









Farm Business Management

Northern Minnesota 2018 ANNUAL REPORT



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

A MEMBER OF THE MINNESOTA STATE SYSTEM

Northern Minnesota Annual Report Instructors and Locations



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2018 Annual Report - Executive Summary

The 2018 farm year can best be described as another year with a wide variety in earnings and production. Some areas were able to have excellent yields for another year while other areas had production issues that greatly reduced expected production. Profits were down for each of Minnesota's major types of livestock operations: dairy, pork and beef. In 2018, the median producer earned only \$25,857 from farm operations for the year. Hog producers went from a fairly profitable year in 2017 to another negative return year in 2018 for many operations. Dairy and beef producer's profits remained at low levels by historical standards. For dairy farms, the average price received for their milk was down by over a dollar per cwt. compared to what was received in 2017.

In 2018, Average Net Farm Income for the 615 farms in the Northern Minnesota database was \$59,306. This was up from

Financial Factors	2014	2015	2016	2017	2018
Average Net Farm Income	\$114,095	\$37,182	\$59,480	\$54,021	\$59,306
Median Net Farm Income	\$46,104	\$23,730	\$25,654	\$23,489	\$25,857

the \$54,021 reported in 2017 and nearly the same as the 2016 amount of

\$59,480. Median Net Farm Income was up slightly increasing to \$25,857 in 2018, compared to \$23,489 in 2017. The increase in the yields of both corn and soybeans along with a strong Market Facilitation Program payments on soybeans caused the average Northern Minnesota farm profits to increase slightly. The MFP program on soybeans provided around \$65 per acre assistance to help the lower market prices, without that payment the net return per acre would only slightly be above the 2017 net return which was the lowest net return on soybeans in the past 5 years.

Some key financial measures showed a slight increase compared to 2017. Working Capital increased to \$140,409 at the end of 2018 compared to \$135,504 at the end of 2017; an increase of 3.6%. 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

Financial Factors	2014	2015	2016	2017	2018
Working Capital	\$171,051	\$138,627	\$145,543	\$135,504	\$140,409
Working Capital as % of Gross	25.4%	24.7%	25.1%	23.6%	22.9%
Term Debt Coverage Ratio	1.75	0.88	1.22	1.18	1.27
Operating Expense Ratio	73.1%	81.4%	77.1%	77.5%	77.9%

how long farms can handle the lower commodity prices with the current cost of farm inputs.

Term Debt Coverage Ratio is a key financial measure that agricultural lenders consider in loan decisions. The 2018 Northern Minnesota average was 1.27 compared to 1.18 in 2017. In 2018, the median Term Debt Coverage Ratio was 0.96 which means over one half of the farms in this report had less than a 1.00. Those farms needed to use their Working Capital to help make all their scheduled payments on intermediate, long-term and personal loans. Working Capital was used to offset the shortage of income in those operations in 2018. While Term Debt Coverage Ratio and Working Capital were modest increases in 2018, total debt to asset ratio increased by 2%, one cause of increased debt to asset ratio can be attributed to farmers restructuring current debt to intermediate or long term debt, so while current debt to asset decrease in 2018, total debt to asset increased.

With modest profitability in 2018, the Operating Expense Ratio came in at 77.9 %; which is in the high end of acceptable range based on the financial scorecard on the back cover of this report. 80% is the start of the red zone area for the Operating Expense Ratio. This ratio indicates that for every dollar of farm revenue produced in 2018, it took 77.9 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. The Northern Minnesota farms ended the 2017 year at 77.5%, compared to 77.1% in 2016.

Trend information for the 2014-2018 Financial Summary can be found on page 4 of this report. A quick look at 2018 can be found on page 5, Year at a Glance. The impact of spending on the farm economy of Northern Minnesota by the average farmer in this report can be found on page 8.

2018 Annual Report - Executive Summary

The two major livestock enterprises in Northern Minnesota are Dairy and Beef Cow-Calf operations. On a statewide basis, the Dairy Cow enterprise generated a Net Return/cow of only -\$38.21 in 2018, which is the lowest return in the last

5 years and first negative net return in that same time frame. This is a decrease of \$381 per cow from 2017. This decrease in profit is tied directly to the lower yearly

Statewide FBM Data	Dairy (Excluding Organic & Organic Transition)								
Statewide FBIVI Data	2014	2015	2016	2017	2018				
Gross Margin	\$5,618	\$4,187	\$3,767	\$4,123	\$3,667				
Feed Cost / Cow	\$2,430	\$2,108	\$1,899	\$1,937	\$1,933				
Dir & Ovhd Expense/Cow	\$4,369	\$3,897	\$3,659	\$3,780	\$3,705				
Net Return / Cow	\$1,249	\$289	\$109	\$343	(\$38)				
Average Milk Price	\$24.36	\$17.75	\$16.33	\$17.72	\$16.44				
Cost of Prod w Lab&Mgmt/Cwt	\$20.00	\$17.42	\$16.65	\$17.08	\$17.29				

average price received for milk, which decreased to \$16.44 per cwt compared to \$17.72 per cwt in 2017 as well as the first decrease in milk production per cow in the last ten years.

Beef Cow/Calf enterprises showed a Net Return per cow of -\$54.31. 2017 showed a Net Return of -\$19 per cow, while

Statewide FBM Data	Beef Cow-Calf							
Statewide Folvi Data	2014	2015	2016	2017	2018			
Gross Margin	\$1,295	\$864	\$633	\$698	\$692			
Feed Cost / Cow	\$508	\$439	\$413	\$395	\$423			
Dir & Ovhd Expense/Cow	\$844	\$747	\$718	\$717	\$746			
Net Return / Cow	\$452	\$117	(\$84)	(\$19)	(\$54)			
Ave Price per CWT calf sold	\$212.33	\$206.46	\$156.00	\$147.00	\$152.00			

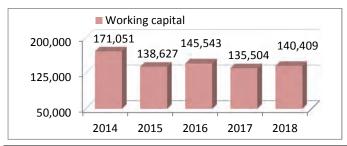
2016 had a Net Return of -\$84. Feed costs were higher in 2018 for Beef Cow/Calf producers which led to a lower net return when combined with the smaller gross margin per cow.

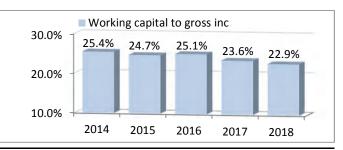
2018 was another interesting year for various crop yields in Minnesota. Some isolated areas experienced weather challenges that lowered yields in those areas, but some farms produced excellent crops. The average yield per acre for the northern half of Minnesota was 175 bushels for corn, 40 bushels for soybeans, and 60 bushels for wheat. Net returns increased in both soybeans and corn enterprises; while wheat enterprises showed a net return per acre of -\$1.80, the lowest in 5 years. Total direct and overhead expense for the crops listed below showed a slight increase, due in part to the increased cost of direct crop inputs. The chart below displays the 5-year history of selected factors for these crops.

