 41 %	94,235 42 %	40 %
Total debt to asset ratio	50 %	48 %	44 %	46 %	39 %	39 %	39 %
Change in earned net worth %	7 %	7 %	4 %	1 %	3 %	6 %	5 %
Solvency (end of year at market)	400	4.40	404	440	5 4	00	04
Number of farms Total assets	100 924,831	140 1.097.346	121 1,586,121	116 2,399,033	51 3,480,213	29 3,408,268	61 5,807,444
Total liabilities	424,384	498,106	693,298	2,399,033 1,055,171	1,368,628	1,442,989	2.482.064
Net worth	500,447	599,239	892,823	1,343,863	2,111,585	1,965,280	3,325,380
Total net worth change	25,217	34,089	40,041	39,339	73,501	124,132	135,152
Farm debt to asset ratio	49 %	50 %	47 %	47 %	42 %	46 %	44 %
Total debt to asset ratio	46 %	45 %	44 %	44 %	39 %	42 %	43 %
Change in total net worth %	5 %	6 %	5 %	3 %	4 %	7 %	4 %
Nonfarm Information Net nonfarm income	32,888	30,753	30,306	28,985	28,768	32,665	14,533
Farms reporting living expenses	5	24	19	18	4	2	4
Total family living expense	34,125 34,734	51,297 67,377	56,851 70,571	38,671 46,030	-	-	-
Total living, invest, cap. purch	J4,1 J4	01,311	10,511	+0,000	-	-	-
Crop Acres Total crop acres	18	178	375	705	1,226	1,679	2,852
Total crop acres owned	11	96	159	271	467	496	839
Total crop acres cash rented	7	78 3	217	427	753	1,183	1,979
Total crop acres share rented Machinery value per crop acre	0 1,624	1,022	811	8 670	5 636	504	34 496
masimiory value per crop dole	1,027	1,022	011	070	000	504	730

Farm Income Statement Northern Minnesota Farm Business Management Data (Farms Sorted By Net Farm Income)

	Avg. Of			
	All Farms	Low 20%	<u>40 - 60%</u>	High 20%
Number of farms	622	124	125	125
Sale of Crops				
Barley	3,910	11,104	194	6,324
Beans, Edible	6,305	4,653	-	8,259
Corn	71,548	137,852	40,110	72,133
Corn Silage	435	174	165	1,293
Hay, Alfalfa	1,380	1,914	652	2,155
Hay, Other	2,176	3,971	1,783	1,236
Fruit and Vegetable Crops	1,431	· <u>-</u>	4,121	· -
Organic Crops	1,838	2,433	210	5,946
Soybeans	83,921	93,381	46,847	171,078
Soybeans, Food	2,095	7,025	811	-
Soybeans, Seed	2,173	1,348	-	4,306
Sunflowers	1,790	4,209	-	3,048
Oats	712	167	983	1,752
Wheat, Spring	42,902	24,174	14,637	131,214
Grass Seed	5,305	2,770	1,507	17,555
Other Crop Enterprises	8,557	1,486	1,715	31,756
Miscellaneous crop income	495	78	900	567
Total Crop Sales	236,973	296,739	114,635	458,622
Sale of Livestock				
Beef Cow-Calf, Beef Calves	6,802	8,868	7,047	5,599
Beef, Backgrounding	9,473	17,897	4,118	18,486
Beef, Finishing	8,466	10,447	6,912	6,166
Other Beef Enterprises	812	1,142	202	417
Dairy, Milk	203,748	148,000	96,598	502,956
Dairy Calves	2,518	1,526	955	6,112
Dairy Heifers (for sale)	1,279	2,384	862	1,653
Dairy Feeders & Backgrounding	1,550	1,385	1,725	1,662
Dairy Finishing	13,119	14,927	8,944	12,259
Hogs, Weaning to Finish	3,173	,,,,,	-	10,985
Other Livestock Enterprises	1,380	1,496	1,824	2,688
Cull breeding livestock	11,325	11,303	6,339	19,943
Misc. livestock income	650	234	633	939
Total Livestock & Product Sales	264,295	219,609	136,159	589,865
Other farms in a con-				
Other farm income	6 402	4 000	1.075	17.650
Crop government payments	6,483	4,898	1,975	17,659
CRP payments	579	975 182	550	902
Livestock govt payments	117		21	12 021
Other government payments Custom work income	5,930	4,081 15,763	2,903	12,821
	10,461 6,231		6,372	10,646 11,626
Patronage dividends, cash Insurance income		7,178	2,911	
	10,524 5,772	16,520	4,917 1 361	23,055
Contract livestock income Other farm income	5,772 14,636	425 9,574	1,361	1,909
Total Other Farm Income	14,636 60,733	59,574 59,596	8,215 29,225	26,632 105,250
Total Other Farm income	00,733	55,550	29,225	109,290
Gross Cash Farm Income	562,001	575,944	280,019	1,153,737
Cioos Cusii i uiiii iiicoiiic	002,001	370,344	200,013	1,100,707

Farm Income Statement Northern Minnesota Farm Business Management Data (Farms Sorted By Net Farm Income)

(Fa	inns Sorted by Net Fa	ini income)		
	<u>Average</u>	<u>Low 20%</u>	<u>40 - 60%</u>	High 20%
Number of farms	622	124	125	125
Direct Crop Expense				
Seed	39,953	52,918	21,511	68,120
Fertilizer	42,396	52,490	20,464	81,861
Crop chemicals	20,955	23,389	8,390	44,130
Crop insurance	9,706	12,927	4,433	17,771
Drying Expense	2,677	5,475	1,813	2,539
Other direct crop expenses	12,531	13,395	7,165	24,615
Total Direct Crop Expense	128,218	160,594	63,776	239,036
Direct Livestock Expense				
Feeder livestock purchase	13,087	13,471	5,569	24,263
Purchased feed	72,609	56,134	41,228	163,246
Breeding fees	2,702	1,813	1,139	6,631
Veterinary	7,239	6,674	3,404	15,684
Supplies	7,150	6,513	4,218	13,534
Contract production exp.	3,089	1,523	1,876	7,866
Livestock hauling and trucking	2,653	2,108	1,707	4,463
Livestock marketing	2,681	2,638	1,618	5,246
Bedding	4,957 3,851	3,038	1,720	12,066
Other livestock expenses	120,018	2,543 96,455	1,946 64,425	9,521 262,520
Total Direct Livestock Expense	120,010	90,400	04,425	202,520
Other Farm Expense	20.440	44.040	47.540	44.040
Interest	30,146	44,240	17,543	41,843
Fuel & oil	20,979	23,861	11,346	37,441
Repairs	39,960	46,555	20,026 3,244	72,238 15,130
Custom hire	7,488 33,274	8,408 28,984	3,2 44 11,946	85,366
Hired labor	45,197	72,429	18,013	79,453
Land rent Machinery & bldg leases	9,877	18,286	4,385	15,465
Real estate taxes	5,679	5,872	4,366	9,428
Farm insurance	9,170	10,620	5,372	15,123
Utilities	11,174	11,292	6,817	19,948
Dues & professional fees	3,268	4,207	1,854	4,837
Miscellaneous	6,087	7,527	3,387	9,688
Total Other Farm Expense	222,299	282,281	108,299	405,960
Total cash expense	470,535	539,330	236,500	907,516
Net cash farm income	91,466	36,614	43,519	246,221
	, , , , ,	, .	.,	-,
Inventory Changes	-1,529	-8,074	-587	4,914
Prepaids and supplies	5,024	3,064	760	17,241
Accounts receivable Hedging acct. & Oth Cur Assets	-41	-3,695	1,703	1,560
Crops and feed	2,982	-37,941	741	55,432
Market livestock	1,057	-9,392	2,005	9,269
Breeding livestock	586	-10,677	-738	17,916
Accounts payable	-3,658	-12,807	-2,848	-4,649
Accrued Interest & other assets	2,686	779	1,928	9,362
Total inventory change	7,107	-78,743	2,964	111,045
Net operating profit	98,573	-42,129	46,483	357,266
Depreciation Machinery and equipment	-32,027	-38,327	-15,632	-59,154
Titled vehicles	-3,138	-3,390	-2,559	-4,580
Buildings and improvements	-9,503	-10,005	-2,559 -4,933	-4,360 -17,764
Total depreciation	-44,668	-51,723	-23,124	-81,498
Net farm income from operations	53,905	-93,852	23,359	275,768
Gain or loss on capital sales	116	-1,106	519	1,221
Net farm income	54,021	-94,958	23,878	276,989
				=

Balance Sheet at Cost Values Northern Minnesota Farm Business Management Data (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	<u> High 20%</u>
Number of farms	622	124	125	125
Assets Current Farm Assets				
Cash and checking balance	25,190	26,181	17,288	61,926
Prepaid expenses & supplies	31,750	16,689	13,188	96,552
Growing crops Accounts receivable	1,509 28,610	616 23,469	399 15,696	5,453 62,697
Hedging accounts	903	1,327	604	1,816
Crops held for sale or feed	247,704	247,032	118,298	543,495
Crops under government loan		-	<u>-</u>	<u>-</u>
Market livestock held for sale	34,833	43,323	24,351	49,278
Other current assets Total current farm assets	2,284 372,786	2,256 360,894	2,388 192,214	1,902 823,120
Total current familiassets	312,100	300,094	192,214	623,120
Intermediate Farm Assets				
Breeding livestock	142,170	130,745	88,856	281,424
Machinery and equipment	377,873	416,072	189,858	711,395
Titled vehicles Other intermediate assets	30,665 27,637	32,473 20,742	21,835 7,941	47,029 55,819
Total intermediate farm assets	578,345	600,032	308,491	1,095,667
Total intermediate farm decote	070,010	000,002	000, 101	1,000,007
Long Term Farm Assets				
Farm land	441,504	561,473	294,212	710,177
Buildings and improvements	224,550 41,354	217,952 64,871	117,763 22,828	444,833 66,472
Other long-term assets Total long-term farm assets	707,408	844,297	434,803	1,221,482
Total Farm Assets	1,658,539	1,805,223	935,508	3,140,270
		212 = 11		
Total Nonfarm Assets	178,467	213,544	134,168	216,261
Total Assets	1,837,006	2,018,767	1,069,676	3,356,531
Liabilities				
Current Farm Liabilities				
Accrued interest	7,774	12,963	4,958	9,052
Accounts payable Current notes	28,665 142,806	46,195 217,962	13,429 79,870	45,408 209,061
Government crop loans	142,000	217,302	-	209,001
Principal due on term debt	58,037	60,070	31,154	102,175
Total current farm liabilities	237,282	337,189	129,411	365,696
Total intermediate farm liabs	152,111	193,273	89,799	227,128
Total long term farm liabilities	374,162	531,422	233,831	523,617
Total farm liabilities	763,555	1,061,885	453,041	1,116,441
		, ,		
Total nonfarm liabilities	30,469	40,271	23,996	31,902
Total liabilities	794,024	1,102,155	477,037	1,148,343
Net worth (farm and nonfarm)	1,042,982	916,611	592,639	2,208,188
Net worth change	38,476	-99,564	16,435	219,300
Percent net worth change	4 %	-10 %	3 %	11 %
Ratio Analysis				
Current farm liabilities / assets	64 %	93 %	67 %	44 %
Intermediate farm liab. / assets	26 %	32 %	29 %	21 %
Long term farm liab. / assets	53 %	63 %	54 %	43 %
Total debt to asset ratio	43 %	55 %	45 %	34 %

Balance Sheet at Market Values Northern Minnesota Farm Business Management Data (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	622	124	125	125
Assets Current Farm Assets Cash and checking balance Prepaid expenses & supplies Growing crops Accounts receivable Hedging accounts Crops held for sale or feed Crops under government loan Market livestock held for sale Other current assets Total current farm assets	25,190	26,181	17,288	61,926
	31,750	16,689	13,188	96,552
	1,509	616	399	5,453
	28,610	23,469	15,696	62,697
	903	1,327	604	1,816
	247,704	247,032	118,298	543,495
	34,833	43,323	24,351	49,278
	2,284	2,256	2,388	1,902
	372,786	360,894	192,214	823,120
Intermediate Farm Assets Breeding livestock Machinery and equipment Titled vehicles Other intermediate assets Total intermediate farm assets	142,491	130,707	90,295	281,919
	442,111	514,529	216,776	815,626
	35,201	37,890	24,762	53,006
	27,902	21,306	8,085	56,275
	647,705	704,432	339,918	1,206,826
Long Term Farm Assets Farm land Buildings and improvements Other long-term assets Total long-term farm assets Total Farm Assets	714,584	837,979	586,856	1,043,534
	249,169	254,554	127,291	474,408
	54,613	118,014	24,264	72,982
	1,018,367	1,210,547	738,411	1,590,924
	2,038,857	2,275,873	1,270,543	3,620,870
Total Nonfarm Assets	192,804	225,777	145,184	238,922
Total Assets	2,231,661	2,501,650	1,415,727	3,859,792
Liabilities Current Farm Liabilities Accrued interest Accounts payable Current notes Government crop loans Principal due on term debt Total current farm liabilities	7,774 28,665 142,806 - 58,037 237,282	12,963 46,195 217,962 60,070 337,189	4,958 13,429 79,870 - 31,154 129,411	9,052 45,408 209,061 - 102,175 365,696
Total intermediate farm liabs	152,111	193,273	89,799	227,128
Total long term farm liabilities	374,162	531,422	233,831	523,617
Total farm liabilities	763,555	1,061,885	453,041	1,116,441
Total nonfarm liabilities	30,469	40,271	23,996	31,902
Total liabs excluding deferreds	794,024	1,102,155	477,037	1,148,343
Total deferred liabilities	179,939	187,582	114,630	343,336
Total liabilities	973,963	1,289,738	591,667	1,491,679
Retained earnings Market valuation equity Net worth (farm and nonfarm) Net worth excluding deferreds Net worth change Percent net worth change	1,042,982	916,611	592,639	2,208,188
	214,717	295,301	231,421	159,925
	1,257,699	1,211,912	824,061	2,368,113
	1,437,638	1,399,494	938,690	2,711,449
	49,963	-55,457	20,480	215,314
	4 %	-4 %	3 %	10 %
Ratio Analysis Current farm liabilities / assets Intermediate farm liab. / assets Long term farm liab. / assets Total debt to asset ratio Debt to assets excl deferreds	64 %	93 %	67 %	44 %
	23 %	27 %	26 %	19 %
	37 %	44 %	32 %	33 %
	44 %	52 %	42 %	39 %
	36 %	44 %	34 %	30 %

Financial Guideline Measures

The Farm Financial Standards Task Force recommended the use of these financial measures to evaluate a farm's financial position and financial performance. These measures are grouped by: Liquidity, Solvency, Profitability, Repayment Capacity, and Efficiency.

Liquidity

Liquidity is the ability of the farm business to meet financial obligations in a timely manner, without disrupting normal business operations.

Current Ratio: The current ratio shows the value of current assets relative to current liabilities. It measures the extent current farm assets, if liquidated, would cover liabilities that are due during the next 12 months. The higher the ratio, the safer the short term position.

Working Capital: Working capital shows the dollar amount that current assets can or cannot cover current liabilities. It approximates the amount of capital available to purchase crop and livestock inputs and equipment necessary to produce farm products. The amount of working capital considered adequate must be related to the size of the farm business.

Working Capital to Gross Revenues: Measures operating capital available against the size of the business.

SolvencySolvency is important in evaluating the risk position of the farm and family and in considering future borrowing capacity. Solvency measures the ability of the business to pay off all debts if liquidated.

Farm Debt To Asset Ratio: The farm debt to asset ratio measures the financial position or solvency of the farm or ranch by comparing the total liabilities to the total assets. It measures the portion of the farm assets that have debt against them. A higher ratio is considered an indicator of greater financial risk.

Farm Equity To Asset Ratio: The farm equity to asset ratio measures the farm equity relative to the value of the farm assets. It measures the proportion of the farm assets financed by the owner's equity whereas the debt to asset ratio measured the proportion of farm assets financed by debt.

Farm Debt To Equity Ratio: The farm debt to equity ratio measures the amount of farm debt relative to the amount of farm equity. It measures the amount of debt the farm has for every dollar of equity.

Profitability

Profitability is the measure of the value of goods produced by the business in relation to the cost of resources used in the production. Profitability calculated on a cost basis does not consider changes in market valuation of capital assets such as machinery and breeding livestock.

Rate of Return on Assets: Rate of return on assets is, in effect, the interest rate your farm earned in the past year on all money invested in the business. If assets are valued at market value, the rate of return on investment can be looked at as the "opportunity cost" of investing money in the farm instead of alternative investments. If assets are valued at cost (cost less depreciation), the rate of return represents the actual return on the average dollar invested in the business.

Rate of Return on Equity: Rate of return on equity is, in effect, the interest rate your investment in the business earned in the past year. If assets are valued at market value, this return can be compared with returns available if the assets were liquidated and invested in alternative investments. If assets are valued at cost, this represents the actual return to the amount of equity capital you have invested in the farm business.

If your return on assets is higher than your average interest rate, your return on equity will be still higher, reflecting the fact that there are residual returns to equity capital after paying all interest expense. This is positive use of financial leverage. If your return on assets is lower than your average interest rate, your return on equity will be still lower, reflecting the fact that borrowed capital did not earn enough to pay its interest cost. This is negative financial leverage. Profitability becomes a key concern when substantial debt capital is used in the business.

Financial Guideline Measures

Net Farm Income: Net farm income represents the returns to labor, management, and equity capital invested in the business. Without income from other sources, or appreciation of capital asset values, net farm income must cover family living expenses and taxes, or net worth will decrease.

Operating Profit Margin: The operating profit margin is a measure of the profit margin from the employment of assets. It measures how effectively you are employing assets relative to the value of output produced. Low prices, high operating expenses, or production problems are all possible causes of a low operating profit margin.

EBITDA: This factor stands for: <u>Earnings Before Interest</u>, <u>Taxes</u>, <u>Depreciation and <u>Amortization</u>. This represents a measure of earnings available for debt repayment.</u>

Repayment Capacity

Repayment capacity shows the borrower's ability to repay term debts (longer than one year) on time. This includes non-farm income, and is therefore not a measure of business performance alone.

Capital Debt Repayment Capacity: Measures the amount generated from farm and non-farm sources, to cover debt repayment and capital replacement.

Capital Debt Repayment Margin: The amount of money remaining after all operating expenses, taxes, family living costs, and scheduled debt payments have been made. It is the money left, after paying all expenses, which is available for purchasing/financing new machinery, equipment, land or livestock.

