













2015 ANNUAL REPORT



Northern Minnesota



April, 2016





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A Management Education Program through AgCentric, Northern Center of Excellence for Agriculture

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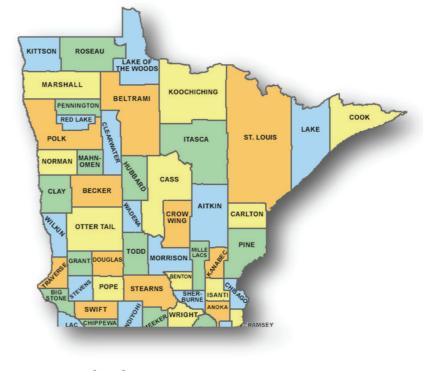
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<u>Description</u>	<u>TABLE OF CONTENTS</u> <u>P</u>	age Numb
Table of Cont	_	
Executive Su		2 -
	5-Year Financial Trend Summary	<del>_</del>
	Year at a Glance	
	Financial Summary: Selected Factors sorted by Type of Farm with graphs	6 -
	Financial Summary: Selected Factors sorted by Years Farming	
	Average Money Spent Chart and Report Overview	
	AgCentric and Central Lakes College information	
	Financial Summary: Selected Factors sorted by Gross Income	
Northern	Farm Income Statement	12 - 1
Minnesota	Balance Sheet - "Cost Value Basis" and "Market Value Basis"	14 - 1
Financial	Definitions of Financial Standards Measures	16 - 1
Information	Financial Standards Measures and "How does your Farm Stack Up"	18 - 1
	Profitability Measures	2
	Liquidity and Repayment Capacity Measures	2
	Graphic Summary of Selected Financial Guideline Measures	2
	Operator and Labor Information	2
	Household & Personal Expense Reported	2
	Nonfarm Summary	2
	Financial Summary: Selected Factors sorted by Crop Acres	2
Crop Product	ion and Marketing Summary	
	Enterprise Tables and Machine Cost per Acre	
ive Year Gra	aphic History of Selected Crop Data	2
	Corn	30-
	•	30-
	Soybeans	
	Soybeans Spring Wheat	32-
	•	32-3 34-3
Northern	Spring Wheat	32-3 34-3 36-3
Northern Minnesota	Spring Wheat Corn Silage	32-3 34-3 36-3 38-3
Minnesota Crop	Spring Wheat Corn Silage Hay, Alfalfa	32-34-36-38-38-40-4
Minnesota	Spring Wheat Corn Silage Hay, Alfalfa Hay, Mixed	32-34-336-338-340-4
Minnesota Crop	Spring Wheat Corn Silage Hay, Alfalfa Hay, Mixed Hay, Grass	32-3 34-3 36-3 38-3 40-4
Minnesota Crop	Spring Wheat Corn Silage Hay, Alfalfa Hay, Mixed Hay, Grass Establish Alfalfa Hay, Pasture, and Prevented Planting	32-34-36-38-38-3
Minnesota Crop	Spring Wheat Corn Silage Hay, Alfalfa Hay, Mixed Hay, Grass Establish Alfalfa Hay, Pasture, and Prevented Planting Irrigated Crops: Corn, Corn Silage, Alfalfa Hay, and Soybeans	32-34-36-38-38-38-38-38-38-38-38-38-38-38-38-38-
Minnesota Crop	Spring Wheat Corn Silage Hay, Alfalfa Hay, Mixed Hay, Grass Establish Alfalfa Hay, Pasture, and Prevented Planting Irrigated Crops: Corn, Corn Silage, Alfalfa Hay, and Soybeans Small Grains: Barley, Oats, Rye, and Winter Wheat	32-34-36-38-38-38-38-38-38-38-38-38-38-38-38-38-
Minnesota Crop	Spring Wheat Corn Silage Hay, Alfalfa Hay, Mixed Hay, Grass Establish Alfalfa Hay, Pasture, and Prevented Planting Irrigated Crops: Corn, Corn Silage, Alfalfa Hay, and Soybeans Small Grains: Barley, Oats, Rye, and Winter Wheat Other Crops: Seed Soybeans, Food Soybeans, Navy Beans, and Sunflowers	32-34-36-38-38-38-38-38-38-38-38-38-38-38-38-38-
Minnesota Crop	Spring Wheat Corn Silage Hay, Alfalfa Hay, Mixed Hay, Grass Establish Alfalfa Hay, Pasture, and Prevented Planting Irrigated Crops: Corn, Corn Silage, Alfalfa Hay, and Soybeans Small Grains: Barley, Oats, Rye, and Winter Wheat Other Crops: Seed Soybeans, Food Soybeans, Navy Beans, and Sunflowers Other Crops: Perennial Rye Grass, Canola, Irrig. Pumpkins, & Irrig. Strawberries	32-34-36-38-38-38-38-38-38-38-38-38-38-38-38-38-
Minnesota Crop	Spring Wheat Corn Silage Hay, Alfalfa Hay, Mixed Hay, Grass Establish Alfalfa Hay, Pasture, and Prevented Planting Irrigated Crops: Corn, Corn Silage, Alfalfa Hay, and Soybeans Small Grains: Barley, Oats, Rye, and Winter Wheat Other Crops: Seed Soybeans, Food Soybeans, Navy Beans, and Sunflowers Other Crops: Perennial Rye Grass, Canola, Irrig. Pumpkins, & Irrig. Strawberries Dairy Cows	32-3 34-3 36-3 38-3 40-4 4 4 4 4 4 48-4
Minnesota Crop	Spring Wheat Corn Silage Hay, Alfalfa Hay, Mixed Hay, Grass Establish Alfalfa Hay, Pasture, and Prevented Planting Irrigated Crops: Corn, Corn Silage, Alfalfa Hay, and Soybeans Small Grains: Barley, Oats, Rye, and Winter Wheat Other Crops: Seed Soybeans, Food Soybeans, Navy Beans, and Sunflowers Other Crops: Perennial Rye Grass, Canola, Irrig. Pumpkins, & Irrig. Strawberries Dairy Cows Dairy Cows - Organic Production	32-3 34-3 36-3 38-3 40-4 4 4 4 48-4 5
Minnesota Crop	Spring Wheat Corn Silage Hay, Alfalfa Hay, Mixed Hay, Grass Establish Alfalfa Hay, Pasture, and Prevented Planting Irrigated Crops: Corn, Corn Silage, Alfalfa Hay, and Soybeans Small Grains: Barley, Oats, Rye, and Winter Wheat Other Crops: Seed Soybeans, Food Soybeans, Navy Beans, and Sunflowers Other Crops: Perennial Rye Grass, Canola, Irrig. Pumpkins, & Irrig. Strawberries Dairy Cows Dairy Cows - Organic Production Dairy Cows - Sorted by Herd Size	32-3 34-3 36-3 38-3 40-4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Minnesota Crop	Spring Wheat Corn Silage Hay, Alfalfa Hay, Mixed Hay, Grass Establish Alfalfa Hay, Pasture, and Prevented Planting Irrigated Crops: Corn, Corn Silage, Alfalfa Hay, and Soybeans Small Grains: Barley, Oats, Rye, and Winter Wheat Other Crops: Seed Soybeans, Food Soybeans, Navy Beans, and Sunflowers Other Crops: Perennial Rye Grass, Canola, Irrig. Pumpkins, & Irrig. Strawberries Dairy Cows Dairy Cows - Organic Production Dairy Cows - Sorted by Herd Size Graphic Summary of Selected Dairy Factors	32-3 34-3 36-3 38-3 40-4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Minnesota Crop Enterprises Statewide Livestock	Spring Wheat Corn Silage Hay, Alfalfa Hay, Mixed Hay, Grass Establish Alfalfa Hay, Pasture, and Prevented Planting Irrigated Crops: Corn, Corn Silage, Alfalfa Hay, and Soybeans Small Grains: Barley, Oats, Rye, and Winter Wheat Other Crops: Seed Soybeans, Food Soybeans, Navy Beans, and Sunflowers Other Crops: Perennial Rye Grass, Canola, Irrig. Pumpkins, & Irrig. Strawberries Dairy Cows Dairy Cows - Organic Production Dairy Cows - Sorted by Herd Size Graphic Summary of Selected Dairy Factors Dairy Cows and Dairy Replacements Combined (All Dairy)	32-3 34-3 36-3 38-3 40-4 40-4 48-4 48-4
Minnesota Crop Enterprises	Spring Wheat Corn Silage Hay, Alfalfa Hay, Mixed Hay, Grass Establish Alfalfa Hay, Pasture, and Prevented Planting Irrigated Crops: Corn, Corn Silage, Alfalfa Hay, and Soybeans Small Grains: Barley, Oats, Rye, and Winter Wheat Other Crops: Seed Soybeans, Food Soybeans, Navy Beans, and Sunflowers Other Crops: Perennial Rye Grass, Canola, Irrig. Pumpkins, & Irrig. Strawberries Dairy Cows Dairy Cows - Organic Production Dairy Cows - Sorted by Herd Size Graphic Summary of Selected Dairy Factors Dairy Cows and Dairy Replacements Combined (All Dairy) Dairy Replacement Heifers	32-3 34-3 36-3 38-3 40-4 48-4 48-4 48-4
Minnesota Crop Enterprises Statewide Livestock	Spring Wheat Corn Silage Hay, Alfalfa Hay, Mixed Hay, Grass Establish Alfalfa Hay, Pasture, and Prevented Planting Irrigated Crops: Corn, Corn Silage, Alfalfa Hay, and Soybeans Small Grains: Barley, Oats, Rye, and Winter Wheat Other Crops: Seed Soybeans, Food Soybeans, Navy Beans, and Sunflowers Other Crops: Perennial Rye Grass, Canola, Irrig. Pumpkins, & Irrig. Strawberries Dairy Cows Dairy Cows - Organic Production Dairy Cows - Sorted by Herd Size Graphic Summary of Selected Dairy Factors Dairy Cows and Dairy Replacements Combined (All Dairy) Dairy Replacement Heifers Alexandria and Northland Technical & Community College information	32-3 34-3 36-3 38-3 40-4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
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Minnesota Crop Enterprises Statewide Livestock	Spring Wheat Corn Silage Hay, Alfalfa Hay, Mixed Hay, Grass Establish Alfalfa Hay, Pasture, and Prevented Planting Irrigated Crops: Corn, Corn Silage, Alfalfa Hay, and Soybeans Small Grains: Barley, Oats, Rye, and Winter Wheat Other Crops: Seed Soybeans, Food Soybeans, Navy Beans, and Sunflowers Other Crops: Perennial Rye Grass, Canola, Irrig. Pumpkins, & Irrig. Strawberries Dairy Cows Dairy Cows - Organic Production Dairy Cows - Sorted by Herd Size Graphic Summary of Selected Dairy Factors Dairy Cows and Dairy Replacements Combined (All Dairy) Dairy Replacement Heifers Alexandria and Northland Technical & Community College information Ridgewater and St. Cloud Technical & Community College information Dairy Feeders and Dairy Finishing	32-3 34-3 36-3 38-3 40-4 40-4 40-4 40-4 40-4 40-4 40-4 40
Minnesota Crop Enterprises Statewide Livestock	Spring Wheat Corn Silage Hay, Alfalfa Hay, Mixed Hay, Grass Establish Alfalfa Hay, Pasture, and Prevented Planting Irrigated Crops: Corn, Corn Silage, Alfalfa Hay, and Soybeans Small Grains: Barley, Oats, Rye, and Winter Wheat Other Crops: Seed Soybeans, Food Soybeans, Navy Beans, and Sunflowers Other Crops: Perennial Rye Grass, Canola, Irrig. Pumpkins, & Irrig. Strawberries Dairy Cows Dairy Cows - Organic Production Dairy Cows - Sorted by Herd Size Graphic Summary of Selected Dairy Factors Dairy Cows and Dairy Replacements Combined (All Dairy) Dairy Replacement Heifers Alexandria and Northland Technical & Community College information Ridgewater and St. Cloud Technical & Community College information Dairy Feeders and Dairy Finishing Beef Finishing	32-3 34-3 36-3 38-3 40-4 4

# 2015 Annual Report – Executive Summary

The 2015 farm year can best be described as a great production year, with significantly reduced farm earnings. Crop yields and livestock production were at or near all-time records. On the down side, prices of crops and livestock dropped significantly during 2015. The decrease in accrual adjusted farm income was influenced by beginning inventory values that were significantly higher than the actual prices received for crops and livestock at the time of sale.

Average net farm income for the 588 farms in the Northern Minnesota database was \$37,182 for 2015. This was down drastically (67%) from the \$114,095 reported in 2014. Median net farm income was down

significantly (48%) as well, decreasing to \$23,730 in 2015, compared to \$46.104 in 2014.

Financial Factors	2012	2013	2014	2015
Average Net Farm Income	\$195,588	\$75,243	\$114,095	\$37,182
Median Net Farm Income	\$102,641	\$27,886	\$46,104	\$23,730

The continued declines in the prices of virtually all major commodities caused Northern Minnesota farm profits to drop to their lowest levels since 2009. Unlike 2014, when strong incomes for most livestock farms strengthened the Northern Minnesota data, most livestock producers suffered major declines in prices and profits in 2015. Profits earned by crop producers inched upward from very low levels of 2014, with record yields offsetting further declines in corn, soybeans, wheat and other crop commodity prices.

Several other key financial measures deteriorated in 2015 for most Northern Minnesota farms. Working capital fell to \$138,627 at the end of 2015 compared to \$171,051 at the end of 2014, a decrease of 19%. 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 current prices received for their crop and livestock products, and the current cost of farm inputs.

Term Debt Coverage is a key financial measure that Ag lenders consider in loan decisions. The 2015 Northern Minnesota average was .88 compared to 1.75 in 2014, and 3.24 in 2012. The major reduction in this factor tells us that farms needed to use 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 the operation in 2015.

With the reduced revenue generated in 2015, the operating expense ratio increased to levels that put the Northern Minnesota

Financial Factors	2012	2013	2014	2015
Working Capital	\$235,430	\$130,026	\$171,051	\$138,627
Working Capital as % of Gross	33.9%	27.9%	25.4%	24.7%
Term Debt Coverage Ratio	3.24	1.31	1.75	0.88
Operating Expense Ratio	63.0%	76.2%	73.1%	81.4%

database average into the red zone, based on the Financial Scorecard on the back of this report. 80% is the start of the red zone area, and Northern Minnesota farms ended the 2015 year at 81.4%, compared to 73.1% in 2014 and 63% back in 2012. This ratio indicates that for every dollar of farm revenue produced, it took 81.4 cents 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.

Trend information for the 2011-2015 Financial Summary can be found on page 4 of this report. A quick look at 2015 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 9.

# 2015 Annual Report – Executive Summary

Our two major livestock enterprises in Northern Minnesota are Dairy and Beef Cow-Calf operations. On a statewide basis, these enterprises generated a profit in 2015 which was down considerably from near record levels in 2014. Dairy farms generated a Net Return/cow of \$289 compared to \$1,249 in 2014. This

reduction in profit is tied directly to the drop in average price received for milk, which reduced significantly in 2015 to a level of \$17.75 per hundredweight; compared to \$24.36 per hundredweight in 2014.

Statewide MnSCU Data	Dairy						
Statewide WillSCO Data	2012	2013	2014	2015			
Gross Margin	\$4,263	\$4,400	\$5,618	\$4,187			
Feed Cost / Cow	\$2,321	\$2,393	\$2,430	\$2,108			
Dir & Ovhd Expense/Cow	\$3,972	\$4,113	\$4,369	\$3,897			
Net Return / Cow	\$290	\$287	\$1,249	\$289			
Average Milk Price	\$19.47	\$20.20	\$24.36	\$17.75			
Dir & Ovhd Expense/Cwt Milk	\$17.44	\$17.81	\$18.38	\$16.22			

Beef Cow/Calf enterprises showed a Net Return of \$117 compared to \$452 in 2014. Feed costs were

Statewide MnSCU Data	Beef Cow-Calf					
Statewide WillSCO Data	2012	2013	2014	2015		
Gross Margin	\$800	\$778	\$1,295	\$864		
Feed Cost / Cow	\$446	\$479	\$508	\$439		
Dir & Ovhd Expense/Cow	\$712	\$741	\$844	\$747		
Net Return / Cow	\$88	\$37	\$452	\$117		
Ave Price per CWT calf sold	\$146.91	\$152.83	\$212.33	\$206.46		

lower for both the Beef Cow/Calf and Dairy enterprises in 2015, but the reduced prices more than offset decreased feed costs and modest increases in production levels.

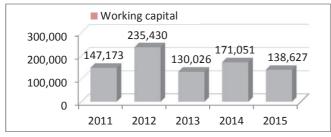
2015 was a great year for crop production in Minnesota. Some isolated areas experienced hail damage or missed some key late growing season rains, but most farms produced one of the best crops ever. The average yield per acre for the northern half of Minnesota was 164 bushels for corn, 40 bushels for soybeans, and 66 bushels for wheat. Even though farms experienced near record yields in 2015, net returns were only modest in soybeans and wheat, and negative returns were seen in Corn. Total direct and overhead expense for the crops listed below showed a modest reduction, due in part to a slight decline in some direct crop inputs.

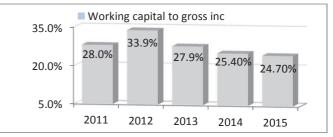
The chart below displays the 4-year history of selected factors for these crops.

				Gross	Dir & Ovhd		Dir & Ovhd
Rented	Rented Land		Value per	Revenue	Expense	Net Return	Expense
		Acre	Unit	/Acre	/Acre	/Acre	/Unit
	2012	128.5	\$6.38	\$832.19	\$544.50	\$287.69	\$4.24
Corn	2013	105.4	\$4.01	\$494.27	\$564.51	(\$70.24)	\$5.36
Com	2014	118.2	\$3.49	\$521.63	\$611.16	(\$89.53)	\$5.17
	2015	164.2	\$3.32	\$558.23	\$585.59	(\$27.36)	\$3.57
	2012	37.0	\$13.86	\$520.96	\$309.50	\$211.46	\$8.37
Sovbeans	2013	30.6	\$12.59	\$402.48	\$310.57	\$91.91	\$10.15
Soybeans	2014	32.8	\$9.78	\$342.20	\$329.59	\$12.61	\$10.04
	2015	40.1	\$8.37	\$347.59	\$320.92	\$26.67	\$8.01
	2012	59.3	\$8.30	\$496.23	\$342.80	\$153.43	\$5.87
Spring	2013	65.7	\$6.32	\$422.88	\$355.27	\$67.61	\$5.41
Wheat	2014	62.4	\$5.56	\$361.53	\$351.33	\$10.20	\$5.63
	2015	66.3	\$5.02	\$346.93	\$330.46	\$16.47	\$4.99

# Financial Trend Summary Northern Minnesota Farm Business Management Data

	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>
Income Statement					
Gross Cash Farm Income	489,148	609,139	595,950	658,798	551,703
Total Cash Farm Expense	389,571	473,448	467,633	522,485	469,847
Net Cash Farm Income	99,577	135,691	128,317	136,314	81,857
Inventory change	45,283	94,606	-16,741	18,383	-5,368
Depreciation	-29,184	-34,864	-36,037	-40,880	-40,070
Net Farm Income From Operations	115,675	195,433	75,539	113,816	36,419
Gain or loss on capital sales	1,197	155	-296	279	763
Average Net Farm Income	116,872	195,588	75,243	114,095	37,182
Median Net Farm Income	66,755	102,641	27,886	46,104	23,730
	00,733	102,041	21,000	40, 104	23,730
Profitability (Cost)					
Rate of Return on Assets	9.6%	13.9%	4.4%	6.4%	1.4%
Rate of Return on Equity	14.4%	22.2%	4.5%	8.3%	-0.9%
Operating Profit Margin	22.1%	29.1%	12.7%	17.8%	4.7%
Asset Turnover Rate	43.7%	47.7%	34.6%	36.2%	29.8%
Limited Parameter (and of year)					
Liquidity & Repayment (end of year)	200 660	422 205	220 120	270 725	262 417
Current Assets	298,668	433,205	320,139	379,735	362,417
Current Liabilities	151,495	197,776	190,113	208,684	223,790
Current Ratio	1.97	2.19	1.68	1.82	1.62
Working capital	147,173	235,430	130,026	171,051	138,627
Working capital to gross inc	28.0%	33.9%	27.9%	25.40%	24.70%
Term Debt Coverage Ratio	2.47	3.24	1.31	1.75	0.88
Replacement coverage ratio	2.10	2.79	1.15	1.50	0.76
Term debt to EBITDA	-	-	-	2.45	4.33
Solvency (Market)					
Number of Farms	395	405	412	566	588
Total Assets	1,480,387	1,846,773	1,685,236	2,032,113	2,003,026
Total Liabilities	670,483	830,038	785,428	883,164	895,016
Net Worth	809,903	1,016,735	899,809	1,148,949	1,108,011
Net Worth Change	116,594	174,381	64,982	111,833	30,645
Farm Debt to Asset Ratio	47%	47%	44%	44%	47%
Total Debt to Asset Ratio	45%	45%	47%	43%	45%
Change in total net worth %	-	-		11%	3%
-				,0	0,0
Nonfarm Information					
Net Nonfarm Income	27,828	24,030	26,161	25,050	28,964
Farms Reporting Liv Expenses	49	53	51	88	76
Total Family Living Expense	40,784	46,842	43,192	51,248	48,783
Total Living, Invest, & Cap Purch	50,363	77,238	60,826	69,840	74,687
Crop Acres					
Total Crop Acres	712	836	749	697	688
Total Crop Acres Owned	251	299	278	253	248
Total Crop Acres Cash Rented	452	521	462	432	428
Total Crop Acres Cash Rented  Total Crop Acres Share Rent	9	17		12	12
Machinery value per crop acre	3	-	9	607	542
madificely value per clop acre	-	-	-	007	042





Page 4

Farm Business Management Education Programs

Year at a Glance		State		Your	Your
	Northern	FBM	Local	Farm	Farm
Data for the Average Farm	Minnesota	Data	Area	Data	Goal
	588	2031			
	<u>Farms</u>	<u>Farms</u>			
Income Statement					
Gross Cash Farm Income	\$551,703	\$766,404			
Total Cash Operating Expense	\$469,847	\$657,505			
Net Cash Farm Income	\$81,857	\$108,899			
Net Operating Profit	\$76,489	\$95,233			
Net Farm Income	\$37,182	\$42,877			
Median Farm Income	\$23,730	\$25,392			
Balance Sheet (Market)					
Total Assets - 12/31	\$2,003,026	\$2,816,577			
Total Liabilities - 12/31	\$895,016	\$1,204,953			
Net Worth - 12/31	\$1,108,011	\$1,611,624			
Change in Net Worth	\$30,645	\$35,430			
Financial Standards Measures					
Working Capital - 12/31	\$138,627	\$211,908			
Debt to Asset Ratio - 12/31	47%	45%			
Rate of Return on Farm Assets - Cost	1.4%	1.2%			
Rate of Return on Farm Equity - Cost	-0.9%	-1.0%			
Term Debt Coverage Ratio	0.88	0.83			
Asset Turnover Rate	29.8%	32.3%			
Operating Expense Ratio	81.4%	83.1%			
Interest Expense Ratio	5.0%	4.4%			
Operator Information					
Average Age of the Farmer	46.2	47.8			
Average Years Farming	21.4	24.0			
Personal Spending & Income					
Total Cash Family Living Expense	\$48,783	\$60,798			
Total Non Farm Income	\$28,964	\$33,868			

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.