				Gross	Dir & Ovhd		Dir & Ovhd
Rente	Rented Land		Value per	Revenue	Expense	Net Return	Expense
		Acre	Unit	/Acre	/Acre	/Acre	/Unit
	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
Corn	2016	178.4	\$3.01	\$547.14	\$563.62	(\$16.48)	\$3.16
	2017	159.4	\$3.06	\$510.64	\$575.37	(\$64.73)	\$3.62
	2018	174.9	\$3.29	\$591.86	\$600.68	(\$8.82)	\$3.43
	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
Soybeans	2016	46.4	\$9.24	\$434.78	\$316.46	\$118.32	\$6.83
	2017	33.9	\$9.09	\$332.97	\$329.60	\$3.36	\$9.72
	2018	39.9	\$8.44	\$417.24	\$342.97	\$74.27	\$8.60
	2014	62.4	\$5.56	\$361.53	\$351.33	\$10.20	\$5.63
Conto	2015	66.3	\$5.02	\$346.93	\$330.46	\$16.47	\$4.99
Spring	2016	64.2	\$4.90	\$321.18	\$318.65	\$2.54	\$4.97
Wheat	2017	70.5	\$5.91	\$427.38	\$324.29	\$103.10	\$4.60
	2018	59.6	\$5.53	\$355.89	\$338.44	(\$1.08)	\$5.68

Financial Trend Summary Northern Minnesota Farm Business Management Data

	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	2018
Income Statement					
Gross Cash Farm Income	658,798	551,703	557,016	562,001	585,946
Total Cash Farm Expense	522,485	469,847	473,748	470,535	505,816
Net Cash Farm Income	136,314	81,857	83,268	91,466	80,130
Inventory change	18,383	-5,368	20,084	7,106	21,774
Depreciation	-40,880	-40,070	-44,472	-44,668	-42,395
Net Farm Income From Operations	113,816	36,419	58,880	53,905	59,509
Gain or loss on capital sales	279	763	601	116	-202
Average Net Farm Income	114,095	37,182	59,480	54,021	59,306
Median Net Farm Income	46,104	23,730	25,654	23,489	25,857
Profitability (Cost)					
Rate of Return on Assets	6.4%	1.4%	2.7%	2.5%	3.1%
Rate of Return on Equity	8.3%	-0.9%	1.6%	1.2%	2.0%
Operating Profit Margin	17.8%	4.7%	9.2%	8.4%	10.0%
Asset Turnover Rate	36.2%	29.8%	29.6%	30.1%	30.6%
Liquidity & Repayment (end of year)					
Current Assets	379,735	362,417	395,719	372,786	413,286
Current Liabilities	208,684	223,790	250,175	237,282	272,877
Current Ratio	1.82	1.62	1.58	1.57	1.51
Working capital	171,051	138,627	145,543	135,504	140,409
Change in working capital	, -	, -	, -	, -	5,184
Working capital to gross inc	25.4%	24.7%	25.1%	23.6%	22.9%
Term Debt Coverage Ratio	1.75	0.88	1.22	1.18	1.27
Replacement coverage ratio	1.50	0.76	1.01	0.96	1.02
Term debt to EBITDA	2.45	4.33	3.63	3.85	3.80
Solvency (Market)					
Number of Farms	566	588	615	622	615
Total Assets	2,032,113	2,003,026	1,842,910	1,837,006	2,267,883
Total Liabilities	883,164	895,016	803,433	794,024	1,026,167
Net Worth	1,148,949	1,108,011	1,039,477	1,042,982	1,241,716
Net Worth Change	111,833	30,645	43,243	38,476	48,792
Farm Debt to Asset Ratio	44%	47%	46%	46%	48%
Total Debt to Asset Ratio	43%	45%	44%	43%	45%
Change in total net worth %	11%	3%	4%	4%	4%
Nonfarm Information					
Net Nonfarm Income	25,050	28,964	27,427	28,846	31,318
Farms Reporting Liv Expenses	88	76	101	76	75
Total Family Living Expense	51,248	48,783	47,828	50,678	50,802
Total Living, Invest, & Cap Purch	69,840	74,687	59,233	65,631	63,149
•	·	•	•	·	,
Crop Acres Total Crop Acres	697	688	713	755	754
Total Crop Acres Owned	253	248	239	257	251
Total Crop Acres Cash Rented	432	428	466	492	497
Total Crop Acres Share Rent	12	12	8	492 6	497
Machinery value per crop acre	607	542	622	596	531
Machinery value per Crop acre	007	J4Z	UZZ	390	331





<u>Year at a Glance</u>	Northern	State FBM	Local	Your Farm	Your Farm
Data for the Average Farm	Minnesota	Data	Area	Data	Goal
Data for the fiverage farm			7 0		
	615	2209			
Income Statement	<u>Farms</u>	<u>Farms</u>			
Gross Cash Farm Income	\$585,946	\$734,201			
Total Cash Operating Expense	\$505,816	\$646,508			
Net Cash Farm Income	\$80,130	\$87,693			
Net Operating Profit	\$101,904	\$95,925			
Net Farm Income	\$59,306	\$49,068			
Median Farm Income	\$25,857	\$24,817			
Balance Sheet (Market)	φ25,657	Φ24,017			
	¢2 267 002	\$2,007,260			
Total Liebilities 42/24	\$2,267,883	\$2,897,360			
Total Liabilities - 12/31	\$1,026,167	\$1,265,455			
Net Worth - 12/31	\$1,241,716	\$1,631,905			
Change in Net Worth	\$48,792	\$39,220			
<u>Financial Standards Measures</u>					
Working Capital - 12/31	\$140,409	\$180,805			
Debt to Asset Ratio - 12/31	48%	46%			
Rate of Return on Farm Assets - Cost	3.1%	1.8%			
Rate of Return on Farm Equity - Cost	2.0%	-0.3%			
Term Debt Coverage Ratio	1.27	1.08			
Asset Turnover Rate	30.6%	32.4%			
Operating Expense Ratio	77.9%	81.9%			
Interest Expense Ratio	5.4%	5.3%			
Operator Information					
Average Age of the Farmer	46.5	47.3			
Average Years Farming	21.5	23.2			
Personal Spending & Income					
Total Cash Family Living Expense	\$50,173	\$57,859			
Total Non Farm Income	\$31,318	\$37,849			

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

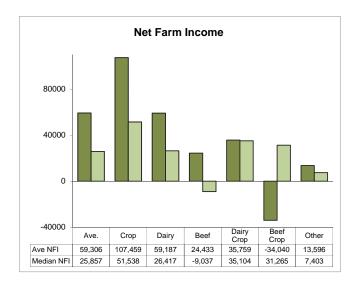
The following list shows expenses for the year:

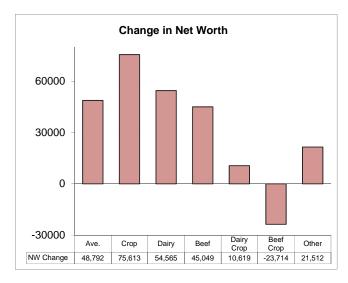
	•	Northern Minnesota	State Data
Net Farm Income	(+)	\$59,306	\$49,068
Depreciation	(+)	\$42,395	\$49,692
Family Living (Excl Health/Med)	(-)	\$39,252	\$45,699
Social Security and Income Tax	(-)	\$5,331	\$8,123
Health and Medical Expense	(-)	\$7,418	\$9,704
Retirement Accounts	(-)	\$985	\$6,683
Principal Payments	(-)	\$57,262	\$59,201
Balance	(=)	-\$8,547	-\$30,650