Replacement Margin: The replacement margin is the amount of income remaining after paying principal and interest on term loans and unfunded (cash) capital purchases.

Term Debt Coverage Ratio: The term debt coverage ratio measures the ability of the business to cover all term debt payments. A number less than 100 percent indicates that the business, plus non-farm income, is not generating sufficient cash to meet all of the debt payments, after family living expenses and taxes have been paid. A number greater than 100 indicates the business is generating sufficient cash to pay all term debt obligations with some surplus margin remaining.

Replacement Margin Coverage Ratio: This represents the ability to term debt and unfunded capital purchases. A ratio under 1.0 indicated that you did not generate enough income to cover term debt payments and unfunded capital purchases.

Efficiency

These measures reflect the relationships between expense and income items to revenue and the efficiency of the farm business with regard to the use of cash and capital assets.

Asset Turnover: Asset turnover is a measure of how efficiently assets are used in the business. A farm with good operating profit margin and asset turnover will show a strong rate of return on farm assets. If operating profit margin is low, the asset turnover rate must be strong, or vice versa, to maintain the rate of return on assets.

Operating Expense Ratio: This ratio indicates the percent of the gross farm income, which is used to pay the operating expenses. Operating expenses do not include interest or depreciation expense.

Depreciation Expense Ratio: This ratio indicates the percent of the gross farm income, which is used to cover the depreciation expense.

Interest Expense Ratio: This ratio indicates the percent of the gross farm income, which is used to pay farm interest expenses.

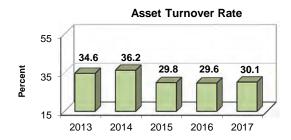
Net Farm Income Ratio: The ratio indicates the percent of the gross farm income, which remains after all expenses.

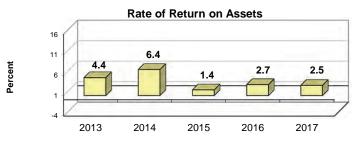
Financial Standards Measures Northern Minnesota Farm Business Management Data (Farms Sorted By Net Farm Income)

	Avg. Of	Low 209/	40 600/	High 200/
	All Farms	<u>Low 20%</u>	<u>40 - 60%</u>	<u>High 20%</u>
Number of farms	622	124	125	125
Liquidity				
Current ratio	1.57	1.07	1.49	2.25
Working capital	135,504	23,705	62,803	457,424
Working capital to gross inc.	23.6 %	4.5 %	21.9 %	36.2 %
Solvency (market)				
Farm debt to asset ratio	46 %	55 %	45 %	40 %
Farm equity to asset ratio	54 %	45 %	55 %	60 %
Farm debt to equity ratio	0.86	1.21	0.80	0.67
Profitability (cost)				
Rate of return on farm assets	2.5 %	-5.0 %	1.3 %	8.2 %
Rate of return on farm equity	1.2 %	-17.3 %	-1.1 %	10.6 %
Operating profit margin	8.4 %	-20.0 %	5.1 %	22.9 %
Net farm income	54,021	-94,958	23,878	276,989
EBIDTA	129,287	4,189	64,010	398,668
Repayment Capacity				
Capital debt repayment capacity	95,471	-22,210	46,388	316,745
Capital debt repayment margin	14,485	-120,684	2,108	187,539
Replacement margin	-3,469	-140,752	-7,564	152,032
Term debt coverage ratio	1.18	-0.23	1.05	2.45
Replacement coverage ratio	0.96	-0.19	0.86	1.92
Efficiency				
Asset turnover rate (cost)	30.1 %	24.7 %	25.9 %	35.8 %
Operating expense ratio	77.5 %	99.2 %	77.6 %	68.5 %
Depreciation expense ratio	7.8 %	9.9 %	8.1 %	6.4 %
Interest expense ratio	5.3 %	8.9 %	6.1 %	3.3 %
Net farm income ratio	9.4 %	-18.2 %	8.3 %	21.9 %

Operating Profit Margin X Asset Turnover Rate = Rate of Return on Farm Assets







How does your Farm Stack Up?

Northern Minnesota Farm Business Management Data

Below is a summary of the low, average, and high farms using the 21 Financial Standards Measures. The numbers listed below are intended to provide a general overview of the farm situation for the current year and over a five year period. The current year data provides a shapshot of the conditions that represent the present while the five year data provides a longer term look at these factors to enable their use in potential decision making activities.

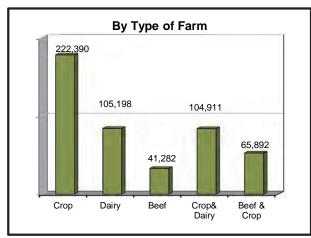
For additional information, please see the back cover of this report. A "Financial Scorecard" is provided in color for your use.

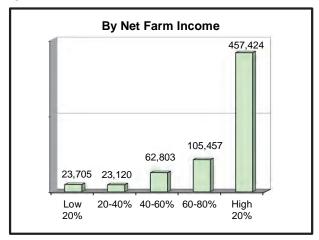
Evaluation Chart		Low I	Farms	Ave	erage	<u>High</u>	Farms	<u>You</u>	r Farm
		2017	5 Yr Ave	2017	5 Yr Ave	2017	5 Yr Ave	2017	5 Yr Ave
Liquidity									
Current Ratio		1.07	1.05	1.57	1.65	2.25	2.26		
Working Capital	\$	23,705	19,552	135,504	144,150	457,424	466,034		
Working Capital to Gross Inc.	%	4.5%	3.6%	23.6%	25.3%	36.2%	35.1%		
Solvency (Market)									
Farm Debt to Asset Ratio	%	55%	56%	46%	45%	40%	39%		
Farm Equity to Asset Ratio	%	45%	44%	54%	55%	60%	61%		
Farm Debt to Equity Ratio	%	1.21	1.29	0.86	0.83	0.67	0.65		
Profitability (Cost)									
Rate of Return on Farm Assets	%	-5.0%	-5.6%	2.5%	3.5%	8.2%	8.9%		
Rate of Return on Farm Equity	%	-17.3%	-19.6%	1.2%	2.9%	10.6%	11.8%		
Operating Profit Margin	%	-20.0%	-23.0%	8.4%	10.6%	22.9%	23.3%		
Net Farm Income	\$	-94,958	-87,048	54,021	68,004	276,989	311,937		
EBIDTA	\$	4,189	-490	129,287	137,277	398,668	437,611		
Repayment Capacity (Accrual)									
Capital Debt Repayment Cap.	\$	-22,210	-26,224	95,471	98,982	316,745	344,575		Τ
Capital Debt Repayment Margin	\$	-120,684	-117,531	14,485	20,741	187,539	203,417		
Replacement Margin	\$	-140,752	-131,299	-3,469	6,452	152,032	173,977		Ī
Term Debt Coverage Ratio		-0.23	-0.30	1.18	1.27	2.45	2.42		Ī
Replacement Coverage Ratio		-0.19	-0.26	0.96	1.08	1.92	2.01		Ī
Efficiency	0/	24.70/	24.20/	20.40/	22 40/	25.00/	27.00/		
Asset Turnover Rate (Cost)	%	24.7%	24.3%	30.1%	32.1%	35.8%	37.8%		
Operating Expense Ratio	%	99.2%	100.2%	77.5%	77.1%	68.5%	69.1%		
Depreciation Expense Ratio	%	9.9%	9.7%	7.8%	7.0%	6.4%	6.0%		
Interest Expense Ratio	%	8.9%	8.1%	5.3%	4.8%	3.3%	3.2%		
Net Farm Income Ratio	%	-18.2%	-18.2%	9.4%	11.2%	21.9%	21.8%		

Selected Financial Guideline Measures

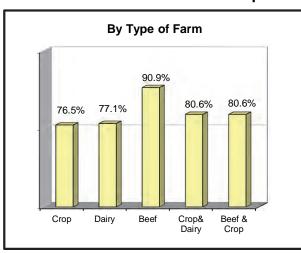
Northern Minnesota Farm Business Management Data

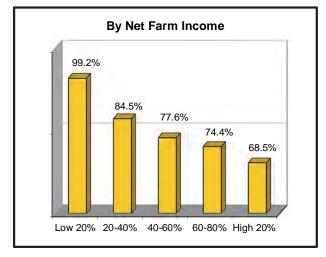
Working Capital



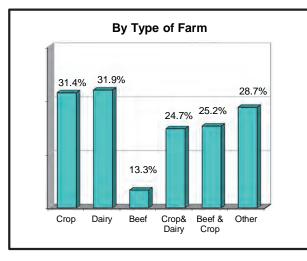


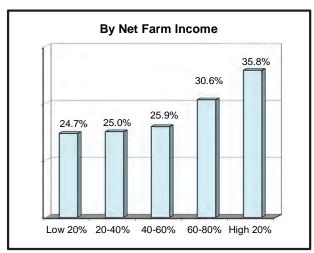
Operating Expense Ratio





Asset Turnover Rate



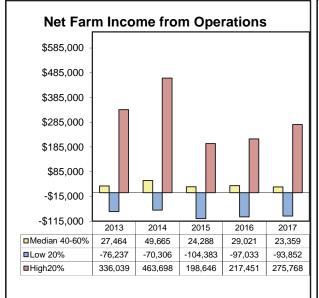


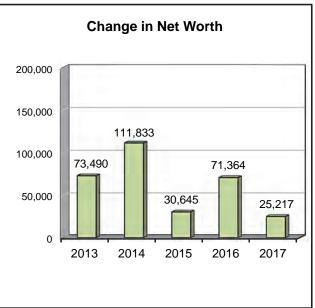
Profitability Measures Northern Minnesota Farm Business Management Data (Farms Sorted By Net Farm Income)

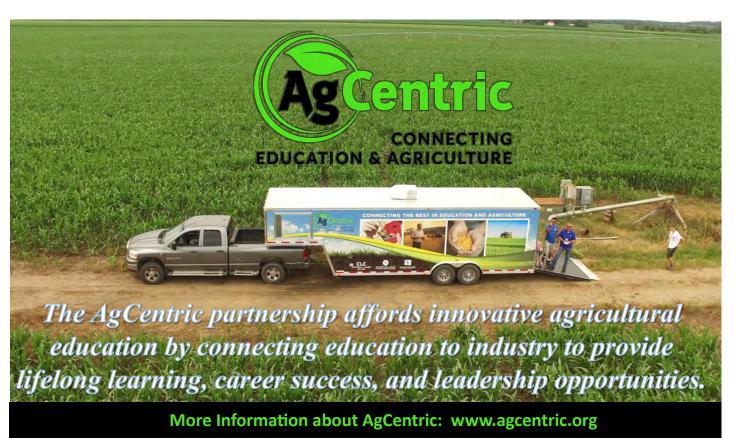
	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	622	124	125	125
Profitability (assets valued at cost)				
Net farm income from operations	53,905	-93,852	23,359	275,768
Rate of return on assets	2.5 %	-5.0 %	1.3 %	8.2 %
Rate of return on equity	1.2 %	-17.3 %	-1.1 %	10.6 %
Operating profit margin	8.4 %	-20.0 %	5.1 %	22.9 %
Asset turnover rate	30.1 %	24.7 %	25.9 %	35.8 %
Farm interest expense	30,714	46,318	17,527	41,402
Value of operator lbr and mgmt.	43,453	43,091	28,710	70,861
Return on farm assets	41,166	-90,624	12,176	246,309
Average farm assets	1,625,526	1,828,537	921,242	2,997,576
Return on farm equity	10,452	-136,943	-5,351	204,907
Average farm equity	881,457	791,816	478,505	1,926,531
Value of farm production	488,802	452,163	238,720	1,073,525
	Avg. Of		40 000/	
	All Farms	Low 20%	10 - 60%	High 20%
			40 - 60%	
Number of farms	622	124	125	125
Number of farms Profitability (assets valued at market) Net farm income from operations				
Profitability (assets valued at market)	622	124	125	125
Profitability (assets valued at market) Net farm income from operations Rate of return on assets	622	-50,407	125 25,845	125
Profitability (assets valued at market) Net farm income from operations Rate of return on assets Rate of return on equity	622 63,883 2.6 %	-50,407 -2.1 %	125 25,845 1.2 %	125 265,426 6.8 %
Profitability (assets valued at market) Net farm income from operations Rate of return on assets Rate of return on equity Operating profit margin	622 63,883 2.6 % 1.9 %	-50,407 -2.1 % -8.9 %	125 25,845 1.2 % -0.4 %	265,426 6.8 % 9.4 %
Profitability (assets valued at market) Net farm income from operations Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	622 63,883 2.6 % 1.9 % 10.5 %	-50,407 -2.1 % -8.9 % -10.4 %	25,845 1.2 % -0.4 % 6.1 %	265,426 6.8 % 9.4 % 22.0 %
Profitability (assets valued at market) Net farm income from operations Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate Farm interest expense	63,883 2.6 % 1.9 % 10.5 % 24.5 %	-50,407 -2.1 % -8.9 % -10.4 % 19.8 %	25,845 1.2 % -0.4 % 6.1 % 19.0 %	265,426 6.8 % 9.4 % 22.0 % 31.0 %
Profitability (assets valued at market) Net farm income from operations Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate Farm interest expense Value of operator lbr and mgmt.	63,883 2.6 % 1.9 % 10.5 % 24.5 %	-50,407 -2.1 % -8.9 % -10.4 % 19.8 %	25,845 1.2 % -0.4 % 6.1 % 19.0 %	265,426 6.8 % 9.4 % 22.0 % 31.0 %
Profitability (assets valued at market) Net farm income from operations Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate Farm interest expense Value of operator lbr and mgmt. Return on farm assets	63,883 2.6 % 1.9 % 10.5 % 24.5 % 30,714 43,453	-50,407 -2.1 % -8.9 % -10.4 % 19.8 % 46,318 43,091	25,845 1.2 % -0.4 % 6.1 % 19.0 % 17,527 28,710	265,426 6.8 % 9.4 % 22.0 % 31.0 % 41,402 70,861
Profitability (assets valued at market) Net farm income from operations Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate Farm interest expense Value of operator lbr and mgmt. Return on farm assets Average farm assets	63,883 2.6 % 1.9 % 10.5 % 24.5 % 30,714 43,453 51,144 1,998,864	-50,407 -2.1 % -8.9 % -10.4 % 19.8 % 46,318 43,091 -47,179 2,284,918	125 25,845 1.2 % -0.4 % 6.1 % 19.0 % 17,527 28,710 14,662 1,254,674	265,426 6.8 % 9.4 % 22.0 % 31.0 % 41,402 70,861 235,966 3,467,232
Profitability (assets valued at market) Net farm income from operations Rate of return on assets Rate of return on equity Operating profit margin	622 63,883 2.6 % 1.9 % 10.5 % 24.5 % 30,714 43,453 51,144	-50,407 -2.1 % -8.9 % -10.4 % 19.8 % 46,318 43,091 -47,179	25,845 1.2 % -0.4 % 6.1 % 19.0 % 17,527 28,710 14,662	265,426 6.8 % 9.4 % 22.0 % 31.0 % 41,402 70,861 235,966

Liquidity & Repayment Capacity Measures Northern Minnesota Farm Business Management Data (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	622	124	125	125
Liquidity				
Current ratio	1.57	1.07	1.49	2.25
Working capital	135,504	23,705	62,803	457,424
Working capital to gross inc.	23.6 %	4.5 %	21.9 %	36.2 %
Current assets	372,786	360,894	192,214	823,120
Current liabilities	237,282	337,189	129,411	365,696
Gross revenues (accrual)	575,383	521,789	286,364	1,264,494
Repayment capacity				
Net farm income from operations	53,905	-93,852	23,359	275,768
Depreciation	44,668	51,723	23,124	81,498
Personal income	28,846	42,426	26,609	14,577
Family living/owner withdrawals	-46,165	-42,899	-32,817	-74,148
Payments on personal debt	-2,754	-3,440	-2,642	-2,829
Income taxes paid	-6,900	-10,003	-5,101	-11,412
Interest on term debt	23,871	33,836	13,855	33,291
Capital debt repayment capacity	95,471	-22,210	46,388	316,745
Scheduled term debt payments	-80,986	-98,474	-44,280	-129,206
Capital debt repayment margin	14,485	-120,684	2,108	187,539
Cash replacement allowance	-17,954	-20,067	-9,672	-35,508
Replacement margin	-3,469	-140,752	-7,564	152,032
Term debt coverage ratio	1.18	-0.23	1.05	2.45
Replacement coverage ratio	0.96	-0.19	0.86	1.92









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Household and Personal Expenses Northern Minnesota Farm Business Management Data (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Newskanaffansa				
Number of farms	76	16	6	17
Average family size	3.4	3.1	2.8	3.9
Family Living Expenses				
Food and meals expense	9,107	8,235	7,801	13,312
Medical care	3,850	1,672	1,928	5,531
Health insurance	3,300	995	2,797	5,577
Cash donations	1,280	562	1,629	1,902
Household supplies	3,072	3,637	881	2,967
Clothing	1,887	1,586	1,652	3,454
Personal care	2,044	686	4,900	3,367
Child / Dependent care	1,049	1,347	183	1,074
Alimony and child support	34	-	-	-
Gifts	1,034	1,020	944	1,572
Education	996	893	429	1,089
Recreation	2,933	2,961	830	4,880
Utilities (household share)	2,832	3,943	829	2,856
Personal vehicle operating exp	3,471	4,188	1,623	3,246
Household real estate taxes	481	427	-	1,015
Dwelling rent	534	2	-	1,748
Household repairs	1,893	716	2,567	4,215
Personal interest	1,420	2,242	2,074	1,266
Disability / Long term care ins	328	73	44	361
Life insurance payments	2,291	880	1,914	2,349
Personal property insurance	431	602	, -	535
Miscellaneous	6,109	6,524	2,170	5,887
Total cash family living expense	50,375	43,191	35,195	68,203
Family living from the farm	303	458	-	150
Total family living	50,678	43,649	35,195	68,353
Other Nonfarm Expenditures				
Income taxes	5,283	2,004	4,285	13,457
Furnishing & appliance purchases	-	-	-	-
Nonfarm vehicle purchases	4,640	-225	2,917	14,723
Nonfarm real estate purchases	2,400	-	-	5,598
Other nonfarm capital purchases	2,281	1,831	-	7,463
Nonfarm savings & investments	653	-2,218	-312	1,283
Total other nonfarm expenditures	15,256	1,391	6,890	42,524
Total cash family living				
investment & nonfarm capital purch	65,631	44,582	42,085	110,727