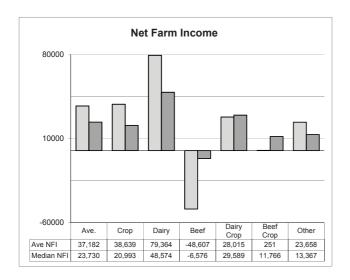
The following list shows expenses for the year:

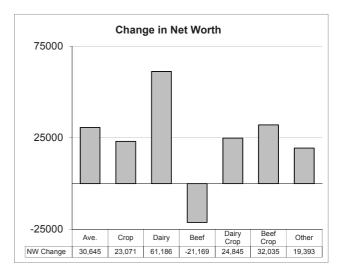
	y can.	Northern Minnesota	State Data
Net Farm Income	(+)	\$37,182	\$42,877
Depreciation	(+)	\$40,070	\$53,309
Family Living (Excl Health/Med)	(-)	\$40,841	\$50,446
Social Security and Income Tax	(-)	\$7,181	\$13,574
Health and Medical Expense	(-)	\$7,217	\$10,577
Retirement Accounts	(-)	\$3,923	\$5,462
Principal Payments	(-)	\$56,922	\$66,266
Balance	(=)	-\$38,832	-\$50,139

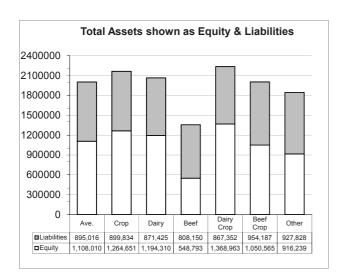
# Financial Summary Northern Minnesota Farm Business Management Data (Farms Sorted By Farm Type)

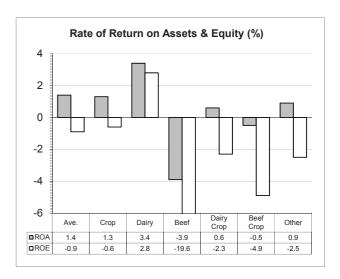
	Avg. Of _All Farms	<u>Crop</u>	Dairy	Beef	Crop andDairy	Crop and Beef	Other
Number of farms	588	181	172	42	25	46	119
Income Statement Gross cash farm income Total cash farm expense Net cash farm income Inventory change Depreciation Net farm income from operations Gain or loss on capital sales Average net farm income Median net farm income	551,703	490,719	713,877	469,074	611,993	456,019	453,142
	469,847	415,731	587,324	458,126	492,973	409,057	393,490
	81,857	74,988	126,553	10,947	119,020	46,962	59,653
	-5,368	5,997	-3,359	-40,341	-39,320	-11,716	-1,902
	-40,070	-43,318	-44,096	-18,397	-50,638	-35,088	-36,474
	36,419	37,667	79,098	-47,791	29,062	157	21,277
	763	972	266	-815	-1,047	94	2,381
	37,182	38,639	79,364	-48,607	28,015	251	23,658
	23,730	20,993	48,574	-6,576	29,589	11,766	13,367
Profitability (cost) Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	1.4 %	1.3 %	3.4 %	-3.9 %	0.6 %	-0.5 %	0.9 %
	-0.9 %	-0.6 %	2.8 %	-19.6 %	-2.3 %	-4.9 %	-2.5 %
	4.7 %	4.0 %	10.4 %	-28.1 %	1.9 %	-1.9 %	3.5 %
	29.8 %	33.0 %	32.2 %	13.7 %	32.1 %	26.9 %	25.4 %
Profitability (market) Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	2.1 %	1.8 %	3.4 %	-2.1 %	1.8 %	1.8 %	1.7 %
	0.9 %	0.8 %	3.5 %	-12.6 %	0.5 %	0.4 %	-0.2 %
	8.3 %	6.6 %	12.5 %	-17.5 %	7.2 %	8.7 %	7.8 %
	24.6 %	26.4 %	27.3 %	11.9 %	24.5 %	20.9 %	21.5 %
Liquidity & Repayment (end of year) Current assets Current liabilities Current ratio Working capital Working capital to gross inc Term debt coverage ratio Replacement coverage ratio Term debt to EBITDA	362,417	464,001	262,688	319,821	282,287	395,590	366,243
	223,790	266,026	134,333	318,464	166,008	265,978	244,289
	1.62	1,74	1,96	1.00	1,70	1.49	1.50
	138,627	197,975	128,355	1,357	116,279	129,612	121,954
	24.7 %	38.8 %	17.7 %	0.3 %	19.7 %	27.3 %	26.3 %
	0.88	0.87	1,26	-0.13	0,76	0.60	0.73
	0.76	0.68	1,13	-0.12	0,64	0.47	0.66
	4.33	3.61	3,61	126.41	4,31	6.60	5.40
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 %	588	181	172	42	25	46	119
	1,665,278	1,750,226	1,769,848	1,174,917	1,750,619	1,563,522	1,574,214
	726,975	700,120	717,098	729,718	707,105	738,827	773,664
	938,303	1,050,107	1,052,750	445,199	1,043,514	824,695	800,550
	14,662	9,486	49,529	-36,318	-1,447	-7,032	4,583
	46 %	42 %	43 %	67 %	44 %	48 %	52 %
	44 %	40 %	41 %	62 %	40 %	47 %	49 %
	2 %	1 %	5 %	-8 %	0 %	-1 %	1 %
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 %	588	181	172	42	25	46	119
	2,003,026	2,164,485	2,065,735	1,356,943	2,236,315	2,004,752	1,844,067
	895,016	899,834	871,425	808,150	867,352	954,187	927,828
	1,108,011	1,264,651	1,194,310	548,793	1,368,963	1,050,565	916,239
	30,645	23,071	61,186	-21,169	24,845	32,035	19,393
	47 %	44 %	45 %	64 %	42 %	49 %	53 %
	45 %	42 %	42 %	60 %	39 %	48 %	50 %
	3 %	2 %	5 %	-4 %	2 %	3 %	2 %
Nonfarm Information Net nonfarm income Farms reporting living expenses Total family living expense Total living, invest, cap. purch	28,964	35,095	17,299	46,859	12,670	37,157	30,373
	76	18	23	4	3	5	22
	48,783	50,122	46,614	29,461	-	59,099	50,682
	74,687	67,655	54,793	21,857	-	109,679	104,996
Crop Acres Total crop acres Total crop acres owned Total crop acres cash rented Total crop acres share rented Machinery value per crop acre	688	1,241	338	393	616	724	449
	248	424	148	112	219	247	176
	428	793	185	279	397	459	265
	12	24	5	1	-	17	7
	611	447	1,031	554	923	563	811

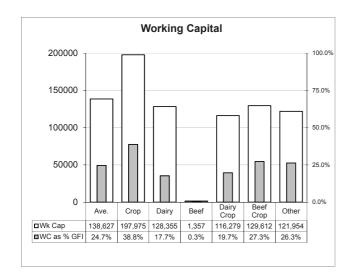
# Selected Factors by Type of Farm

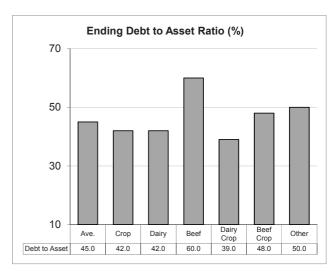






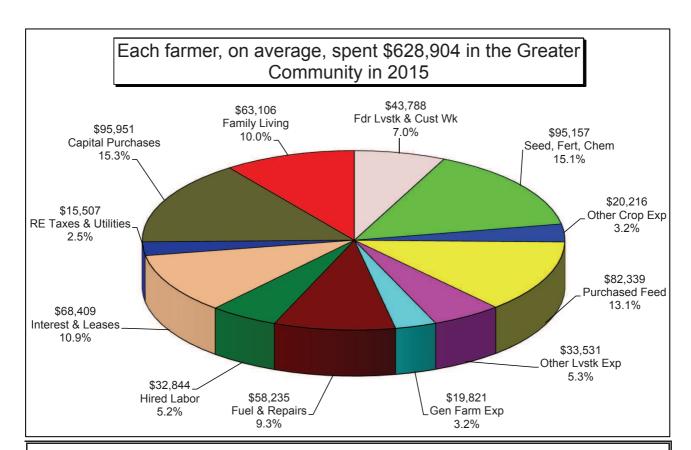






# Financial Summary Northern Minnesota Farm Business Management Data (Farms Sorted By Number of Years Farming)

	Avg. Of All Farms	10 or Less	11 - 20	21 - 30	31 - 40	Over 40
Number of farms	588	155	120	99	136	78
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	551,703	329,782	465,553	660,525	838,696	486,723
	469,847	290,652	402,553	555,534	709,906	402,145
	81,857	39,129	63,000	104,991	128,790	84,579
	-5,368	11,295	-1,056	-11,963	-18,325	-14,150
	-40,070	-19,027	-32,591	-49,958	-61,336	-43,763
	36,419	31,396	29,353	43,069	49,129	26,666
	763	-44	-227	3,889	651	119
	37,182	31,352	29,126	46,958	49,780	26,786
	23,730	13,367	36,972	34,867	23,700	20,131
Profitability (cost) Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	1.4 %	2.6 %	1.4 %	1.4 %	1.3 %	0.5 %
	-0.9 %	1.1 %	-1.7 %	-0.7 %	-0.8 %	-1.8 %
	4.7 %	7.6 %	4.7 %	4.8 %	4.3 %	1.9 %
	29.8 %	34.6 %	30.1 %	28.5 %	29.4 %	27.8 %
Profitability (market) Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	2.1 %	2.9 %	2.9 %	2.0 %	1.8 %	1.1 %
	0.9 %	2.4 %	2.1 %	1.0 %	0.5 %	-0.2 %
	8.3 %	9.4 %	11.3 %	8.8 %	7.3 %	5.2 %
	24.6 %	31.3 %	25.4 %	22.8 %	24.2 %	21.7 %
Liquidity & Repayment (end of year) Current assets Current liabilities Current ratio Working capital Working capital to gross inc Term debt coverage ratio Replacement coverage ratio Term debt to EBITDA	362,417	191,056	278,840	391,415	602,885	375,437
	223,790	134,946	213,031	230,883	330,714	221,459
	1.62	1.42	1.31	1.70	1.82	1.70
	138,627	56,110	65,810	160,533	272,171	153,978
	24.7 %	15.9 %	13.9 %	24.1 %	32.6 %	30.9 %
	0.88	1.19	0.80	0.79	0.87	0.79
	0.76	1.09	0.73	0.67	0.72	0.64
	4.33	4.81	4.70	4.52	3.83	4.22
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 %	588	155	120	99	136	78
	1,665,278	916,274	1,391,637	2,030,301	2,443,756	1,754,021
	726,975	519,161	716,025	831,805	940,355	651,683
	938,303	397,114	675,612	1,198,496	1,503,401	1,102,338
	14,662	32,646	12,496	12,601	10,532	-7,926
	46 %	59 %	54 %	43 %	41 %	41 %
	44 %	57 %	51 %	41 %	38 %	37 %
	2 %	9 %	2 %	1 %	1 %	-1 %
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 %	588	155	120	99	136	78
	2,003,026	1,006,228	1,642,568	2,521,159	2,951,673	2,226,716
	895,016	570,768	825,805	1,067,232	1,218,493	863,236
	1,108,011	435,460	816,764	1,453,927	1,733,180	1,363,479
	30,645	37,582	37,158	34,001	28,423	6,453
	47 %	59 %	53 %	45 %	43 %	42 %
	45 %	57 %	50 %	42 %	41 %	39 %
	3 %	9 %	5 %	2 %	2 %	0 %
Nonfarm Information Net nonfarm income Farms reporting living expenses Total family living expense Total living, invest, cap. purch	28,964	33,426	33,438	20,467	26,297	28,650
	76	20	23	13	13	7
	48,783	37,874	48,430	61,028	47,427	60,883
	74,687	52,413	70,260	86,594	70,231	139,035
Crop Acres Total crop acres Total crop acres owned Total crop acres cash rented Total crop acres share rented Machinery value per crop acre	688	432	529	712	1,001	866
	248	89	161	267	397	414
	428	341	357	435	591	419
	12	3	11	10	12	33
	611	426	587	770	660	549



Average Money Spent by Each Farmer in the Greater Community:

\$628,904

Average Money Spent by Each Farmer in a Money Spent in Community by

30 Yr Career: 588 Farmers:

\$18,867,120 \$369,795,552

#### 2015 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 Colleges and University System, delivered through eight two-year colleges. In 2015, the Northern Minnesota Annual Report is an expansion of the 13-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 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 and Rosemary Gustafson, Northland Community & Technical College, for her assistance.

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 and 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

Criteria to determine the "20%" categories

Net Farm Income

Return to Overhead

Return to Overhead

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

	Less than	100,001 -	250,001 -	500,001 -	1,000,001-	Over
	100,000	250,000	500,000	1,000,000	2,000,000	2,000,000
Number of farms	104	136	153	112	64	19
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	50,349	171,086	367,295	704,632	1,420,808	3,676,363
	56,119	149,947	310,798	599,367	1,216,029	3,028,083
	-5,770	21,139	56,497	105,265	204,779	648,280
	6,484	9,531	11,759	-13,146	-27,732	-193,624
	-6,664	-14,732	-27,630	-58,957	-102,288	-183,563
	-5,950	15,938	40,626	33,161	74,760	271,094
	28	1,422	8	-90	3,579	1,699
	-5,922	17,360	40,634	33,071	78,339	272,792
	-5,360	19,683	47,776	42,776	103,301	171,131
Profitability (cost) Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	-3.5 %	0.8 %	1.8 %	0.7 %	1.6 %	3.3 %
	-13.0 %	-3.1 %	0.0 %	-2.2 %	-0.7 %	2.7 %
	-23.0 %	3.7 %	6.1 %	2.5 %	4.7 %	10.0 %
	15.3 %	22.7 %	30.0 %	29.8 %	33.1 %	33.3 %
Profitability (market) Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	-2.2 %	1.1 %	2.3 %	2.0 %	2.3 %	3.6 %
	-7.4 %	-1.1 %	1.5 %	0.8 %	1.3 %	3.6 %
	-18.9 %	6.5 %	9.6 %	8.2 %	7.9 %	11.7 %
	11.5 %	17.2 %	24.0 %	23.8 %	28.6 %	30.4 %
Liquidity & Repayment (end of year) Current assets Current liabilities Current ratio Working capital Working capital to gross inc Term debt coverage ratio Replacement coverage ratio Term debt to EBITDA	46,975	166,472	236,392	497,783	946,704	1,740,353
	36,246	95,383	140,083	341,584	587,390	924,418
	1.30	1.75	1,69	1.46	1.61	1,88
	10,729	71,089	96,309	156,199	359,315	815,935
	18.5 %	37.7 %	25.0 %	22.0 %	24.8 %	23.1 %
	1.05	0.97	1,04	0.67	0.74	1,25
	0.88	0.86	0.85	0.55	0.68	1,04
	18.90	6.44	3.87	4.35	4.10	2,90
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 %	104	136	153	112	64	19
	449,558	858,598	1,265,085	2,237,184	3,520,992	7,694,411
	220,449	437,023	531,268	1,004,475	1,638,650	2,444,233
	229,109	421,574	733,816	1,232,709	1,882,342	5,250,178
	12,056	20,901	17,777	-11,190	-1,670	166,584
	57 %	55 %	46 %	48 %	47 %	33 %
	49 %	51 %	42 %	45 %	47 %	32 %
	6 %	5 %	2 %	-1 %	0 %	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 %	104	136	153	112	64	19
	569,722	1,099,066	1,553,992	2,776,892	4,067,775	8,418,175
	249,180	506,150	644,702	1,251,371	2,057,190	3,213,942
	320,542	592,916	909,290	1,525,521	2,010,585	5,204,232
	14,531	25,230	29,489	22,528	32,801	207,493
	49 %	49 %	45 %	48 %	51 %	39 %
	44 %	46 %	41 %	45 %	51 %	38 %
	5 %	4 %	3 %	1 %	2 %	4 %
Nonfarm Information Net nonfarm income Farms reporting living expenses Total family living expense Total living, invest, cap. purch	47,814	34,556	22,070	20,218	16,518	34,753
	18	15	25	13	4	1
	43,617	40,428	48,465	58,695	60,202	-
	48,917	72,823	58,459	85,567	194,460	-
Crop Acres Total crop acres Total crop acres owned Total crop acres cash rented Total crop acres share rented Machinery value per crop acre	133	327	509	1,071	1,636	2,306
	57	168	189	424	470	554
	71	156	313	619	1,142	1,723
	5	2	6	28	23	29
	554	539	563	598	595	857

# Farm Income Statement 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	588	117	117	118
Sale of Crops				
Barley	2,805	5,440	389	6,271
Beans, Edible	5,469	9,905	1,772	7,157
Corn	43,731	67,293	24,338	56,479
Corn Silage	794	409	280	2,529
Hay, Alfalfa	2,771	5,889	1,888	1,958
Hay, Other	1,265	3,039	1,165	100
Fruit and Vegetable Crops	2,067	638	3,099	-
Organic Crops	1,499	-	-	6,992
Soybeans	62,965	66,808	41,634	112,015
Soybeans Food	550	1,076	342	639
Sunflowers	1,452	3,561	591	1,064
Oats	760	872	1,131	325
Wheat, Spring	36,456	33,400	19,028	78,843
Wheat, Winter	402	211	19,028	1,474
Grass Seed	3,902	3,074	50	12,139
Other Crop Enterprises	5,923	4,832	2,113	16,372
Miscellaneous crop income	432	235	2,113	10,372
Total Crop Sales	173,243	206,682	98,032	304,367
Total Grop Gales	170,240	200,002	30,002	004,007
Sale of Livestock				
Beef Cow-Calf, Beef Calves	10,730	11,174	10,717	18,877
Beef, Backgrounding	16,055	41,274	11,145	13,515
Beef, Finishing	9,608	20,522	4,421	5,975
Other Beef Enterprises	2,919	8,881	375	1,528
Dairy, Milk	195,674	129,620	77,047	515,228
Dairy Calves	5,671	2,934	2,179	14,592
Dairy Heifers (for sale)	2,011	4,310	296	2,636
Dairy Feeders & Backgrounding	13,302	37,637	4,155	6,010
Dairy Finishing	22,808	33,408	15,095	38,759
Hogs, Weaning to Finish	2,647	12,916	-	-
Other Livestock Enterprises	1,015	32	3,544	-
Cull breeding livestock	18,290	13,478	9,784	42,672
Misc. livestock income	1,209	1,369	639	1,145
Total Livestock & Product Sales	301,939	317,555	139,397	660,937
Other farm income				
Crop government payments	12,773	14,767	6,877	22,784
CRP payments	417	707	243	507
Livestock govt payments	494	290	240	374
Other government payments	6,821	6,330	4,447	13,624
Custom work income	12,550	24,859	4,700	22,667
Patronage dividends, cash	5,742	5,327	2,788	12,856
_				
Insurance income	18,677	27,521	7,711 1,171	37,600
Contract livestock income Other farm income	4,428	16.005	1,171	19,211
	14,619	16,295	11,277	27,160
Total Other Farm Income	76,521	96,096	39,214	156,783
Cuesa Ceah Farma Incasar	EE4 700	000 000	070.040	4 400 00=
Gross Cash Farm Income	551,703	620,333	276,643	1,122,087