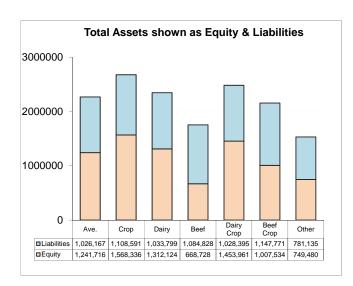
Financial Summary Northern Minnesota Farm Business Management Data (Farms Sorted By Farm Type)

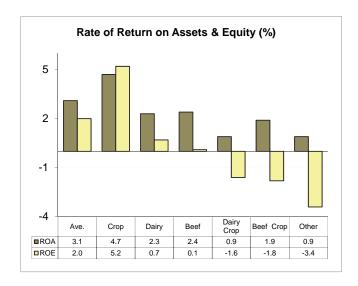
	Avg. Of All Farms	Crop	<u>Dairy</u>	Beef	Crop and Dairy	Crop and Beef	Other
Number of farms	615	230	160	47	29	33	112
Income Statement Gross cash farm income Total cash farm expense Net cash farm income Inventory change Depreciation Net farm income from operations Gain or loss on capital sales Average net farm income Median net farm income	585,946	623,850	751,887	334,040	622,138	537,933	371,232
	505,816	515,684	655,353	350,185	517,947	495,768	326,284
	80,130	108,166	96,534	-16,145	104,191	42,165	44,948
	21,774	39,844	13,158	51,323	-11,475	26,313	-3,394
	-42,395	-46,870	-51,015	-15,429	-58,259	-42,623	-28,487
	59,509	101,140	58,677	19,749	34,458	25,855	13,067
	-202	6,319	510	4,685	1,301	-59,895	529
	59,306	107,459	59,187	24,433	35,759	-34,040	13,596
	25,857	51,538	26,417	-9,037	35,104	31,265	7,403
Profitability (cost) Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	3.1 %	4.7 %	2.3 %	2.4 %	0.9 %	1.9 %	0.9 %
	2.0 %	5.2 %	0.7 %	0.1 %	-1.6 %	-1.8 %	-3.4 %
	10.0 %	13.7 %	7.9 %	12.1 %	3.6 %	7.2 %	3.3 %
	30.6 %	34.8 %	29.7 %	19.5 %	25.2 %	26.7 %	28.2 %
Profitability (market) Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	2.9 %	3.6 %	2.7 %	1.7 %	1.1 %	2.9 %	2.4 %
	2.4 %	3.9 %	1.8 %	-0.8 %	-0.7 %	1.6 %	1.0 %
	11.4 %	13.0 %	10.3 %	10.3 %	5.3 %	13.6 %	10.6 %
	25.4 %	27.9 %	25.9 %	16.8 %	21.2 %	21.5 %	22.6 %
Liquidity & Repayment (end of year) Current assets Current liabilities Current ratio Working capital Change in working capital Working capital to gross inc Term debt coverage ratio Replacement coverage ratio Term debt to EBITDA	413,286	589,861	258,355	465,295	374,574	421,261	258,258
	272,877	341,897	167,595	363,021	240,738	354,328	221,636
	1.51	1.73	1.54	1.28	1.56	1.19	1.17
	140,409	247,964	90,760	102,274	133,836	66,934	36,622
	5,184	32,981	-29,405	50,034	-20,580	-10,611	-5,959
	22.9 %	37.5 %	11.7 %	26.1 %	21.7 %	11.9 %	9.6 %
	1.27	1.70	1.10	1.52	0.87	0.91	0.87
	1.02	1.23	0.98	1.24	0.70	0.70	0.75
	3.80	2.57	4.43	7.67	4.69	4.68	5.93
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 %	615	230	160	47	29	33	112
	1,899,464	2,184,688	2,061,670	1,525,013	2,102,630	1,735,888	1,244,694
	843,704	872,099	876,736	944,713	825,577	952,837	662,961
	1,055,761	1,312,589	1,184,934	580,300	1,277,053	783,051	581,733
	40,532	79,902	39,904	49,976	5,822	-51,866	-2,944
	47 %	42 %	45 %	66 %	41 %	57 %	58 %
	44 %	40 %	43 %	62 %	39 %	55 %	53 %
	4 %	6 %	3 %	9 %	0 %	-6 %	-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 %	615	230	160	47	29	33	112
	2,267,883	2,676,927	2,345,923	1,753,556	2,482,356	2,155,305	1,530,615
	1,026,167	1,108,591	1,033,799	1,084,828	1,028,395	1,147,771	781,135
	1,241,716	1,568,336	1,312,124	668,728	1,453,960	1,007,533	749,480
	48,792	75,613	54,565	45,049	10,619	-23,714	21,512
	48 %	44 %	46 %	66 %	43 %	55 %	54 %
	45 %	41 %	44 %	62 %	41 %	53 %	51 %
	4 %	5 %	4 %	7 %	1 %	-2 %	3 %
Nonfarm Information Net nonfarm income Farms reporting living expenses Total family living expense Total living, invest, cap. purch	31,318 75 50,802 63,149	37,719 23 53,493 82,603	14,947 25 49,383 58,164	58,117 4 -	15,180 3 -	30,007 - - -	34,642 19 47,290 48,331
Crop Acres Total crop acres Total crop acres owned Total crop acres cash rented Total crop acres share rented Machinery value per crop acre	754 251 497 6 615	1,304 397 893 13 471	356 148 207 1 1,156	309 184 126 772	590 254 326 9	745 210 531 4 672	427 133 294 - 670

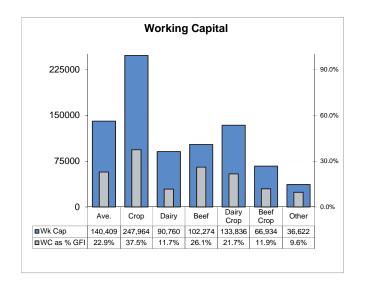
Selected Factors by Type of Farm

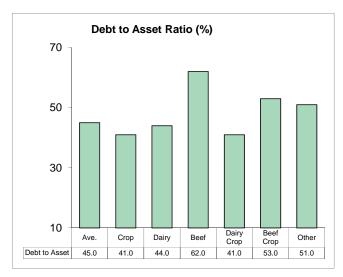




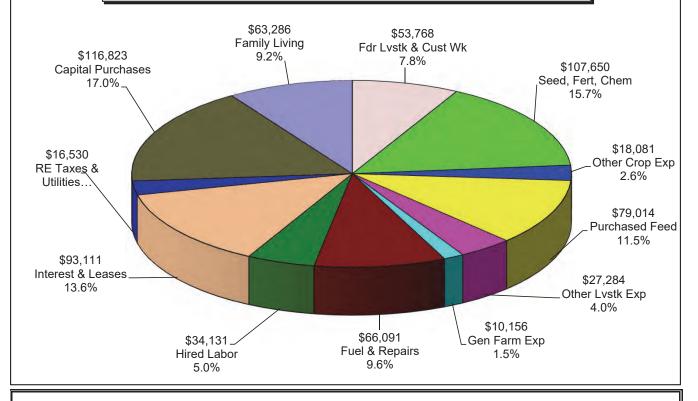








Each farmer, on average, spent \$685,925 in the Greater Community in 2018



Average Money Spent by Each Farmer in the Greater Community: \$685,925

Average Money Spent by Each Farmer in a 40 Yr Career: \$27,437,000 Money Spent in Community by 615 Farmers: \$421,843,875