Nonfarm Summary Northern Minnesota Farm Business Management Data (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	622	124	125	125
Nonfarm Income				
Personal wages & salary	20,168	27,347	20,854	10,194
Net nonfarm business income	2,452	3,861	1,696	899
Personal rental income	249	431	270	283
Personal interest income	108	14	152	308
Personal cash dividends	87	345	-	89
Tax refunds	1,657	2,060	1,479	723
Other nonfarm income	4,124	8,368	2,158	2,080
Total nonfarm income	28,846	42,426	26,609	14,577
Gifts and inheritances	4,564	8,959	1,559	7,983
Nonfarm Assets (market)				
Checking & savings	7,602	6,767	3,886	15,189
Stocks & bonds	9,330	10,793	3,359	17,051
Other current assets	2,272	1,516	1,267	6,877
Furniture & appliances	8,598	11,118	7,092	7,619
Nonfarm vehicles	15,635	17,882	12,431	19,713
Cash value of life ins.	4,819	3,236	6,502	4,853
Retirement accounts	46,819	39,645	36,107	47,431
Other intermediate assets	7,679	22,805	3,349	4,440
Nonfarm real estate	73,214	101,374	62,043	71,022
Personal bus. investment	8,583	868	800	34,501
Other long term assets	8,253	9,772	8,347	10,226
Total nonfarm assets	192,804	225,777	145,184	238,922
Nonfarm Liabilities				
Accrued interest	44	70	13	89
Accounts payable	716	1,345	659	375
Current notes	2,478	2,095	1,601	633
Princ due on term debt	2,810	3,470	2,441	2,953
Total current liabilities	7,459	7,064	4,868	10,593
Intermediate liabilities	4,442	4,990	2,915	6,103
Long term liabilities	18,569	28,216	16,213	15,207
Total nonfarm liabilities	30,469	40,271	23,996	31,902
Nonfarm net worth	162,335	185,506	121,188	207,020
Nonfarm debt to asset ratio	16 %	18 %	17 %	13 %

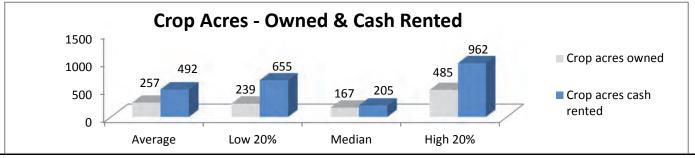
Operator and Labor Information Northern Minnesota Farm Business Management Data (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
N. 1. 77		- -		
Number of farms	622	124	125	125
Operator Information				
Average number of operators	1.2	1.2	1.1	1.4
Average age of operators	47.1	51.1	44.9	46.8
Average number of years farming	22.2	24.9	19.9	23.0
Results Per Operator				
Working capital	114,224	20,299	57,060	322,130
Total assets (market)	1,881,191	2,142,297	1,286,276	2,718,163
Total liabilities	821,007	1,104,472	537,566	1,050,478
Net worth (market)	1,060,184	1,037,825	748,710	1,667,685
Net worth excl deferred liabs	1,211,865	1,198,462	852,858	1,909,471
Gross farm income	485,022	446,836	260,180	890,489
Total farm expense	439,583	527,206	238,956	696,286
Net farm income from operations	45,439	-80,371	21,223	194,203
Net nonfarm income	24,316	36,331	24,176	10,265
Family living & tax withdrawals	44,722	45,254	34,419	60,224
I armly living & tax withdrawais	44,122	45,254	34,419	00,224
Total acres owned	274.5	262.3	234.7	404.1
Total crop acres	636.7	771.3	338.5	1,026.6
Crop acres owned	216.6	204.6	151.6	341.8
Crop acres cash rented	415.0	560.6	186.1	677.6
Crop acres share rented	5.1	6.2	0.9	7.3
Total pasture acres	35.9	24.2	30.1	73.0
Labor Analysis				
Number of farms	622	124	125	125
Total unpaid labor hours	2,563	2,527	2,070	3,356
Total hired labor hours	2,062	1,975	879	5,157
Total labor hours per farm	4,625	4,502	2,948	8,514
Unpaid hours per operator	2,161	2,164	1,880	2,364
Value of farm production / hour	105.68	100.44	80.97	126.09
Net farm income / unpaid hour	21.03	-37.14	11.29	82.16
Average hourly hired labor wage	17.32	16.16	15.09	17.69
Partnerships & LLCs				
Number of farms	80	17	13	24
Number of operators	2.0	1.8	1.9	2.4
Owner withdrawals per farm	80,293	-	-	112,813
Withdrawals per operator	40,682	-	-	50,139
Corporations				
Number of farms	18	2	-	9
Number of operators	2.1	_	-	2.4
•				

Crop Production and Marketing Summary Northern Minnesota Farm Business Management Data

(Farms Sorted By Net Farm Income)

	Avg. Of			
	All Farms	Low 20%	<u>40 - 60%</u>	<u>High 20%</u>
Number of farms	622	124	125	125
Acreage Summary				
Total acres owned	326	306	258	574
Total crop acres	755	901	373	1,458
Crop acres owned	257	239	167	485
Crop acres cash rented	492	655	205	962
Crop acres share rented	6	7	1	10
Total pasture acres	43	28	33	104
Percent crop acres owned	34 %	27 %	45 %	33 %
Mach invest/crop acre cost	515	477	522	495
Mach invest/crop acre market	596	574	592	566
Average Price Received (Cash Sales Only)				
Soybeans per bushel	9.12	9.11	9.07	9.14
Corn per bushel	3.02	2.96	3.02	3.05
Wheat, Spring per bushel	5.41	5.50	5.70	5.40
Hay, Alfalfa per ton	87.64	120.59	71.33	81.18
Oats per bushel	2.27	1.89	2.06	2.44
Barley per bushel	4.41	-	-	4.41
Hay, Mixed per ton	74.78	77.09	-	-
Hay per ton	80.00	76.15	76.09	67.05
Corn Silage per ton	27.83	-	-	28.67
Rye per bushel	3.61	-	-	-
Sunflowers per cwt	18.26	-	-	17.22
Grass Seed, Perennial Rye per lb	0.622	-	-	0.626
Soybeans, Food per bushel	10.90	-	-	-
Beans, Navy per cwt	26.09	-	-	-
Average Yield Per Acre				
Soybeans (bushel)	34.29	32.29	35.47	34.11
Corn (bushel)	160.96	162.97	164.12	157.68
Corn Silage (ton)	19.62	18.24	18.85	20.29
Hay, Alfalfa (ton)	4.29	4.41	4.01	4.76
Wheat, Spring (bushel)	70.95	64.45	64.32	73.30
Hay (ton)	2.73	2.05	2.65	3.10
Hay, Mixed (ton)	2.59	2.18	2.74	3.68
Oats (bushel)	79.63	68.45	67.00	112.38
Barley (bushel)	95.26	98.83	86.00	98.80
Rye (bushel)	35.47	-	-	35.22
Soybeans, Food (bushel)	30.74	-	-	-
Sunflowers (cwt)	14.04	-	-	15.75
Beans, Navy (cwt)	20.10		-	-



Individual Enterprise Analysis Tables

The individual crop and livestock tables are designed to identify the costs and returns for specific enterprises on the farm. Data from all farmers with each enterprise is merged. The minimum number of farms, in order to print a given column on the following reports, is five (5). This enables the necessary level of confidentiality for publication of this information.

<u>Crop</u> report costs such as fertilizer, chemicals, seed, crop drying expenses, hired labor, and custom hire are costs that are assigned to each individual crop. These costs are shown in the crop enterprise analysis as *Direct Costs*.

Other costs, called *Overhead Costs*, are divided out by formula. Overhead costs are assigned by an allocation factor to each enterprise. The allocation factor is based on historical data of labor and capital intensity.

There are a couple of subtle differences between the Owned Land and Cash Rented Land tables. Naturally, on cash rented land, the actual cost of renting the land is reported in the direct cost section. On the owned land, there are two different lines of information in the overhead cost section that would be included for calculating cost of ownership: real-estate taxes and interest on long-term debt.

The <u>livestock</u> reports have a format similar to the crop reports. Production information is listed at the top of each table. This will include animal or product sales, purchases, sales, transfers, and inventory change.

The *Direct Costs* include costs that are assigned to the enterprise, including items such as: feed, veterinary, breeding, marketing, hired labor, fuel & repairs, and livestock supplies. The *Overhead Costs* include formula-assigned costs, including items such as: depreciation, interest, utilities, and insurances.

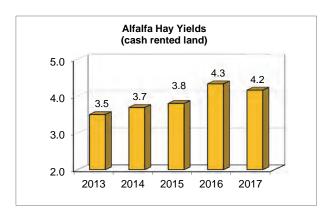
At the bottom of each livestock report, there is a list of selected factors for each enterprise. These factors are a combination of production indicators and efficiency indicators.

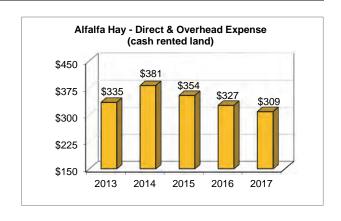
Towards the bottom of both the <u>crop and livestock</u> enterprise tables, are four (4) factors that show varying levels of Cost of Production. Those factors include a cost of production based on: direct costs, overhead & direct costs, total cost less government payments and/or other revenue, and total cost including labor & management.

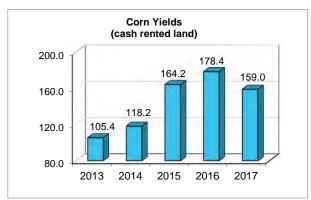
<u>Machinery Cost per Acre</u> is a factor used to combine all costs related to machinery usage. The Machinery Cost per Acre includes: Fuel & Oil, Repairs, Custom hire, Machinery leases, Interest on machinery debt, and Machinery depreciation. A machinery cost summary for five prominent Northern Minnesota crops is listed below. Data is taken from the owned land enterprise tables.

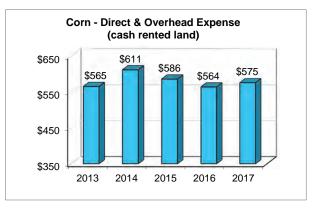
Crop	2013	2014	2015	2016	2017
Alfalfa Hay	\$145.46	\$190.49	\$164.47	\$169.5	\$171.76
Corn	\$152.35	\$162.84	\$159.23	\$151.43	\$153.51
Corn Silage	\$178.58	\$229.01	\$209.02	\$204.12	\$214.87
Soybeans	\$85.28	\$87.39	\$81.89	\$88.15	\$83.66
Spring Wheat	\$87.97	\$86.33	\$84.02	\$84.95	\$83.56

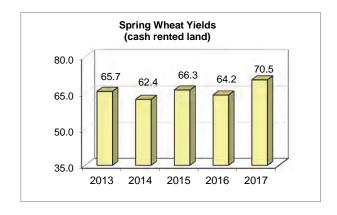
Five Year History of Crop Yields and Cost of Production Northern Minnesota Farm Business Management Data

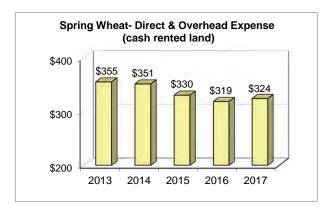


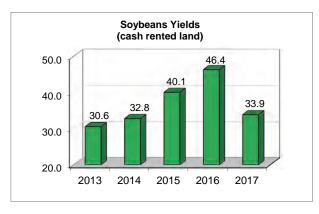


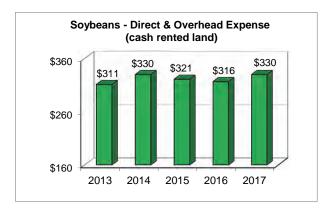












Corn on Owned Land

	Avg. Of _All Farms	40 - 60%	High 20%
Number of farms	226	45	46
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Other product return per acre Total product return per acre Hedging gains/losses per acre Crop insurance per acre Other crop income per acre Gross return per acre	124.15	118.74	142.58
	164.62	152.71	186.75
	100.00	100.00	100.00
	3.08	2.99	3.20
	4.21	9.09	4.79
	510.61	466.34	602.48
	0.98	-	3.85
	8.57	14.83	3.04
	4.47	5.25	5.16
	524.62	486.41	614.52
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drying expense Storage Packaging and supplies Fuel & oil Repairs Custom hire Hired labor Machinery leases Utilities Hauling and trucking Marketing Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	91.60	90.09	98.62
	96.25	85.04	91.92
	26.23	23.79	24.75
	17.73	19.48	15.57
	13.63	11.92	13.60
	1.40	1.07	0.83
	0.99	0.58	0.69
	26.25	29.13	22.08
	48.18	52.35	39.38
	13.18	10.31	9.05
	2.97	3.30	0.63
	2.56	0.45	2.10
	0.48	0.81	0.20
	2.83	1.70	4.47
	1.71	2.17	1.03
	10.32	10.95	6.91
	1.45	1.99	0.70
	357.76	345.12	332.52
	166.86	141.29	282.01
Overhead Expenses Hired labor Machinery leases Building leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	13.79	11.72	18.37
	2.96	0.41	4.98
	1.61	0.14	1.36
	19.85	18.86	25.55
	10.63	10.76	11.15
	6.54	7.66	8.17
	4.46	4.19	4.62
	55.10	61.70	59.85
	60.30	50.54	82.83
	6.31	5.54	6.22
	181.54	171.53	223.10
	539.30	516.65	555.61
	-14.68	-30.24	58.91
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	6.91	5.21	7.84
	-7.76	-25.03	66.74
	45.84	48.98	47.12
	-53.61	-74.01	19.62
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	2.17	2.26	1.78
	3.28	3.38	2.98
	3.12	3.16	2.84
	3.40	3.48	3.10
Net value per unit	3.08	2.99	3.22
Machinery cost per acre	153.51	146.21	158.69
Est. labor hours per acre	3.63	4.19	3.47

Corn on Cash Rent

	Avg. Of _All Farms	40 - 60%	High_20%
Number of farms	281	56	57
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Other product return per acre Total product return per acre Hedging gains/losses per acre Crop insurance per acre Other crop income per acre Gross return per acre	206.49	183.22	173.72
	159.02	157.39	165.00
	100.00	100.00	100.00
	3.06	3.08	3.10
	1.85	2.70	1.71
	488.50	486.99	513.37
	0.36	-0.04	2.26
	16.71	6.64	55.03
	5.07	10.22	4.08
	510.64	503.80	574.73
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drying expense Storage Packaging and supplies Fuel & oil Repairs Custom hire Hired labor Land rent Machinery leases Utilities Hauling and trucking Marketing Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	91.82	87.58	91.23
	101.94	99.89	77.03
	26.52	25.10	22.29
	17.70	18.19	17.79
	15.10	15.77	10.84
	1.78	0.23	0.64
	0.73	0.93	1.33
	24.87	24.60	22.64
	43.06	41.80	34.21
	12.11	5.18	8.47
	5.10	6.05	4.21
	116.87	104.78	93.78
	4.24	8.17	3.83
	0.65	1.15	0.77
	3.35	6.45	3.12
	1.63	0.72	2.82
	11.32	10.82	9.17
	1.46	1.62	0.63
	480.24	459.05	404.81
	30.40	44.75	169.92
Overhead Expenses Hired labor Machinery leases Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	10.72 6.87 3.07 8.07 4.75 4.17 6.87 44.65 5.96 95.13 575.37 -64.73	6.40 4.40 0.46 7.92 5.44 3.08 5.56 49.13 5.48 87.86 546.92	10.35 6.32 0.10 7.43 5.46 3.56 10.03 47.23 4.45 94.92 499.73 75.00
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	4.58	3.78	4.39
	-60.14	-39.34	79.39
	39.22	41.52	39.53
	-99.36	-80.86	39.86
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	3.02	2.92	2.45
	3.62	3.47	3.03
	3.44	3.33	2.62
	3.69	3.59	2.86
Net value per unit	3.06	3.08	3.11
Machinery cost per acre	136.82	132.65	124.35
Est. labor hours per acre	2.90	3.53	2.97

Soybeans on Owned Land

	Avg. Of <u>All Farms</u>	40 - 60%	<u> High 20%</u>
Number of farms	200	40	40
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Other product return per acre Total product return per acre Hedging gains/losses per acre Crop insurance per acre Other crop income per acre Gross return per acre	223.92	207.63	144.41
	35.21	37.80	48.76
	100.00	100.00	100.00
	9.05	9.18	9.06
	0.02	-	0.12
	318.61	347.08	441.72
	0.22	-	1.53
	14.71	2.94	9.65
	4.16	5.79	7.08
	337.70	355.82	459.99
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Hired labor Machinery leases Utilities Hauling and trucking Marketing Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	60.69	60.97	54.90
	29.43	26.96	20.12
	31.14	28.14	38.87
	14.28	14.73	15.38
	14.25	14.31	14.36
	25.10	24.55	26.56
	6.62	7.48	3.66
	2.60	4.85	0.72
	1.72	4.51	0.71
	0.60	0.27	0.33
	1.26	0.37	1.41
	0.94	1.69	0.89
	5.13	5.71	5.08
	1.51	1.79	1.51
	195.26	196.31	184.50
	142.43	159.50	275.49
Overhead Expenses Hired labor Machinery leases Building leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	6.60	11.22	6.59
	1.02	1.01	2.00
	0.62	0.15	0.47
	13.81	13.10	22.39
	6.59	7.38	5.56
	4.18	5.70	3.90
	1.95	1.96	2.04
	32.62	29.69	47.68
	34.27	37.55	40.37
	2.71	2.31	3.50
	104.36	110.08	134.48
	299.63	306.39	318.98
	38.07	49.43	141.01
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	12.70	13.12	4.34
	50.77	62.54	145.34
	28.35	29.92	29.03
	22.42	32.62	116.31
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	5.55	5.19	3.78
	8.51	8.11	6.54
	7.61	7.53	6.08
	8.41	8.32	6.67
Net value per unit	9.05	9.18	9.09
Machinery cost per acre	83.66	90.47	86.82
Est. labor hours per acre	1.72	2.00	2.08