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

	Average	Low 20%	40 - 60%	High 20%
Number of farms	588	117	117	118
Direct Crop Expense				
Seed	33,395	39,782	19,036	55,681
Fertilizer	44,339	53,986	22,871	84,849
Crop chemicals	17,423	22,626	7,854	30,891
Crop insurance	8,165	9,234	4,922	13,675
Drying Expense	1,378	2106	604	1,998
Other direct crop expenses	10,673	11,003	7,140	18,362
Total Direct Crop Expense	115,373	138,737	62,427	205,456
Direct Livestock Expense				
Feeder livestock purchase	36,125	86665	18,377	32,360
Purchased feed	82,339	78,009	37,120	192,412
Breeding fees	2,470	1856	958	5,823
Veterinary	7,170	8,538	3,176	15,395
Supplies and related Livestock expenses	11,521	12,171	6,110	24,555
Contract production exp.	2,241	1,913	1,933	5,012
Livestock hauling and trucking	2,739	2,697	2,019	4,966
Livestock marketing Bedding	2,560 4,830	2,215 4,677	1,698 1,326	5,374 11,669
Total Direct Livestock Expense	151,995	198,741	72,717	297,566
Other Farm Expense	101,000	100,741	72,111	201,000
Interest	27,045	42,820	17,222	38,265
CCC Buybacks	1,257	226	11,222	5,847
Fuel & oil	21,260	26,694	11,943	39,962
Repairs	36,975	44,776	20,981	68,813
Custom hire	7,663	7,846	3,526	18,636
Hired labor	32,844	33,402	9,947	82,635
Land rent	34,453	50,365	16,699	61,593
Machinery & bldg leases	6,911	8,360	3,492	14,754
Real estate taxes	4,966	5,675	3,239	8,072
Farm insurance	8,523	10,617	5,548	14,621
Utilities	10,541	10,524	6,798	20,138
Dues & professional fees	2,796	3,621	1,445	4,810
Miscellaneous	7,245	10,669	4,512	9,398
Total Other Farm Expense	202,479	255,595	105,352	387,544
Total cash expense	469,847	593,073	240,496	890,566
Net cash farm income	81,856	27,260	36,147	231,521
Inventory Changes				
Prepaids and supplies	-7,871	-18,074	-4,065	-5,422
Accounts receivable	-14,716	-16,293	-5327	-34,894
Hedging acct. & Oth Cur Assets	928	-884	455	5,937
Crops and feed	25,421	16,390	17,428	55,642
Market livestock	-6,647	-35,877	770	6,359
Breeding livestock	1,364	-6,694	3,055	10,406
Accounts payable	-6,050	-20,315	-3,902	-3,047
Accrued Interest & other assets	2,204	-838 <b>-82,585</b>	1,859 <b>10,273</b>	7,033
Total inventory change Net operating profit	-5,367 76,489	-55,325	46,420	42,014 273,535
	70,403	-55,525	70,720	210,000
Depreciation	00.000	05.004	40.000	FF 700
Machinery and equipment	-29,680 2,434	-35,884 2 117	-16,263	-55,780
Titled vehicles	-2,434 -7,957	-3,117 -10,057	-1,682 -4,186	-3,534 -15,575
Buildings and improvements  Total depreciation	-7,957 -40,070	-49,058	-22,131	-74,889
Net farm income from operations	36,419	-104,383	24,289	198,646
Gain or loss on capital sales	763	-479	-153	4,104
Net farm income	37,182	-104,862	24,136	202,750
2015 Northern Minnesota Annual Penort	Page 13	Farm Rusiness Ma		

# 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%	High 20%
Number of farms	588	117	117	118
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	20,986 35,050 1,972 20,755 751 203,617 13,276 54,494 11,515 362,417	9,679 24,531 1,826 20,298 468 198,935 25,530 101,028 47,498 429,792	9,649 12,836 397 9,500 85 111,599 5,958 38,040 1,668 189,732	53,945 95,306 5,538 48,266 2,658 431,680 15,469 72,830 6,195 731,888
Intermediate Farm Assets Breeding livestock Machinery and equipment Titled vehicles Other intermediate assets Total intermediate farm assets	144,024	116,253	86,839	314,879
	367,642	428,498	202,260	697,031
	26,655	32,071	17,841	40,009
	22,738	18,553	9,718	52,984
	561,059	595,375	316,660	1,104,903
Long Term Farm Assets Farm land Buildings and improvements Other long-term assets Total long-term farm assets Total Farm Assets	352,812	382,140	288,300	561,188
	198,698	197,851	129,419	396,234
	31,321	35,177	14,722	63,411
	582,831	615,168	432,442	1,020,833
	1,506,307	1,640,335	938,833	2,857,623
Total Nonfarm Assets	158,971	176,842	130,706	192,406
Total Assets	1,665,278	1,817,177	1,069,539	3,050,030
Liabilities Current Farm Liabilities Accrued interest Accounts payable Current notes Government crop loans Principal due on term debt Total current farm liabilities	6,814	13,767	4,342	7,427
	24,450	52,996	13,394	30,892
	127,829	228,084	67,078	155,525
	7,775	14,493	3,785	8,836
	56,922	74,839	35,321	90,246
	223,790	384,179	123,920	292,926
Total intermediate farm liabs	153,603	210,761	96,849	245,297
Total long term farm liabilities	317,526	437,782	242,565	433,023
Total farm liabilities	694,920	1,032,722	463,334	971,247
Total nonfarm liabilities	32,055	37,227	19,437	36,952
Total liabilities	726,975	1,069,949	482,771	1,008,198
Net worth (farm and nonfarm)	938,303	747,227	586,768	2,041,831
Net worth change	14,662	-109,146	18,553	133,136
Percent net worth change	2 %	-13 %	3 %	7 %
Ratio Analysis Current farm liabilities / assets Intermediate farm liab. / assets Long term farm liab. / assets Total debt to asset ratio	62 %	89 %	65 %	40 %
	27 %	35 %	31 %	22 %
	54 %	71 %	56 %	42 %
	44 %	59 %	45 %	33 %

# Balance Sheet at Market Values 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	588	117	117	118
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	20,986	9,679	9,649	53,945
	35,050	24,531	12,836	95,306
	1,972	1,826	397	5,538
	20,755	20,298	9,500	48,266
	751	468	85	2,658
	203,617	198,935	111,599	431,680
	13,276	25,530	5,958	15,469
	54,494	101,028	38,040	72,830
	11,515	47,498	1,668	6,195
	362,417	429,792	189,732	731,888
Intermediate Farm Assets Breeding livestock Machinery and equipment Titled vehicles Other intermediate assets Total intermediate farm assets	146,173	118,321	87,831	316,486
	416,855	488,413	236,443	762,694
	29,552	37,407	19,442	44,289
	23,792	18,328	9,759	57,633
	616,372	662,469	353,475	1,181,102
Long Term Farm Assets Farm land Buildings and improvements Other long-term assets Total long-term farm assets Total Farm Assets	592,376	634,376	475,359	891,728
	221,019	225,492	144,508	420,384
	39,530	68,887	15,492	69,711
	852,925	928,755	635,358	1,381,823
	1,831,714	2,021,016	1,178,565	3,294,813
Total Nonfarm Assets	171,312	188,943	143,592	209,751
Total Assets	2,003,026	2,209,958	1,322,157	3,504,564
Liabilities Current Farm Liabilities Accrued interest Accounts payable Current notes Government crop loans Principal due on term debt Total current farm liabilities	6,814	13,767	4,342	7,427
	24,450	52,996	13,394	30,892
	127,829	228,084	67,078	155,525
	7,775	14,493	3,785	8,836
	56,922	74,839	35,321	90,246
	223,790	384,179	123,920	292,926
Total intermediate farm liabs	153,603	210,761	96,849	245,297
Total long term farm liabilities	317,526	437,782	242,565	433,023
Total farm liabilities	694,920	1,032,722	463,334	971,247
Total nonfarm liabilities	32,055	37,227	19,437	36,952
Total liabs excluding deferreds	726,975	1,069,949	482,771	1,008,198
Total deferred liabilities	168,041	182,727	99,387	325,892
Total liabilities	895,016	1,252,677	582,158	1,334,090
Retained earnings Market valuation equity Net worth (farm and nonfarm) Net worth excluding deferreds Net worth change Percent net worth change	938,303	747,227	586,768	2,041,831
	169,708	210,055	153,231	128,642
	1,108,011	957,282	739,999	2,170,474
	1,276,052	1,140,009	839,386	2,496,366
	30,645	-74,890	32,784	138,386
	3 %	-7 %	5 %	7 %
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	62 %	89 %	65 %	40 %
	25 %	32 %	27 %	21 %
	37 %	47 %	38 %	31 %
	45 %	57 %	44 %	38 %
	36 %	48 %	37 %	29 %

#### 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.

# Solvency

Solvency 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 Amortization</u>. This represents a measure of earnings available for debt repayment.

#### **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.

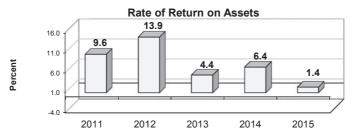
# Financial Standards Measures Northern Minnesota Farm Business Management Data (Farms Sorted By Net Farm Income)

	Avg. Of	L 000/	40 000/	111 - 1- 000/
	<u>All Farms</u>	Low 20%	<u>40 - 60%</u>	<u>High 20%</u>
Number of farms	588	117	117	118
Liquidity				
Current ratio	1.62	1.12	1.53	2.50
Working capital	138,627	45,613	65,811	438,961
Working capital to gross inc.	24.7%	7.9%	22.3%	37.4%
Solvency (market)				
Farm debt to asset ratio	47%	60%	48%	39%
Farm equity to asset ratio	53%	40%	52%	61%
Farm debt to equity ratio	0.89	1.50	0.91	0.65
Profitability (cost)				
Rate of return on farm assets	1.4%	-6.2%	1.2%	5.9%
Rate of return on farm equity	-0.9%	-22.1%	-1.4%	6.9%
Operating profit margin	4.7%	-25.0%	4.5%	17.5%
Net farm income	37,182	-104,862	24,136	202,750
EBIDTA	104,332	-10,711	63,628	312,504
Repayment Capacity				
Capital debt repayment capacity	70,274	-37,110	47,456	235,678
Capital debt repayment margin	-9,279	-134,422	2,030	101,229
Replacement margin	-22,698	-147,120	-6,923	74,457
Term debt coverage ratio	0.88	-0.38	1.04	1.75
Replacement coverage ratio	0.76	-0.34	0.87	1.46
Efficiency				
Asset turnover rate (cost)	29.8%	24.9%	26.1%	33.9%
Operating expense ratio	81.4%	101.9%	78.4%	73.4%
Depreciation expense ratio	7.1%	8.5%	7.5%	6.4%
Interest expense ratio	5.0%	7.7%	5.8%	3.3%
Net farm income ratio	6.6%	-18.1%	8.2%	17.3%

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







Page 18

# 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.

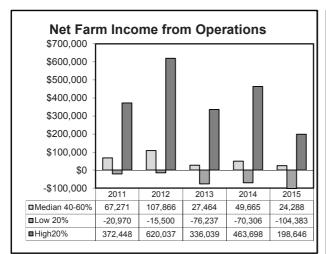
Evaluation Chart		Low F	-arms	Ave	rage	High	Farms_	Your	· Farm
		2015	5 Yr Ave	2015	5 Yr Ave	2015	5 Yr Ave	2015	5 Yr Ave
Liquidity									
Current Ratio		1.12	1.00	1.62	1.86	2.50	2.46		
Working Capital	\$	45,613	6,381	138,627	164,461	438,961	530,709		
Working Capital to Gross Inc.	%	7.9%	0.3%	24.7%	28.0%	37.4%	36.8%		
Solvency (Market)									
Farm Debt to Asset Ratio	%	60%	57%	47%	46%	39%	40%		
Farm Equity to Asset Ratio	%	40%	43%	53%	54%	61%	60%		
Farm Debt to Equity Ratio	%	1.5	1.36	0.89	0.84	0.65	0.68		
Profitability (Cost)									
Rate of Return on Farm Assets	%	-6.2%	-5.2%	1.4%	7.1%	5.9%	12.7%		
Rate of Return on Farm Equity	%	-22.1%	-22.0%	-0.9%	9.7%	6.9%	17.9%		
Operating Profit Margin	%	-25.0%	-20.1%	4.7%	17.3%	17.5%	27.4%		
Net Farm Income	\$	-104,862	-57,922	37,182	107,796	202,750	400,078		
EBIDTA	\$	-10,711	2,093	104,332	169,752	312,504	521,338		
Repayment Capacity (Accrual)									
Capital Debt Repayment Cap.	\$	-37,110	-14,172	70,274	131,940	235,678	429,009		
Capital Debt Repayment Margin	\$	-134,422	-78,539	-9,279	61,106	101,229	290,626		
Replacement Margin	\$	-147,120	-87,698	-22,698	49,671	74,457	266,889		
Term Debt Coverage Ratio		-0.38	-0.09	0.88	1.93	1.75	3.14		
Replacement Coverage Ratio		-0.34	-0.08	0.76	1.66	1.46	2.67		
Efficiency									
Efficiency Asset Turnover Rate (Cost)	%	24.9%	25.9%	29.8%	38.4%	33.9%	45.0%		
Operating Expense Ratio	%	101.9%	97.8%	81.4%	72.3%	73.4%	65.9%		
Depreciation Expense Ratio	%	8.5%	8.5%	7.1%	6.0%	6.4%	5.4%		
Interest Expense Ratio	%	7.7%	8.4%	5.0%	4.3%	3.3%	2.9%		
Net Farm Income Ratio	%	-18.1%	-15.1%	6.6%	17.4%	17.3%	26.0%		

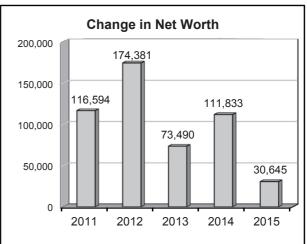
# Profitability Measures Northern Minnesota Farm Business Management Data (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	588	117	117	118
Profitability (assets valued at cost)				
Net farm income from operations	36,419	-104,383	24,288	198,646
Rate of return on assets	1.4 %	-6.2 %	1.2 %	5.9 %
Rate of return on equity	-0.9 %	-22.1 %	-1.4 %	6.9 %
Operating profit margin	4.7 %	-25.0 %	4.5 %	17.5 %
Asset turnover rate	29.8 %	24.9 %	26.1 %	33.9 %
Farm interest expense	27,843	44,614	17,208	38,969
Value of operator lbr and mgmt.	43,447	42,814	30,890	72,238
Return on farm assets	20,814	-102,583	10,606	165,377
Average farm assets	1,479,257	1,648,526	911,964	2,789,580
Return on farm equity	-7,028	-147,197	-6,602	126,408
Average farm equity	807,974	664,967	468,734	1,826,619
Value of farm production	441,427	410,669	237,772	946,925
	Avg. Of			
	All Farms	<u>Low 20%</u>	40 - 60%	High 20%
Number of farms	588	117	117	118
		117	117	118
Number of farms  Profitability (assets valued at market) Net farm income from operations		117 -69,247	117 37,904	118 203,609
Profitability (assets valued at market	)			
Profitability (assets valued at market) Net farm income from operations	) 52,406	-69,247	37,904	203,609
Profitability (assets valued at market) Net farm income from operations Rate of return on assets Rate of return on equity	) 52,406 2.1 %	-69,247 -3.3 %	37,904 2.1 %	203,609 5.3 %
Profitability (assets valued at market) Net farm income from operations Rate of return on assets	52,406 2.1 % 0.9 %	-69,247 -3.3 % -13.2 %	37,904 2.1 % 1.2 %	203,609 5.3 % 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	52,406 2.1 % 0.9 % 8.3 %	-69,247 -3.3 % -13.2 % -16.4 %	37,904 2.1 % 1.2 % 10.2 %	203,609 5.3 % 6.8 % 18.0 %
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	52,406 2.1 % 0.9 % 8.3 % 24.6 %	-69,247 -3.3 % -13.2 % -16.4 % 20.4 %	37,904 2.1 % 1.2 % 10.2 % 20.8 %	203,609 5.3 % 6.8 % 18.0 % 29.4 %
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 Farm interest expense	52,406 2.1 % 0.9 % 8.3 % 24.6 %	-69,247 -3.3 % -13.2 % -16.4 % 20.4 %	37,904 2.1 % 1.2 % 10.2 % 20.8 %	203,609 5.3 % 6.8 % 18.0 % 29.4 %
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  Farm interest expense Value of operator lbr and mgmt.	52,406 2.1 % 0.9 % 8.3 % 24.6 % 27,843 43,447	-69,247 -3.3 % -13.2 % -16.4 % 20.4 % 44,614 42,814	37,904 2.1 % 1.2 % 10.2 % 20.8 % 17,208 30,890	203,609 5.3 % 6.8 % 18.0 % 29.4 % 38,969 72,238
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	52,406 2.1 % 0.9 % 8.3 % 24.6 % 27,843 43,447 36,802 1,794,840	-69,247 -3.3 % -13.2 % -16.4 % 20.4 % 44,614 42,814 -67,446	37,904 2.1 % 1.2 % 10.2 % 20.8 % 17,208 30,890 24,222	203,609 5.3 % 6.8 % 18.0 % 29.4 % 38,969 72,238 170,340
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	52,406 2.1 % 0.9 % 8.3 % 24.6 % 27,843 43,447 36,802	-69,247 -3.3 % -13.2 % -16.4 % 20.4 % 44,614 42,814 -67,446 2,014,874	37,904 2.1 % 1.2 % 10.2 % 20.8 % 17,208 30,890 24,222 1,141,654	203,609 5.3 % 6.8 % 18.0 % 29.4 % 38,969 72,238 170,340 3,219,460

# 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	588	117	117	118
Liquidity				
Current ratio	1.62	1.12	1.53	2.5
Working capital	138,627	45,613	65,811	438,961
Working capital to gross inc.	24.70%	7.90%	22.30%	37.40%
Current assets	362,417	429,792	189,732	731,888
Current liabilities	223,790	384,179	123,920	292,926
Gross revenues (accrual)	561,184	577,944	294,869	1,173,080
Repayment capacity				
Net farm income from operations	36,419	-104,383	24,288	198,646
Depreciation	40,070	49,058	22,131	74,889
Personal income	28,964	37,732	25,912	20,450
Family living/owner withdrawals	-48,058	-43,266	-32,997	-73,141
	-10	-4	-88	120
Payments on personal debt	-2,889	-3,222	-2,625	-2,496
Income taxes paid	-6,713	-3,900	-3,946	-17,480
Interest on term debt	22,480	30,871	14,693	34,810
Capital debt repayment capacity	70,274	-37,110	47,456	235,678
Scheduled term debt payments	-79,553	-97,312	-45,426	-134,450
Capital debt repayment margin	-9,279	-134,422	2,030	101,229
Cash replacement allowance	-13,418	-12,698	-8,953	-26,771
Replacement margin	-22,698	-147,120	-6,923	74,457
Term debt coverage ratio	0.88	-0.38	1.04	1.75
Replacement coverage ratio	0.76	-0.34	0.87	1.46

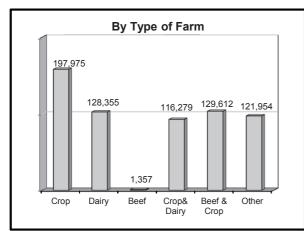


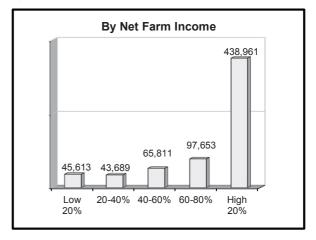


#### Selected Financial Guideline Measures

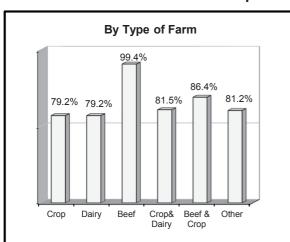
# Northern Minnesota Farm Business Management Data