Report Overview

Farm Business Management Education has been a part of agricultural education programs in Minnesota since 1953. FBM Programs are now an integral part of the Minnesota State System, delivered through eight two-year colleges. The 2018 Northern Minnesota Annual Report includes data from Farm Business Mangement programs administered by: Northland Community & Technical College, Central Lakes College, Alexandria Technical & Community College, Ridgewater College, and St. Cloud Technical & Community Colleges.

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

Report tables were created using FINPACK and RankEm Central, copyrighted software of the Center for Farm Financial Management, University of Minnesota. The Center also shared the Financial Scorecard on the back cover.

The financial portion of the report, found in the first 27 pages, uses a standard format for each table. Data from the analysis system is printed in a four column format, which includes: Average, Low, Middle, & High. The High, Middle, & Low ranges are calculated based on a 20% slice of the farms in the total group.

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

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

Analysis Section
Financial
Crops
Statewide Livestock

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

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

	Avg. Of All Farms	10 or Less	11 - 20	<u> 21 - 30</u>	<u> 31 - 40</u>	Over 40
Number of farms	615	177	129	91	120	98
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	585,946	307,536	662,995	667,613	831,788	610,502
	505,816	275,876	569,464	610,365	703,345	498,383
	80,130	31,659	93,531	57,248	128,444	112,119
	21,774	31,723	27,344	46,690	-1,756	2,149
	-42,395	-19,962	-42,602	-51,633	-60,720	-51,625
	59,509	43,421	78,274	52,305	65,968	62,643
	-202	-79	-231	15,084	4,592	-20,454
	59,306	43,342	78,043	67,389	70,560	42,189
	25,857	25,572	20,731	20,283	30,189	29,943
Profitability (cost) Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	3.1 %	4.2 %	4.5 %	2.4 %	2.2 %	2.5 %
	2.0 %	5.2 %	5.1 %	0.4 %	0.8 %	1.1 %
	10.0 %	11.2 %	13.4 %	8.5 %	7.6 %	9.2 %
	30.6 %	37.7 %	33.7 %	28.3 %	28.5 %	27.6 %
Profitability (market) Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	2.9 %	5.8 %	5.0 %	-0.2 %	2.6 %	2.5 %
	2.4 %	9.6 %	6.9 %	-3.8 %	2.0 %	1.8 %
	11.4 %	17.5 %	16.5 %	-0.7 %	11.0 %	12.4 %
	25.4 %	33.4 %	30.1 %	23.3 %	23.7 %	20.1 %
Liquidity & Repayment (end of year) Current assets Currentliabilities Current ratio Working capital Change in working capital Working capital to gross inc Term debt coverage ratio Replacement coverage ratio Term debt to EBITDA	413,286	205,791	419,623	551,515	537,999	498,639
	272,877	161,212	311,612	388,716	314,052	265,583
	1.51	1.28	1.35	1.42	1.71	1.88
	140,409	44,580	108,010	162,799	223,947	233,055
	5,184	1,832	16,890	12,200	-12,017	10,375
	22.9 %	12.8 %	15.6 %	22.6 %	26.7 %	38.3 %
	1.27	1.55	1.51	1.01	1.11	1.21
	1.02	1.40	1.27	0.80	0.87	0.87
	3.80	4.10	3.64	4.62	3.47	3.40
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 %	615	177	129	91	120	98
	1,899,464	978,401	1,849,237	2,535,949	2,612,679	2,164,787
	843,704	568,641	954,194	1,155,194	923,040	808,672
	1,055,761	409,760	895,043	1,380,756	1,689,639	1,356,115
	40,532	46,902	66,561	42,816	41,366	-8,375
	47 %	61 %	54 %	48 %	38 %	41 %
	44 %	58 %	52 %	46 %	35 %	37 %
	4 %	13 %	8 %	3 %	3 %	-1 %
Solvency (end of year at market) Number of farms Total assets Totalliabilities Net worth Total net worth change Farm debt to asset ratio Total debt to asset ratio Change in total net worth %	615	177	129	91	120	98
	2,267,883	1,100,707	2,068,989	3,006,326	3,117,718	2,911,443
	1,026,167	626,488	1,104,057	1,406,559	1,182,282	1,101,125
	1,241,716	474,219	964,932	1,599,766	1,935,436	1,810,318
	48,792	66,881	84,161	-15,745	65,208	9,390
	48 %	60 %	56 %	49 %	40 %	40 %
	45 %	57 %	53 %	47 %	38 %	38 %
	4 %	16 %	10 %	-1 %	3 %	1 %
Nonfarm Information Net nonfarm income Farms reporting living expenses Total family living expense Total living, invest, cap. purch	31,318	38,344	30,136	31,061	27,476	25,126
	75	13	17	17	20	8
	50,802	35,825	54,174	56,841	48,242	61,544
	63,149	40,911	54,435	67,428	64,590	105,104
Crop Acres Total crop acres Total crop acres owned Total crop acres cash rented Total crop acres share rented Machinery value per crop acre	754	502	653	995	907	930
	251	94	145	303	359	492
	497	405	508	683	548	414
	6	3	0	9	0	24
	615	394	637	639	711	672