Soybeans on Cash Rent

	Avg. Of		
	<u>All Farms</u>	<u>40 - 60%</u>	<u>High 20%</u>
Number of farms	285	57	57
Acres	381.76	430.12	203.09
Yield per acre (bu.)	33.91	37.63	44.71
Operators share of yield %	100.00	100.00	100.00
Value per bu. Other product return per acre	9.09 0.05	9.19	9.18 0.34
Total product return per acre	308.35	345.85	410.92
Hedging gains/losses per acre	0.02	-	0.13
Crop insurance per acre	20.32	3.53	14.53
Other crop income per acre	4.27	6.09	7.97
Gross return per acre	332.97	355.48	433.54
Direct Expenses	50.70	04.05	54.40
Seed and plants	56.79 24.44	61.35	54.40
Fertilizer Crop chemicals	24.11 30.67	30.02 32.47	16.54 29.68
Crop insurance	14.91	16.28	15.38
Fuel & oil	14.00	14.39	13.13
Repairs	23.83	27.89	24.28
Custom hire	6.03	6.18	4.21
Hired labor	3.87	2.78	0.14
Land rent Machinery leases	89.00 3.74	87.84 1.11	86.97 2.38
Hauling and trucking	0.98	0.66	1.70
Marketing	0.89	0.69	0.48
Operating interest	5.97	4.62	5.48
Miscellaneous	1.96	1.69	2.19
Total direct expenses per acre Return over direct exp per acre	276.75 56.22	287.97 67.51	256.98 176.56
	00.22	01.01	110.00
Overhead Expenses	6.40	0.12	44.46
Hired labor Machinery leases	6.10 2.70	8.12 2.05	11.46 1.75
Building leases	1.11	0.98	0.60
Farm insurance	5.11	5.31	5.60
Utilities	3.39	4.40	4.14
Dues & professional fees	1.83	1.85	1.60
Interest Mach & bldg depreciation	4.23 25.82	3.69 29.63	3.44 26.08
Miscellaneous	2.57	2.49	3.11
Total overhead expenses per acre	52.85	58.51	57.77
Total dir & ovhd expenses per acre	329.60	346.48	314.76
Net return per acre	3.36	9.00	118.78
Government payments	9.48	10.37	5.86
Net return with govt pmts	12.85	19.36	124.65
Labor & management charge Net return over lbr & mgt	25.56 -12.71	28.26 -8.90	26.20 98.44
· ·		0.00	• • • • • • • • • • • • • • • • • • • •
Cost of Production	0.46	7.65	E 7E
Total direct expense per bu. Total dir & ovhd exp per bu.	8.16 9.72	7.65 9.21	5.75 7.04
Less govt & other income	8.71	8.68	6.39
With labor & management	9.47	9.43	6.98
Net value per unit	9.09	9.19	9.19
Machinery cost per acre	77.84	81.88	72.69
Est. labor hours per acre	1.61	1.84	1.98
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Wheat, Spring on Owned Land

	Avg. Of All Farms	40 - 60%	High 20%
Number of farms	87	18	18
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Other product return per acre Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	206.98 72.32 100.00 5.90 0.78 427.47 2.74 5.99 436.20	218.63 71.46 100.00 5.66 - 404.67 10.74 5.25 420.66	266.73 83.64 100.00 6.00 0.69 502.66 5.53 508.19
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drying expense Fuel & oil Repairs Custom hire Hired labor Machinery leases Hauling and trucking Marketing Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	20.51	17.43	19.12
	75.48	70.27	64.53
	30.55	33.08	28.15
	11.88	12.97	11.04
	1.07	0.67	0.77
	15.09	16.72	13.05
	24.53	25.61	22.02
	8.05	5.30	9.86
	1.49	0.11	0.52
	0.74	0.09	1.49
	0.53	0.36	0.08
	0.87	0.59	0.53
	4.74	2.70	3.67
	1.88	1.15	0.48
	197.40	187.05	175.32
	238.80	233.61	332.87
Overhead Expenses Hired labor Machinery leases Building leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	7.51	4.65	8.26
	0.87	0.02	2.05
	0.49	1.61	0.18
	12.39	9.50	13.28
	5.73	5.47	3.78
	4.35	4.54	2.94
	2.40	2.26	2.45
	22.00	15.37	24.93
	34.04	39.74	34.51
	2.29	1.67	2.57
	92.07	84.84	94.93
	289.47	271.89	270.25
	146.74	148.77	237.94
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	19.37	24.05	24.81
	166.10	172.82	262.75
	30.95	34.03	29.00
	135.15	138.80	233.75
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	2.73	2.62	2.10
	4.00	3.80	3.23
	3.60	3.24	2.86
	4.03	3.72	3.21
Net value per unit	5.90	5.66	6.00
Machinery cost per acre	83.56	89.15	82.51
Est. labor hours per acre	1.66	1.57	1.56

Wheat, Spring on Cash Rent

	Avg. Of All Farms	<u>40 - 60%</u>	<u> High 20%</u>
Number of farms	112	23	23
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Other product return per acre Total product return per acre Hedging gains/losses per acre Crop insurance per acre Other crop income per acre Gross return per acre	337.33 70.46 100.00 5.91 0.98 417.58 -0.20 3.17 6.83 427.38	280.17 66.85 100.00 5.85 0.30 391.40 - 0.80 5.28 397.49	565.14 81.29 100.00 5.99 1.71 488.27
Gross return per acre Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drying expense Fuel & oil Repairs Custom hire Hired labor Land rent Machinery leases Marketing Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	19.07 77.10 27.94 10.57 1.14 13.80 23.46 6.05 4.15 78.39 2.63 1.11 4.40 2.18 271.99 155.39	17.77 72.15 27.35 8.90 0.85 13.44 24.15 2.57 3.17 76.29 3.64 0.68 7.93 2.72 261.60 135.89	18.96 76.33 30.08 10.63 1.66 14.12 20.82 6.41 0.27 76.38 0.33 1.82 2.36 0.78 260.97 238.06
Overhead Expenses Hired labor Machinery leases Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	8.72	5.14	14.33
	1.85	3.33	1.86
	1.40	2.79	0.75
	4.97	5.37	4.84
	3.69	3.79	3.86
	1.92	1.64	1.92
	2.51	3.49	2.20
	24.94	25.40	23.86
	2.29	2.33	1.87
	52.30	53.28	55.49
	324.29	314.87	316.46
	103.10	82.62	182.56
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	14.57	18.20	16.63
	117.67	100.82	199.19
	26.09	25.72	25.12
	91.57	75.10	174.07
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	3.86	3.91	3.21
	4.60	4.71	3.89
	4.24	4.34	3.54
	4.61	4.73	3.84
Net value per unit	5.91	5.85	5.99
Machinery cost per acre	73.66	74.25	68.16
Est. labor hours per acre	1.62	1.24	1.65

Corn Silage on Owned Land

	Avg. Of All Farms	<u>40 - 60%</u>	High 20%
Number of farms	148	29	30
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	54.36	48.42	63.98
	19.84	19.43	23.46
	100.00	100.00	100.00
	30.45	29.97	32.10
	603.96	582.18	753.00
	8.51	1.38	20.03
	1.40	4.09	1.82
	613.87	587.65	774.85
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Packaging and supplies Fuel & oil Repairs Custom hire Hired labor Machinery leases Utilities Hauling and trucking Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	89.56 57.85 29.93 14.42 13.45 34.24 59.24 56.35 2.58 4.61 0.49 1.21 5.88 3.46 373.28 240.59	88.75 48.99 38.59 7.86 16.83 32.67 52.62 66.44 0.79 13.86 0.56 1.62 2.93 1.49 373.99 213.66	82.57 48.53 26.76 15.95 7.51 32.50 51.60 31.22 0.99 1.39 0.05 3.70 7.28 1.32 311.38 463.46
Overhead Expenses Hired labor Machinery leases Building leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	21.96 1.61 1.29 13.55 10.88 7.29 3.83 50.17 54.85 6.34 171.78 545.06 68.81	31.14 1.42 0.07 11.03 8.35 4.59 4.05 37.56 58.45 5.45 162.11 536.10 51.55	36.64 1.48 15.17 12.46 9.77 2.78 49.46 49.97 8.71 186.43 497.82 277.03
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	1.96	4.33	2.68
	70.77	55.88	279.71
	53.97	52.33	52.29
	16.80	3.55	227.42
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	18.82	19.25	13.27
	27.48	27.59	21.22
	26.88	27.09	20.17
	29.60	29.78	22.40
Net value per unit	30.45	29.97	32.10
Machinery cost per acre	214.87	226.79	174.66
Est. labor hours per acre	5.07	5.46	4.07

Corn Silage on Cash Rent

	Avg. Of All Farms	40 - 60%	<u> High 20%</u>
Number of farms	123	24	25
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	78.63	77.91	68.38
	19.47	19.98	22.17
	100.00	100.00	100.00
	29.96	30.81	31.58
	583.42	615.38	700.08
	10.62	10.44	21.46
	0.85	0.54	0.47
	594.90	626.36	722.01
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Packaging and supplies Fuel & oil Repairs Custom hire Hired labor Land rent Machinery leases Utilities Hauling and trucking Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	94.65 72.72 30.26 13.43 8.59 36.39 58.77 58.45 3.25 86.74 4.91 0.53 0.53 4.52 4.21 477.97 116.93	108.69 68.36 36.08 9.06 8.27 30.28 53.81 83.87 1.90 55.50 0.27 0.56 1.61 3.81 3.93 466.01 160.34	75.99 75.42 23.38 15.05 2.64 32.44 53.60 15.62 6.12 49.13 2.81 0.17 5.69 1.03 359.09 362.92
Overhead Expenses Hired labor Machinery leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	25.36	31.14	36.94
	7.96	2.84	2.56
	6.59	7.17	6.16
	5.10	3.86	5.63
	3.43	5.03	3.11
	11.20	6.95	9.19
	51.77	56.93	60.96
	5.39	3.19	8.37
	116.81	117.11	132.92
	594.78	583.13	492.01
	0.12	43.23	230.00
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	3.42	4.82	2.73
	3.54	48.06	232.73
	39.15	41.41	36.58
	-35.61	6.65	196.15
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	24.55	23.33	16.20
	30.55	29.19	22.19
	29.78	28.40	21.08
	31.79	30.47	22.73
Net value per unit	29.96	30.81	31.58
Machinery cost per acre	223.66	227.52	172.11
Est. labor hours per acre	4.38	5.00	3.64

Hay, Alfalfa on Owned Land

	Avg. Of All Farms	40 - 60%	High 20%
Number of farms	119	24	24
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	56.30	63.45	51.73
	4.49	4.82	6.08
	100.00	100.00	100.00
	108.87	97.80	129.38
	488.89	471.77	786.26
	6.74	9.60	17.72
	1.18	0.78	0.36
	496.82	482.15	804.34
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Storage Packaging and supplies Fuel & oil Repairs Custom hire Hired labor Machinery leases Utilities Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	1.60 24.98 1.46 1.38 0.97 6.82 27.99 54.43 25.72 1.85 0.83 0.49 7.04 1.83 157.38 339.44	0.40 17.88 0.40 2.20 1.55 5.28 29.79 61.41 27.21 1.95 1.60 0.66 5.79 0.47 156.59 325.56	19.19 0.58 1.18 0.17 13.13 31.10 50.42 34.81 1.69 0.42 0.39 2.21 1.76 157.07 647.26
Overhead Expenses Hired labor Machinery leases Building leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	16.02	21.25	18.58
	4.36	0.28	2.60
	0.58	0.03	0.15
	14.49	11.94	15.34
	12.44	12.95	13.37
	6.08	6.29	5.71
	3.97	5.74	4.22
	53.49	47.86	52.14
	54.42	44.86	65.20
	5.72	4.90	4.83
	171.58	156.10	182.16
	328.96	312.69	339.23
	167.85	169.46	465.10
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	3.35	1.22	0.39
	171.21	170.69	465.50
	48.90	43.19	54.44
	122.31	127.49	411.06
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	35.05	32.46	25.85
	73.25	64.82	55.82
	70.74	62.41	52.78
	81.63	71.37	61.74
Net value per unit	108.87	97.80	129.38
Machinery cost per acre	171.76	163.65	188.98
Est. labor hours per acre	4.74	5.04	5.95

Hay, Alfalfa on Cash Rent

	Avg. Of All Farms	40 - 60%	<u> High 20%</u>
Number of farms	104	21	21
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	65.53 4.16 100.00 119.78 497.93 4.55 1.03 503.51	53.60 4.10 100.00 116.25 476.31 0.82 477.12	75.32 5.67 100.00 135.72 769.50 9.20 0.45 779.15
Pirect Expenses Fertilizer Crop chemicals Crop insurance Storage Packaging and supplies Fuel & oil Repairs Custom hire Hired labor Land rent Machinery leases Utilities Hauling and trucking Marketing Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	31.69 2.85 1.30 1.71 5.86 25.37 51.28 20.86 3.26 64.00 1.57 0.62 0.67 0.28 5.48 3.40 220.20 283.31	34.97 0.75 2.68 1.68 5.17 25.06 47.87 15.09 2.28 64.07 2.83 1.28 0.05 6.82 3.34 213.95 263.18	23.32 3.09 1.23 4.02 4.01 27.27 52.46 21.75 4.28 49.31 0.02 1.22 0.23 1.18 1.40 7.76 202.55 576.59
Overhead Expenses Hired labor Machinery leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	14.17	23.07	17.15
	3.71	1.22	1.95
	9.02	10.00	6.81
	4.89	4.12	3.36
	3.31	4.14	2.12
	7.59	7.41	6.47
	42.59	37.41	42.06
	3.88	3.77	5.31
	89.16	91.13	85.24
	309.36	305.08	287.79
	194.14	172.05	491.35
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	2.11	2.73	0.73
	196.25	174.78	492.09
	39.12	43.75	33.74
	157.14	131.03	458.35
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	52.97	52.22	35.73
	74.42	74.46	50.76
	72.57	73.60	48.93
	81.98	84.27	54.88
Net value per unit	119.78	116.25	135.72
Machinery cost per acre	147.68	127.66	148.45
Est. labor hours per acre	4.19	4.44	4.41

Hay, Mixed on Cash Rent

	Avg. Of All Farms	40 - 60%	High 20%
Number of forms		·	•
Number of farms	36	7	8
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Other crop income per acre Gross return per acre	71.73 2.39 100.00 72.21 172.61 0.04 172.65	54.71 2.90 100.00 66.99 193.98	53.34 4.67 100.00 98.76 460.90
Direct Expenses Fertilizer Crop chemicals Storage Packaging and supplies Fuel & oil Repairs Custom hire Hired labor Land rent Machinery leases Utilities Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	11.52 0.19 0.87 2.11 18.13 30.12 3.71 1.28 31.17 0.50 0.57 8.39 0.30 108.86 63.78	20.04 0.61 1.20 3.66 19.37 32.39 11.50 40.57 2.33 0.14 9.50 0.11 141.44 52.54	28.93 0.60 3.48 0.63 24.61 30.03 5.57 44.14 0.79 2.64 0.44 141.86 319.04
Overhead Expenses Hired labor Machinery leases Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	7.93 5.35 0.34 5.84 3.00 2.40 5.44 24.43 2.94 57.67 166.53 6.12	0.00 0.41 5.48 5.09 4.45 4.94 18.29 4.65 43.31 184.75 9.23	27.82 8.35 1.66 5.53 3.77 2.99 7.93 46.05 6.76 110.86 252.72 208.18
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	1.01 7.13 31.26 -24.14	3.70 12.93 49.58 -36.65	1.55 209.73 30.28 179.45
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	45.54 69.67 69.23 82.31	48.84 63.80 62.52 79.64	30.40 54.15 53.82 60.31
Net value per unit Machinery cost per acre Est. labor hours per acre	72.21 86.68 2.34	66.99 88.43 3.86	98.76 118.99 2.56

Hay, Grass on Cash Rent

	Avg. Of All Farms	40 - 60%	High 20%
Number of farms			
Number of farms	62	13	13
Acres	59.28	52.60	35.48
Yield per acre (ton)	2.05	2.13	3.53
Operators share of yield %	100.00	100.00	100.00
Value per ton	70.23	69.02	78.75
Other product return per acre	3.29	-	-
Total product return per acre	146.96	147.30	277.80
Other crop income per acre	0.07	0.40	-
Gross return per acre	147.03	147.70	277.80
Direct Expenses			
Seed and plants	0.16	0.88	-
Fertilizer	5.55	10.85	1.47
Packaging and supplies	2.71	3.44	2.70
Fuel & oil	13.94	12.58	15.54
Repairs	21.37	19.63	27.55
Custom hire	3.73	0.95	6.83
Hiredlabor	0.37	-	0.82
Land rent	32.32	39.23	50.08
Machinery leases	1.76	4.00	0.57
Operating interest	2.17	1.83	2.57
Miscellaneous	2.29 86.37	2.47 91.85	0.18 107.73
Total direct expenses per acre Return over direct exp per acre	60.66	55.85	170.06
Overhead Expenses			
Hired labor	7.99	5.87	16.13
Machinery leases	1.76	3.13	3.11
Building leases	0.16	-	0.92
Farm insurance	3.35	3.92	3.80
Utilities	2.41	2.43	8.22
Dues & professional fees	1.23	1.52	1.82
Interest	6.87	6.81	9.14
Mach & bldg depreciation	22.96	21.16	42.55
_ Miscellaneous	3.20	3.14	9.15
Total overhead expenses per acre	49.94	48.00	94.83
Total dir & ovhd expenses per acre	136.31	139.85	202.56
Net return per acre	10.72	7.85	75.23
Government payments	0.08	0.05	-
Net return with govt pmts	10.81	7.90	75.23
Labor & management charge	22.35	25.99	40.02
Net return over lbr & mgt	-11.55	-18.09	35.21
Cost of Production			
Total direct expense per ton	42.22	43.04	30.54
Total dir & ovhd exp per ton	66.63	65.53	57.42
Less govt & other income	64.95	65.32	57.42
With labor & management	75.87	77.50	68.76
Net value per unit	70.23	69.02	78.75
Machinery cost per acre	70.55	62.97	100.54
Est. labor hours per acre	2.43	2.60	2.94

Crop Enterprise Analysis

Northern Minnesota Farm Business Management Data (Farms Sorted By Return to Overhead)

	Establish		Fescue	Perennial Rye
	<u>Alfalfa Hay</u>	<u>Oatlage</u>	Grass Seed	Grass Seed
Number of farms	43	28	7	8
Acres	33.26	26.93	199.71	480.79
Yield per acre	2.45	3.97	565.10	1079.14
Operators share of yield %	100.00	100.00	100.00	100.00
Value	112.05	46.30	0.61	0.59
Total product return per acre	274.51	183.83	344.97	637.09
Other crop income per acre	9.26	-	32.89	1.18
Gross return per acre	283.79	183.83	377.86	638.27
Direct Expenses				
Seed	99.22	19.61	6.60	16.76
Fertilizer	30.77	11.86	89.29	83.82
Crop chemicals	7.29	0.40	22.85	49.97
Crop insurance	3.35	0.79	10.03	13.53
Packaging and supplies	9.61	8.35	-	<u>-</u>
Fuel & oil	29.29	25.64	12.71	20.35
Repairs	62.03	34.20	25.59	25.06
Custom hire	13.72	18.66	8.00	12.55
Machinery Leases	3.26	-	4.09	3.58
Land Rent	44.81	24.91	74.45	33.36
Operating interest	4.76	2.68	4.97	4.43
Miscellaneous	2.06	1.56	1.25	0.09
Total direct expenses per acre	314.55	148.65	266.06	265.18
Return over direct exp per acre	-30.76	35.18	111.81	373.09
Overhead Expenses	00.00	44.00	40.00	0.04
Hired labor	22.82	11.62	10.93	9.31
Mach and bldg leases	1.67	2.54	- 0.04	3.45
RE & pers. property taxes	5.36	6.37	3.61	3.66
Farm insurance	8.79	6.88	5.01	6.96
Utilities	4.90	5.18	4.35	3.87
Dues & professional fees	3.56	1.86	2.17	1.29 7.37
Interest	27.55 54.17	27.38 32.93	15.53 14.79	40.06
Mach & bldg depreciation	5.18	4.51	2.46	1.80
Miscellaneous	130.42	99.26	52.62	76.14
Total overhead expenses per acre Total dir & ovhd expenses per acre	444.97	247.91	318.68	341.32
Net return per acre	-161.17	-64.08	59.19	296.95
•	2.04	0.36	9.68	36.90
Government payments Net return with govt pmts	-159.13	-63.72	68.87	333.85
Labor & management charge	45.31	31.63	22.92	39.83
Net return over lbr & mgt	-204.44	-95.35	45.94	294.01
Cost of Production				
Total direct expense per bu.	128.40	37.44	0.47	0.25
Total direct expense per bu. Total dir & ovhd exp per bu.	181.63	62.44	0.56	0.32
Less govt & other income	177.01	62.34	0.49	0.32
With labor & management	195.50	70.31	0.53	0.32
-				
Net value per unit	112.05	46.30	0.61	0.59
Machinery cost per acre	164.48	116.29	67.97 1.72	102.86
Est. labor hours per acre	4.98	3.08	1.72	1.71

^{*} Combined data for rented and owned land. Actual land cost is the sum of: Land Rent, Interest, & RE taxes.