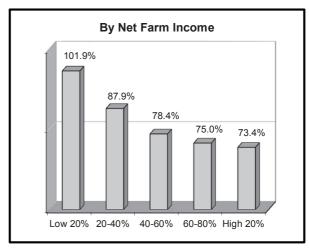
# **Working Capital**



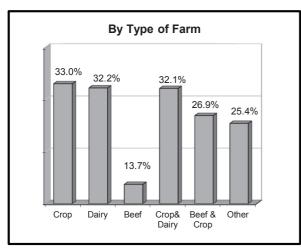


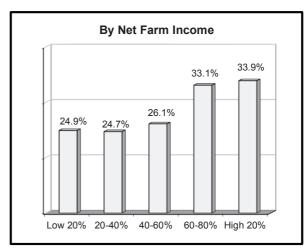
# **Operating Expense Ratio**





#### **Asset Turnover Rate**





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

Number of farms         588         117         117         118           Operator Information           Average number of operators         1.2         1.2         1.1         1.5           Average age of operators         46.2         47.0         46.1         46.0           Average number of years farming         21.4         22.6         20.7         22.9           Results Per Operator           Working capital         115,727         38,869         60,297         295,310		Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Operator Information           Average number of operators         1.2         1.2         1.1         1.5           Average age of operators         46.2         47.0         46.1         46.0           Average number of years farming         21.4         22.6         20.7         22.9           Results Per Operator           Working capital         115,727         38,869         60,297         295,310		All Fallis	LOW 20 /6	40 - 00 /6	
Average number of operators       1.2       1.2       1.1       1.5         Average age of operators       46.2       47.0       46.1       46.0         Average number of years farming       21.4       22.6       20.7       22.9         Results Per Operator         Working capital       115,727       38,869       60,297       295,310	Number of farms	588	117	117	118
Average age of operators       46.2       47.0       46.1       46.0         Average number of years farming       21.4       22.6       20.7       22.9         Results Per Operator         Working capital       115,727       38,869       60,297       295,310	Operator Information				
Average number of years farming         21.4         22.6         20.7         22.9           Results Per Operator           Working capital         115,727         38,869         60,297         295,310	Average number of operators	1.2	1.2	1.1	1.5
Results Per Operator           Working capital         115,727         38,869         60,297         295,310					
Working capital 115,727 38,869 60,297 295,310	Average number of years farming	21.4	22.6	20.7	22.9
	Results Per Operator				
Total coasts (market) 1 670 151 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Working capital	115,727	38,869		295,310
10tal assets (Illatket) 1,072,131 1,083,213 1,211,373 2,357,688	Total assets (market)	1,672,151	1,883,213	1,211,373	2,357,688
Total liabilities 747,170 1,067,467 533,379 897,507	Total liabilities	747,170	1,067,467	533,379	897,507
Net worth (market) 924,981 815,746 677,994 1,460,182	Net worth (market)	924,981	815,746	677,994	1,460,182
Net worth excl deferred liabs 1,065,264 971,457 769,054 1,679,425	Net worth excl deferred liabs	1,065,264	971,457	769,054	1,679,425
Gross farm income 468,483 492,494 270,161 789,187	Gross farm income	468,483	492,494	270,161	789,187
Total farm expense 438,080 581,444 247,909 655,548	Total farm expense		581,444		
Net farm income from operations         30,403         -88,950         22,253         133,639	•	30,403	-88,950	22,253	133,639
Net nonfarm income 24,180 32,154 23,741 13,758	Net nonfarm income	24.180	32.154	23.741	13.758
Family living & tax withdrawals 45,732 40,196 33,929 60,885					
Total acres owned 249.5 287.3 197.1 295.5	Total acres owned	249.5	287.3	197.1	295.5
Total crop acres 574.4 699.2 370.8 790.6	Total crop acres				
Crop acres owned 207.1 243.6 159.9 268.8		207.1	243.6	159.9	268.8
Crop acres cash rented 357.3 443.7 205.5 507.5	·	357.3	443.7	205.5	507.5
Crop acres share rented 9.9 12.0 5.4 14.3	·	9.9	12.0	5.4	14.3
Total pasture acres 31.6 36.0 38.9 17.7	Total pasture acres	31.6	36.0	38.9	17.7
Labor Analysis	Labor Analysis				
Number of farms 588 117 117 118		588	117	117	118
Total unpaid labor hours 2,682 2,585 2,082 3,966	Total unpaid labor hours	2,682	2,585	2,082	3,966
Total hired labor hours 2,075 1,914 708 5,237	Total hired labor hours	2,075	1,914	708	5,237
Total labor hours per farm 4,757 4,500 2,789 9,203	Total labor hours per farm	4,757	4,500	2,789	9,203
Unpaid hours per operator 2,239 2,203 1,908 2,668	Unpaid hours per operator	2,239	2,203	1,908	2,668
Value of farm production / hour         92.79         91.27         85.24         102.89	Value of farm production / hour	92.79	91.27	85.24	102.89
Net farm income / unpaid hour 13.58 -40.37 11.67 50.09	Net farm income / unpaid hour	13.58	-40.37	11.67	50.09
Average hourly hired labor wage 17.06 15.07 16.47 17.45	Average hourly hired labor wage	17.06	15.07	16.47	17.45
Partnerships & LLCs	Partnerships & LLCs				
Number of farms 75 13 11 27		75	13	11	27
Number of operators 2.1 2.2 1.8 2.3			2.2	1.8	2.3
Owner withdrawals per farm 63,587 - 79,680	Owner withdrawals per farm	63,587	-	-	79,680
Withdrawals per operator 31,018 - 39,840	Withdrawals per operator	31,018	-	-	39,840
Corporations	Corporations				
Number of farms 15 3 1 6		15	3	1	6
Number of operators 2.1 - 2.5	Number of operators	2.1	-	-	2.5

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

	Avg. Of			
	All Farms	<u>Low 20%</u>	40 - 60%	High 20%
Number of farms	76	24	13	9
Average family size	3.5	3.3	3.2	4.3
Family Living Expenses				
Food and meals expense	8,439	9,017	6,579	9,740
Medical care	3,078	2,879	1,123	6,780
Health insurance	3,869	3,744	1,811	5,178
Cash donations	1,340	412	1,466	1,988
Household supplies	3,125	1,467	3,151	2,621
Clothing	1,558	1,152	1,056	3,819
Personal care	2,843	4,545	1,933	3,335
Child / Dependent care	771	713	715	1,149
Alimony and child support	5	-	32	-
Gifts	1,603	1,103	1,639	3,665
Education	1,632	1,233	1,833	1,149
Recreation	2,815	2,421	1,497	6,238
Utilities (household share)	2,721	2,835	3,074	3,022
Personal vehicle operating exp	4,156	3,196	4,138	4,126
Household real estate taxes	260	188	274	153
Dwelling rent	564	525	-	1,988
Household repairs	1,544	1,694	1,472	4,255
Personal interest	1,488	1,357	916	1,497
Disability / Long term care ins	270	411	96	502
Life insurance payments	1,476	1,822	1,753	1,777
Personal property insurance	196	237	56	, <sub>74</sub>
Miscellaneous	4,685	4,841	4,565	5,684
Total cash family living expense	48,439	45,791	39,178	68,740
Family living from the farm	344	624	-	597
Total family living	48,783	46,415	39,178	69,336
Other Nonfarm Expenditures				
Income taxes	7,714	6,221	4,487	35,410
Furnishing & appliance purchases	181	-	102	-
Nonfarm vehicle purchases	3,004	1,536	2,046	10,325
Nonfarm real estate purchases	10,241	696	-2,222	51,722
Other nonfarm capital purchases	1,185	-	1,185	8,182
Nonfarm savings & investments	3,923	6,728	6,402	7,077
Total other nonfarm expenditures	26,248	15,182	11,999	112,715
Total cash family living				
investment & nonfarm capital purch	74,687	60,973	51,177	181,455

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

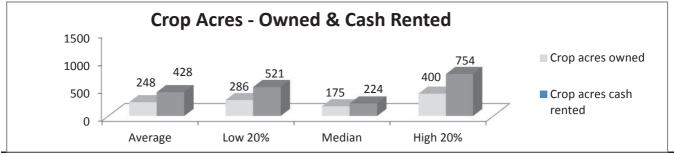
	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	588	117	117	118
Nonfarm Income				
Personal wages & salary	19,200	21,979	18,403	8,823
Net nonfarm business income	3,011	2,105	4,165	3,638
Personal rental income	552	1,687	259	335
Personal interest income	107	32	51	222
Personal cash dividends	143	323	76	141
Tax refunds	1,447	2,030	1,057	1,708
Other nonfarm income	4,505	9,576	1,902	5,584
Total nonfarm income	28,964	37,732	25,912	20,450
Gifts and inheritances	2,425	1,681	5,294	2,747
Nonfarm Assets (market)				
Checking & savings	7,173	9,277	3,746	9,259
Stocks & bonds	7,651	5,272	11,129	12,337
Other current assets	1,869	1,837	1,120	4,692
Furniture & appliances	8,723	13,449	7,447	6,467
Nonfarm vehicles	13,762	15,511	12,687	15,455
Cash value of life ins.	5,049	5,416	4,138	6,087
Retirement accounts	37,832	36,778	34,393	41,918
Other intermediate assets	7,170	17,019	5,872	2,771
Nonfarm real estate	70,282	78,351	55,295	84,186
Personal bus. investment	4,472	2,675	1,166	17,687
Other long term assets	7,330	3,358	6,600	8,892
Total nonfarm assets	171,312	188,943	143,592	209,751
Nonfarm Liabilities				
Accrued interest	74	50	16	165
Accounts payable	884	1,365	343	1,820
Current notes	1,628	2,943	839	718
Princ due on term debt	2,836	3,151	2,634	2,721
Total current liabilities	7,412	8,127	4,382	12,096
Intermediate liabilities	4,001	5,999	3,274	2,915
Long term liabilities	20,642	23,101	11,781	21,940
Total nonfarm liabilities	32,055	37,227	19,437	36,952
Nonfarm net worth	139,257	151,716	124,155	172,799
Nonfarm debt to asset ratio	19 %	20 %	14 %	18 %

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

	Less than	101 - 250	251 - 500	501 - 1,000	1,001 - 1,500	1,501 - 2,000	2,001 - 5,000
Number of farms	98	127	122	118	49	25	48
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	258,126	208,305	377,439	577,570	1,122,654	876,417	1,644,963
	217,463	173,313	322,876	494,603	999,421	778,426	1,353,209
	40,663	34,991	54,563	82,967	123,234	97,991	291,754
	-1,518	590	2,746	-5,913	38,465	-19,713	-78,557
	-18,342	-15,740	-28,700	-39,603	-78,584	-63,925	-125,620
	20,802	19,842	28,609	37,450	83,114	14,352	87,577
	-393	-6	1,750	2,445	-1,067	28	785
	20,409	19,836	30,358	39,895	82,047	14,380	88,362
	8,821	8,454	20,116	37,824	70,463	36,660	77,035
Profitability (cost) Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	1.3 %	1.1 %	1.0 %	1.4 %	2.6 %	0.1 %	1.4 %
	-2.1 %	-2.3 %	-1.6 %	-1.0 %	1.0 %	-3.9 %	-0.1 %
	5.0 %	4.1 %	3.7 %	5.1 %	7.9 %	0.4 %	4.1 %
	25.7 %	26.3 %	27.3 %	28.0 %	32.5 %	31.9 %	33.7 %
Profitability (market) Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	2.8 %	2.4 %	1.3 %	1.9 %	2.6 %	0.9 %	2.3 %
	2.0 %	1.4 %	-0.4 %	0.5 %	1.6 %	-1.6 %	1.8 %
	13.2 %	11.8 %	6.0 %	8.3 %	9.4 %	3.6 %	7.9 %
	21.0 %	19.9 %	22.2 %	22.7 %	27.2 %	26.2 %	29.1 %
Liquidity & Repayment (end of year) Current assets Current liabilities Current ratio Working capital Working capital to gross inc Term debt coverage ratio Replacement coverage ratio Term debt to EBITDA	123,200	95,694	230,054	391,781	636,464	713,268	1,281,341
	104,082	60,917	123,099	237,307	421,680	543,723	752,988
	1.18	1.57	1.87	1.65	1.51	1.31	1,70
	19,117	34,776	106,954	154,474	214,784	169,544	528,353
	7.3 %	16.3 %	27.4 %	26.5 %	18.1 %	19.2 %	32.4 %
	0.94	0.98	1.07	0.82	0.93	0.38	0.87
	0.86	0.89	0.90	0.71	0.84	0.32	0.69
	4.88	5.64	4.60	4.91	4.12	5.07	2.86
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 %	98	127	122	118	49	25	48
	810,077	774,286	1,240,665	1,848,690	3,021,615	2,649,526	4,372,117
	428,707	382,178	527,677	840,833	1,362,696	1,267,076	1,554,884
	381,370	392,108	712,987	1,007,857	1,658,920	1,382,450	2,817,233
	9,561	16,660	22,470	9,960	57,163	-43,691	1,062
	57 %	55 %	46 %	49 %	47 %	50 %	36 %
	53 %	49 %	43 %	45 %	45 %	48 %	36 %
	3 %	4 %	3 %	1 %	4 %	-3 %	0 %
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 %	98	127	122	118	49	25	48
	982,607	986,054	1,492,354	2,251,012	3,589,360	3,193,065	5,098,527
	482,414	444,061	651,070	1,007,278	1,689,387	1,578,323	2,102,963
	500,193	541,994	841,284	1,243,734	1,899,973	1,614,742	2,995,564
	23,404	29,470	29,744	24,207	71,139	-21,389	54,176
	52 %	49 %	47 %	47 %	49 %	52 %	42 %
	49 %	45 %	44 %	45 %	47 %	49 %	41 %
	5 %	6 %	4 %	2 %	4 %	-1 %	2 %
Nonfarm Information Net nonfarm income Farms reporting living expenses Total family living expense Total living, invest, cap. purch	27,070	34,019	27,768	25,854	35,594	15,058	31,001
	18	23	13	15	1	3	3
	42,112	49,741	40,348	53,446	-	-	-
	47,013	57,054	80,172	93,515	-	-	-
Crop Acres Total crop acres Total crop acres owned Total crop acres cash rented Total crop acres share rented Machinery value per crop acre	22	172	370	704	1,231	1,733	2,972
	14	96	158	287	426	535	932
	7	72	208	409	802	1,171	1,948
	1	3	3	7	4	27	92
	1,377	962	746	659	650	481	506

# Crop Production and Marketing Summary 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	588	117	117	118
Acreage Summary				
Total acres owned	299	337	215	439
Total crop acres	688	821	405	1,175
Crop acres owned	248	286	175	400
Crop acres cash rented	428	521	224	754
Crop acres share rented	12	14	6	21
Total pasture acres	38	42	42	26
Percent crop acres owned	36%	35%	43%	34%
Mach invest/crop acre cost	542	521	499	604
Mach invest/crop acre market	611	585	573	664
Average Price Received (Cash Sales Only)				
Soybeans per bushel	9.13	8.93	8.88	9.41
Corn per bushel	3.44	3.52	2.99	3.56
Wheat, Spring per bushel	5.26	5.07	4.87	5.45
Hay, Alfalfa per ton	108.39	118.97	130.27	100.43
Oats per bushel	2.65	2.47	3.75	2.39
Barley per bushel	4.69	5.50	-	4.13
Hay, Mixed per ton	78.66	73.59	-	-
Hay, Grass per ton	87.41	85.15	-	-
Corn Silage per ton	38.79	6.10	-	44.62
Rye per bushel	5.93 20.56	6.12	-	5.86
Sunflowers per cwt Grass Seed, Perennial Rye per lb	0.662	0.683	-	0.654
Wheat, Winter per bushel	4.60	0.003	_	0.034
Beans, Navy per cwt	27.71	_	_	_
	27.77			
Average Yield Per Acre	20.40	20.47	07.00	20.44
Soybeans (bushel)	39.40	39.47	37.83 156.57	39.41
Corn (bushel) Corn Silage (ton)	164.15 18.76	169.70 18.75	17.74	165.85 19.52
Hay, Alfalfa (ton)	3.85	3.71	3.68	4.34
Wheat, Spring (bushel)	66.01	62.83	63.60	67.99
Hay, Grass (ton)	2.00	2.19	1.67	2.24
Hay, Mixed (ton)	2.30	2.20	2.53	2.46
Oats (bushel)	82.92	73.53	81.65	95.30
Barley (bushel)	76.60	77.64	66.30	75.65
Rye (bushel)	43.60	44.49	35.46	40.75
Wheat, Winter (bushel)	41.86	36.68	-	45.28
Sunflowers (cwt)	17.35	-	-	-
Beans, Navy (cwt)	18.66		-	



# 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.

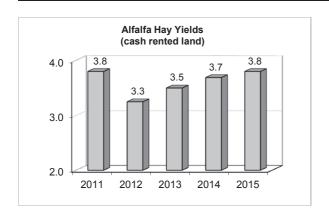
At the bottom of each livestock report, there is a list of selected factors for each enterprise. These factors are a combination of production indicators and efficiency indicators.

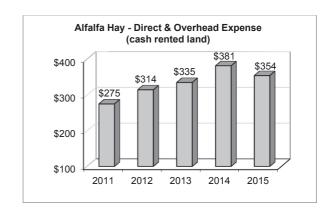
Towards the bottom of both the <u>crop and livestock</u> enterprise tables, are four (4) factors that show varying levels of Cost of Production. Those factors include a cost of production based on: direct costs, overhead & direct costs, total cost less government payments and/or other revenue, and total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

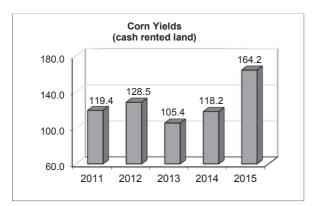
<u>Machinery Cost per Acre</u> is a factor used to combine all costs related to machinery usage. The Machinery Cost per Acre includes: Fuel & Oil, Repairs, Custom hire, Machinery leases, Interest on machinery debt, and Machinery depreciation. A machinery cost summary for five prominent Northern Minnesota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

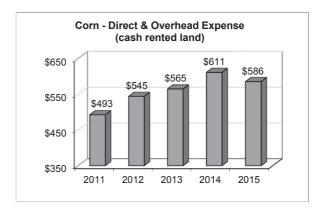
Crop	2011	2012	2013	2014	2015
Alfalfa Hay	\$134.95	\$150.94	\$145.46	\$190.49	\$164.47
Corn	\$142.37	154.11	152.35	\$162.84	\$159.23
Corn Silage	\$184.16	\$185.94	\$178.58	\$229.01	\$209.02
Soybeans	\$87.20	\$88.40	\$85.28	\$87.39	\$81.89
Spring Wheat	\$84.21	\$94.18	\$87.97	\$86.33	\$84.02

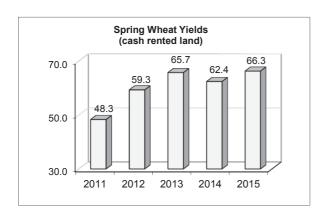
# Five Year History of Crop Yields and Cost of Production Northern Minnesota Farm Business Management Data

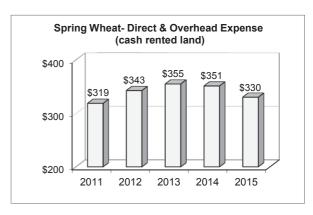


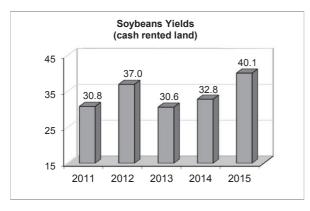


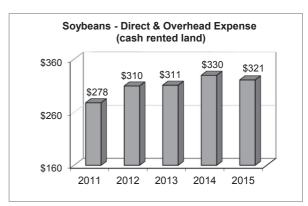












#### Corn on Owned Land

	Avg. Of _All Farms	40 - 60%	High_20%
Number of farms	199	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	95.38 164.15 100.00 3.30 6.54 547.68 -0.42 12.18 3.25 562.70	115.86 164.73 100.00 3.31 4.86 549.91 15.98 1.45 567.33	83.62 182.27 100.00 3.31 11.32 615.15 29.05 3.82 648.02
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Drying expense Storage Packaging and supplies 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	96.75 123.68 27.44 21.36 9.92 0.92 1.11 30.19 50.61 14.32 1.58 2.44 2.05 0.76 8.50 2.47 394.10 168.60	99.95 136.71 27.08 18.81 8.79 2.34 0.30 28.26 53.19 9.35 0.06 1.68 1.39 0.91 8.95 1.38 399.15 168.19	94.17 90.80 25.05 22.68 9.79 0.36 1.99 27.87 45.81 12.30 6.26 1.78 0.38 0.67 3.93 2.88 346.72 301.30
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	13.13 4.37 0.72 18.65 9.44 6.50 3.42 51.17 56.10 5.14 168.65 562.75	18.86 11.12 0.12 19.82 10.39 6.62 3.15 67.48 58.61 4.56 200.74 599.89 -32.56	6.88 0.45 0.52 16.88 9.74 9.45 4.24 45.16 61.99 4.01 159.32 506.04 141.98
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	33.00 32.95 53.72 -20.77	32.46 -0.09 52.34 -52.44	32.93 174.91 59.97 114.94
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	2.40 3.43 3.10 3.42	2.42 3.64 3.31 3.63	1.90 2.78 2.35 2.68
Net value per unit Machinery cost per acre Est. labor hours per acre	3.29 159.23 4.22	3.31 168.61 3.96	3.31 152.18 4.45

#### Corn on Cash Rent

	Avg. Of _All Farms	<u> 40 - 60%</u>	—High 20%
Number of farms	236	47	48
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	159.28	201.41	114.44
	164.17	158.52	179.77
	100.00	100.00	100.00
	3.32	3.37	3.33
	4.40	4.50	11.87
	548.80	539.20	610.38
	0.51	-	3.64
	6.82	8.68	1.56
	2.10	2.01	2.06
	558.23	549.88	617.65
Direct Expenses Seed 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	94.78	95.10	85.91
	124.86	135.31	99.36
	27.35	24.64	24.88
	20.88	22.13	18.51
	10.30	11.52	10.48
	0.90	0.58	0.41
	1.29	0.04	1.86
	25.19	23.34	27.76
	45.82	52.37	37.07
	12.91	9.78	10.79
	1.49	1.67	0.63
	102.00	87.26	81.42
	3.73	1.65	3.16
	0.33	0.88	0.00
	2.24	1.54	1.57
	0.88	1.35	1.00
	6.47	7.49	4.70
	2.41	0.74	2.06
	483.83	477.39	411.55
	74.40	72.49	206.09
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	15.83	15.48	15.03
	6.92	9.75	4.45
	0.59	0.52	1.94
	7.54	7.14	5.78
	4.91	3.57	4.96
	3.14	3.31	2.58
	7.83	8.59	6.86
	50.05	47.44	48.92
	4.91	6.43	4.50
	101.75	102.22	95.00
	585.59	579.61	506.56
	-27.36	-29.73	111.09
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	33.02	29.81	31.09
	5.66	0.09	142.18
	45.09	43.74	50.40
	-39.43	-43.65	91.79
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	2.95	3.01	2.29
	3.57	3.66	2.82
	3.28	3.37	2.54
	3.56	3.65	2.82
Net value per unit	3.32	3.37	3.35
Machinery cost per acre	146.94	149.16	135.23
Est. labor hours per acre	3.79	3.82	4.54

# Soybeans on Owned Land

	Avg. Of		
	<u>All Farms</u>	<u>40 - 60%</u>	<u> High 20%</u>
Number of farms	167	34	34
Acres	195.80	209.12	89.43
Yield per acre (bu.)	38.05	38.74	54.20
Operators share of yield % Value per bu.	100.00 8.33	100.00 8.46	100.00 8.48
Other product return per acre	0.01	-	0.13
Total product return per acre	316.94	327.71	459.70
Hedging gains/losses per acre	-0.10	-	-
Crop insurance per acre	12.13 2.75	11.14 1.75	9.20 5.05
Other crop income per acre Gross return per acre	331.72	340.59	473.95
Direct Expenses			
Seed	63.36	63.24	56.36
Fertilizer Crop shomicals	31.69 25.06	33.90 23.36	16.62 29.50
Crop chemicals Crop insurance	14.56	15.28	17.47
Fuel & oil	16.03	16.10	14.18
Repairs	22.21	22.40	24.89
Custom hire	7.04	9.14	2.55
Hired labor Machinery leases	0.54 1.03	0.14 0.86	2.99 1.57
Hauling and trucking	0.54	0.13	2.13
Marketing	0.60	0.97	0.85
Operating interest	4.15	3.18	3.37
Miscellaneous Total direct expenses per acre	1.32 188.14	1.32 190.02	1.81 174.30
Return over direct exp per acre	143.58	150.58	299.65
Overhead Expenses			
Hired labor	9.05 1.56	6.20 1.91	5.25
Machinery leases Building leases	0.81	0.29	0.65 0.75
RE & pers. property taxes	11.90	12.26	20.27
Farm insurance	6.19	5.46	5.23
Utilities	4.54 2.36	4.97	4.69
Dues & professional fees Interest	2.30 27.29	2.57 22.79	1.95 44.07
Mach & bldg depreciation	33.48	31.84	37.69
Miscellaneous	2.82	3.68	2.24
Total overhead expenses per acre	100.00	91.99	122.79
Total dir & ovhd expenses per acre Net return per acre	288.14 43.58	282.01 58.59	297.08 176.86
Government payments	19.78	19.56	35.37
Net return with govt pmts	63.36	78.14	212.23
Labor & management charge Net return over lbr & mgt	30.59 32.77	33.84 44.30	34.01 178.22
Cost of Production			
Total direct expense per bu.	4.94	4.91	3.22
Total dir & ovhd exp per bu.	7.57	7.28 6.44	5.48
Less govt & other income With labor & management	6.66 7.47	6.44 7.32	4.56 5.19
-			
Net value per unit Machinery cost per acre	8.33 81.89	8.46 82.21	8.48 80.38
Est. labor hours per acre	1.81	1.82	2.64
			=-3.