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

	Avg. Of	Less than	100,001 -	250,001 -	500,001 -	1,000,001-	Over
	All Farms	100,000	250,000	500,000	1,000,000	2,000,000	2,000,000
Number of farms	615	116	136	151	124	59	29
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	585,946	50,758	166,481	362,471	704,967	1,339,986	3,814,449
	505,816	59,554	154,569	302,528	611,006	1,109,191	3,319,264
	80,130	-8,795	11,912	59,944	93,961	230,795	495,185
	21,774	9,843	7,505	10,639	7,401	87,976	121,177
	-42,395	-7,463	-15,369	-29,193	-56,264	-102,729	-195,561
	59,509	-6,416	4,047	41,390	45,098	216,041	420,801
	-202	1,515	-16,176	2,394	9,052	-594	15,546
	59,306	-4,901	-12,129	43,784	54,150	215,447	436,347
	25,857	-4,743	14,045	38,981	60,400	162,151	344,908
Profitability (cost) Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	3.1 %	-3.0 %	-0.8 %	2.5 %	1.9 %	5.1 %	5.3 %
	2.0 %	-12.5 %	-7.1 %	0.8 %	-0.6 %	5.6 %	6.0 %
	10.0 %	-19.8 %	-3.4 %	9.0 %	6.2 %	15.0 %	14.9 %
	30.6 %	15.1 %	23.0 %	27.2 %	30.9 %	33.7 %	35.5 %
Profitability (market) Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	2.9 %	-1.1 %	-0.5 %	2.0 %	3.1 %	3.3 %	5.4 %
	2.4 %	-5.9 %	-4.4 %	0.7 %	2.6 %	3.4 %	7.1 %
	11.4 %	-9.5 %	-2.7 %	9.3 %	12.4 %	12.0 %	16.1 %
	25.4 %	11.9 %	17.5 %	21.3 %	24.9 %	27.8 %	33.2 %
Liquidity & Repayment (end of year) Current assets Current liabilities Current ratio Working capital Change in working capital Working capital to gross inc Term debt coverage ratio Replacement coverage ratio Term debt to EBITDA	413,286	57,079	125,086	247,746	493,448	1,137,218	2,236,030
	272,877	41,730	99,404	155,889	361,704	659,770	1,453,187
	1.51	1.37	1.26	1.59	1.36	1.72	1.54
	140,409	15,349	25,682	91,857	131,744	477,448	782,843
	5,184	8,594	-4,690	3	4,184	52,493	-27,152
	22.9 %	24.5 %	14.3 %	24.4 %	18.2 %	33.6 %	19.7 %
	1.27	1.07	0.84	1.18	0.90	1.64	1.70
	1.02	0.89	0.72	0.94	0.71	1.29	1.39
	3.80	19.10	8.56	4.20	4.52	2.31	2.76
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 %	615	116	136	151	124	59	29
	1,899,464	483,585	808,108	1,390,437	2,319,201	4,091,539	9,077,046
	843,704	254,792	427,419	609,783	1,100,973	1,601,959	3,726,876
	1,055,761	228,794	380,689	780,654	1,218,228	2,489,580	5,350,169
	40,532	12,366	-17,523	29,726	21,524	145,163	350,133
	47 %	59 %	60 %	48 %	51 %	40 %	42 %
	44 %	53 %	53 %	44 %	47 %	39 %	41 %
	4 %	6 %	-4 %	4 %	2 %	6 %	7 %
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 %	615	116	136	151	124	59	29
	2,267,883	593,258	1,028,108	1,728,734	2,850,519	4,914,107	9,712,818
	1,026,167	282,480	488,335	734,118	1,327,329	2,103,155	4,564,983
	1,241,716	310,778	539,772	994,616	1,523,190	2,810,952	5,147,835
	48,792	17,725	-15,755	30,370	61,913	107,825	395,483
	48 %	52 %	52 %	46 %	49 %	44 %	48 %
	45 %	48 %	47 %	42 %	47 %	43 %	47 %
	4 %	6 %	-3 %	3 %	4 %	4 %	8 %
Nonfarm Information Net nonfarm income Farms reporting living expenses Total family living expense Total living, invest, cap. purch	31,318 75 50,802 63,149	50,702 12 35,034 35,479	37,712 17 40,139 42,968	25,932 24 56,257 64,676	25,519 14 60,170 97,889	16,724 5 57,602 89,672	6,321 3 -
Crop Acres Total crop acres Total crop acres owned Total crop acres cash rented Total crop acres share rented Machinery value per crop acre	754	129	316	526	1,002	2,095	2,711
	251	59	128	214	311	662	690
	497	70	186	307	680	1,410	2,018
	6	-	1	4	11	23	3
	615	613	553	606	588	579	757

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

	Avg. Of All Farms	Less than	101 - 250	251 - 500	501 - 1,000	1,001 - 1,500	1,501 - 2,000	2,001 - 5,000
Number of farms	615	102	127	123	109	55	42	53
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	585,946	194,316	227,897	355,915	479,657	924,843	890,580	2,133,826
	505,816	171,503	187,091	305,788	420,908	814,141	771,656	1,820,177
	80,130	22,814	40,806	50,127	58,749	110,703	118,924	313,649
	21,774	-2,508	-14,285	3,020	20,194	29,518	57,610	156,481
	-42,395	-14,744	-18,068	-31,522	-37,935	-67,801	-69,614	-133,345
	59,509	5,562	8,453	21,626	41,007	72,419	106,920	336,786
	-202	456	1,179	966	-18,867	4,271	1,550	24,036
	59,306	6,018	9,633	22,592	22,140	76,690	108,470	360,821
	25,857	946	10,308	26,127	37,571	77,924	88,099	250,478
Profitability (cost) Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	3.1 %	0.0 %	0.0 %	0.8 %	2.1 %	2.7 %	3.7 %	6.0 %
	2.0 %	-6.5 %	-5.3 %	-2.5 %	0.1 %	1.1 %	3.3 %	7.4 %
	10.0 %	0.1 %	0.0 %	3.0 %	7.7 %	8.8 %	9.8 %	16.8 %
	30.6 %	22.2 %	22.3 %	25.5 %	27.5 %	30.2 %	37.5 %	35.7 %
Profitability (market) Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	2.9 %	2.2 %	0.3 %	1.1 %	2.3 %	3.7 %	3.3 %	4.6 %
	2.4 %	0.4 %	-3.1 %	-1.0 %	1.1 %	3.6 %	3.3 %	5.8 %
	11.4 %	12.3 %	1.9 %	5.4 %	10.1 %	14.4 %	10.6 %	15.0 %
	25.4 %	17.8 %	17.8 %	20.1 %	22.4 %	25.5 %	30.6 %	30.5 %
Liquidity & Repayment (end of year) Current assets Current liabilities Current ratio Working capital Change in working capital Working capital to gross inc Term debt coverage ratio Replacement coverage ratio Term debt to EBITDA	413,286	91,506	101,885	201,767	338,172	540,713	809,782	1,784,281
	272,877	89,430	77,680	120,628	240,455	384,534	502,355	1,105,366
	1.51	1.02	1.31	1.67	1.41	1.41	1.61	1.61
	140,409	2,076	24,205	81,139	97,716	156,179	307,428	678,915
	5,184	-4,454	-7,796	352	-7,402	4,646	13,728	89,811
	22.9 %	1.1 %	10.8 %	22.2 %	19.4 %	16.3 %	31.9 %	29.7 %
	1.27	0.82	0.84	1.01	1.03	1.13	1.26	2.09
	1.02	0.74	0.73	0.81	0.85	0.95	0.98	1.55
	3.80	7.64	7.82	5.35	4.67	4.17	2.37	2.14
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 %	615	102	127	123	109	55	42	53
	1,899,464	715,717	880,981	1,305,662	1,784,340	2,946,816	2,744,798	5,939,938
	843,704	411,585	460,768	569,966	824,192	1,260,526	1,066,710	2,437,308
	1,055,761	304,132	420,213	735,696	960,148	1,686,290	1,678,088	3,502,630
	40,532	9,465	-1,984	14,375	6,231	84,915	51,347	266,341
	47 %	62 %	58 %	48 %	49 %	46 %	41 %	42 %
	44 %	58 %	52 %	44 %	46 %	43 %	39 %	41 %
	4 %	3 %	0 %	2 %	1 %	5 %	3 %	8 %
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 %	615	102	127	123	109	55	42	53
	2,267,883	881,878	1,072,072	1,618,140	2,161,288	3,467,920	3,314,465	6,909,168
	1,026,167	458,502	521,891	688,539	986,610	1,501,686	1,393,234	3,136,197
	1,241,716	423,376	550,180	929,601	1,174,678	1,966,235	1,921,231	3,772,971
	48,792	26,004	1,325	21,728	17,268	130,379	57,616	234,291
	48 %	55 %	53 %	46 %	49 %	46 %	45 %	46 %
	45 %	52 %	49 %	43 %	46 %	43 %	42 %	45 %
	4 %	7 %	0 %	2 %	1 %	7 %	3 %	7 %
Nonfarm Information Net nonfarm income Farms reporting living expenses Total family living expense Total living, invest, cap. purch	31,318 75 50,802 63,149	37,225 11 38,121 40,398	33,376 22 49,513 53,799	28,956 19 51,494 59,621	31,798 9 46,029 53,046	36,600 5 49,578 57,635	25,107 5 58,600 154,730	20,476 4 -
Crop Acres Total crop acres Total crop acres owned Total crop acres cash rented Total crop acres share rented Machinery value per crop acre	754	24	171	370	679	1,221	1,728	2,845
	251	17	88	155	259	462	487	861
	497	8	82	215	415	757	1,206	1,958
	6	-	2	-	5	2	35	26
	615	1,641	1,031	871	630	680	454	559