Irrigated Crops *

	<u>Corn</u>	Corn Silage	Hay, Alfalfa	<u>Soybeans</u>
Number of farms	62	22	11	29
Acres	204.50	107.8	87.95	177.01
Yield per acre	188.32	24.73	5.73	43.31
Operators share of yield %	100.00	100.00	100.00	100.00
Value	3.06	31.60	102.38	9.03
Total product return per acre	576.26	781.48	586.45	391.09
Crop insurance per acre	8.19	-	-	10.37
Other crop income per acre	9.53	-	-	2.03
Gross return per acre	593.98	781.48	586.45	403.49
Direct Expenses				
Seed	89.70	102.17	-	51.53
Fertilizer	126.92	72.52	43.34	31.08
Crop chemicals	29.80	37.11	4.55	35.07
Crop insurance	15.89	12.71	-	13.45
Marketing	1.39	-	-	1.65
Storage	1.17	-	-	1.12
Irrigation energy	23.49	16.97	18.83	20.05
Packaging and supplies/Drying Corn	23.86	11.16	9.62	-
Fuel & oil	24.22	34.05	27.01	12.56
Repairs	43.49	61.15	63.41	21.49
Custom hire and Trucking	19.35	63.37	18.26	12.16
Hired labor	3.50	0.61	8.04	5.42
Land Rent	68.88	18.05	35.53	68.90
Operating interest	9.78	4.81	6.95	3.74
Miscellaneous	2.68	1.57	1.81	1.99
Total direct expenses per acre	491.88	438.89	241.23	293.93
Return over direct exp per acre	102.10	342.60	345.22	109.56
Overhead Expenses				
Hired labor	14.82	41.46	21.99	5.33
Mach and bldg leases	5.70	9.15	12.35	2.43
RE & pers. property taxes	8.63	9.16	10.65	6.16
Farm insurance	9.87	10.99	9.75	6.91
Utilities	5.90	7.08	6.67	3.25
Dues & professional fees	4.49 24.94	6.17 32.77	5.12 85.90	1.47 25.78
Interest	53.97	68.82	52.24	30.52
Mach & bldg depreciation Miscellaneous	7.78	4.44	7.37	3.64
Total overhead expenses per acre	135.44	190.04	212.04	84.66
Total dir & ovhd expenses per acre	627.32	62892	453.27	378.58
Net return per acre	-33.34	152.56	133.18	24.91
Government payments	5.07	8.68	5.05	7.34
Net return with govt pmts	-28.27	161.24	138.22	32.24
Labor & management charge	45.74	48.71	39.61	32.64
Net return over lbr & mgt	-74.01	112.53	98.62	-0.40
Cost of Production			00.02	00
Total direct expense per bu.	2.61	17.75	42.12	6.79
Total direct expense per bu. Total dir & ovhd exp per bu.	3.33	25.43	79.13	8.74
Less govt & other income	3.21	25.08	78.25	8.29
With labor & management	3.45	27.05	85.17	9.04
·				
Net value per unit	3.06	31.60	102.38	9.03
Machinery cost per acre	148.71	239.39	177.74	86.16
Est. labor hours per acre	3.40	4.93	4.53	2.22

^{*} Combined data for rented and owned land. Actual land cost is the sum of: Land Rent, Interest, & RE taxes.

<u>Barley</u> <u>Oats</u> <u>Rye</u>	<u>Canola</u>
Number of farms 21 44 15	5
Acres 244.31 40.01 86.96	350.2
Yield per acre 95.26 80.48 35.47	24.04
Operators share of yield % 100.00 100.00 100.00	100.00
Value 4.41 2.22 3.43	17.93
Other product return per acre 0.42 3.71 49.72	-
Total product return per acre 420.62 182.31 171.41	431.01
Crop insurance per acre 1.34 2.86 -	-
Other crop income per acre 3.51 48.88 12.15	13.41
Gross return per acre 425.48 234.05 183.56	444.42
Direct Expenses	
Seed 14.89 14.96 11.49	52.36
Fertilizer 57.12 25.86 30.52	71.03
Crop chemicals 27.05 7.13 0.96	30.18
Crop insurance 12.02 4.62 1.99	12.32
Fuel & oil 16.42 12.37 11.55	14.37
Repairs 27.38 20.66 22.07	24.35
Custom hire & trucking 13.45 5.55 6.26	14.94
Hired labor 1.79 2.15 -	8.15
Land Rent 33.79 19.39 51.27	62.50
Machine Leases 4.36 0.86 -	- - 20
Operating interest 7.35 5.06 7.93 Miscellaneous 2.32 1.18 1.95	5.30
	0.49 295.99
·	148.43
• •	140.43
Overhead Expenses	7.00
Hired labor 5.69 3.63 10.29	7.89
Machinery leases 1.33 0.91 3.43	4.60
Building leases 1.89 0.19 -	0.47
RE & pers. property taxes 3.69 7.43 1.65	0.72
Farm insurance 6.45 5.45 8.20 Utilities 5.07 3.21 3.68	5.20 4.20
	1.63
'	3.69
	35.16
Mach & bldg depreciation 26.62 24.10 26.87 Miscellaneous 2.64 1.80 2.80	1.10
Total overhead expenses per acre 73.17 66.70 70.17	64.66
Total dir & ovhd expenses per acre 291.23 186.94 216.15	360.66
Net return per acre 134.25 47.11 -32.59	83.77
	25.69
1.7	109.46
3 1	28.29
Labor & management charge 21.33 23.89 22.33 Net return over lbr & mgt 127.40 25.52 -54.89	81.17
G	01.17
Cost of Production	10.01
Total direct expense per bu. 2.29 1.49 4.12	12.31
Total dir & ovhd exp per bu. 3.06 2.32 6.09 Less govt & other income 2.85 1.61 4.35	15.00 13.37
With labor & management 3.07 1.90 4.98	14.55
Net value per unit 4.41 2.22 3.43	17.93
Machinery cost per acre 89.88 67.30 67.07	90.45
Est. labor hours per acre 1.07 2.25 2.38	1.69

^{*} Combined data for rented and owned land. Actual land cost is the sum of: Land Rent, Interest, & RE taxes.

Crop Enterprise Analysis

Northern Minnesota Farm Business Management Data (Farms Sorted By Return to Overhead)

	Soybeans,	Beans,	Beans,	
	Seed	<u>Pinto</u>	<u>Navy</u>	<u>Sunflowers</u>
Number of farms	9	6	6	7
Acres	286.78	73.58	318.77	129.86
Yield per acre	46.11	16.83	20.10	14.04
Operators share of yield %	100.00	100.00	100.00	100.00
Value	9.90	24.35	25.88	17.89
Total product return per acre	456.55	409.95	520.09	251.22
Crop insurance per acre	-	7.08	16.03	2.39
Other crop income per acre	7.55	-	4.06	1.85
Gross return per acre	464.10	417.03	540.18	255.46
Direct Expenses				
Seed	51.61	49.86	54.80	36.42
Fertilizer	20.59	44.48	48.67	52.00
Crop chemicals	42.13	87.32	75.99	22.74
Crop insurance	9.30	26.45	19.06	11.41
Drying expense	40.70	-	47.60	1.66
Fuel & oil	13.70 27.77	26.14	17.69	18.73 19.87
Repairs	5.66	41.80 10.37	35.71 9.27	5.97
Custom hire Hired labor	0.95	10.37	1.33	5.97
Land Rent	41.00	60.39	45.40	32.21
Operating interest	8.72	8.74	12.43	4.97
Miscellaneous	4.74	0.52	2.96	1.11
Total direct expenses per acre	226.16	357.39	326.13	207.42
Return over direct exp per acre	237.94	59.64	214.05	48.04
Overhead Expenses				
Hired labor	7.28	24.03	9.68	2.31
Machinery leases	0.85	13.01	7.64	-
Building leases	3.69	-	5.11	-
RE & pers. property taxes	11.98	6.93	11.76	2.05
Farm insurance	5.63	5.80	4.29	2.82
Utilities	4.74	6.02	3.47	3.75
Dues & professional fees	2.58	5.94	4.05	2.58
Interest	10.79	12.63	26.57	3.43
Mach & bldg depreciation	34.04 2.61	37.25 4.21	28.80 3.01	24.51 1.59
Miscellaneous	84.18	115.82	104.38	42.95
Total overhead expenses per acre Total dir & ovhd expenses per acre	310.34	473.22	430.51	250.36
Net return per acre	153.76	-56.19	109.67	5.09
·		33.13	100.07	
Government payments	8.22 161.98	- -56.19	109.67	11.24 16.33
Net return with govt pmts	31.48	24.65	28.97	28.49
Labor & management charge Net return over lbr & mgt	130.50	-80.83	80.70	-12.16
Cost of Production	100.00	30.00	00.70	12.10
Total direct expense per bu.	4.90	21.23	16.23	14.77
Total direct expense per bu. Total dir & ovhd exp per bu.	6.73	28.11	21.42	17.83
Less govt & other income	6.39	27.69	20.42	16.73
With labor & management	7.07	29.16	21.86	18.76
	9.90	24.35	25.88	17.89
Net value per unit Machinery cost per acre	79.42	131.46	103.50	69.38
Est. labor hours per acre	1.49	1.82	1.55	1.72
Lat. Ianui Iluura pei aure	1.43	1.02	1.00	1.12

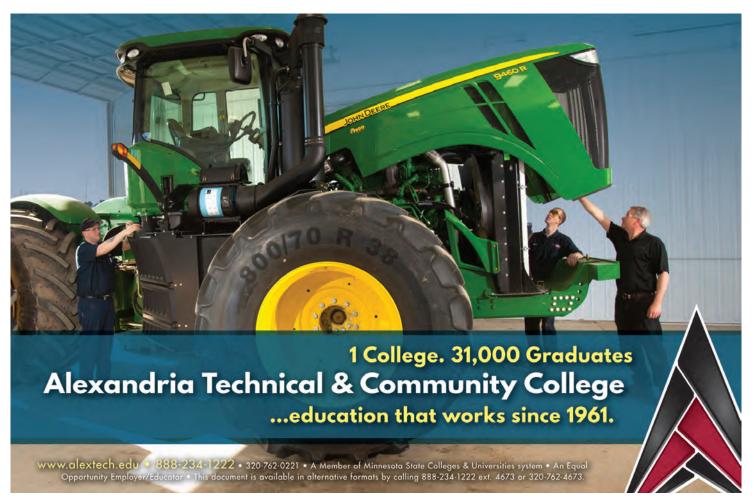
^{*} Combined data for rented and owned land. Actual land cost is the sum of: Land Rent, Interest, & RE taxes.

Crop Enterprise Analysis

Northern Minnesota Farm Business Management Data (Farms Sorted By Return to Overhead)

	Organic	Organic	<u>Irrigated</u>	Irrigated
	<u>Corn</u>	Hay, Alfalfa	Dark Red Kidney	<u>Strawberries</u>
Number of farms	8	8	5	6
Acres	60.9	102.24	287.1	2.63
Yield per acre	109.78	3.35	22.45	5893.98
Operators share of yield %	100.00	100.00	100.00	100.00
Value	8.04	119.88	34.65	2.20
Total product return per acre	882.46	401.02	777.97	12963.50
Crop insurance per acre	-	10.35	0.86	-
Other crop income per acre	7.02	9.15	-	-
Gross return per acre	889.48	420.52	778.83	12963.50
Direct Expenses				
Seed	85.18	34.21	108.86	-
Fertilizer	66.64	34.21	99.05	389.87
Crop chemicals	-	-	105.79	429.87
Crop insurance	-	-	55.47	90.44
Drying expense	16.10	-	-	-
Irrigation Energy	-	-	26.85	45.80
Packaging and Supplies	2.20	11.13	0.27	255.25
Fuel & oil	33.50	35.63	13.68	218.03
Repairs	70.74	78.58	16.62	579.63
Custom hire and Trucking	8.89	20.52	28.70	123.48
Hired labor	14.54	3.89	3.87	2550.13
Land Rent	86.54	49.71	96.76	-
Organic Certification	3.48	2.21	- 44.00	-
Operating interest	6.70	9.81	14.80	1707.20
Miscellaneous	6.81 409.84	8.57	2.74 610.70	1797.28 6535.99
Total direct expenses per acre Return over direct exp per acre	479.64	254.80 165.72	168.13	6427.51
Overhead Expenses				
Hired labor	37.11	20.87	6.28	429.71
Mach and bldg leases	0.71	2.24	58.13	65.31
RE & pers. property taxes	1.68	3.89	6.25	152.85
Farm insurance	5.76	7.53	11.19	149.29
Utilities	4.36	7.60	4.20	192.39
Dues & professional fees	4.79	8.25	3.36	333.47
Interest	9.55	13.97	25.66	534.86
Mach & bldg depreciation	69.31	40.68	58.13	1047.57
Miscellaneous	1.50	4.16	19.88	509.28
Total overhead expenses per acre	134.76	108.67	127.55	3358.54
Total dir & ovhd expenses per acre	544.60	363.47	738.25	9894.53
Net return per acre	344.88	57.05	40.58	3068.97
Government payments	0.44	4.86	-	-
Net return with govt pmts	345.31	61.91	40.58	3068.97
Labor & management charge	56.15	56.17	52.82	1678.28
Net return over lbr & mgt	289.16	5.75	-12.23	1390.69
Cost of Production				
Total direct expense per bu.	3.73	76.17	27.20	1.11
Total dir & ovhd exp per bu.	4.96	108.65	32.88	1.68
Less govt & other income	4.89	101.37	32.84	1.68
With labor & management	5.40	118.16	35.19	1.96
Net value per unit	8.04	119.88	34.65	2.20
Machinery cost per acre	183.10	186.19	135.73	1938.46
Est. labor hours per acre	7.70	4.65	2.50	487.85
Est. labor nours per acre	1.10	4.00	2.50	1 01.05

^{*} Combined data for rented and owned land. Actual land cost is the sum of: Land Rent, Interest, & RE taxes.