# Soybeans on Cash Rent

	Avg. Of <u>All Farms</u>	40 - 60%	High_20%
Number of farms	222	45	45
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	315.84 40.08 100.00 8.37 0.02 335.50 -0.02 9.24 2.87 347.59	369.28 37.44 100.00 8.28 310.22 -0.37 8.93 3.71 322.49	258.32 46.82 100.00 8.42 0.10 394.38 20.60 2.01 416.99
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Hired labor Land rent Machinery leases Hauling and trucking Marketing Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	62.71	65.66	57.93
	29.51	26.14	19.56
	25.33	24.35	26.14
	14.66	15.30	15.08
	14.82	15.18	11.50
	22.02	21.71	20.42
	6.43	4.47	5.36
	1.21	1.54	1.48
	78.29	74.88	69.83
	3.12	1.58	3.18
	0.57	0.41	0.62
	0.64	0.91	1.00
	4.66	5.46	4.53
	2.08	1.97	1.57
	266.05	259.59	238.20
	81.55	62.90	178.79
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	7.31	6.74	5.46
	2.31	2.11	0.66
	1.31	0.71	1.61
	5.19	4.92	4.56
	3.66	4.20	2.39
	2.01	1.77	1.43
	4.03	2.63	5.51
	26.59	23.01	25.87
	2.46	2.20	1.89
	54.87	48.29	49.38
	320.92	307.88	287.57
	26.67	14.61	129.41
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	18.42	13.75	25.29
	45.09	28.36	154.70
	27.22	29.69	23.50
	17.88	-1.33	131.20
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	6.64	6.93	5.09
	8.01	8.22	6.14
	7.25	7.53	5.12
	7.92	8.32	5.62
Net value per unit	8.37	8.27	8.42
Machinery cost per acre	77.27	68.50	70.73
Est. labor hours per acre	1.65	1.54	1.83

# Wheat, Spring on Owned Land

Ava Of		
All Farms	<u>40 - 60%</u>	High_20%
82	17	17
247.58 65.98 100.00 4.96 0.34 327.94 5.88 5.92 339.73	286.59 66.70 100.00 4.86 - 324.08 2.98 7.61 334.66	312.86 74.53 100.00 5.31 0.81 396.38 5.50 9.73 411.60
20.52 91.35 28.72 11.90 0.83 17.41 20.74 9.82 0.45 0.85 1.10 0.67 4.42 1.75 210.52 129.22	21.06 88.20 28.71 12.37 1.14 16.80 21.00 10.86 - 0.00 0.08 0.84 4.17 1.41 206.66 128.00	18.95 84.38 24.03 10.93 0.31 18.50 19.64 8.49 1.62 1.19 2.72 0.04 3.58 3.03 197.42 214.18
0.16 10.58 2.00 0.45 10.83 5.48 3.70 1.95 18.66 32.45 2.57 88.82 299.33 40.40	0.57 8.24 2.83 0.79 9.20 5.05 3.35 1.17 18.61 28.83 2.39 81.03 287.70 46.97	12.46 0.23 0.01 12.54 3.90 2.94 1.59 22.42 35.16 3.13 94.38 291.80 119.80
17.05 57.45 26.75 30.70	17.21 64.17 27.38 36.79	20.22 140.02 18.07 121.95
3.19 4.54 4.09 4.50	3.10 4.31 3.90 4.31	2.65 3.92 3.43 3.67
4.96 84.02 1.58	4.86 82.29 1.56	5.31 84.65 1.58
	82 247.58 65.98 100.00 4.96 0.34 327.94 5.88 5.92 339.73  20.52 91.35 28.72 11.90 0.83 17.41 20.74 9.82 0.45 0.85 1.10 0.67 4.42 1.75 210.52 129.22  0.16 10.58 2.00 0.45 10.83 5.48 3.70 1.95 18.66 32.45 2.57 88.82 299.33 40.40  17.05 57.45 26.75 30.70  3.19 4.54 4.09 4.50  4.96 84.02	All Farms         40 - 60%           82         17           247.58         286.59           65.98         66.70           100.00         100.00           4.96         4.86           0.34         327.94           327.94         324.08           5.88         2.98           5.92         7.61           339.73         334.66           20.52         21.06           91.35         88.20           28.72         28.71           11.90         12.37           0.83         1.14           17.41         16.80           20.74         21.00           9.82         10.86           0.45         -           0.85         0.00           1.10         0.08           0.67         0.84           4.42         4.17           1.75         1.41           210.52         206.66           129.22         128.00           0.16         0.57           10.58         8.24           2.00         2.83           0.45         0.79           10.83         9.2

# Wheat, Spring on Cash Rent

	Avg. Of _All Farms	40 - 60%	High 20%
Niversia and of formers			•
Number of farms	112	23	23
Acres	357.97	378.70	355.24
Yield per acre (bu.)	66.25	63.30	71.60
Operators share of yield %	100.00	100.00	100.00
Value per bu.	5.02	4.84	5.44
Other product return per acre	1.10		4.99
Total product return per acre Crop insurance per acre	333.86	306.41	394.57
	6.53	9.83	11.04
Other crop income per acre	6.54	3.96	11.27
Gross return per acre	346.93	320.20	416.87
Direct Expenses Seed	20.63	20.56	19.82
Fertilizer	95.33	96.34	87.97
Crop chemicals	28.79	31.68	29.91
Crop insurance	10.66	10.89	10.96
Drying expense	0.55	0.76	0.13
Fuel & oil	15.55	15.96	16.11
Repairs	20.85	18.29	20.72
Custom hire	6.25	7.38	3.71
Hired labor	0.58	0.06	0.67
Land rent	68.23	55.34	68.74
Machinery leases	2.44	1.12	3.39
Hauling and trucking	0.53	0.04	1.30
Marketing	1.44	0.17	0.01
Operating interest	4.17	4.22	3.60
Miscellaneous	1.54	1.20	1.52
Total direct expenses per acre	277.53	263.99	268.54
Return over direct exp per acre	69.39	56.21	148.34
Overhead Expenses	0.05	44.00	7.07
Hired labor	8.95	11.60	7.87
Machinery leases	1.80	1.16	0.10
Building leases	0.93	2.16	0.38
Farm insurance	4.82	4.06	4.00
Utilities	3.39	2.26	2.90
Dues & professional fees	2.01	1.48	2.46
Interest	3.49	5.20	3.75
Mach & bldg depreciation	25.56	28.04	22.55
Miscellaneous	1.98	1.20	2.14
Total overhead expenses per acre	52.93	57.17	46.15
Total dir & ovhd expenses per acre	330.46	321.16	314.69
Net return per acre	16.47	-0.96	102.18
Government payments Net return with govt pmts	12.68	12.85	14.33
	29.14	11.89	116.52
Labor & management charge	27.02	26.93	26.83
Net return over lbr & mgt	2.13	-15.04	89.68
Cost of Production			
Total direct expense per bu. Total dir & ovhd exp per bu.	4.19	4.17	3.75
	4.99	5.07	4.40
Less govt & other income With labor & management	4.58	4.65	3.81
	4.99	5.08	4.19
Net value per unit	5.02	4.84 75.51	5.44
Machinery cost per acre Est. labor hours per acre	74.41	75.51	68.46
	1.47	1.44	1.36

# Corn Silage on Owned Land

	Avg. Of _All Farms	40 - 60%	High 20%
Number of farms	157	32	32
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	59.02 19.51 100.00 34.46 672.15 1.95 0.79 674.88	74.66 19.76 100.00 34.81 687.64	50.48 23.94 100.00 35.27 844.31 - 1.42 845.73
Seed Fertilizer Crop chemicals Crop insurance Packaging and supplies Fuel & oil Repairs Custom hire Hired labor Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	91.00 80.83 27.51 15.68 10.17 33.76 60.15 49.99 1.43 3.01 3.97 2.18 379.68 295.21	95.88 84.24 34.58 15.34 7.28 40.61 69.24 41.15 3.91 3.66 1.15 397.03 290.61	85.52 66.48 21.41 18.58 15.42 34.83 50.76 26.58 0.54 2.15 1.25 0.95 324.48 521.24
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	25.28	39.63	16.20
	3.28	0.51	8.23
	0.69	1.33	0.63
	13.62	13.02	13.23
	9.54	6.94	14.90
	6.29	6.11	9.60
	2.78	2.78	3.31
	52.97	39.44	64.77
	55.01	70.30	62.70
	5.45	4.97	4.73
	174.91	185.05	198.31
	554.58	582.07	522.79
	120.30	105.56	322.94
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	30.08	36.58	25.22
	150.38	142.14	348.16
	50.01	48.98	61.94
	100.37	93.17	286.22
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	19.47	20.10	13.56
	28.43	29.46	21.84
	26.75	27.61	20.73
	29.31	30.09	23.32
Net value per unit	34.46	34.81	35.27
Machinery cost per acre	209.02	225.73	190.28
Est. labor hours per acre	4.95	4.16	5.61

# Corn Silage on Cash Rent

	Avg. Of All Farms	40 - 60%	High 20%
Number of farms	130	26	26
Acres Yield per acre (ton) Operators share of yield % Value per ton 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	87.77 18.15 100.00 34.84 0.14 632.56 0.00 1.00 1.86 635.43	83.59 19.61 100.00 34.32 0.72 673.57 - 1.29 674.86	63.58 23.03 100.00 35.20 - 810.80 - 0.37 0.27 811.44
Direct Expenses			
Seed Fertilizer Crop chemicals Crop insurance Storage Packaging and supplies Fuel & oil Repairs Custom hire Land rent Machinery leases Hauling and trucking Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	93.54	95.30	90.96
	78.19	87.64	61.97
	28.16	32.36	24.24
	15.85	17.56	11.02
	1.29	-	3.51
	10.83	7.45	2.16
	34.98	30.11	34.80
	57.36	52.38	53.04
	48.82	55.69	23.56
	87.64	65.82	56.97
	5.62	11.68	2.45
	0.51	0.33	0.05
	5.12	2.18	3.33
	4.28	7.19	2.63
	472.19	465.67	370.67
	163.23	209.19	440.78
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	33.66	34.87	33.11
	6.29	0.84	1.52
	0.58	0.59	0.76
	6.92	5.26	13.45
	5.02	4.16	5.63
	3.00	1.81	2.94
	11.55	7.22	8.72
	48.33	62.38	54.37
	4.98	5.79	4.53
	120.33	122.92	125.04
	592.52	588.59	495.71
	42.90	86.27	315.73
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	28.19	30.11	30.63
	71.09	116.38	346.37
	37.76	38.81	47.12
	33.33	77.56	299.25
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	26.02	23.75	16.09
	32.64	30.02	21.52
	30.93	28.38	20.16
	33.01	30.36	22.21
Net value per unit	34.84	34.32	35.20
Machinery cost per acre	208.09	214.68	171.92
Est. labor hours per acre	4.70	4.12	6.02

# Hay, Alfalfa on Owned Land

	Avg. Of _All Farms	40 - 60%	High 20%
Number of farms	114	23	23
Acres Yield per acre (ton) Operators share of yield % Value per ton Other product return per acre Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	53.47 3.92 100.00 153.84 0.09 602.43 17.10 1.95 621.48	48.87 3.92 100.00 168.48 0.48 660.27 0.49 2.60 663.36	50.18 5.65 100.00 174.95 989.20 66.22 3.31 1,058.73
Direct Expenses Seed Fertilizer Crop chemicals Non-chemical crop protect Crop insurance Storage Packaging and supplies Fuel & oil Repairs Custom hire Hired labor Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	0.41 34.89 5.89 0.43 3.70 0.66 5.29 31.30 51.80 21.45 0.11 1.49 5.11 2.28 164.80 456.68	1.65 50.67 2.38 2.01 4.24 1.64 3.10 32.93 70.38 48.73 0.58 3.70 2.62 5.52 230.15 433.21	25.30 6.85 6.12 0.41 5.88 33.59 65.72 29.68 1.22 2.79 1.27 178.84 879.89
Overhead Expenses Hired labor Machinery 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	18.70	14.99	21.50
	4.84	0.53	5.06
	13.76	14.47	14.61
	10.67	12.37	9.81
	6.78	7.26	7.64
	3.03	2.77	4.09
	48.44	45.07	59.53
	50.95	50.24	69.54
	7.29	9.22	8.03
	164.45	156.91	199.79
	329.25	387.06	378.62
	292.23	276.30	680.10
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	27.91	28.04	35.09
	320.15	304.34	715.19
	55.40	59.60	67.96
	264.75	244.74	647.23
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	42.09	58.77	31.63
	84.09	98.84	66.96
	72.08	90.77	48.46
	86.22	105.99	60.48
Net value per unit	153.84	168.48	174.95
Machinery cost per acre	164.47	211.83	204.90
Est. labor hours per acre	5.19	7.25	5.19

# Hay, Alfalfa on Cash Rent

	Avg. Of All Farms	40 - 60%	High_20%
Number of farms	126	25	26
Acres Yield per acre (ton) Operators share of yield % Value per ton Other product return per acre Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	57.73 3.80 100.00 153.93 0.30 585.12 12.81 2.18 600.12	54.34 3.47 100.00 162.41 1.59 565.91 4.69 0.06 570.66	61.88 5.15 100.00 163.46 841.10 44.17 4.93 890.19
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Storage Packaging and supplies Fuel & oil Repairs Custom hire Land rent Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	0.74 39.57 7.17 2.92 0.82 7.14 30.46 48.00 17.99 86.20 2.69 4.61 2.96 251.29 348.83	0.37 44.31 1.14 1.01 0.68 1.14 24.94 39.68 25.88 112.92 0.50 2.79 6.44 261.81 308.85	1.51 38.40 2.96 4.33 2.23 7.91 27.57 50.22 11.92 77.79 3.36 3.19 1.09 232.47 657.72
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	23.33	30.72	29.65
	4.09	0.44	3.28
	0.37	0.01	0.87
	7.92	8.29	6.60
	5.72	4.01	6.05
	3.59	3.23	3.74
	8.85	5.87	10.32
	45.02	45.06	57.94
	4.03	3.83	4.19
	102.90	101.47	122.63
	354.19	363.28	355.09
	245.93	207.39	535.10
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	26.59	31.18	31.09
	272.52	238.57	566.19
	42.63	38.90	41.47
	229.89	199.67	524.72
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	66.14	75.35	45.18
	93.22	104.55	69.01
	82.20	93.75	53.43
	93.42	104.94	61.49
Net value per unit	153.93	162.41	163.46
Machinery cost per acre	151.74	136.74	157.63
Est. labor hours per acre	4.59	4.44	5.36

## Hay, Mixed on Owned Land

	Avg. Of _All Farms	40 - 60%	High 20%
Number of farms	46	9	10
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	56.43 2.11 100.00 88.96 188.08 2.03 190.11	70.51 2.59 100.00 79.11 205.24	28.05 3.31 100.00 138.91 459.22 2.55 461.77
Seed Fertilizer Crop insurance Packaging and supplies Fuel & oil Repairs Custom hire Hired labor Machinery leases Marketing Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	0.88 24.03 0.57 3.84 19.47 36.32 6.41 4.20 0.69 0.07 2.85 2.02 101.36 88.75	0.25 25.30 0.06 7.58 16.44 39.95 0.53 - - 6.24 0.28 96.65 108.59	0.71 31.59 2.55 0.24 21.56 21.53 48.61 - 0.62 2.49 0.19 130.10 331.67
Overhead Expenses Hired labor Machinery 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	4.16	8.66	5.02
	0.23	0.52	0.73
	8.61	7.93	12.23
	5.86	4.51	5.20
	3.64	5.67	4.00
	4.06	2.79	2.84
	21.63	15.90	23.98
	23.61	16.14	27.35
	3.36	1.83	11.43
	75.17	63.95	92.79
	176.53	160.59	222.89
	13.58	44.64	238.88
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	14.09	23.12	24.56
	27.67	67.77	263.44
	34.17	30.90	40.65
	-6.50	36.86	222.78
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management  Net value per unit	47.94	37.25	39.35
	83.49	61.90	67.42
	75.87	52.99	59.22
	92.03	64.90	71.52
Machinery cost per acre Est. labor hours per acre	87.14	72.06	122.97
	3.40	2.86	3.23

# Hay, Mixed on Cash Rent

	Avg. Of _All Farms	<u>40 - 60%</u>	High 20%
Number of farms	47	10	10
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	79.02 2.41 100.00 88.45 213.28 0.55 213.82	132.78 1.99 100.00 68.61 136.39	38.80 4.19 100.00 126.63 530.48 1.84 532.33
Direct Expenses Seed Fertilizer Crop insurance Storage Packaging and supplies Fuel & oil Repairs Custom hire Hired labor Land rent Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	0.82 18.39 0.67 1.51 2.70 18.06 29.32 6.19 3.45 38.59 0.79 3.86 1.54 125.88 87.94	7.76 0.03 1.54 14.02 19.48 0.25 21.97 1.09 5.96 0.40 72.50 63.90	3.35 43.58 0.37 1.91 4.57 19.02 37.52 4.77 54.06 1.73 0.02 170.90 361.43
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	7.24	5.43	15.65
	5.24	11.01	0.26
	0.27	0.04	2.46
	5.70	3.89	9.03
	2.85	1.55	2.97
	2.69	1.46	1.61
	7.14	6.90	8.50
	26.40	15.15	53.95
	2.85	1.89	2.19
	60.37	47.32	96.61
	186.25	119.81	267.51
	27.57	16.58	264.82
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	13.01	5.63	24.52
	40.58	22.21	289.34
	29.37	23.65	32.47
	11.21	-1.44	256.87
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	52.21	36.47	40.79
	77.24	60.27	63.86
	71.62	57.44	57.56
	83.80	69.34	65.31
Net value per unit	88.45	68.61	126.63
Machinery cost per acre	91.13	66.84	121.34
Est. labor hours per acre	2.74	2.11	2.67

# Hay, Grass on Cash Rent

	Avg. Of _All Farms	40 - 60%	High 20%
Number of farms	79	16	16
Acres Yield per acre (ton) Operators share of yield % Value per ton Other product return per acre	82.76 1.91 100.00 70.42 1.10	61.58 1.82 100.00 70.21	38.18 3.27 100.00 83.94
Total product return per acre Other crop income per acre Gross return per acre	135.66 0.99 136.65	127.43 127.43	274.74 0.36 275.10
Direct Expenses Seed Fertilizer Packaging and supplies Fuel & oil Repairs Custom hire Land rent Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	0.06 16.08 2.19 12.42 22.34 1.63 28.35 1.24 4.93 1.06 90.30 46.35	5.68 2.12 20.65 28.21 1.69 30.52 2.38 2.13 0.14 93.53 33.90	0.66 9.58 2.85 14.37 21.07 1.44 42.82 - 2.19 0.44 95.41 179.68
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	7.34 2.04 2.68 1.76 0.74 4.23 19.72 2.41 40.90 131.20 5.45	10.89 7.93 3.13 2.85 1.57 3.98 20.70 2.80 53.84 147.38 -19.95	19.58 0.27 2.30 3.02 1.19 5.49 23.42 1.75 57.01 152.42 122.67
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	5.47 10.92 16.82 -5.90	5.86 -14.08 20.24 -34.32	6.56 129.23 16.39 112.84
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	47.26 68.66 64.70 73.51	51.53 81.20 77.97 89.12	29.15 46.57 44.46 49.46
Net value per unit Machinery cost per acre Est. labor hours per acre	70.42 61.94 2.09	70.21 82.69 2.40	83.94 63.70 2.75