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

	Avg. Of			
Number of farms	All Farms 615	<u>Low 20%</u> 123	<u>40 - 60%</u> 123	<u>High 20%</u> 123
	0.10	120	.20	.20
Sale of Crops	0.044	0.504	4.455	40.770
Barley	3,844	2,504	1,155	13,776
Beans, Edible	6,903	3,429	2,281	17,388
Corn	78,353	47,263	44,547	196,765
Corn Silage	546	199	309	1,546
Hay, Alfalfa	632	1,331	678	197
Hay, Other	2,717	2,015	3,069	2,834
Fruit and Vegetable Crops	940	751	1,856	-
Potatoes	12,587	398	7,979	50,568
Soybeans	82,225	46,778	38,506	208,186
Soybeans, Food	440	-	-	2,199
Soybeans, Seed	1,639	597	565	5,386
Sunflowers	541	1,003	72	544
Oats	738	515	1,061	1,645
Wheat, Spring	39,128	12,998	15,103	120,125
Grass Seed	6,833	2,612	292	26,916
Other Crop Enterprises	2,278	2,323	4,657	2,277
Miscellaneous crop income	3,547	3,628	2,440	4,727
Total Crop Sales	243,891	128,344	124,570	655,079
Sale of Livestock				
Beef Cow-Calf, Beef Calves	7,376	15,541	6,459	5,764
Beef, Backgrounding	8,596	2,426	7,273	24,659
Beef, Finishing	23,750	26,008	5,443	79,454
Other Beef Enterprises	656	692	438	-
Dairy, Milk	184,864	181,410	113,227	377,565
Dairy Calves	1,679	1,692	1,371	3,009
Dairy Heifers (for sale)	767	855	501	2,174
Dairy Feeders & Backgrounding	3,313	6,628	5,851	322
Dairy Finishing	15,298	12,849	2,193	34,854
Hogs, Weaning to Finish	3,097	11,655	3,627	
Other Livestock Enterprises	1,627	2,767	787	88
Cull breeding livestock	11,154	15,606	8,247	16,068
Misc. livestock income	2,277	322	501	5,884
Total Livestock & Product Sales	264,454	278,451	155,918	549,841
Total Livestock & Floudet Sales	204,454	270,431	155,916	549,641
Other farm income				
Crop government payments	5,216	2,963	3,740	12,693
CRP payments	778	71	1,216	1,055
Livestock govt payments	2,767	2,146	2,425	3,731
Other government payments	21,471	10,610	10,158	52,226
Custom work income	14,182	9,001	9,083	25,269
Patronage dividends, cash	5,236	5,854	3,348	9,144
Insurance income	8,987	9,184	2,389	24,311
Contract livestock income	6,373	23,817	3,081	3,712
Other farm income	12,591	17,706	7,423	18,858
Total Other Farm Income	77,601	81,352	42,863	150,999
0 0 1 7				
Gross Cash Farm Income	585,946	488,147	323,351	1,355,919

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

	<u>Average</u>	Low 20%	40 - 60%	High 20%
Number of farms	615	123	123	123
Direct Crop Expense				
Seed	38,225	28,236	19,619	88,044
Fertilizer	47,216	28,400	21,332	125,925
Crop chemicals	22,209	15,499	10,913	53,187
Crop insurance	9,599	7,110	5,208	23,022
Drying Expense	3,250	2,015	1,954	7,464
Other direct crop expenses	5,232	4,996	2,776	10,924
Total Direct Crop Expense	125,731	86,256	61,802	308,566
Direct Livestock Expense				
Feeder livestock purchase	19,637	28,751	6,633	51,439
Purchased feed	79,014	82,657	45,251	166,964
Breeding fees	2,833	2,410	1,484	6,523
Veterinary	6,845	9,530	4,716	10,914
Supplies	7,987	8,218	5,110	15,155
Contract production exp.	3,350	6,416	1,806	7,626
Livestock hauling and trucking	4,985	4,743	3,902	8,831
Livestock marketing	3,451 4,194	4,040 5,693	2,160 2,761	5,832 6,821
Bedding Other livestock expenses	2,052	5,693 1,853	1,317	4,413
Total Direct Livestock Expense	134,348	154,311	75,140	284,518
Other Farm Expense	104,040	104,011	10,140	204,010
Interest	32,737	37,923	21,224	57,508
Fuel & oil	25,444	24,280	14,980	49,189
Repairs	40,641	42,472	23,363	80,740
Custom hire	15,486	13,242	7,101	35,440
Hired labor	34,131	44,085	13,632	73,016
Land rent	51,130	31,148	25,145	135,022
Machinery & bldg leases	9,244	11,217	5,527	17,405
Real estate taxes	5,262	4,579	3,427	10,234
Farm insurance	9,503	9,621	6,865	17,205
Utilities	11,268	12,596	7,924	19,131
Dues & professional fees	4,084	4,038	2,320	9,650
Miscellaneous	6,807	7,268	8,547	6,915
Total Other Farm Expense	245,737	242,469	140,055	511,455
Total cash expense	505,816	483,036	276,997	1,104,539
Net cash farm income	80,130	5,111	46,354	251,380
Inventory Changes				
Prepaids and supplies	336	-2,124	-1,170	6,129
Accounts receivable	7,618	-94	2,998	29,757
Hedging acct. & Oth Cur Assets	2,996	1,377	-48	11,416
Crops and feed	11,025	-23,295	6,437	51,097
Market livestock	3,916	4,737	-2,259	16,152
Breeding livestock	-323	-18,694	-664	14,341
Accounts payable	-5,492	-8,713	-4,596	-8,809
Accrued Interest & other assets	1,698	339	956	3,653
Total inventory change	21,774	-46,467	1,654	123,736
Net operating profit	101,904	-41,356	48,008	375,116
Depreciation	00.000	00.004	45.750	00.000
Machinery and equipment	-30,360	-29,904	-15,759	-60,960
Titled vehicles	-3,601	-3,782	-2,246	-6,911
Buildings and improvements	-8,435 -42,395	-7,943 -41,629	-5,508 -23,513	-17,005 -84,876
Total depreciation Net farm income from operations	-42,395 59,509	-41,629 - 82,985	-23,513 24,495	-84,876 290,240
Gain or loss on capital sales	-203	-17,249	24,495	15,179
Net farm income	59,306	-100,234	24,509	305,419
	00,000			.: 5