Livestock Enterprise Analysis Farm Business Management Statewide Data Excluding Organic and Organic Transition (Farms Sorted By Return to Overhead)

Dairy -- Average Per Cow

	Avg. AII Far		40 -	60%	<u> </u>		
Number of farms		379		76		76	
Milk sold (hd) Dairy Calves sold (hd) Transferred out (hd) Cull sales (hd) Other income Purchased (hd) Transferred in (hd) Inventory change (hd) Dairy repl net cost Gross margin	Quantity 24,687.2 0.3 0.6 0.3 0.0 0.4 0.0	Value 4,374.72 45.32 36.21 234.68 45.58 -31.46 -60.53 50.06 -571.51 4,123.09	Quantity 23,960.0 0.3 0.7 0.3 0.0 0.4 0.1	Value 4,272.85 51.55 23.24 250.95 46.63 -32.04 -27.30 80.22 -631.08 4,035.03	Quantity 26,468.7 0.3 0.7 0.3 0.0 0.4 0.0	Value 4,762.94 35.21 70.32 256.41 59.71 -17.16 -134.68 56.44 -486.87 4,602.32	
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Haylage, Alfalfa (lb.) Other feed stuffs (lb) Breeding fees Veterinary Supplies Fuel & oil Repairs Custom hire Hired labor Hauling and trucking Bedding Total direct expenses Return over direct expense	3,383.6 2,751.1 66.9 18,484.4 3,092.4 4,498.1 2,412.2	692.52 342.14 211.18 296.49 162.01 133.02 99.25 48.29 116.44 313.59 69.99 152.49 71.90 361.07 51.72 81.18 3,203.29 919.80	3,121.8 2,626.3 61.2 18,062.2 2,306.2 4,674.3 3,187.2	646.61 372.00 198.48 291.76 144.38 132.60 105.85 46.05 116.88 266.53 61.33 148.11 64.89 392.95 53.93 101.74 3,144.09 890.94	4,033.7 843.3 68.0 19,932.2 1,966.9 4,672.1 2,493.4	857.09 173.07 210.70 300.85 113.03 152.65 117.41 45.20 132.52 276.26 73.49 164.35 61.84 187.89 45.85 70.60 2,982.79 1,619.52	
Overhead Expenses Hired labor Building leases Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		97.01 56.81 47.09 61.24 88.89 168.13 57.79 576.97 3,780.26 342.83		41.40 64.42 50.61 59.74 75.56 176.54 54.90 523.17 3,667.26 367.77		255.56 48.59 48.66 84.48 89.93 222.96 66.11 816.29 3,799.08 803.23	
Labor & management charge Net return over lbr & mgt		187.06 155.78		191.10 176.67		241.93 561.31	
Cost of Production Per Cwt. Of Milk Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management		12.90 15.22 16.32 17.08		13.03 15.20 16.29 17.08		11.19 14.25 14.95 15.85	
Est. labor hours per unit		41.74		39.40		40.79	
Other Information Number of cows Milk produced per cow Total milk sold Lb. of milk sold per FTE Culling percentage Turnover rate Cow death loss percent Percent of barn capacity Feed cost per day Feed cost per cow. of milk Feed cost per cow Hired labor per cow Avg. milk price per cwt. Milk price / feed margin		209.9 24,830 5,182,993 1,656,097 30.0 36.7 6.3 113.6 5.31 7,80 1,936.62 458.08 17.72 9.92		195.1 24,122 4,673,960 1,702,858 30.2 37.3 6.5 117.8 5.18 7.84 1,891.68 434.35 17.83 9.99		269.2 26,655 7,124,086 1,816,713 31.0 37.0 5.6 114.7 5.27 7.22 1,924.79 443.45 17.99 10.77	

Livestock Enterprise Analysis Farm Business Management Statewide Data Excluding Organic & Organic Transition (Farms Sorted By Return to Overhead)

Dairy -- Average Per Cwt. Of Milk

	Avg. O: All Farm	f IS	40 - 60	0%	<u> </u>		
Number of farms	3	379	7	76	76		
Milk sold (hd) Dairy Calves sold (hd) Transferred out (hd) Cull sales (hd) Other income Purchased (hd) Transferred in (hd) Inventory change (hd) Dairy repl net cost Gross margin	Quantity 99.42 0.00 0.00 0.00 0.00 0.00 0.00	Value 17.62 0.18 0.15 0.95 0.18 -0.13 -0.24 0.20 -2.30 16.61	Quantity 99.33 0.00 0.00 0.00 0.00 0.00 0.00	Value 17.71 0.21 0.10 1.04 0.19 -0.13 -0.11 0.33 -2.62 16.73	Quantity 99.30 0.00 0.00 0.00 0.00 0.00	Value 17.87 0.13 0.26 0.96 0.22 -0.06 -0.51 0.21 -1.83 17.27	
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Haylage, Alfalfa (lb.) Other feed stuffs (lb) Breeding fees Veterinary Supplies Fuel & oil Repairs Custom hire Hired labor Hauling and trucking Bedding Total direct expenses Return over direct expense	13.63 11.08 0.27 74.44 12.45 18.12 9.71	2.79 1.38 0.85 1.19 0.65 0.54 0.40 0.19 0.47 1.26 0.28 0.61 0.29 1.45 0.21 0.33 12.90 3.70	12.94 10.89 0.25 74.88 9.56 19.38 13.21	2.68 1.54 0.82 1.21 0.60 0.55 0.44 0.19 0.48 1.10 0.25 0.61 0.27 1.63 0.22 0.42 13.03 3.69	15.13 3.16 0.26 74.78 7.38 17.53 9.35	3.22 0.65 0.79 1.13 0.42 0.57 0.44 0.17 0.50 1.04 0.28 0.62 0.23 0.70 0.17 0.26 11.19 6.08	
Overhead Expenses Hired labor Building leases Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		0.39 0.23 0.19 0.25 0.36 0.68 0.23 2.32 15.22 1.38		0.17 0.27 0.21 0.25 0.31 0.73 0.23 2.17 15.20 1.52		0.96 0.18 0.18 0.32 0.34 0.84 0.25 3.06 14.25 3.01	
Labor & management charge Net return over lbr & mgt		0.75 0.63		0.79 0.73		0.91 2.11	
Cost of Production Per Cwt. Of Milk Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management		12.90 15.22 16.32 17.08		13.03 15.20 16.29 17.08		11.19 14.25 14.95 15.85	
Est. labor hours per unit		0.17		0.16		0.15	
Other Information Number of cows Milk produced per cow Total milk sold Lb. of milk sold per FTE Culling percentage Turnover rate Cow death loss percent Percent of barn capacity Feed cost per day Feed cost per cwt. of milk Feed cost per cow Hired labor per cow Avg. milk price per cwt. Milk price / feed margin		209.9 24,830 5,182,993 1,656,097 30.0 36.7 6.3 113.6 5.31 7.80 1,936.62 458.08 17.72 9.92		195.1 24,122 4,673,960 1,702,858 30.2 37.3 6.5 117.8 5.18 7.84 1,891.68 434.35 17.83 9.99		269.2 26,655 7,124,086 1,816,713 31.0 37.0 5.6 114.7 5.27 7.22 1,924.79 443.45 17.99 10.77	

Organic Dairy -- Average Per Cow

	Avg. Of All Farms		33 -	66%	High 34%		
Number of farms		16		5		6	
Milk sold (hd) Dairy Calves sold (hd) Transferred out (hd) Cull sales (hd) Other income Purchased (hd) Transferred in (hd) Inventory change (hd) Dairy repl net cost Gross margin	Quantity 15,273.6 0.3 0.7 0.3 0.0 0.0 0.3	Value 5,002.41 50.08 22.09 190.32 126.15 -57.81 -77.65 111.54 -678.11 4,694.14	Quantity 13,471.5 0.5 0.5 0.2	Value 4,415.38 68.27 18.12 206.62 134.28 -27.41 -8.61 -637.69 4,188.56	Quantity 16,854.7 0.2 0.7 0.3 0.0 0.4 0.1	Value 5,590.06 48.63 10.62 185.79 105.20 -27.19 -123.51 112.89 -585.06 5,317.42	
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Haylage, Alfalfa (lb.) Corn, Organic (bu.) Corn Silage, Organic (lb.) Hay, Alfalfa, Organic (lb.) Pasture, Organic (aum) Hay, Grass, Organic (lb.) Other feed stuffs (lb) Breeding fees Supplies Fuel & oil Repairs Hired labor Machinery leases Utilities Marketing Bedding Total direct expenses Return over direct expense	1,224.1 515.3 4,746.9 51.3 8,453.7 3,792.2 2.2 1,055.5 3,329.8	373.64 70.27 184.01 409.79 229.92 267.37 60.91 53.40 231.05 32.25 263.47 54.59 177.39 147.24 52.32 55.06 37.56 71.01 2,771.27 1,922.87	436.3 1,893.5 - 55.1 860.7 7,406.6 3.7 3,220.8 981.2	221.68 252.86 449.02 38.73 575.31 76.01 165.80 137.59 25.61 193.35 49.16 137.30 98.34 36.24 30.33 73.06 12.98 2,573.40 1,615.16	1,433.8 36.8 8,682.6 57.5 11,568.8 1,195.0 1.5 325.0 4,297.8	380.03 7.58 336.58 457.57 272.32 82.87 44.01 16.25 284.50 37.76 267.06 59.51 216.80 176.56 68.07 65.87 22.84 91.98 2,888.15 2,429.27	
Overhead Expenses Hired labor Building leases Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		152.25 85.76 87.60 158.45 170.46 654.52 3,425.79 1,268.35		22.93 264.55 87.76 64.08 120.45 559.76 3,133.16 1,055.40		244.15 0.54 99.92 220.33 217.80 782.74 3,670.89 1,646.53	
Labor & management charge Net return over lbr & mgt		370.39 897.96		518.12 537.27		298.94 1,347.59	
Cost of Production Per Cwt. Of Milk Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management		17.62 21.78 24.53 26.89		18.30 22.28 24.84 28.53		16.75 21.29 23.47 25.20	
Est. labor hours per unit		35.87		27.65		38.21	
Other Information Number of cows Milk produced per cow Total milk sold Lb. of milk sold per FTE Culling percentage Turnover rate Cow death loss percent Percent of barn capacity Feed cost per day Feed cost per cwt. of milk Feed cost per cow Hired labor per cow Avg. milk price per cwt. Milk price / feed margin		105.5 15,730 1,611,609 1,192,217 25.6 30.3 4.5 102.1 5.15 11.95 1,880.38 299.49 32.75 20.80		88.3 14,064 1,189,536 1,364,262 23.3 29.9 6.6 113.2 5.25 13.63 1,917.02 121.27 32.78 19.15		153.8 17,242 2,592,811 1,235,080 26.8 29.6 2.6 99.8 5.16 10.91 1,881.71 420.71 33.17 22.25	

Livestock Enterprise Analysis Farm Business Management Statewide Data Excluding Organic & Organic Transition (Farms Sorted By Enterprise Size)

Dairy -- Average Per Cow

		Up to 50 50 100		100 200		200 500			Over 500	
Number of farms		42	1:	21	1	09		74		33
Milk sold (hd) Dairy Calves sold (hd) Transferred out (hd) Cull sales (hd) Other income Purchased (hd) Transferred in (hd) Inventory change (hd) Dairy repl net cost Gross margin	Quantity 16,172.1 0.2 0.6 0.3 0.1 0.3 0.0	Value 2,755.78 28.43 48.81 180.21 40.80 -149.23 -33.36 55.58 -499.79 2,428.50	Quantity 21,123.3 0.2 0.7 0.3 0.0 0.4 0.0	Value 3,651.15 41.04 68.71 226.89 32.99 -63.14 -92.77 43.31 -512.75 3,395.44	Quantity 22,720.7 0.2 0.6 0.3 0.0 0.3 0.0	Value 3,970.28 35.96 38.21 217.30 28.24 -44.59 -58.54 49.06 -552.78 3,683.13	Quantity 24,925.7 0.3 0.6 0.3 0.0 0.4 0.0	Value 4,410.73 58.47 34.65 230.42 50.16 -22.78 -79.40 34.49 -559.93 4,156.80	Quantity 27,012.2 0.3 0.6 0.3 0.0 0.4 0.0	Value 4,853.18 41.96 26.13 252.08 54.80 -15.87 -38.74 64.45 -611.32 4,626.66
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Haylage, Alfalfa (lb.) Other feed stuffs (lb) Breeding fees Veterinary BST Supplies Fuel & oil Repairs Custom hire Hired labor Hauling and trucking Bedding Total direct expenses Return over direct expense	1,711.5 806.4 54.0 13,882.0 4,169.7 2,395.9 3,522.2	358.58 143.75 159.54 209.39 219.09 71.83 143.64 31.67 73.85 252.62 57.17 120.72 21.08 14.85 69.48 34.46 1,981.70 446.80	2,883.3 1,270.5 63.8 16,772.2 4,372.6 3,046.3 2,141.2	643.14 197.84 196.65 241.67 255.12 98.20 93.01 48.70 100.46 6.24 264.88 52.58 135.14 45.15 63.73 71.33 53.16 2,567.01 828.43	2,837.0 2,497.9 60.8 16,630.3 3,261.9 3,317.8 2,525.0	602.66 373.25 187.07 253.16 201.15 97.82 106.60 43.00 100.96 10.45 258.93 59.14 151.35 49.55 154.31 57.21 73.09 2,779.71 903.42	2,979.6 1,848.2 72.1 19,480.1 2,654.8 5,100.2 2,050.3	659.41 355.63 229.98 313.71 151.77 153.94 118.69 48.40 120.77 39.20 269.60 68.00 147.33 76.62 381.95 44.96 87.25 3,267.21 889.59	4,215.1 4,128.0 67.6 19,402.1 2,912.0 5,169.5 2,658.1	796.66 369.14 215.82 325.95 119.53 148.15 79.77 51.65 127.92 64.72 290.91 82.90 163.93 90.21 556.35 47.47 91.34 3,622.42 1,004.24
Overhead Expenses Hired labor Building leases Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		33.43 12.86 88.21 94.35 114.80 132.39 476.05 2,457.75 -29.25		64.92 15.87 95.16 82.42 159.50 114.08 531.94 3,098.95 296.49		90.51 47.15 66.27 110.90 201.22 118.63 634.68 3,414.39 268.74		114.86 66.82 56.62 97.34 172.73 104.56 612.93 3,880.14 276.66		99.26 68.37 50.82 72.72 153.14 93.96 538.27 4,160.70 465.96
Labor & management charge Net return over lbr & mgt		377.81 -407.06		292.69 3.79		226.17 42.56		186.86 89.81		125.84 340.13
Cost of Production Per Cwt. Of National Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management	Лilk	12.11 15.02 17.19 19.49		12.07 14.57 15.87 17.25		12.18 14.96 16.29 17.28		13.00 15.44 16.57 17.31		13.36 15.34 16.24 16.70
Est. labor hours per unit		44.17		35.97		32.75		41.00		48.45
Other Information Number of cows Milk produced per cow Total milk sold Lb. of milk sold per FTE Culling percentage Turnover rate Cow death loss percent Percent of barn capacity Feed cost per day Feed cost per cow Hired labor per cow Avg. milk price per cwt. Milk price / feed margin		38.7 16,362 625,630 1,025,132 26.0 36.6 9.5 90.3 3.58 7.98 1,305.82 48.28 17.04 9.06		73.6 21,264 1,555,377 1,644,064 28.9 37.1 7.1 108.3 4.73 8.12 1,725.63 128.65 17.28 9.17		140.5 22,824 3,193,107 1,942,291 27.3 34.6 6.3 110.9 4.99 7.98 1,821.72 244.82 17.47 9.49		318.5 25,138 7,939,028 1,702,164 28.9 35.8 6.5 116.3 5.43 7.89 1,983.12 496.81 17.70 9.81		913.6 27,119 4,676,984 1,560,957 32.8 38.4 5.6 116.3 7.58 2,055.02 655.61 17.97 10.39

Livestock Enterprise Analysis Farm Business Management Statewide Data Excluding Organic and Organic Transition (Farms Sorted By Return to Overhead)

Dairy and Repl Heifers -- Average Per Cow

	Avg. Of All Farms		40 -	60%	<u> </u>		
Number of farms		315		63		63	
Milk sold (hd) Dairy Calves sold (hd) Transferred out (hd) Cull sales (hd) Other income Purchased (hd) Transferred in (hd) Inventory change (hd) Gross margin	Quantity 24,960.2 - - - - - -	Value 4,416.47 75.75 16.34 239.79 45.66 -40.33 -9.99 95.74 4,839.46	Quantity 24,004.5 - - - - -	Value 4,281.54 85.70 18.79 258.83 39.80 -43.14 -6.13 105.28 4,740.67	Quantity 27,581.1 - - - - - -	Value 4,911.44 61.30 26.16 273.17 63.78 -16.33 -7.13 84.07 5,396.48	
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Alfalfa (lb.) Other feed stuffs (lb) Breeding fees Veterinary Supplies Contract production exp. Fuel & oil Repairs Custom hire Hired labor Bedding Total direct expenses Return over direct expense	3,751.4 2,444.0 72.6 22,116.0 3,850.7 5,304.5 3,906.4	753.97 413.38 229.90 351.15 201.99 152.45 173.20 65.28 134.53 385.72 123.55 80.62 172.55 78.65 436.99 102.47 3,856.40 983.06	3,258.7 2,583.0 66.4 20,929.0 3,133.5 5,447.6 4,440.2	688.77 420.37 216.24 341.00 192.64 160.93 159.43 60.33 130.92 332.56 177.50 69.69 171.39 70.06 433.38 124.58 3,749.77 990.90	4,171.9 1,422.9 77.3 24,682.7 3,039.3 5,240.0 3,732.4	910.67 273.69 240.22 376.87 168.86 161.23 208.20 62.02 159.28 324.00 73.77 88.20 198.59 71.04 238.05 99.01 3,653.69 1,742.80	
Overhead Expenses Hired labor Building leases Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		94.53 72.21 69.61 99.57 190.56 114.47 640.94 4,497.34 342.12		43.86 77.87 62.72 90.38 207.72 120.40 602.95 4,352.72 387.95		271.85 74.85 101.23 105.91 275.38 125.71 954.91 4,608.60 787.88	
Labor & management charge Net return over lbr & mgt		196.13 145.99		216.79 171.16		234.94 552.94	
Cost of Production Per Cwt. Of Milk Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management		15.36 17.92 16.32 17.10		15.53 18.03 16.22 17.11		13.13 16.57 14.94 15.79	
Est. labor hours per unit		49.11		46.61		48.28	
Other Information Number of cows Milk produced per cow Total milk sold Lb. of milk sold per FTE Culling percentage Turnover rate Cow death loss percent Percent of barn capacity Feed cost per day Feed cost per day Feed cost per cow Hired labor per cow Avg. milk price per cwt. Milk price / feed margin		219.0 25,102 5,466,349 1,422,960 30.2 36.8 6.2 114.1 6.24 9.07 2,276.04 531.52 17.69 8.63		213.5 24,143 5,123,834 1,442,049 30.7 37.8 6.6 117.1 5.97 9.03 2,179.36 477.24 17.84 8.81		243.6 27,821 6,718,870 1,599,484 33.1 5.7 115.1 6.41 8,41 2,339.74 509.90 17.81 9.40	

Livestock Enterprise Analysis Farm Business Management Statewide Data Excluding Organic & Organic Transition (Farms Sorted By Return to Overhead)