# Crop Enterprise Analysis

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

	Establish		Intensive	Prevented
	Alfalfa Hay	<u>Pasture</u>	<u>Pasture</u>	<u>Planting</u>
Number of farms	72	73	8	8
Acres	65.87	221.73	74.15	73.50
Yield per acre	2.80	2.44	4.33	197.45
Operators share of yield %	100.00	100.00	100.00	100.00
Value	138.24	10.64	18.39	1.00
Total product return per acre	387.07	25.97	79.53	197.45
Other crop income per acre	25.76	0.72	-	6.53
Gross return per acre	412.83	26.69	79.53	203.99
Direct Expenses				
Seed	92.25	-	-	
Fertilizer	65.41	1.93	4.50	98.00
Crop chemicals	5.47	-	-	6.92
Crop insurance	3.99	-	-	7.96
Packaging and supplies	5.67	-	7.00	40.00
Fuel & oil	28.15	2.86	7.68	12.69
Repairs	43.20	4.43	14.75	18.41
Custom hire	19.58 5.69	-	-	E 10
Machinery Leases Land Rent	48.81	- 10.55	- 12.41	5.18 55.04
Operating interest	5.42	0.78	0.28	4.66
Miscellaneous	3.66	0.76	1.26	3.09
Total direct expenses per acre	327.29	20.93	40.88	114.95
Return over direct exp per acre	85.54	5.76	38.65	89.04
Overhead Expenses				
Hired labor	20.67	1.72	5.43	3.42
Mach and bldg leases	5.76	0.30	1.03	0.12
RE & pers. property taxes	4.87	2.33	4.21	2.29
Farm insurance	7.52	0.57	1.98	5.97
Utilities	4.54	0.87	1.59	1.99
Dues & professional fees	2.97	0.51	0.62	0.78
Interest	20.53	6.48	7.80	9.48
Mach & bldg depreciation	45.39	3.57	16.15	24.97
Miscellaneous	4.02	0.51	2.13	4.34
Total overhead expenses per acre	116.26	16.86	40.93	53.23
Total dir & ovhd expenses per acre	443.56	37.79	81.81	168.18
Net return per acre	-30.73	-11.10	-2.27	35.81
Government payments	24.93	1.06	30.66	10.78
Net return with govt pmts	-5.80	-10.04	28.38	46.59
Labor & management charge	46.99	4.26	33.34	21.39
Net return over lbr & mgt	-52.79	-14.30	-4.95	25.20
Cost of Production				
Total direct expense per bu.	116.97	8.57	9.45	0.58
Total dir & ovhd exp per bu.	158.52	15.48	18.91	0.85
Less govt & other income	140.31	14.75	11.82	0.76
With labor & management	157.11	16.50	19.53	0.87
Net value per unit	138.24	10.64	18.39	1.00
Machinery cost per acre	151.80	11.69	39.23	62.57
Est. labor hours per acre	4.10	0.35	1.96	1.66

<sup>\*</sup> Combined data for rented and owned land. Actual land cost is the sum of: Land Rent, Interest, & RE taxes.

Irrigated Crops \*

	Corn	Corn Silage	Hay, Alfalfa	Soybeans
Number of farms	55	15	8	25
Acres	193.00	100.63	75.38	125.71
Yield per acre	186.85	25.42	4.97	52.97
Operators share of yield %	100.00	100.00	100.00	100.00
Value	3.37	34.85	146.90	8.34
Total product return per acre	618.86	885.89	729.93	441.98
Crop insurance per acre	4.76	-	-	12.07
Other crop income per acre	3.10	1.84	0.06	1.37
Gross return per acre	626.72	887.72	729.99	455.43
Direct Expenses				
Seed	98.35	100.70	2.59	54.22
Fertilizer	146.45	114.17	80.29	28.32
Crop chemicals	27.13	33.43	3.12	27.56
Crop insurance	18.04	12.23	0.66	13.20
Marketing	1.19	-	-	1.36
Storage	0.99	-	2.84	0.08
Irrigation energy	25.50	18.57	16.89	22.89
Packaging and supplies	0.43	12.89	17.13	0.34
Fuel & oil	29.23	47.94	34.51	13.74
Repairs	44.98	80.56	56.54	29.40
Custom hire and Trucking	17.40	53.20	48.70	10.47
Hired labor	2.01 69.98	- 19.12	1.01 73.76	3.92 63.78
Land Rent	8.65	6.93	5.02	7.82
Operating interest Miscellaneous	3.16	7.72	8.36	3.75
Total direct expenses per acre	509.53	507.45	351.42	286.12
Return over direct exp per acre	117.19	380.28	378.58	169.31
Overhead Expenses	117.13	000.20	070.00	100.01
Hired labor	27.08	40.86	22.60	13.64
Mach and bldg leases	10.35	10.62	6.19	2.89
RE & pers. property taxes	8.03	10.81	4.48	7.04
Farm insurance	10.88	13.31	5.91	7.94
Utilities	4.88	8.30	3.29	3.36
Dues & professional fees	4.17	4.13	2.16	1.57
Interest	29.05	53.50	23.40	20.67
Mach & bldg depreciation	67.00	72.18	62.02	32.51
Miscellaneous	6.46	4.29	3.80	4.17
Total overhead expenses per acre	167.91	218.01	133.84	93.80
Total dir & ovhd expenses per acre	677.44	725.46	485.26	379.91
Net return per acre	-50.72	162.27	244.73	75.51
Government payments	38.06	39.27	37.05	40.40
Net return with govt pmts	-12.66	201.54	281.78	115.91
Labor & management charge	51.94	47.35	38.43	31.23
Net return over lbr & mgt	-64.60	154.19	243.35	84.68
Cost of Production				
Total direct expense per bu.	2.73	19.96	70.72	5.40
Total dir & ovhd exp per bu.	3.63	28.54	97.66	7.17
Less govt & other income	3.34	26.92	90.19	6.16
With labor & management	3.62	28.79	97.93	6.75
Net value per unit	3.27	34.85	146.90	8.34
Machinery cost per acre	170.82	269.62	212.74	90.40
Est. labor hours per acre	4.22	4.67	2.81	2.60
Lot. labor floaro por doro	7.22	7.01	2.01	

<sup>\*</sup> Combined data for rented and owned land. Actual land cost is the sum of: Land Rent, Interest, & RE taxes.

	Barley	<u>Oats</u>	Rye	Wheat, Winter
Number of farms	24	70	21	15
Acres	229.92	51.17	88.72	132.42
Yield per acre	75.91	82.75	43.60	45.21
Operators share of yield %	100.00	100.00	100.00	100.00
Value	4.99	2.44	5.44	4.37
Other product return per acre	0.54	10.05	40.08	2.89
Total product return per acre	379.58	212.31	277.28	200.64
Crop insurance per acre	6.70	2.63	=	1.92
Other crop income per acre	4.09	32.40	21.87	4.01
Gross return per acre	390.37	247.34	299.14	206.58
Direct Expenses				
Seed	16.33	19.47	17.00	16.94
Fertilizer	69.73	35.42	49.48	72.60
Crop chemicals	23.50	9.64	5.24	18.13
Crop insurance	14.47	6.95	1.35	9.27
Drying expense	-	=	-	0.18
Fuel & oil	17.90	12.74	18.02	14.13
Repairs	26.35	23.52	22.85	18.48
Custom hire	13.84	8.72	7.77	11.45
Hired labor	0.44	0.38	-	1.48
Land Rent	48.98	29.46	60.98	48.14
Hauling and trucking	0.14	1.64	2.82	0.36
Operating interest	8.10	3.66	3.53	5.28
Miscellaneous	4.58	5.08	11.32	4.98
Total direct expenses per acre	244.35	156.67	200.47	221.42
Return over direct exp per acre	146.03	90.66	98.67	-14.84
Overhead Expenses				
Hired labor	7.77	7.29	10.14	7.93
Machinery leases	4.31	1.77	4.20	0.16
Building leases	1.13	0.28	0.15	1.75
RE & pers. property taxes	1.31	6.26	1.90	1.83
Farm insurance	4.76	4.24	5.94	4.67
Utilities	5.28	2.95	2.29	4.28
Dues & professional fees	1.99	1.70	2.65	1.50
Interest	12.55	17.21	3.31	11.29
Mach & bldg depreciation	26.92	20.78	32.10	25.86
Miscellaneous	1.06	2.92	2.98	0.87
Total overhead expenses per acre	68.12	65.39	65.66	60.59
Total dir & ovhd expenses per acre	312.46	222.06	266.13	282.01 -75.43
Net return per acre	77.91	25.27	33.01	
Government payments	9.91	23.99	27.83	10.50
Net return with govt pmts	87.82	49.27	60.84	-64.93
Labor & management charge	25.01	22.71	26.19	21.21
Net return over lbr & mgt	62.82	26.56	34.66	-86.14
Cost of Production				
Total direct expense per bu.	3.22	1.89	4.60	4.90
Total dir & ovhd exp per bu.	4.12	2.68	6.10	6.24
Less govt & other income	3.84	1.85	4.04	5.81
With labor & management	4.17	2.12	4.65	6.28
Net value per unit	4.99	2.44	5.44	4.37
Machinery cost per acre	95.85	70.42	90.37	75.57
Est. labor hours per acre	1.52	2.30	2.22	1.37
_ccor riodio por doro				1.57

<sup>\*</sup> 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)

		Acres Combined		
	Soybeans,	Soybeans,	Beans,	0 0
	<u>Seed</u>	<u>Food</u>	<u>Navy</u>	Sunflowers
Number of farms	8	7	7	11
Acres	203.46	429.14	334.34	279.55
Yield per acre	49.58	30.79	18.66	17.35
Operators share of yield %	100.00	100.00	100.00	100.00
Value	9.25	11.27	26.38	20.14
Total product return per acre	458.55	347.09	492.29	349.34
Crop insurance per acre	0.50	12.28	-	14.16
Other crop income per acre	12.74	8.15	4.60 496.89	262.40
Gross return per acre	471.79	367.52	490.09	363.49
Direct Expenses	50.00	07.44	<b>57.00</b>	0.4.50
Seed	59.02	27.41	57.00	34.58
Fertilizer	23.80	14.21	42.31	74.87
Crop chemicals	36.60	31.89	82.87	40.26
Crop insurance	10.69	12.89	19.58	14.78
Drying expense	-	40.04	-	0.49
Fuel & oil	13.25	19.94	30.34	21.33
Repairs	26.73	24.30	40.84	37.38 7.14
Custom hire	8.64	3.33	1.65 0.70	0.12
Hired labor	54.21	62.08	44.93	46.29
Land Rent	34.21	02.00	3.32	0.21
Hauling and trucking Operating interest	2.19	2.64	6.84	12.43
Miscellaneous	9.41	1.24	7.53	1.91
Total direct expenses per acre	244.55	199.92	337.91	291.78
Return over direct exp per acre	227.23	167.60	158.98	71.72
Overhead Expenses		.000	.00.00	
Hired labor	2.81	8.63	26.22	14.71
Machinery leases	0.36	4.35	0.41	4.46
Building leases	0.07	-	2.32	-
RE & pers. property taxes	9.14	2.12	9.14	1.32
Farm insurance	4.41	4.06	4.35	8.46
Utilities	3.63	5.81	4.19	4.81
Dues & professional fees	3.06	1.65	2.08	1.87
Interest	22.99	13.34	18.90	7.39
Mach & bldg depreciation	28.88	19.20	36.27	31.57
Miscellaneous	0.86	2.02	4.96	4.42
Total overhead expenses per acre	76.23	61.17	108.84	79.01
Total dir & ovhd expenses per acre	320.78	261.10	446.75	370.79
Net return per acre	151.01	106.42	50.14	-7.30
Government payments	19.98	10.57	_	13.58
Net return with govt pmts	170.99	116.99	50.14	6.28
Labor & management charge	39.77	27.01	17.18	26.02
Net return over lbr & mgt	131.21	89.99	32.97	-19.74
Cost of Production				
Total direct expense per bu.	4.93	6.49	18.10	16.82
Total direct expense per bu.  Total dir & ovhd exp per bu.	6.47	8.48	23.94	21.38
_ess govt & other income	5.80	7.47	23.69	19.78
With labor & management	6.60	8.35	24.61	21.28
-				
Net value per unit	9.50	11.27	26.38	20.14
Machinery cost per acre	82.94	73.89	116.16	109.06
Est. labor hours per acre	1.72	1.64	1.89	1.89

<sup>\*</sup> 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)

	Owned and Nemed A	Acres Combined		
	<u>Perennial</u> Rye Grass	<u>Canola</u>	<u>Irrigated</u> <u>Pumpkins</u>	<u>Irrigated</u> Strawberries
Number of farms	11	6	5	7
Acres	438.45	215.58	12.18	2.61
Yield per acre	693.06	14.60	617.44	6868.69
Operators share of yield %	100.00	100.00	100.00	100.00
Value	0.70	15.39	3.15	2.14
Total product return per acre	485.88	224.72	1947.65	14713.24
Crop insurance per acre	17.05	23.32	-	- 11710.21
Other crop income per acre	2.39	1.30	_	_
Gross return per acre	505.32	249.34	1947.65	14713.24
Direct Expenses				
Seed	17.30	50.84	89.00	_
Fertilizer	114.23	93.97	352.04	334.90
	50.87	13.62	86.31	334.06
Crop chemicals	10.12	12.45	00.31	54.64
Crop insurance		12.43	-	34.04
Drying expense	1.35	-	- 04.70	- 07.04
Irrigation Energy	-	-	24.78	67.21
Packaging and Supplies	-	-	41.20	409.40
Fuel & oil	23.06	16.54	67.53	228.98
Repairs	28.88	17.56	75.30	453.43
Custom hire and Trucking	7.81	10.24	180.62	564.75
Hired labor	-	2.06	124.33	2526.12
Land Rent	38.56	34.07	35.27	2.61
Operating interest	4.46	3.75	12.98	7.53
Miscellaneous	0.16	0.01	66.91	1325.63
Total direct expenses per acre	299.67	257.78	1156.29	6513.36
Return over direct exp per acre	205.65	-8.44	791.37	8199.88
Overhead Expenses				
Hired labor	13.45	14.57	81.39	662.63
Mach and bldg leases	2.84	1.62	3.89	223.03
RE & pers. property taxes	3.10	1.84	8.68	115.86
Farm insurance	8.06	4.22	31.22	155.74
Utilities	4.94	4.18	5.75	204.10
Dues & professional fees	3.55	3.55	42.49	370.32
Interest	6.57	4.35	3.69	459.92
Mach & bldg depreciation	43.72	30.81	174.21	587.37
Miscellaneous	3.23	1.08	53.03	283.68
Total overhead expenses per acre	89.47	66.23	404.37	2858.54
Total dir & ovhd expenses per acre	389.14	324.01	1560.65	9371.90
Net return per acre	116.18	-74.67	387.00	5341.34
Government payments	13.21	14.75	-	_
Net return with govt pmts	129.39	-59.92	387.00	5341.34
Labor & management charge	38.61	28.73	264.70	2418.15
Net return over lbr & mgt	90.77	-88.64	123.76	2923.18
Cost of Production	00.77	00.01	120.70	2020.10
	0.43	17.66	1.87	0.95
Total dir s over per bu.	0.56	22.19		
Total dir & ovhd exp per bu.			2.53	1.36
Less govt & other income	0.51	19.50	2.53	1.36
With labor & management	0.57	21.46	2.95	1.72
Net value per unit	0.70	15.39	3.15	2.14
Machinery cost per acre	109.16	78.33	483.43	1202.28
Est. labor hours per acre	1.69	1.43	78.49	432.98

<sup>\*</sup> 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 (Farms Sorted By Return to Overhead) \*\*\*\* Dairy -- Average Per Cwt. Of Milk \*\*\*\* Excluding Organic & Organic Transition

	Avg. Of All Farms		40 - 60	0%	High 20%		
Number of farms	3	61		72	J	73	
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 99.21 0.00 0.00 0.00 0.00 0.00 0.00	Value 17.61 0.59 0.20 1.48 0.21 -0.11 -0.37 0.20 -2.38 17.42	Quantity 99.12 0.00 0.00 0.00 0.00 0.00 0.00	Value 17.51 0.69 0.15 1.47 0.19 -0.07 -0.13 0.18 -2.72	Quantity 99.46 0.00 0.00 0.00 0.00 0.00 0.00	Value 18.15 0.53 0.26 1.52 0.17 -0.03 -0.68 0.26 -1.67 18.51	
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 Marketing Bedding Total direct expenses Return over direct expense	14.37 6.63 0.28 78.54 11.08 16.98 11.14	3.26 1.24 1.00 1.38 0.79 0.59 0.52 0.22 0.45 0.21 1.06 0.30 0.65 0.26 0.92 0.19 0.33 13.37 4.05	12.02 8.48 0.27 79.98 11.74 18.94 7.91	2.86 2.01 0.96 1.41 0.83 0.64 0.34 0.21 0.44 0.15 0.97 0.26 0.62 0.23 1.10 0.22 0.40 13.64 3.61	15.49 6.52 0.29 77.24 9.17 17.21 10.73	3.18 0.72 1.00 1.39 0.64 0.58 0.66 0.20 0.43 0.23 0.99 0.31 0.62 0.29 0.34 0.18 0.31 12.07 6.44	
Overhead Expenses  Hired labor Building leases Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		0.87 0.21 0.30 0.33 0.71 0.43 2.85 16.22 1.20		0.47 0.13 0.32 0.38 0.71 0.44 2.45 16.09 1.17		1.52 0.24 0.28 0.28 0.85 0.40 3.57 15.64 2.87	
Labor & management charge Net return over lbr & mgt		0.90 0.31		0.88 0.29		0.97 1.90	
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		13.37 16.22 16.52 17.42		13.64 16.09 16.46 17.34		12.07 15.64 15.37 16.34	
Est. labor hours per unit		0.17		0.17		0.16	
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 Avg. milk price per cwt. Milk price / feed margin		189.6 24,034 4,521,665 1,618,202 30.5 37.5 6.5 111.2 5.77 8.77 2,107.76 17.75 8.98		163.7 23,703 3,847,052 1,661,967 29.3 36.7 6.8 110.5 5.88 9.05 2,145.55 17.67 8.62		258.4 26,173 6,726,171 1,764,852 33.3 39.1 56. 112.7 5.86 8.17 2,139.07 18.24 10.07	

# Livestock Enterprise Analysis Farm Business Management Statewide Data (Farms Sorted By Return to Overhead) \*\*\*\* Dairy -- Average Per Cow \*\*\*\* Excluding Organic & Organic Transition

	Avg. OfAll Farms		40 - 6	60%	High 20%		
Number of farms		361		72	J	73	
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 23,844.5 0.3 0.6 0.3 0.0 0.4 0.0	Value 4,231.96 140.90 47.26 355.40 49.68 -26.73 -88.83 48.48 -572.12 4,186.66	Quantity 23,494.1 0.4 0.6 0.3 0.0 0.4 0.0	Value 4,150.66 162.53 34.97 347.93 44.02 -17.61 -30.29 43.64 -645.55 4,090.95	Quantity 26,031.5 0.3 0.6 0.3 0.0 0.4 0.0	Value 4,749.25 137.85 68.23 398.13 45.53 -8.83 -176.95 69.09 -438.23 4,844.06	
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 Marketing Bedding Total direct expenses Return over direct expense	3,453.0 1,592.9 68.2 18,876.3 2,663.3 4,080.7 2,676.6	782.64 297.32 239.17 332.46 188.85 141.27 126.05 53.40 109.20 49.95 255.35 72.39 156.98 61.29 221.17 46.63 78.58 3,212.70 973.96	2,848.8 2,011.0 63.6 18,957.7 2,782.9 4,489.3 1,874.6	677.05 476.54 228.38 334.95 196.19 151.32 81.11 50.17 104.02 35.71 230.06 60.60 146.85 53.99 260.75 51.60 94.84 3,234.14 856.81	4,055.5 1,705.5 75.3 20,214.9 2,400.5 4,504.3 2,807.5	833.27 188.40 260.60 363.88 168.34 152.29 172.29 53.10 111.48 59.59 260.11 81.63 163.39 74.83 87.80 47.55 80.74 3,159.28 1,684.78	
Overhead Expenses  Hired labor Building leases Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		208.98 50.19 71.98 79.86 170.63 102.85 684.48 3,897.18 289.48		111.70 30.09 76.41 90.48 167.22 104.16 580.06 3,814.20 276.74		398.94 62.28 73.67 72.87 223.18 103.59 934.52 4,093.80 750.26	
Labor & management charge Net return over lbr & mgt		215.66 73.82		208.85 67.90		253.44 496.82	
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		13.37 16.22 16.52 17.42		13.64 16.09 16.46 17.34		12.07 15.64 15.37 16.34	
Est. labor hours per unit		41.26		39.58		41.30	
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 Avg. milk price per cwt. Milk price / feed margin		189.6 24,034 4,521,665 1,618,202 30.5 37.5 6.5 111.2 5.77 8.77 2,107.76 17.75 8.98		163.7 23,703 3,847,052 1,661,967 29.3 36.7 6.8 110.5 5.88 9.05 2,145.55 17.67 8.62		258.4 26,173 6,726,171 1,764,852 33.3 39.1 5.6 112.7 5.86 8.17 2,139.07 18.24 10.07	