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

	Avg. Of All Farms	Low 20%	40 - 60%	<u> High 20%</u>
Number of farms	615	123	123	123
Assets				
Current Farm Assets	21.004	15 602	12 200	79.020
Cash and checking balance Prepaid expenses & supplies	31,004 32,715	15,693 12,190	13,288 13,467	78,929 101,212
Growing crops	1,919	1,769	257	4,297
Accounts receivable	35,259	27,360	16,900	88,031
Hedging accounts	1,696	344	360	6,573
Crops held for sale or feed	254,019	161,813	121,313	657,989
Crops under government loan	- 52.007	- 57 700	- 24 EG2	124 204
Market livestock held for sale Other current assets	53,997 2,677	57,798 5,371	21,563 1,294	134,304 2,360
Total current farm assets	413,286	282,338	188,442	1,073,695
	•	,	,	
Intermediate Farm Assets Breeding livestock	156,131	154,897	108,229	299,997
Machinery and equipment	387,150	351,124	211,476	792,252
Titled vehicles	32,616	31,549	20,942	64,334
Other intermediate assets	24,871	23,202	20,245	51,616
Total intermediate farm assets	600,767	560,773	360,891	1,208,200
Long Term Farm Assets				
Farm land	437,259	392,711	275,259	841,431
Buildings and improvements	227,927	206,497	137,421	486,695
Other long-term assets	38,573	49,869	23,151	62,542
Total long-term farm assets Total Farm Assets	703,759 1,717,812	649,077 1,492,187	435,831 985,165	1,390,669 3,672,565
	1,717,012	1,432,107		3,072,303
Total Nonfarm Assets	181,653	160,616	153,589	264,419
Total Assets	1,899,464	1,652,803	1,138,754	3,936,984
Liabilities				
Current Farm Liabilities				
Accrued interest	8,684	9,425	6,245	16,954
Accounts payable Current notes	29,520 177,410	37,391 171,039	18,334 106,021	55,062 390,565
Government crop loans	-	-	-	330,303
Principal due on term debt	57,262	55,546	38,762	107,312
Total current farm liabilities	272,877	273,401	169,363	569,892
Total intermediate farm liabs	159,295	187,978	107,681	283,677
Total long term farm liabilities	378,304	451,841	268,483	586,178
Total farm liabilities	810,475	913,219	545,527	1,439,748
Total nonfarm liabilities	33,228	32,053	29,917	46,241
Total liabilities	843,704	945,273	575,444	1,485,988
Net worth (farm and nonfarm)	1,055,761	707,530	563,310	2,450,996
Net worth change	40,532	-95,998	13,189	241,435
Percent net worth change	4 %	-12 %	2 %	11 %
Ratio Analysis				
Current farm liabilities / assets	66 %	97 %	90 %	53 %
Intermediate farm liab. / assets	27 %	34 %	30 %	23 %
Long term farm liab. / assets	54 %	70 %	62 %	42 %
Total debt to asset ratio	44 %	57 %	51 %	38 %

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

	Avg. Of _All Farms	Low 20%	40 - 60%	High 20%
Number of farms	615	123	123	123
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	31,004 32,715 1,919 35,259 1,696 254,019 53,997 2,677 413,286	15,693 12,190 1,769 27,360 344 161,813 57,798 5,371 282,338	13,288 13,467 257 16,900 360 121,313 - 21,563 1,294 188,442	78,929 101,212 4,297 88,031 6,573 657,989 134,304 2,360 1,073,695
Intermediate Farm Assets Breeding livestock Machinery and equipment Titled vehicles Other intermediate assets Total intermediate farm assets	158,107	156,170	109,764	306,774
	453,383	421,429	240,495	936,494
	37,227	36,218	24,112	72,011
	24,948	24,914	17,453	52,138
	673,665	638,731	391,823	1,367,417
Long Term Farm Assets Farm land Buildings and improvements Other long-term assets Total long-term farm assets Total Farm Assets	690,672	588,057	486,653	1,248,151
	250,609	233,269	147,972	519,099
	45,679	50,577	23,500	92,967
	986,959	871,902	658,125	1,860,218
	2,073,910	1,792,971	1,238,391	4,301,329
Total Nonfarm Assets	193,972	174,800	167,857	283,018
Total Assets	2,267,883	1,967,772	1,406,247	4,584,347
Liabilities Current Farm Liabilities Accrued interest Accounts payable Current notes Government crop loans Principal due on term debt Total current farm liabilities	8,684 29,520 177,410 57,262 272,877	9,425 37,391 171,039 - 55,546 273,401	6,245 18,334 106,021 - 38,762 169,363	16,954 55,062 390,565 - 107,312 569,892
Total intermediate farm liabs	159,295	187,978	107,681	283,677
Total long term farm liabilities	378,304	451,841	268,483	586,178
Total farm liabilities	810,475	913,219	545,527	1,439,748
Total nonfarm liabilities	33,228	32,053	29,917	46,241
Total liabs excluding deferreds	843,704	945,273	575,444	1,485,988
Total deferred liabilities	182,463	146,306	100,956	427,116
Total liabilities	1,026,167	1,091,579	676,400	1,913,104
Retained earnings Market valuation equity Net worth (farm and nonfarm) Net worth excluding deferreds Net worth change Percent net worth change	1,055,761	707,530	563,310	2,450,996
	185,955	168,662	166,538	220,248
	1,241,716	876,192	729,847	2,671,243
	1,424,179	1,022,499	830,803	3,098,359
	48,792	-56,510	22,853	216,037
	4 %	-6 %	3 %	9 %
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	66 %	97 %	90 %	53 %
	24 %	29 %	27 %	21 %
	38 %	52 %	41 %	32 %
	45 %	55 %	48 %	42 %
	37 %	48 %	41 %	32 %

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.

<u>Solvency</u> 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.