Dairy Replacement Heifers -- Average Per Head

	Avg. O All Farn		40 - 60	0%	High 2	0%
Number of farms	;	350	-	70	-	70
Replacements sold (hd) Transferred out (hd) Cull sales (hd) Other income Purchased (hd) Transferred in (hd) Inventory change (hd) Gross margin	Quantity 0.1 0.4 0.0 0.0 0.1 0.1 0.1	Value 46.25 567.30 3.59 1.58 -20.23 -123.60 44.37 519.25	Quantity 0.1 0.4 0.0 0.0 0.0 0.0 0.6 0.0	Value 29.86 575.43 1.55 0.37 -4.65 -124.19 48.17 526.54	Quantity 0.1 0.5 0.0 0.1 0.6 0.1	Value 76.66 699.10 4.91 1.99 -22.55 -121.09 79.69 718.70
Direct Expenses Protein Vit Minerals (lb.) Milk Replacer (lb.) Milk (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Haylage, Alfalfa (lb.) Other feed stuffs (lb) Breeding fees Veterinary Supplies Contract production exp. Fuel & oil Repairs Hired labor Bedding Total direct expenses Return over direct expense	457.7 10.6 104.6 391.6 5.8 4,392.6 914.9 667.3 1,010.3 1,200.7	87.89 14.38 15.78 60.65 17.91 64.17 51.16 24.41 29.93 33.26 17.59 19.33 25.03 82.28 11.54 24.97 42.21 19.86 642.36 -123.11	332.7 10.0 59.2 466.8 5.4 4,054.0 825.6 620.7 1,152.3 1,393.1	69.69 13.58 10.15 66.59 16.55 64.84 48.06 24.74 36.01 34.29 16.46 20.98 22.16 91.00 11.03 27.11 56.64 15.15 645.02 -118.48	477.0 9.9 112.5 334.8 4.9 3,356.4 553.3 521.2 757.3 1,197.3	64.65 11.95 19.70 57.63 15.60 51.40 22.22 17.39 21.35 24.04 16.62 19.48 20.83 112.92 11.65 22.31 16.16 15.98 541.89 176.81
Overhead Expenses Hired labor Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		24.79 8.09 12.07 15.87 29.81 17.85 108.48 750.85 -231.59		8.80 9.16 11.44 18.38 31.31 16.73 95.82 740.84 -214.30		54.09 7.39 12.78 13.03 28.41 14.21 129.90 671.80 46.90
Labor & management charge Net return over lbr & mgt		32.29 -263.89		33.81 -248.11		33.96 12.94
Cost of Production Per Head Per Day Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management		2.02 2.32 2.32 2.40		1.98 2.25 2.25 2.34		1.64 2.00 2.00 2.09
Est. labor hours per unit		6.89		7.34		6.98
Other Information No. purchased or trans in Number sold or trans out Average number of head Percentage death loss Feed cost per average head Hired labor per average head Feed cost/head sold/trans Total cost/head sold/trans Feed cost per head per day Avg. purchase weight Avg. purch price / head Avg. sales price / head		115 97 181 6.9 399.54 67.00 746.51 1,639.41 1.09 11 638.04 464.99		93 79 154 9.7 384.49 65.44 754.75 1,675.19 1.05 - 947.55 345.85		140 114 200 4.3 305.93 70.24 537.01 1,339.00 0.84 28 409.27 929.87

Livestock Enterprise Analysis Farm Business Management Statewide Data Excluding Organic and Organic Transition (Farms Sorted By Return to Overhead)

Dairy Feeder -- Average Per Cwt. Produced

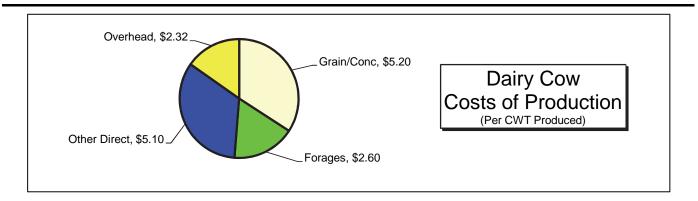
	Avg. Of All Farms		40 - 6	60%	High 20%		
Number of farms		24		5		5	
Dairy Feeder sold (lb) Transferred out (lb) Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 103.75 5.52 -17.89 -5.23 12.47	Value 119.33 6.30 1.31 -27.33 -11.55 13.41 101.46	Quantity 117.71 6.67 -27.33 -4.26 7.21	Value 125.87 7.34 - -41.24 -4.26 8.04 95.75	Quantity 108.86 4.58 -13.29 -4.12 3.98	Value 127.94 5.50 - -19.45 -4.12 -0.23 109.63	
Direct Expenses Protein Vit Minerals (lb.) Milk Replacer (lb.) Milk (lb.) Creep / Starter (lb.) Complete Ration (lb.) Corn (bu.) Hay, Alfalfa (lb.) Hay, Alfalfa (lb.) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Bedding Operating interest Total direct expenses Return over direct expense	81.19 7.72 48.80 28.73 53.74 3.53 37.23 41.89 66.08	12.62 10.00 8.45 6.42 9.15 10.79 1.99 1.58 1.81 4.39 3.26 1.71 3.16 5.04 1.21 81.58 19.88	29.56 12.93 23.84 58.13 57.68 1.55 70.06 13.45 89.26	8.19 14.92 4.17 12.43 10.78 4.66 3.57 0.57 1.99 4.23 4.41 2.08 2.19 1.64 3.16 78.99 16.77	133.55 5.64 3.68 11.97 19.47 4.46 9.16 10.31 21.56	14.31 7.37 0.54 2.58 4.75 13.59 0.55 0.41 1.30 1.73 1.36 1.56 3.34 1.12 0.64 55.14	
Overhead Expenses Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		0.25 1.49 2.11 0.33 3.25 5.26 1.19 13.89 95.47 5.99		0.06 1.20 1.72 0.54 3.16 7.34 1.46 15.48 94.46 1.29		0.55 2.47 3.10 0.27 4.72 5.20 0.90 17.21 72.36 37.27	
Labor & management charge Net return over lbr & mgt		6.67 -0.68		5.81 -4.52		7.82 29.46	
Cost of Production Per Cwt. Produced Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management		96.76 109.48 109.48 115.58		93.62 106.06 106.06 110.73		69.60 84.77 84.77 91.66	
Est. labor hours per unit		1.07		1.17		0.69	
Other Information No. purchased or trans in Number sold or trans out Percentage death loss Avg. daily gain (lb.) Lb. of conc / lb. of gain Lb. of feed / lb. of gain Feed cost per cwt. of gain Feed cost per head Hired labor per head Average purchase weight Avg wgt / Dairy Feeder sold Avg purch price / head Avg sales price / cwt.		118 102 5.1 1.69 4.55 6.21 62.81 201.16 0.51 93 416 141.37		143 144 0.3 1.44 2.39 3.97 61.28 184.70 0.41 122 465 183.99 106.94		122 114 6.4 2.15 7.26 7.71 45.39 202.04 0.88 69 520 101.29 117.53	

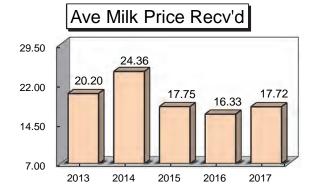
Livestock Enterprise Analysis Farm Business Management Statewide Data Excluding Organic & Organic Transition (Farms Sorted By Return to Overhead)

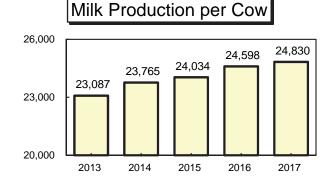
Dairy Finishing -- Average Per Cwt. Produced

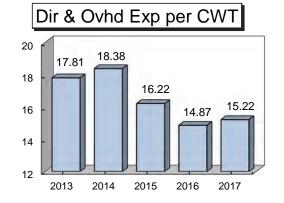
	Avg. Of All Farms		40 - 60	0%	<u> </u>		
Number of farms	1	15	2	23		23	
Dairy Finish sold (lb) Transferred out (lb) Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 127.13 0.48 -30.55 -2.22 4.16	Value 123.11 0.44 0.50 -34.14 -3.39 4.91 91.44	Quantity 124.32 - -38.55 -0.92 14.83	Value 121.96 0.38 -40.34 -2.50 12.55 92.05	Quantity 116.27 0.06 -15.39 -3.22 1.31	Value 119.28 0.06 1.15 -20.16 -4.40 7.75 103.68	
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) DDGS, dry (lb.) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Custom hire Hired labor Hauling and trucking Marketing Bedding Operating interest Total direct expenses Return over direct expense	65.92 17.59 9.71 157.69 19.95 154.32	13.02 2.87 29.82 2.42 1.46 5.28 2.52 1.78 1.29 2.50 0.72 0.92 1.12 1.06 1.40 1.99 70.16 21.27	73.59 29.00 8.84 262.82 8.81 133.60	13.31 5.33 26.90 4.41 0.99 5.12 2.51 1.18 1.75 2.77 1.03 1.07 1.28 0.89 0.66 3.36 72.58 19.47	75.00 2.80 8.34 127.29 26.80 92.02	13.69 0.49 25.54 1.71 2.06 4.30 2.49 0.90 0.97 2.49 0.28 0.28 0.28 0.22 1.05 0.75 1.23 58.45 45.23	
Overhead Expenses Hired labor Building leases Farm insurance Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		0.93 1.01 1.12 1.74 3.57 1.99 10.36 80.53 10.91		0.65 0.18 1.10 2.75 4.95 1.88 11.51 84.09 7.96		2.30 0.11 0.97 1.81 3.41 2.18 10.77 69.22 34.46	
Labor & management charge Net return over lbr & mgt		4.16 6.74		4.86 3.10		3.91 30.55	
Cost of Production Per Cwt. Produced Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management		79.64 87.76 88.28 91.54		82.44 91.70 91.70 95.61		63.71 72.96 72.96 76.33	
Est. labor hours per unit		0.44		0.44		0.45	
Other Information No. purchased or trans in Number sold or trans out Percentage death loss Avg. daily gain (lb.) Lb. of conc / lb. of gain Lb. of feed / lb. of gain Feed cost per cwt. of gain Feed cost per head Hired labor per head Average purchase weight Avg wgt / Dairy Finish sold Avg purch price / head Avg sales price / cwt.		175 158 2.7 2.45 7.00 8.34 54.86 561.45 18.96 382 1,398 426.67 96.84		239 213 2.9 2.38 6.46 8.11 56.08 536.01 16.40 422 1,349 441.78 98.10		171 152 2.9 2.47 6.11 6.97 47.79 557.70 30.05 282 1,421 369.65 102.59	

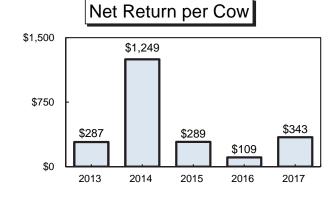
Summary of Selected Dairy Enterprise Factors

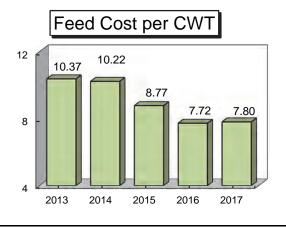


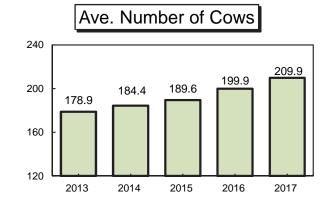


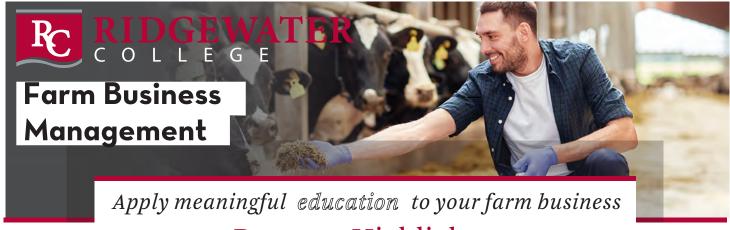












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Beef Cow-Calf -- Average Per Cow

	Avg. C All Farr		40 - 60	%	High 20%		
Number of farms	1	16		23	24		
Beef Calves sold (lb) Transferred out (lb) Cull sales (lb) Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 216.0 228.8 97.0 -34.5 -22.4 5.9	Value 318.58 366.95 114.49 6.00 -142.78 -57.10 92.04 698.19	Quantity 147.8 274.2 45.2 -14.0 -3.4 -3.4	Value 237.97 485.21 107.50 3.11 -124.49 -113.52 42.69 638.48	Quantity 272.5 292.9 104.5 -104.5 -5.3 1.0	Value 387.77 457.49 99.65 4.31 -167.30 -5.31 147.28 923.90	
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) Hay (lb.) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Operating interest Total direct expenses Return over direct expense	300.4 71.6 3.3 4,107.5 1,582.0 3,423.1 3.4 738.5 1,582.0	44.22 7.85 10.17 60.68 69.26 105.11 51.34 21.89 24.83 32.59 49.43 24.91 47.97 13.57 563.81 134.38	168.5 89.0 2.7 4,673.9 1,879.2 3,034.9 3.5 1,205.9 557.9	39.01 17.30 8.34 65.20 81.28 90.65 42.38 34.49 10.87 36.86 35.74 21.68 36.14 6.47 526.40 112.07	275.5 48.6 4.2 4,832.2 1,218.5 1,899.6 0.8 445.8 2,425.9	48.11 9.20 13.35 75.39 61.81 46.83 19.46 13.47 43.61 33.41 35.50 26.51 45.27 13.67 485.60 438.30	
Overhead Expenses Hired labor RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		7.90 6.44 14.46 12.59 5.93 44.23 46.89 14.95 153.39 717.20 -19.01		2.46 7.89 15.82 11.57 5.12 25.51 61.68 13.37 143.43 669.83 -31.35		19.59 6.52 11.54 10.97 7.55 45.77 44.13 18.15 164.22 649.82 274.08	
Labor & management charge Net return over lbr & mgt		102.65 -121.66		101.52 -132.87		136.29 137.79	
Cost of Production Per Cwt. Produced Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management		114.32 145.42 147.61 168.42		117.66 149.72 172.03 194.73		86.54 115.81 109.94 134.23	
Est. labor hours per unit		9.62		10.41		10.96	
Other Information Number of cows Pregnancy percentage Pregnancy loss percentage Culling percentage Calving percentage Weaning percentage Weaning percentage Calves sold per cow Calf death loss percent Cow death loss percent Cows per FTE Average weaning weight Lb. weaned/exposed female Feed cost per cow Avg wgt/ Beef Calves sold Avg price / cwt.		69.8 95.0 1.6 12.5 93.5 87.5 0.82 5.4 2.3 291.2 535 468 395.34 609 147.47		56.5 96.3 0.9 12.5 95.5 89.5 0.90 4.9 2.0 269.0 533 477 389.51 548 160.99		72.3 98.6 1.7 9.6 96.9 94.6 0.92 2.1 2.0 255.5 552 522 331.23 650 142.29	

Beef Cow-Calf -- Average Per Cow

	Avg. O All Farn		33 - 60	<u>6%</u>	<u> </u>		
Number of farms		23		8	_	8	
Beef Calves sold (lb) Transferred out (lb) Cull sales (lb) Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 565.3 45.4 60.3 -21.6 -11.7 -18.7	Value 754.89 68.43 86.74 8.84 -129.95 -20.00 136.94 912.79	Quantity 504.8 91.3 77.1 - -24.1 -28.3	Value 672.11 128.54 67.77 4.79 -2.84 -25.57 -1.09 843.70	Quantity 663.8 - 69.6 -64.4 - 15.3	Value 882.68 14.67 108.07 16.56 -324.72 -23.05 412.61 1,107.77	
Direct Expenses Beet Pulp (dry) (lb.) Protein Vit Minerals (lb.) Complete Ration (lb.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) Hay (lb.) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Custom hire Livestock leases Operating interest Total direct expenses Return over direct expense	2,993.4 314.2 201.6 5,598.2 454.4 4,499.8 4.8 2,659.7 319.0	14.27 48.88 15.31 83.70 18.28 130.06 65.96 78.79 14.42 37.71 36.86 26.64 35.81 7.82 6.90 17.63 639.05 273.73	2,840.9 220.6 115.1 4,851.6 134.9 4,801.1 5.8 2,306.8 461.7	12.78 45.40 7.81 72.79 8.10 140.26 78.96 74.31 7.00 31.57 23.97 27.21 32.73 0.34 14.20 21.70 599.12 244.58	3,990.0 421.6 442.8 8,283.9 787.9 1,460.6 3.2 4,679.5 283.5	18.54 52.49 35.01 123.41 28.88 36.35 46.08 129.83 19.78 48.74 54.16 29.52 37.71 19.37 10.73 690.60 417.17	
Overhead Expenses Farm insurance Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		13.59 9.26 31.28 26.71 35.93 116.76 755.82 156.97		11.45 6.78 35.94 26.77 36.18 117.12 716.24 127.47		14.44 14.93 24.31 32.19 37.28 123.14 813.74 294.04	
Labor & management charge Net return over lbr & mgt		97.11 59.86		83.37 44.09		121.22 172.81	
Cost of Production Per Cwt. Produced Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management		102.59 121.34 110.66 126.25		96.10 114.89 105.61 118.98		100.15 118.01 104.73 122.31	
Est. labor hours per unit		7.89		6.63		8.59	
Other Information Number of cows Pregnancy percentage Pregnancy loss percentage Culling percentage Calving percentage Weaning percentage Calves sold per cow Calf death loss percent Cow death loss percent Cows per FTE Average weaning weight Lb. weaned/exposed female Feed cost per cow Avg wgt/ Beef Calves sold Avg price / cwt.		126.1 96.2 1.8 10.8 94.5 90.1 0.87 4.8 2.0 354.8 550 496 469.69 727 133.54		176.0 95.2 1.2 9.7 94.0 89.9 0.87 3.9 2.5 422.3 591 531 447.41 725 133.15		119.3 98.0 0.5 12.0 97.5 93.0 0.90 4.7 1.3 325.9 507 471 490.37 754 132.97	

Livestock Enterprise Analysis Farm Business Management Statewide Data Excluding Backgrounding (Farms Sorted By Enterprise Size)