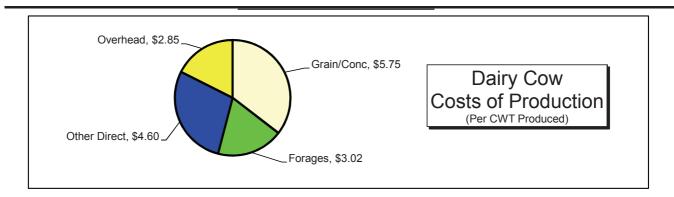
# Organic Dairy -- Average Per Cow

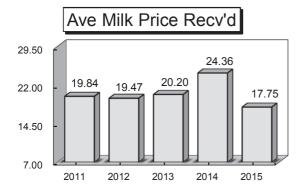
	Avg. All Fa		33 - 0	66%	High 34%		
Number of farms		13		4	•	5	
Milk sold (hd) Dairy Calves sold (hd) Transferred out (hd) Cull sales (hd) Other income Purchased (hd) Transferred in (hd) Inventory change (hd) Dairy repl net cost Gross margin	Quantity 13,916.8 0.1 0.9 0.2 0.0 0.3 0.1	Value 4,797.07 45.18 64.34 288.89 143.88 -14.06 -81.94 91.21 -564.98 4,779.43	Quantity 12,347.2 0.2 0.8 0.2	Value 4,197.13 87.73 83.47 200.06 150.59 90.11 -635.92 4,173.18	Quantity 17,439.4 0.1 0.9 0.2 0.0 0.4 0.1	Value 6,019.60 34.01 54.94 385.98 106.17 -28.55 -166.36 81.17 -423.55 6,063.41	
Direct Expenses Protein Vit Minerals (lb.) Corn (bu.) Hay, Grass (lb.) Haylage, Alfalfa (lb.) Corn, Organic (bu.) Corn Silage, Organic (lb.) Hay, Alfalfa, Organic (lb.) Pasture, Organic (aum) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Custom hire Hired labor Utilities Bedding Total direct expenses Return over direct expense	776.2 23.4 640.0 3,583.2 23.4 8,417.5 3,820.3 2.6 6,173.8	309.56 234.47 37.48 134.37 237.79 206.95 292.47 92.57 366.61 38.21 269.46 68.81 174.55 67.12 65.37 28.12 87.60 2,711.54 2,067.89	778.6 - - 29.7 10,703.4 8,836.3 4.6 2,704.0	204.04  302.62 251.41 662.27 158.54 170.83 27.37 211.61 77.23 199.70 18.79 35.66 47.71 2,367.79 1,805.39	891.1 47.6 1,299.4 7,274.7 31.2 9,981.5 1,861.1 1.7 4,435.8	431.85 476.04 76.10 272.80 307.85 219.98 151.88 55.56 313.53 56.35 326.05 68.20 215.09 80.32 115.74 54.01 137.10 3,358.45 2,704.96	
Overhead Expenses Hired labor Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		202.90 68.10 66.46 134.96 143.66 616.08 3,327.62 1,451.81		189.98 98.31 43.57 115.70 156.71 604.28 2,972.07 1,201.12		254.97 45.95 50.82 156.85 168.14 676.73 4,035.18 2,028.23	
Labor & management charge Net return over lbr & mgt		262.04 1,189.77		308.55 892.56		271.13 1,757.10	
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		18.84 23.13 24.18 26.00		18.33 23.01 24.36 26.75		18.94 22.76 23.06 24.58	
Est. labor hours per unit		35.54		40.56		41.45	
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 cwt. of milk Feed cost per cow Avg. milk price per cwt. Milk price / feed margin		101.2 14,389 1,408,384 1,096,297 20.8 25.6 3.8 104.2 5.24 13.29 1,912.28 34.47 21.18		77.1 12,918 952,277 852,339 18.5 23.0 4.2 112.2 4.79 13.54 1,749.72 33.99 20.45		129.6 17,731 2,260,146 1,178,165 24.1 28.4 3.4 112.1 6.32 13.00 2,305.58 34.52 21.51	

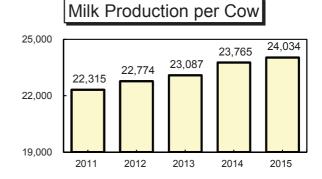
# Livestock Enterprise Analysis Farm Business Management Statewide Data (Farms Sorted By Enterprise Size) \*\*Dairy -- Average Per Cow -- By Herd Size\*\* Excluding Organic & Organic Transition

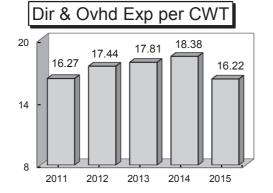
	<b>U</b> р 5			50 00		00 00		00 00		ver 00
Number of farms		43	1:	28	10	01	(	66		23
Milk sold (hd) Dairy Calves sold (hd) Transferred out (hd) Cull sales (hd) Other income Purchased (hd) Transferred in (hd) Inventory change (hd) Dairy repl net cost Gross margin	Quantity 17,425.3 0.2 0.7 0.3 0.1 0.3 0.1	Value 3,043.81 89.70 56.03 276.78 21.77 -82.54 -65.55 110.48 -496.24 2,954.24	Quantity 20,889.0 0.3 0.7 0.3 0.0 0.4 0.0	Value 3,625.27 115.61 69.70 343.54 39.53 -56.08 -54.36 44.81 -577.57 3,550.44	Quantity 22,354.3 0.3 0.6 0.3 0.0 0.4 0.1	Value 3,914.48 114.04 47.55 329.73 26.09 -46.16 -58.32 70.31 -594.41 3,803.75	Quantity 24,135.3 0.3 0.7 0.3 0.0 0.0 0.4 0.0	Value 4,283,25 124,94 76.86 344,04 69.55 -21.50 -102.86 48.41 -553.13 4,271.09	Quantity 26,275.2 0.4 0.5 0.3 0.0 0.4 0.0	Value 4,736,26 187,71 9,34 393,61 52,82 -2,39 -111,76 31,21 -579,01 4,718,14
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	2,061.1 1,506.0 62.3 15,098.7 4,279.2 3,392.5 1,130.2	471.17 248.02 212.27 260.92 312.40 139.76 78.28 34.13 71.85 4.99 239.64 58.63 101.02 18.78 9.05 74.66 33.96 2,369.53 584.71	2,615.0 1,343.6 61.8 17,241.0 4,281.3 2,938.8 2,179.8	637.96 223.52 212.23 288.49 320.96 113.64 94.36 50.67 98.87 13.59 258.32 57.43 132.19 41.41 50.12 61.83 57.44 2,713.04 837.41	2,755.0 3,252.5 63.1 17,999.1 3,574.9 3,221.9 3,605.4	630.07 376.76 213.78 293.43 243.13 116.61 113.83 46.78 107.41 18.84 235.90 71.10 142.13 51.89 138.05 51.33 81.57 2,932.61 871.14	2,988.1 1,497.2 66.7 18,921.1 2,500.7 4,859.0 2,261.4	792.24 370.54 235.94 325.38 165.66 157.49 169.79 53.26 127.03 57.85 255.71 74.80 160.29 58.32 294.05 29.99 88.70 3,417.24 853.85	4,797.4 722.7 76.2 20,381.0 1,420.2 4,443.3 2,792.7	957.12 212.67 271.99 388.30 110.07 153.82 110.19 60.45 100.97 78.33 178.24 81.79 295.27 36.32 79.55 3,478.29 1,239.85
Overhead Expenses Hired labor Building leases Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		49.62 22.54 97.07 63.60 115.63 110.38 458.83 2,828.36 125.88		86.81 14.54 94.51 86.30 163.70 119.71 565.58 3,278.62 271.82		123.10 45.29 74.66 98.61 185.33 106.01 633.00 3,565.60 238.15		218.26 53.74 66.40 90.73 168.56 107.91 705.60 4,122.84 148.25		319.50 67.19 64.01 56.18 170.23 88.41 765.52 4,243.80 474.34
Labor & management charge Net return over lbr & mgt		422.57 -296.70		334.86 -63.04		264.83 -26.69		172.34 -24.09		158.13 316.20
Cost of Production Per Cwt. Of Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management	Milk	13.54 16.16 16.73 19.15		12.90 15.59 16.05 17.64		13.06 15.87 16.44 17.62		13.98 16.86 17.10 17.81		13.16 16.06 16.21 16.81
Est. labor hours per unit		48.59		39.14		34.98		41.58		45.34
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 Avg. milk price per cwt. Milk price / feed margin		39.9 17,504 695,603 1,004,196 25.1 33.7 7.2 91.4 4.72 9.84 1,722.82 17.47 7.63		73.2 21,034 1,529,977 1,494,500 29.2 36.6 6.4 105.7 5.18 8.99 1,891.17 17.35 8.36		142.2 22,462 3,178,785 1,789,273 28.2 34.8 6.0 108.5 5.45 8.85 1,987.62 17.51 8.66		314.4 24,452 7,587,702 1,625,254 29.9 37.2 6.8 117.1 6.07 9.07 2,217.24 17.75 8.68	;	967.6 26,425 25,422,931 1,622,724 33.6 40.2 6.6 112.2 6.04 8.34 2,204.16 18.03 9.68

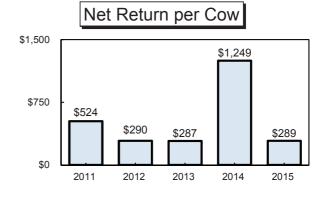
# Summary of Selected Dairy Enterprise Factors

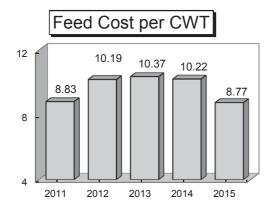


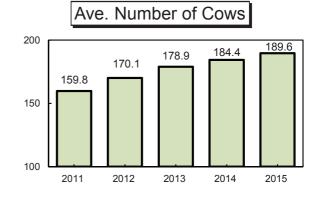












# Livestock Enterprise Analysis Farm Business Management Statewide Data (Farms Sorted By Return to Overhead) \*Dairy and Repl Heifers -- Average Per Cow \* Excluding Organic & Organic Transition

	Avg. ( AII Fai	Of ms	40 - 6	60%	High 20%		
Number of farms		309		62	·	62	
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 23,865.7 - - - - -	Value 4,228.74 202.01 31.00 362.66 53.47 -49.27 -16.31 72.56 4,885.65	Quantity 23,080.2 - - - - -	Value 4,045.97 233.67 24.83 354.06 46.80 -36.31 -6.77 61.24 4,724.24	Quantity 25,736.1 - - - - - -	Value 4,650.79 236.08 35.18 416.22 59.68 -25.22 -0.59 75.70 5,447.84	
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 Contract production exp. Fuel & oil Repairs Custom hire Hired labor Bedding Total direct expenses Return over direct expense	3,835.4 1,668.4 71.6 22,919.4 3,460.8 4,579.0 4,008.2	849.28 374.18 253.50 400.62 239.16 155.12 203.61 70.70 128.99 350.61 116.12 81.04 184.29 64.73 260.25 96.89 3,829.10 1,056.55	2,764.6 2,026.7 73.3 23,116.6 3,442.7 5,353.4 3,646.1	701.56 511.51 263.91 377.27 231.28 168.73 173.22 56.31 116.40 324.29 99.79 65.64 171.85 51.85 317.24 114.68 3,745.55 978.70	4,233.3 955.4 73.4 23,660.0 3,791.4 4,040.6 4,443.6	943.76 232.09 258.43 416.56 254.91 137.83 239.92 69.82 145.58 293.65 69.03 91.26 200.35 79.85 160.33 91.45 3,684.83 1,763.01	
Overhead Expenses  Hired labor Building leases Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		212.53 60.21 85.66 91.31 195.48 115.25 760.44 4,589.54 296.11		88.83 42.69 80.41 107.37 190.58 121.76 631.64 4,377.19 347.05		354.53 116.82 94.76 84.80 265.22 115.21 1,031.35 4,716.18 731.67	
Labor & management charge Net return over lbr & mgt		249.84 46.27		242.70 104.35		314.49 417.18	
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		15.92 19.08 16.47 17.51		16.08 18.79 16.01 17.06		14.23 18.21 15.24 16.46	
Est. labor hours per unit		48.26		45.57		46.52	
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 Avg. milk price per cwt. Milk price / feed margin		188.9 24,051 4,507,845 1,384,602 30.3 37.2 6.4 111.7 6.78 10.29 2,475.48 17.72 7.43		168.5 23,292 3,888,738 1,418,057 28.9 36.4 6.9 110.1 6.65 10.42 2,427.49 17.53 7.11		246.6 25,900 6,346,097 1,548,949 32.8 38.4 5.4 115.2 6.80 9.59 2,483.50 18.07 8.48	

# Dairy Replacement Heifers -- Average Per Head

	Avg. OfAII Farms		40 - 6	0%	High 20%		
Number of farms	;	346		69	·	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 0.5 0.0 0.0 0.6 0.0	Value 61.52 640.32 5.71 1.47 -28.18 -161.31 24.60 544.14	Quantity 0.1 0.4 0.0 0.0 0.0 0.6 0.0	Value 69.11 630.18 3.57 1.00 -0.16 -142.69 -2.00 559.00	Quantity 0.1 0.4 0.0 0.0 0.6 0.1	Value 67.19 763.60 11.60 2.50 -46.12 -155.26 88.86 732.37	
Direct Expenses Protein Vit Minerals (lb.) Milk Replacer (lb.) Milk (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Haylage, Alfalfa (lb.) DDGS, wet (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	500.1 10.4 138.9 321.3 4.9 4,231.1 807.8 671.0 1,017.0 356.8 1,191.9	73.32 13.32 22.03 61.00 16.94 72.84 52.12 29.42 32.00 16.35 33.56 16.14 16.69 20.77 106.63 12.45 26.82 24.09 18.49 664.97 -120.83	300.0 14.7 177.4 273.2 2.8 4,000.0 855.1 676.3 1,915.5 1,266.5 1,627.5	75.67 15.79 24.00 50.61 10.08 70.39 57.60 28.48 57.90 60.71 44.62 15.09 11.48 18.45 63.18 11.33 20.74 28.41 19.29 683.83 -124.83	227.5 9.5 188.5 519.4 5.2 2,831.9 611.9 512.4 582.4 226.6 1,526.6	49.25 11.54 33.95 72.73 18.61 47.96 38.76 21.87 20.03 7.02 26.83 14.42 17.29 16.71 31.91 12.08 28.99 9.31 14.54 493.81 238.56	
Overhead Expenses Hired labor Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		35.10 12.69 13.74 27.81 26.51 115.85 780.82 -236.68		35.05 10.28 13.92 25.69 23.33 108.26 792.09 -233.09		35.95 16.63 17.20 33.73 31.26 134.78 628.59 103.78	
Labor & management charge Net return over lbr & mgt		35.90 -272.58		29.82 -262.91		43.87 59.91	
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		2.25 2.57 2.57 2.67		2.26 2.55 2.55 2.64		1.62 1.99 1.99 2.11	
Est. labor hours per unit		7.05		6.47		6.55	
Other Information No. purchased or trans in Number sold or trans out Average number of head Percentage death loss Feed cost per average head Feed cost/head sold/trans Total cost/head sold/trans Feed cost per head per day		108 95 171 7.5 422.90 764.20 1,760.81 1.16		123 109 212 6.5 495.85 962.41 1,867.54 1.36		89 78 147 5.7 348.56 652.54 1,443.16 0.95	

# Dairy Feeder -- Average Per Cwt. Produced

	Avg. OfAll Farms		40 - 60	0%	High 20%		
Number of farms		26		5		6	
Dairy Feeder sold (lb) Transferred out (lb) Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 132.41 1.88 -36.29 -9.82 11.17	Value 246.02 2.49 0.74 -125.47 -19.24 3.11 107.96	Quantity 125.66 - -3.13 -28.00 5.47	Value 251.85 - - -12.06 -83.63 4.39 160.54	Quantity 99.82 - -1.45 -27.30 28.13	Value 181.89 0.91 -0.82 -28.97 18.86 171.88	
Direct Expenses Protein Vit Minerals (lb.) Milk Replacer (lb.) Milk (lb.) Creep / Starter (lb.) Complete Ration (lb.) Corn (bu.) Hay, Alfalfa (lb.) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Bedding Total direct expenses Return over direct expense	93.30 3.74 13.85 23.47 45.67 6.62 37.34 103.72	16.60 3.56 2.21 3.75 8.07 22.81 2.75 3.19 6.21 3.92 1.33 1.93 4.07 80.39 27.57	13.00 3.78 97.99 247.52 1.62 75.63 111.01	3.44 5.10 16.26 53.21 5.59 5.67 3.31 7.94 2.07 0.93 2.16 8.02 113.70 46.84	32.72 0.31 - 18.16 19.86 9.99 77.46 71.76	7.60 0.34 5.45 3.18 34.84 6.50 2.30 0.96 1.70 1.37 1.93 2.14 68.32	
Overhead Expenses Hired labor Building leases RE & pers. property taxes Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		2.70 0.46 1.30 1.04 1.35 1.58 3.93 1.40 13.77 94.16 13.79		1.73 1.42 0.15 0.47 1.33 1.46 2.32 0.40 9.29 122.99 37.55		8.01 1.51 0.20 0.56 0.58 1.12 1.51 2.06 15.55 83.87 88.01	
Labor & management charge Net return over lbr & mgt		5.74 8.05		2.46 35.10		2.27 85.75	
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		164.77 175.03 175.03 179.30		163.15 170.54 170.54 172.49		78.47 94.05 94.05 96.32	
Est. labor hours per unit		0.79		0.57		0.83	
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 Avg wgt / Dairy Feeder sold Avg sales price / cwt.		65 149 11.2 2.03 5.40 6.53 62.93 207.57 507 185.81		51 46 3.7 1.62 3.59 5.99 92.58 268.16 433 200.42		161 135 3.1 1.99 6.38 7.49 60.21 290.45 435 182.22	

# Dairy Finishing -- Average Per Cwt. Produced

	Avg. OfAll Farms		40 - 60	0%	High 20%		
Number of farms	,	102		21		21	
Dairy Finish sold (lb) Transferred out (lb) Cull sales (lb) Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 117.43 0.13 0.09 -28.35 -2.06 11.46	Value 159.12 0.18 0.22 2.14 -65.02 -4.60 -3.84 88.19	Quantity 117.88 0.08 - - -39.89 -0.65 21.41	Value 160.27 0.10 - 2.68 -90.74 -1.40 13.78 84.69	Quantity 94.37 - 0.77 -4.45 -5.58 13.84	Value 128.32 1.75 1.332 -12.14 13.60 119.55	
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) Hay, Grass (lb.) DDGS, dry (lb.) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Hauling and trucking Bedding Operating interest Total direct expenses Return over direct expense	58.96 77.02 9.66 183.51 29.53 33.55 125.59	12.40 7.11 32.72 3.19 1.17 2.21 4.47 2.34 3.63 1.48 2.50 1.14 1.45 1.85 77.67	45.62 97.52 9.19 239.83 30.77 34.53 155.55	11.21 5.17 30.90 4.52 1.30 2.12 3.44 2.05 1.96 1.77 3.04 1.17 0.89 3.02 72.56 12.13	78.78 47.18 9.27 87.28 51.30 - 73.90	9.66 5.74 31.42 1.57 2.29 4.57 1.30 3.51 0.98 2.78 0.73 1.36 0.08 66.00 53.55	
Overhead Expenses  Hired labor Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		1.39 1.24 1.03 2.09 3.63 2.31 11.68 89.34 -1.16		0.57 1.49 0.83 3.73 4.23 1.55 12.40 84.95 -0.27		2.37 1.07 1.38 2.42 2.95 1.38 11.57 77.57 41.99	
Labor & management charge Net return over lbr & mgt		4.84 -6.00		5.06 -5.33		4.72 37.26	
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		126.87 136.81 136.50 140.61		126.40 136.91 136.18 140.47		79.23 91.48 91.48 96.49	
Est. labor hours per unit		0.48		0.40		0.60	
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 Average purchase weight Avg wgt / Dairy Finish sold Avg purch price / head Avg sales price / cwt.		174 146 2.7 2.57 7.89 9.15 63.28 681.52 362 1,433 829.28 135.50		304 243 1.9 2.88 8.26 9.57 58.66 595.81 400 1,438 910.93 135.96		100 71 3.0 2.51 6.50 7.88 55.24 661.87 128 1,418 381.92 135.98	