Beef Cow-Calf -- Average Per Cow

		Avg. Of Up to All Farms 50		50 100			100 200	
Number of farms		116	58	8	40		14	
Beef Calves sold (lb) Transferred out (lb) Cull sales (lb) Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 216.0 228.8 97.0 -34.5 -22.4 5.9	Value 318.58 366.95 114.49 6.00 -142.78 -57.10 92.04 698.19	Quantity 189.5 193.5 60.3 -40.5 -7.8 14.2	Value 275.26 281.89 72.94 8.19 -114.51 -15.49 97.73 606.01	Quantity 249.7 232.5 156.3 -42.3 -30.8 -3.7	Value 375.13 376.93 153.47 4.29 -124.05 -73.29 25.24 737.73	Quantity 162.1 291.0 97.1 -43.8 -40.8 10.3	Value 245.30 488.16 80.50 5.04 -103.63 -86.99 137.85 766.23
Direct Expenses Protein Vit Minerals (lb.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) Hay (lb.) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Custom hire Hired labor Operating interest Total direct expenses Return over direct expense	300.4 3.3 4,107.5 1,582.0 3,423.1 3.4 738.5 1,653.7	44.22 10.17 60.68 69.26 105.11 51.34 21.89 32.68 32.59 40.61 24.91 47.97 4.97 3.85 13.57 563.81 134.38	236.6 7.6 3,801.3 1,403.6 3,549.8 2.2 666.5 852.2	52.85 23.34 54.35 60.29 104.05 30.92 19.95 34.05 33.64 43.29 26.08 44.43 5.46 2.15 12.09 546.93 59.08	216.3 1.7 3,411.5 1,991.4 3,235.9 2.6 1,638.5 2,263.0	38.11 5.22 49.92 83.33 95.95 40.49 48.43 40.33 29.70 42.74 25.77 44.02 3.20 3.76 10.43 561.41 176.32	497.1 4.1 6,945.2 1,562.7 1,988.9 3.6 - 2,226.3	46.92 12.62 104.64 78.37 74.60 61.15 29.44 42.18 48.53 17.40 34.75 3.92 2.60 11.26 568.39 197.84
Overhead Expenses Machinery leases RE & pers. property taxes Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		4.58 6.44 14.46 12.59 44.23 46.89 24.20 153.39 717.20 -19.01		1.82 11.22 17.69 13.18 52.62 52.92 25.45 174.91 721.84 -115.83		3.60 8.59 18.04 16.05 28.56 51.76 30.65 157.24 718.64 19.09		1.69 2.99 9.68 10.09 19.80 45.97 23.54 113.76 682.14 84.09
Labor & management charge Net return over lbr & mgt		102.65 -121.66		133.84 -249.67		107.11 -88.02		84.91 -0.83
Cost of Production Per Cwt. Production Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management	ced	114.32 145.42 147.61 168.42		131.71 173.84 171.68 203.91		99.79 127.74 129.86 148.90		118.55 142.28 143.51 161.22
Est. labor hours per unit		9.62		13.65		8.87		8.70
Other Information Number of cows Pregnancy percentage Pregnancy loss percentage Culling percentage Calving percentage Weaning percentage Calves sold per cow Calf death loss percent Cow death loss percent Cows per FTE Average weaning weight Lb. weaned/exposed female Feed cost per cow Avg wgt/ Beef Calves sold Avg price / cwt.		69.8 95.0 1.6 12.5 93.5 87.5 0.82 5.4 2.3 291.2 535 468 395.34 609 147.47		30.6 93.5 2.0 8.1 91.6 86.8 0.71 6.9 3.0 205.1 514 447 379.79 549 145.28		73.1 96.0 1.6 15.4 94.5 87.6 0.91 5.7 2.3 315.8 549 481 401.78 609 150.25		136.4 94.4 0.8 9.2 93.6 90.1 0.88 3.0 2.1 321.7 543 490 407.75 601 151.35

Beef Finishing -- Average Per Cwt. Produced

	Avg. C All Farn		40 - 6	0%	High 20%		
Number of farms		79		16		16	
Finish Beef sold (lb) Transferred out (lb) Cull sales (lb) Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 194.03 2.05 0.01 -88.49 -7.54 -0.95	Value 232.08 3.00 0.01 -0.24 -133.15 -11.07 11.09 101.72	Quantity 178.10 2.89 0.07 -86.48 -7.82 11.94	Value 215.13 5.45 0.05 1.23 -137.29 -11.85 24.62 97.33	Quantity 160.62 5.06 - -65.67 -6.93 6.19	Value 199.45 7.16 - 3.49 -89.61 -8.81 17.16 128.83	
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) Corn, Ear (lb.) Hay, Alfalfa (lb.) DDGS, dry (lb.) DDGS, wet (lb.) Other feed stuffs (lb) Veterinary Supplies Contract production exp. Fuel & oil Repairs Hired labor Hauling and trucking Marketing Operating interest Total direct expenses Return over direct expense	46.45 22.00 7.81 319.22 21.97 41.16 114.79 26.66 196.94	8.47 2.19 23.95 4.28 0.66 1.88 3.86 0.82 4.62 2.28 1.95 1.71 1.84 3.45 1.19 1.75 1.26 2.17 68.32 33.40	33.73 16.75 7.09 345.16 80.34 60.47 32.51 100.42 73.04	9.14 2.04 21.77 4.78 3.45 3.18 1.67 3.02 2.87 3.07 1.78 - 1.31 3.14 2.05 2.96 0.26 3.00 69.50 27.83	24.82 102.53 6.97 336.18 53.26 8.32 23.83 237.67	5.12 8.54 21.76 1.76 1.63 0.72 1.11 4.95 1.72 0.76 0.78 0.95 3.76 2.45 0.91 1.43 58.33 70.51	
Overhead Expenses Hired labor Farm insurance Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		1.30 1.55 5.44 3.66 11.96 80.28 21.44		0.07 0.78 5.37 2.48 8.69 78.20 19.14		1.02 1.79 3.05 3.55 9.40 67.73 61.11	
Labor & management charge Net return over lbr & mgt		5.88 15.56		8.09 11.05		4.68 56.43	
Cost of Production Per Cwt. Produced Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management		102.23 108.33 108.96 111.96		106.38 111.18 111.30 115.77		83.75 89.42 87.82 90.64	
Est. labor hours per unit		0.42		0.49		0.46	
Other Information No. purchased or trans in Number sold or trans out Percentage death loss Avg. daily gain (lb.) Lb. of conc / lb. of gain Lb. of feed / lb. of gain Feed cost per cwt. of gain Feed cost per head Hired labor per head Average purchase weight Avg wgt / Finish Beef sold Avg purch price / cwt. Avg sales price / cwt.		219 215 0.8 2.74 7.10 9.37 50.72 356.74 17.53 670 1,358 150.48 119.61		172 158 0.6 2.70 6.75 9.05 51.92 329.54 13.50 616 1,294 158.76 120.79		127 119 1.4 2.24 5.93 8.80 45.57 336.78 7.52 568 1,294 136.46 124.17	

Hogs, Weaning to Finish -- Average Per Head

	Avg. Of All Farms		40 - 6	0%	High 20%	
Number of farms				5		
Wean-Fin Pig sold (lb) Transferred out (lb) Cull sales (lb) Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 268.6 1.6 1.4 -13.8 -1.9 7.7	Value 146.56 1.52 0.48 2.57 -38.72 -7.43 4.77 109.76	Quantity 260.2 8.8 0.3 -5.5 -11.1 8.9	Value 144.80 9.43 0.05 21.41 -16.19 -46.31 9.06 122.26	Quantity 263.2 0.6 2.0 -15.9 - 16.1	Value 147.11 0.31 0.47 -0.35 -42.07 - 8.71 114.18
Pirect Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) DDGS, dry (lb.) Other feed stuffs (lb) Veterinary Supplies Contract production exp. Fuel & oil Repairs Custom hire Hired labor Hauling and trucking Marketing Operating interest Total direct expenses Return over direct expense	157.6 67.4 7.4 82.3 9.3	27.28 6.38 23.54 4.52 2.36 3.81 2.01 5.48 0.76 1.77 1.92 1.91 1.71 0.84 0.86 85.15 24.61	140.8 0.5 8.1 88.9 0.0	36.68 0.12 25.70 5.06 0.00 3.23 2.80 8.40 1.31 1.39 1.09 5.52 0.15 2.14 0.81 94.41 27.84	174.4 13.9 7.2 128.6 11.3	25.73 1.36 22.71 6.97 3.76 3.33 1.73 5.88 0.60 1.79 2.87 1.35 1.56 0.34 0.83 80.81 33.37
Overhead Expenses Hired labor Building leases Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		0.85 6.61 0.93 0.53 0.85 2.84 0.79 13.41 98.56 11.20		0.40 0.82 1.38 1.35 0.89 4.84 0.96 10.63 105.04 17.22		1.57 6.62 0.72 0.37 0.84 3.04 0.70 13.85 94.66 19.52
Labor & management charge Net return over lbr & mgt		4.07 7.13		8.87 8.35		2.03 17.49
Cost of Production/Cwt. Carcass Sold Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management		63.36 70.11 68.87 70.92		76.75 82.26 71.15 75.75		58.62 65.77 66.04 67.09
Est. labor hours per unit		0.26		0.34		0.24
Other Information No. purchased or trans in Number sold or trans out Percentage death loss Percent substandard hogs Avg. daily gain (lb.) Lb. of feed / lb. of gain Feed cost per cwt. of gain Feed cost per head Hired labor per head Average purchase weight Avg wgt / Wean-Fin Pig sold Avg purch price / head Avg sales price / cwt. Average price / cwt. carcass		20,506 18,195 5.8 2 1.46 2.79 24.29 64.07 2.76 15 265 41.15 54.56 199 73.28		18,006 14,423 12.4 1 1.33 2.61 25.83 67.56 5.91 14 254 41.58 55.66 189 74.97		40,563 34,811 5.1 2 1.50 2.83 22.73 60.53 2.92 15 262 39.79 55.90 197 75.48

Hogs, Finish Feeder Pigs -- Average Per Cwt. Carcass Sold

	Avg. Of All Farms		40 - 60	9%	High 20%	
Number of farms			5		6	
Finish Hogs sold (lb) Transferred out (lb) Cull sales (lb) Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 136.15 1.23 0.74 -20.19 -2.51 1.72	Value 69.72 0.86 0.16 0.48 -27.16 -3.62 3.33 43.78	Quantity 136.69 7.19 0.12 -26.32 - 6.10	Value 74.24 4.10 0.03 -0.98 -35.43 5.70 47.66	Quantity 134.83 - 0.94 -27.25 - 3.85	Value 74.76 - 0.26 0.22 -35.49 5.37 45.11
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) DDGS, dry (lb.) Other feed stuffs (lb) Veterinary Supplies Contract production exp. Fuel & oil Repairs Custom hire Utilities Hauling and trucking Marketing Operating interest Total direct expenses Return over direct expense	73.00 85.45 3.23 3.57 2.86	11.70 5.87 10.53 0.21 0.20 0.65 0.61 1.41 0.25 0.59 0.19 0.11 1.07 0.25 0.58 34.22 9.56	97.30 3.85 11.82	15.55 - 12.39 0.66 0.64 0.28 3.39 0.62 1.24 0.53 0.32 1.00 0.25 0.77 37.65 10.01	84.05 3.48 4.17	12.88
Overhead Expenses Hired labor Building leases Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		0.54 3.23 0.52 0.35 0.39 1.05 0.40 6.48 40.71 3.07		0.32 0.72 0.51 0.21 0.57 1.66 0.43 4.42 42.07 5.59		0.76 4.04 0.46 0.30 0.75 0.30 7.07 35.03 10.09
Labor & management charge Net return over lbr & mgt		1.32 1.75		1.75 3.84		1.88 8.21
Cost of Production/Cwt. Carcass Sold Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management		61.47 67.96 67.51 68.83		67.35 71.77 72.75 74.50		57.82 64.89 64.67 66.55
Est. labor hours per unit		0.10		0.09		0.21
Other Information No. purchased or trans in Number sold or trans out Percentage death loss Percent substandard hogs Avg. daily gain (lb.) Lb. of feed / lb. of gain Feed cost per cwt. of gain Feed cost per head Hired labor per head Average purchase weight Avg wgt / Finish Hogs sold Avg purch price / head Avg sales price / cwt. Average carcass weight Average price / cwt. carcass		10,220 9,356 3.5 2 1.80 2.95 24.32 58.24 1.25 41 275 55.64 51.21 205 69.14		9,056 7,991 2.2 2 2.06 2.62 23.11 53.30 0.65 44 273 59.06 54.31 204 73.46		2,937 2,466 3.7 2 1.67 2.52 22.02 51.71 1.59 46 271 59.88 55.45 205 74.14

Selected Crop & Livestock Enterprise Trend Summary Northern Minnesota Farm Business Management Data

Alfalfa Hay	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	Total Dir&Ovhd Expense
Yield per Acre	3.3	4.0	3.9	5.0	4.5	
Value per Ton	\$153.38	\$176.49	\$153.84	\$110.40	\$108.87	\$400
Fuel, Oil, Repairs per Acre	\$91.09	\$114.57	\$83.10	\$79.40	\$82.42	\$300 302 380 329 338 329
Total Dir & Ovhd Exp per Acre	\$302.28	\$379.84	\$329.25	\$338.03	\$328.96	\$200
Net Return per Acre	\$218.54	\$337.71	\$292.23	\$209.56	\$167.85	\$100
Total Direct Expenses per Ton	\$51.79	\$48.66	\$42.09	\$32.55	\$35.05	\$0 2013 2014 2015 2016 2017
Total Dir & Ovhd Exp per Ton	\$91.64	\$94.13	\$84.09	\$68.35	\$73.25	2013 2014 2013 2010 2017
Corn						
Yield per Acre	108.5	118.8	164.2	179.5	164.6	\$600
Value per Bushel	\$4.02	\$3.42	\$3.30	\$2.95	\$3.08	\$580
Fuel, Oil, Repairs per Acre	\$88.78	\$87.92	\$80.80	\$71.55	\$74.43	\$560
Total Dir & Ovhd Exp per Acre	\$553.77	\$581.67	\$562.75	\$537.05	\$539.30	\$540 - 554 - 563 - 537 539
Net Return per Acre	-\$44.10	-\$75.40	-\$0.05	\$1.65	-\$14.68	\$520
Total Direct Expenses per Bu.	\$3.71	\$3.43	\$2.40	\$1.98	\$2.17	\$500 2013 2014 2015 2016 2017
Total Dir & Ovhd Exp per Bushel	\$5.11	\$4.90	\$3.43	\$2.99	\$3.28	
Corn Silage						
Yield per Acre	11.7	14.3	19.5	19.4	19.8	\$600
Value per Ton	\$40.01	\$35.05	\$34.46	\$33.91	\$30.45	[]
Fuel, Oil, Repairs per Acre	\$100.48	\$122.88	\$93.91	\$88.07	\$93.48	\$550 555 539 545
Total Dir & Ovhd Exp per Acre	\$504.52	\$576.47	\$554.58	\$539.19	\$545.06	\$500
Net Return per Acre	\$155.90	\$9.68	\$120.30	\$119.00	\$68.81	\$450
Total Direct Expenses per Ton	\$31.22	\$27.70	\$19.47	\$18.88	\$18.82	2013 2014 2015 2016 2017
Total Dir & Ovhd Exp per Ton	\$43.05	\$40.28	\$28.43	\$27.80	\$27.48	
<u>Soybeans</u>						
Yield per Acre	33.4	33.0	38.1	46.7	35.2	\$310
Value per Bushel	\$12.52	\$9.73	\$8.33	\$9.27	\$9.05	\$300
Fuel, Oil, Repairs per Acre	\$45.26	\$46.04	\$38.24	\$38.23	\$39.35	\$290
Total Dir & Ovhd Exp per Acre	\$288.53	\$289.37	\$288.14	\$285.42	\$299.63	\$280 289 288 285
Net Return per Acre	\$139.81	\$52.87	\$43.58	\$151.42	\$38.07	\$270
Total Direct Expenses per Bu.	\$5.76	\$5.81	\$4.94	\$3.80	\$5.55	2013 2014 2015 2016 2017
Total Dir & Ovhd Exp per Bushel	\$8.65	\$8.76	\$7.57	\$6.12	\$8.51	
Spring Wheat						
Yield per Acre	66.5	60.2	66.0	66.0	72.3	\$340
Value per Bushel	\$6.24	\$5.62	\$4.96	\$4.95	\$5.90	\$320 329
Fuel, Oil, Repairs per Acre	\$44.21	\$43.17	\$38.15	\$35.53	\$39.62	\$300
Total Dir & Ovhd Exp per Acre	\$329.01	\$320.40	\$299.33	\$291.26	\$289.47	\$280 - 299 291 289 -
Net Return per Acre	\$95.54	\$32.83	\$40.40	\$39.56	\$146.74	\$260
Total Direct Expenses per Bu.	\$3.56	\$3.77	\$3.19	\$2.92	\$2.73	2013 2014 2015 2016 2017
Total Dir & Ovhd Exp per Bushel	\$4.95	\$5.32	\$4.54	\$4.41	\$4.00	
Beef Cow Calf				•		\$900
Price Recv'd/Cwt Calf Sold	\$152.83	\$212.33	\$206.46	\$156.42	\$147.47	\$850
Total Feed Cost/Cow	\$479.03	\$508.48	\$438.89	\$412.74	\$395.34	\$800
Return over Feed/Cow	\$298.68	\$786.66	\$425.07	\$220.55	\$302.85	\$750 741 747 740 717
Net Return/Cow	\$36.61	\$451.63	\$117.23	-\$84.29	-\$19.01	\$700
Total Direct & Ovhd Expenses	\$741.10	\$843.51	\$746.72	\$717.58	\$717.20	2013 2014 2015 2016 2017
Dairy Cows						
Production/Cow	23,087	23,765	24,034	24,598	24,830	\$20
Price Recv'd/Cwt Milk	\$20.20	\$24.36	\$17.75	\$16.33	\$17.72	18 18
Total Feed Cost/Cwt Milk	\$10.37	\$10.22	\$8.77	\$7.72	\$7.80	\$15
Return over Feed/Cwt Milk	\$8.69	\$13.42	\$8.65	\$8.61	\$9.92	15 15 15
Net Return/Cwt Milk	\$1.24	\$5.26	\$1.20	\$0.44	\$1.38	\$10
Total Direct & Ovhd Expenses	\$17.81	\$18.38	\$16.22	\$14.87	\$15.22	2013 2014 2015 2016 2017

Minnesota State Farm Business Management Education

Vision:

To provide educational opportunities for students to be successful in a competitive agricultural environment.

Mission:

To deliver management education for decision-making that achieves an individual's business goals.

Guiding Principles:

- 1. Improved Quality of Life in Rural Communities
- 2. Achievement of Student Goals
- 3. Awareness of the Global Importance of Agriculture
- 4. Integrity in Student Interaction
- 5. Timely and Student-Focused Programming

Minnesota State FBM and Participating College Websites:

State FBM Website: agcentric.org/what-we-do/education-training/farm-business-management

Alexandria Technical and Community College: alextech.edu

Central Lakes College Website: clcmn.edu

Minnesota West Community & Technical College: mnwest.edu

Northland Community & Technical College Website: northlandcollege.edu

Ridgewater College: ridgewater.edu

Riverland Community & Technical College: riverland.edu

South Central College: southcentral.edu

St. Cloud Technical and Community College: sctcc.edu







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MyFarm Financial Scorecard Name: Year: Liquidity Vulnerable This Year 5-Year Ave **Strong** 1.7 1.1 Current ratio Working capital 25% 10% Working cap to gross revenue Solvency (market) Note: These solvency ratios include deferred liabilities 60% 30% Farm debt/asset ratio 70% 40% Farm equity/asset ratio 0.43 1.50 Farm debt/equity ratio Profitability (Cost) 8% 4% Rate of return on farm assets 10% 3% Rate of return on farm equity 25% 15% Operating profit margin Net farm income **EBITDA Repayment Capacity (Accrual)** Capital debt repay capacity Capital debt repay margin Replacement margin 1.50 1.20 Term-debt coverage ratio 1.40 1.10 Replacement margin ratio **Financial Efficiency** 45% 30% Asset-turnover rate (market) 60% 80% Operating-expense ratio 5% 15% Depreciation-expense ratio 5% 10% Interest-expense ratio 20% 10% Net farm income ratio