# Beef Finishing -- Average Per Cwt. Produced

	Avg. ( All Far	Of ms	40 - 6	0%	High 20%		
Number of farms		60		12	_	12	
Finish Beef sold (lb) Transferred out (lb) Cull sales (lb) Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 193.29 0.55 0.10 -81.86 -6.58 -6.79	Value 286.56 1.27 0.18 2.72 -178.72 -12.31 -57.53 42.16	Quantity 216.60 1.30 - -84.82 -4.03 -29.94	Value 326.22 1.63 - 5.31 -158.64 -7.66 -134.04 32.82	Quantity 151.76 0.86 - - -36.63 -30.66 13.16	Value 225.03 5.30 - 3.16 -76.08 -57.68 0.10 99.82	
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) Corn, Ear (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) DDGS, dry (lb.) DDGS, wet (lb.) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Hired labor Hauling and trucking Operating interest Total direct expenses Return over direct expense	32.95 12.61 7.75 412.76 26.05 26.20 51.33 72.04 80.88 63.03	7.63 0.95 26.09 6.36 1.32 1.43 1.98 4.48 1.98 2.20 2.06 4.06 1.87 3.49 0.70 0.93 2.67 70.21 -28.04	22.26 0.33 5.84 810.59 41.02 33.09 13.93 148.92 75.41 28.61	7.04 0.20 19.26 11.41 2.34 1.60 0.62 9.90 2.83 1.04 1.06 1.88 1.91 6.89 0.19 3.22 2.44 73.84 -41.02	30.38 38.66 9.08 362.01 5.80 31.90 97.65 28.33	5.89 4.46 31.43 5.81 0.23 1.66 3.50 1.42 1.91 1.30 4.54 1.37 2.26 1.46 0.32 1.12 68.69 31.14	
Overhead Expenses Hired labor Farm insurance Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return Labor & management charge		2.83 1.50 1.15 6.19 2.51 14.19 84.40 -42.23		0.74 1.41 1.66 8.30 2.67 14.79 88.62 -55.81		0.01 1.66 1.00 3.07 1.71 7.45 76.13 23.69	
Net return over lbr & mgt  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		-47.82 163.42 170.74 170.27 173.15		-61.38 171.23 178.02 176.06 178.62		17.97 131.16 136.04 135.39 139.14	
Est. labor hours per unit		0.51		0.39		0.79	
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 Average purchase weight Avg wgt / Finish Beef sold Avg purch price / cwt. Avg sales price / cwt.		221 231 1.0 2.49 6.79 9.15 54.42 373.10 690 1,413 218.32 148.25		175 233 1.2 2.03 6.22 9.55 56.25 278.01 714 1,296 187.03 150.61		154 131 1.0 2.00 6.28 9.33 56.32 446.47 527 1,390 207.73 148.28	

# Beef Cow-Calf -- Average Per Cow

	Avg. C All Fari		40 - 6	0%	High 20%		
Number of farms		113		22	23		
Beef Calves sold (lb) Transferred out (lb) Cull sales (lb) Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 198.7 234.0 56.9 -21.3 -34.6 52.8	Value 410.23 449.10 146.47 7.84 -231.89 -71.36 153.57 863.96	Quantity 182.8 229.8 22.0 -0.6 -9.5 -1.8	Value 381.47 425.32 114.72 6.32 -241.47 -77.44 198.46 807.37	Quantity 258.1 279.8 81.5 -2.0 -66.3 -20.1	Value 494.89 638.44 216.61 3.50 -392.40 -89.83 265.17 1,136.38	
Direct Expenses  Beet Pulp (dry) (lb.)  Protein Vit Minerals (lb.)  Corn (bu.)  Corn Silage (lb.)  Hay, Alfalfa (lb.)  Hay, Grass (lb.)  Pasture (aum)  Other feed stuffs (lb)  Veterinary  Supplies  Fuel & oil  Repairs  Custom hire  Operating interest  Total direct expenses  Return over direct expense	523.7 256.3 2.8 4,796.4 1,075.8 3,664.9 4.6 1,527.8	5.78 49.19 9.39 79.18 58.41 139.05 56.44 41.45 30.05 44.71 25.91 43.65 5.67 11.05 599.93 264.03	207.2 198.1 0.3 5,661.6 730.6 2,941.8 7.0 2,202.1	3.63 42.14 1.05 92.53 41.02 115.16 78.05 53.46 30.13 42.49 25.90 40.34 3.14 16.21 585.25 222.12	1,530.5 141.1 5.3 2,449.3 1,245.5 3,031.0 3.6 1,306.9	15.77 37.53 17.89 45.45 70.18 96.12 44.61 38.93 33.40 53.22 26.10 34.95 10.41 12.11 536.66 599.71	
Overhead Expenses  Hired labor Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		9.72 14.54 13.31 6.87 28.51 52.78 21.06 146.80 746.72 117.23		9.35 17.05 14.85 4.54 40.92 43.98 18.02 148.71 733.96 73.41		7.27 11.18 7.78 9.86 19.61 46.01 31.37 133.08 669.74 466.64	
Labor & management charge Net return over lbr & mgt		96.88 20.35		79.76 -6.35		105.88 360.75	
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		122.04 151.90 141.64 161.34		138.09 173.18 165.25 184.06		100.62 125.57 92.83 112.68	
Est. labor hours per unit		9.46		9.30		9.72	
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.		69.9 96.1 2.4 10.5 93.8 89.9 0.80 4.5 2.0 296.1 510 459 438.89 573 206.46		107.5 97.6 2.6 9.0 95.0 90.7 0.76 5.3 2.3 301.2 534 445 427.04 554 208.66		76.4 96.2 1.4 14.1 94.9 92.3 1.01 2.4 1.6 288.2 474 438 366.48 591 191.74	

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

# Beef Cow-Calf -- Average Per Cow

	Up to	)	50 100		100 200		200 500	
Number of farms	5	7	32		17		7	
Beef Calves sold (lb) Transferred out (lb) Cull sales (lb) Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 179.8 199.2 57.3 -29.4 -29.2 132.7	Value 363.71 385.76 133.42 11.07 -185.14 -114.33 226.68 821.17	Quantity 252.5 186.5 39.8 -9.0 -7.2 57.3	Value 538.23 343.07 93.82 7.20 -81.67 -18.59 -71.53 810.54	Quantity 153.7 278.8 107.9 -5.5 -47.1 51.1	Value 336.57 492.02 126.99 10.59 -218.60 -109.27 245.17 883.48	Quantity 198.2 263.7 22.4 -46.3 -55.8 -4.2	Value 374.96 565.82 234.92 3.51 -446.21 -61.98 261.27 932.28
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) Straw (lb.) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Bedding Operating interest Total direct expenses Return over direct expense	302.2 60.4 5.6 3,833.3 2,308.0 4,077.7 2.5 201.2 818.7	64.30 8.48 18.91 60.00 111.60 152.92 34.06 2.49 24.79 33.39 46.47 29.02 52.28 7.74 8.93 655.37 165.79	240.5 169.7 1.9 3,969.1 1,356.9 4,279.5 3.0 259.8 2,040.4	48.07 17.04 5.91 65.74 76.15 145.33 51.55 2.60 20.50 25.87 47.70 27.34 51.77 1.71 5.11 592.39 218.15	358.8 0.5 2.5 6,304.7 1,010.2 2,762.9 6.3 38.0 2,030.9	61.36 0.09 8.11 102.19 60.98 99.29 52.82 1.03 49.19 34.79 45.03 20.52 29.95 11.73 11.89 588.96 294.52	135.6 2.4 4,789.8 - 3,643.8 5.9 608.6 1,606.7	27.50 8.25 83.01 164.44 80.78 15.79 43.87 27.51 41.97 27.86 43.11 0.24 18.29 582.63 349.65
Overhead Expenses  Hired labor RE & pers. property taxes Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		6.49 12.31 17.73 22.23 38.25 61.60 33.53 192.14 847.51 -26.34		10.52 11.35 16.06 10.19 25.17 54.22 15.45 142.97 735.36 75.18		11.64 3.90 12.41 17.51 12.15 26.71 24.40 108.72 697.68 185.80		8.96 3.49 12.92 6.42 42.91 72.63 13.29 160.61 743.24 189.04
Labor & management charge Net return over lbr & mgt		137.27 -163.61		102.12 -26.94		62.82 122.98		99.61 89.44
Cost of Production Per Cwt. Production Per Lotal direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management	ced	126.35 163.39 155.61 182.07		113.06 140.34 137.17 156.66		107.63 127.49 128.82 140.30		153.93 196.37 155.18 181.49
Est. labor hours per unit		13.18		8.97		7.77		9.27
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.		24.2 94.6 2.1 10.5 92.6 88.7 0.72 4.9 2.8 212.5 512 454 477.54 516 202.34		72.2 95.7 3.1 6.7 92.8 88.1 0.78 5.2 2.2 312.0 523 461 432.90 602 213.19		126.9 96.0 1.8 9.4 94.3 91.5 0.77 4.0 2.0 360.6 510 466 435.06 550 218.92		293.4 97.6 2.3 16.1 95.4 91.2 0.91 4.0 1.3 302.0 496 453 423.64 590 189.18

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

	Avg. OfAll Farms		40 - 60	0%	High 20%	
Number of farms		29		6	-	6
Finish Hogs sold (lb) Transferred out (lb) Cull sales (lb) Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 135.47 0.00 0.24 -19.54 -4.86 0.91	Value 74.27 0.00 0.10 2.16 -25.34 -4.84 -2.98 43.37	Quantity 134.57 0.00 - -13.18 -13.64 11.42	Value 69.93 0.00 - 2.13 -16.80 -11.47 -0.88 42.91	Quantity 135.06 - - - -20.78 - 0.54	Value 79.05 - 0.02 -28.18 - 0.09 50.99
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) Other feed stuffs (lb) Veterinary Supplies Contract production exp. Fuel & oil Repairs Custom hire Hired labor Livestock leases Utilities Hauling and trucking Operating interest Total direct expenses Return over direct expense	47.16 158.78 2.18 3.58	7.29 16.45 7.95 0.30 0.72 0.72 0.78 0.39 0.65 0.58 0.59 0.40 0.24 0.51 0.75 38.33 5.04	34.27 206.80 1.75 3.24	6.53 21.36 6.40 0.30 1.29 1.26 - 0.14 0.46 0.16 0.25 - 0.12 1.23 0.63 40.14 2.77	52.44 98.03 2.60 7.65	10.57 9.52 9.46 0.57 0.28 0.88 - 0.42 1.06 0.69 0.24 - 0.40 0.66 1.07 35.84 15.15
Overhead Expenses Hired labor Building leases Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		0.36 2.21 0.46 0.37 0.41 1.12 0.54 5.47 43.80 -0.43		0.58 2.88 0.79 0.76 0.18 0.65 0.36 6.20 46.34 -3.44		0.39 2.09 0.40 0.26 1.04 2.30 0.70 7.17 43.01 7.98
Labor & management charge Net return over lbr & mgt		1.69 -2.12		1.96 -5.40		2.39 5.58
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		71.36 76.83 74.70 76.39		69.28 75.49 73.37 75.33		63.90 71.08 71.08 73.47
Est. labor hours per unit		0.13		0.11		0.11
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 Average purchase weight Avg wgt / Finish Hogs sold Avg purch price / head Avg sales price / cwt. Average price / cwt. carcass		9,930 9,544 2.8 1 1.71 2.95 28.49 67.00 46 272 59.36 54.82 203 73.67		9,762 8,605 2.5 1 1.76 2.87 29.02 68.89 42 282 53.89 51.96 212 69.22		9,015 8,672 3.1 1.84 2.64 26.23 64.19 42 281 56.40 58.53 211 78.04

# Hogs, Weaning to Finish -- Average Per Head

	Avg. Of AII Farms 35		40 - 60	0%	High 20%7	
Number of farms				7		
Wean-Fin Pig sold (lb) Transferred out (lb) Cull sales (lb) Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 282.7 0.6 1.4 -17.2 -0.8 -3.9	Value 155.23 0.47 0.40 7.76 -44.29 -2.24 -13.38 103.99	Quantity 276.9 0.4 - -13.2 -1.1 -6.8	Value 148.81 0.36 - 9.22 -43.18 -3.19 -15.27 96.75	Quantity 289.3 1.0 2.7 -22.4 -0.3 -6.2	Value 165.20 0.94 0.74 10.33 -46.35 -0.91 -2.85 127.10
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) DDGS, dry (lb.) Other feed stuffs (lb) Veterinary Supplies Contract production exp. Repairs Custom hire Hired labor Livestock leases Utilities Hauling and trucking Marketing Total direct expenses Return over direct expense	135.4 137.8 7.1 35.1 4.3	26.14 16.95 25.53 2.53 2.05 3.35 2.32 4.92 1.47 1.84 1.01 0.96 0.42 1.16 0.69 91.35 12.64	156.0 17.2 8.4 7.0	32.95 6.98 31.13 - 0.51 2.42 2.79 1.57 1.62 0.37 1.09 1.29 0.95 0.53 1.10 85.29 11.46	166.4 196.4 5.4 85.2 0.3	22.78 21.92 19.87 6.22 0.21 3.93 2.04 6.97 1.25 2.58 1.48 - 0.37 1.45 0.52 91.60 35.50
Overhead Expenses Hired labor Building leases Farm insurance Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		1.45 6.10 0.83 0.45 0.77 2.11 1.28 12.98 104.34 -0.35		0.05 9.34 0.87 0.17 0.88 1.48 0.44 13.23 98.52 -1.77		1.03 4.61 0.59 0.97 0.83 1.63 1.81 11.47 103.07 24.03
Labor & management charge Net return over lbr & mgt		3.06 -3.41		5.92 -7.69		1.99 22.05
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		72.07 78.27 74.60 76.06		71.60 78.05 73.57 76.46		65.68 71.02 66.21 67.14
Est. labor hours per unit		0.24		0.20		0.27
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 Average purchase weight Avg wgt / Wean-Fin Pig sold Avg purch price / head Avg sales price / cwt. Average carcass weight Average price / cwt. carcass		16,502 15,997 4.1 2 1.42 2.73 27.83 73.20 17 270 42.78 54.90 203 73.69		15,137 14,663 5.0 2 1.57 2.54 27.93 71.56 13 269 43.73 53.74 203 71.82		21,815 21,136 4.2 1 1.42 2.84 26.88 71.00 20 264 40.53 57.11 198 76.61

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

	2011	2012	2012	2014	2015	Total Dir&Ovhd Expense
Alfalfa Hay	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	TOTAL DILGOVIIU EXPENSE
Yield per Acre	3.6	3.3	3.3	4.0	3.9	
Value per Ton	\$89.32	\$131.79	\$153.38	\$176.49	\$153.84	\$400
Fuel, Oil, Repairs per Acre	\$83.79	\$95.25	\$91.09	\$170.49	\$83.10	\$300 302 302 380 329
Total Dir & Ovhd Exp per Acre	\$247.68	\$302.02	\$302.28	\$379.84	\$329.25	\$200 + 248   302   302
Net Return per Acre	\$74.89	\$150.49	\$218.54	\$337.71	\$292.23	\$100 +
Total Direct Expenses per Ton	\$37.68	\$50.72	\$51.79	\$48.66	\$42.09	\$0
Total Direct Expenses per Ton	\$69.17	\$91.87	\$91.64	\$94.13	\$84.09	2011 2012 2013 2014 2015
	+	Ţ <b>.</b> .	Ţ <b>.</b>	Ţ <b>y</b>	Ţ <b></b>	
Corn						
Yield per Acre	121.7	128.9	108.5	118.8	164.2	\$800 —
Value per Bushel	\$5.72	\$6.49	\$4.02	\$3.42	\$3.30	\$600
Fuel, Oil, Repairs per Acre	\$87.13	\$88.45	\$88.78	\$87.92	\$80.80	\$400 466 531 554 582 563
Total Dir & Ovhd Exp per Acre	\$465.97	\$530.74	\$553.77	\$581.67	\$562.75	\$200
Net Return per Acre	\$248.53	\$320.53	-\$44.10	-\$75.40	-\$0.05	\$0
Total Direct Expenses per Bu.	\$2.77	\$2.97	\$3.71	\$3.43	\$2.40	2011 2012 2013 2014 2015
Total Dir & Ovhd Exp per Bushel	\$3.83	\$3.91	\$5.11	\$4.90	\$3.43	
Corn Silage						
Yield per Acre	15.2	15.1	11.7	14.3	19.5	ÉROO
Value per Ton	\$39.05	\$50.65	\$40.01	\$35.05	\$34.46	\$800
Fuel, Oil, Repairs per Acre	\$98.93	\$103.50	\$100.48	\$122.88	\$93.91	\$600
Total Dir & Ovhd Exp per Acre	\$458.64	\$495.91	\$504.52	\$576.47	\$554.58	\$400 + 459   496   505
Net Return per Acre	\$157.19	\$285.57	\$155.90	\$9.68	\$120.30	\$200 +
Total Direct Expenses per Ton	\$21.60	\$22.91	\$31.22	\$27.70	\$19.47	\$0 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Total Dir & Ovhd Exp per Ton	\$30.09	\$32.86	\$43.05	\$40.28	\$28.43	2011 2012 2013 2017 2013
Soybeans	24.5	27.0	22.4	22.0	20.4	
Yield per Acre	31.5	37.8	33.4	33.0	38.1	\$300
Value per Bushel	\$11.41	\$13.87	\$12.52	\$9.73	\$8.33	\$280 285 289 289 288
Fuel, Oil, Repairs per Acre	\$49.03 \$250.44	\$49.01 \$285.21	\$45.26 \$288.53	\$46.04 \$280.37	\$38.24	Q233   203   203   1
Total Dir & Ovhd Exp per Acre Net Return per Acre	\$259.44 \$112.02	\$285.21 \$243.72	\$288.53 \$139.81	\$289.37 \$52.87	\$288.14 \$43.58	\$260
·	\$112.02	\$243.72 \$5.15	\$139.81	\$52.87 \$5.81	\$43.58 \$4.94	\$240
Total Direct Expenses per Bu. Total Dir & Ovhd Exp per Bushel	\$5.53 \$8.23	\$5.15 \$7.55	\$5.76 \$8.65	\$8.76	\$4.94 \$7.57	2011 2012 2013 2014 2015
	ψ0.20	Ψ1.00	ψ0.00	ψ0.70	Ψ1.01	
Spring Wheat						
Yield per Acre	48.0	60.8	66.5	60.2	66.0	\$340
Value per Bushel	\$7.99	\$8.30	\$6.24	\$5.62	\$4.96	
Fuel, Oil, Repairs per Acre	\$44.65	\$50.14	\$44.21	\$43.17	\$38.15	\$320 328 329 320
Total Dir & Ovhd Exp per Acre	\$301.89	\$328.49	\$329.01	\$320.40	\$299.33	\$300 302
Net Return per Acre	\$97.69	\$182.39	\$95.54	\$32.83	\$40.40	\$280
Total Direct Expenses per Bu.	\$4.63	\$4.01	\$3.56	\$3.77	\$3.19	2011 2012 2013 2014 2015
Total Dir & Ovhd Exp per Bushel	\$6.29	\$5.40	\$4.95	\$5.32	\$4.54	
Beef Cow Calf						
Price Recv'd/Cwt Calf Sold	\$132.13	\$146.91	\$152.83	\$212.33	\$206.46	\$1,000
Total Feed Cost/Cow	\$388.03	\$445.53	\$479.03	\$508.48	\$438.89	712 741 844 747
Return over Feed/Cow	\$380.97	\$354.44	\$298.68	\$786.66	\$425.07	\$500 - 641 - 712 - 741 - 741 - 741
Net Return/Cow	\$127.61	\$88.27	\$36.61	\$451.63	\$117.23	
Total Direct & Ovhd Expenses	\$641.39	\$711.70	\$741.10	\$843.51	\$746.72	\$0
·	Ţ	Ţ <b> 3</b>	Ţ <b>.</b>	Ţ = . <b>0.0</b> 1	Ţ <b>V Z</b>	2011 2012 2013 2014 2015
Dairy Cows						
Production/Cow	22,343	22,774	23,087	23,765	24,034	\$20
Price Recv'd/Cwt Milk	\$19.84	\$19.47	\$20.20	\$24.36	\$17.75	\$18
Total Feed Cost/Cwt Milk	\$8.82	\$10.19	\$10.37	\$10.22	\$8.77	17 18
Return over Feed/Cwt Milk	\$9.79	\$8.53	\$8.69	\$13.42	\$8.65	\$16 16 16
Net Return/Cwt Milk	\$2.35	\$1.27	\$1.24	\$5.26	\$1.20	\$14
Total Direct & Ovhd Expenses	\$16.27	\$17.44	\$17.81	\$18.38	\$16.22	2011 2012 2013 2014 2015

# Minnesota 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

# MnSCU and Participating College Websites:

State FBM Website: fbm.mnscu.edu

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: <a href="sctcc.edu">sctcc.edu</a>



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Website: centerofagriculture.org

# MyFarm Financial Scorecard

Year:	,		Name:	
Liquidity	This Year	5-Year Ave	Strong	Vulnerable
Current ratio			1.7	1.1
Working capital				
Working cap to gross revenue			25%	10%
Solvency (market)	Note: These solven	cy ratios include defer	red liabilities	
Farm debt/asset ratio			30%	60%
			70%	40%
Farm equity/asset ratio			0.43	1.50
Farm debt/equity ratio			0.43	1.50
Profitability (Cost)				
Rate of return on farm assets			8%	4%
rate of retain on farm assets			10%	3%
Rate of return on farm equity			250/	150/
Operating profit margin			25%	15%
Net farm income				
EBITDA				
Repayment Capacity (Accrual)				
Capital debt repay capacity				
Capital debt repay margin				
Replacement margin			4.50	4.00
Term-debt coverage ratio			1.50	1.20
Replacement margin ratio			1.40	1.10
Financial Efficiency				
Asset-turnover rate (market)			45%	30%
			60%	80%
Operating-expense ratio			50/	159/
Depreciation-expense ratio			5%	15%
Interest-expense ratio			5%	10%
			20%	10%
Net farm income ratio				