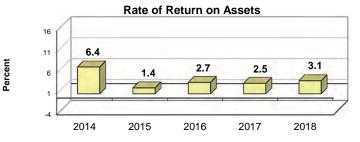
Financial Standards Measures Northern Minnesota Farm Business Management Data (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
	All Laillis	LOW 2070	40 - 00 / 0	111g11 20 /0
Number of farms	615	123	123	123
Liquidity				
Current ratio	1.51	1.03	1.11	1.88
Working capital	140,409	8,937	19,079	503,803
Working capital to gross inc.	22.9 %	2.0 %	5.7 %	34.0 %
Solvency (market)				
Farm debt to asset ratio	48 %	59 %	52 %	43 %
Farm equity to asset ratio	52 %	41 %	48 %	57 %
Farm debt to equity ratio	0.91	1.44	1.09	0.76
Profitability (cost)				
Rate of return on farm assets	3.1 %	-5.2 %	1.7 %	7.9 %
Rate of return on farm equity	2.0 %	-18.9 %	-1.4 %	10.3 %
Operating profit margin	10.0 %	23.2 %	5.9 %	21.9 %
Net farm income	59,306	-100,234	24,509	305,419
EBIDTA	135,326	-1,707	70,676	432,003
Repayment Capacity				
Capital debt repayment capacity	101,946	-11,357	49,997	337,083
Capital debt repayment margin	21,728	-99,330	-1,996	195,842
Replacement margin	2,241	-114,419	-11,384	150,483
Term debt coverage ratio	1.27	-0.13	0.96	2.39
Replacement coverage ratio	1.02	-0.11	0.81	1.81
Efficiency				
Asset turnover rate (cost)	30.6 %	22.5 %	29.0 %	35.9 %
Operating expense ratio	77.9 %	100.4 %	78.7 %	70.8 %
Depreciation expense ratio	6.9 %	9.2 %	7.1 %	5.7 %
Interest expense ratio	5.4 %	8.7 %	6.8 %	3.8 %
Net farm income ratio	9.7 %	-22.1 %	7.4 %	20.6 %

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







How does your Farm Stack Up?

Northern Minnesota Farm Business Management Data

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

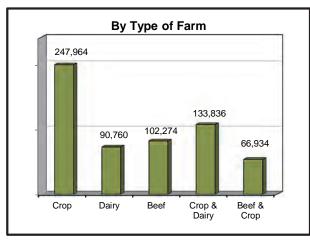
For additional information, please see the back cover of this report. A "Financial Scorecard" is provided in color for your use.

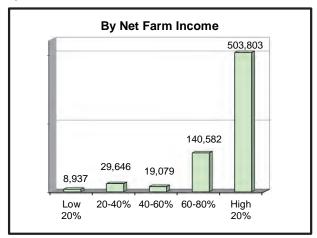
Evaluation Chart	Evaluation Chart		Low Farms		rage	High	Farms	Your Farm	
		2018	5 Yr Ave	2018	5 Yr Ave	2018	5 Yr Ave	2018	5 Yr Ave
Liquidity									
Current Ratio		1.03	1.05	1.51	1.62	1.88	2.22		
Working Capital	\$	8,937	20,341	140,409	146,227	503,803	481,160		
Working Capital to Gross Inc.	%	2.0%	3.6%	22.9%	24.3%	34.0%	34.8%		
Solvency (Market)									
Farm Debt to Asset Ratio	%	59%	57%	48%	46%	43%	40%		
Farm Equity to Asset Ratio	%	41%	43%	52%	54%	57%	60%		
Farm Debt to Equity Ratio	%	1.44	1.33	0.91	0.86	0.76	0.68		
Destitute (Ossa)									
Profitability (Cost) Rate of Return on Farm Assets	%	-5.2%	-5.4%	3.1%	3.2%	7.9%	8.6%		
Rate of Return on Farm Equity	%	-18.9%	-18.6%	2.0%	2.4%	10.3%	11.3%		
Operating Profit Margin	%	-23.2%	-22.5%	10.0%	10.0%	21.9%	22.9%		
Net Farm Income	\$	-100,234	-91,446	59,306	64,817	305,419	305,745		
EBIDTA	\$	-1,707	1,084	135,326	136,662	432,003	430,608		
Repayment Capacity (Accrual)									
Capital Debt Repayment Cap.	\$	-11,357	-22,420	101,946	100,249	337,083	341,336		
Capital Debt Repayment Margin	\$	-99,330	-116,598	21,728	20,533	195,842	202,112		
Replacement Margin	\$	-114,419	-131,658	2,241	4,428	150,483	168,138		
Term Debt Coverage Ratio		-0.13	-0.25	1.27	1.26	2.39	2.43		
Replacement Coverage Ratio		-0.11	-0.21	1.02	1.05	1.81	1.96		
F#iniana.									
Efficiency Asset Turnover Rate (Cost)	%	22.5%	23.7%	30.6%	31.3%	35.9%	36.9%		
Operating Expense Ratio	%								
		100.4%	99.8%	77.9%	77.4%	70.8%	69.5%		<u> </u>
Depreciation Expense Ratio	%	9.2%	9.6%	6.9%	7.1%	5.7%	6.1%		
Interest Expense Ratio	%	8.7%	8.1%	5.4%	4.9%	3.8%	3.3%		
Net Farm Income Ratio	%	-22.1%	-18.4%	9.7%	10.6%	20.6%	21.5%		

Selected Financial Guideline Measures

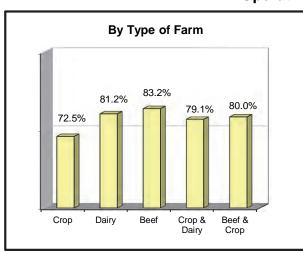
Northern Minnesota Farm Business Management Data

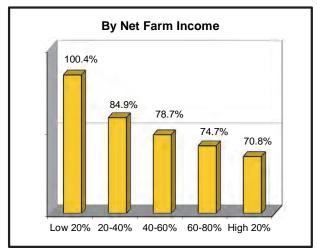
Working Capital



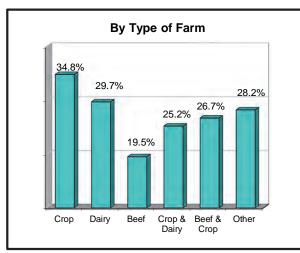


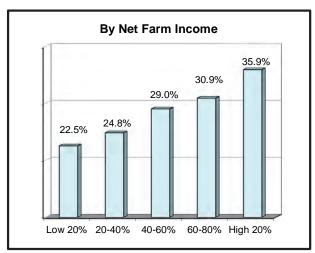
Operating Expense Ratio





Asset Turnover Rate



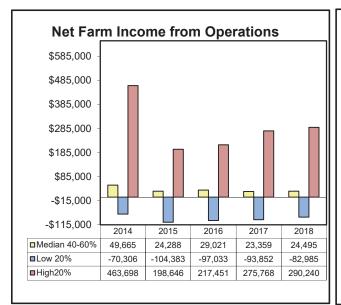


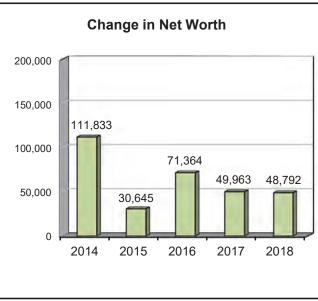
Profitability Measures Northern Minnesota Farm Business Management Data (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	615	123	123	123
Profitability (assets valued at cost)				
Net farm income from operations	59,509	-82,985	24,495	290,240
Rate of return on assets	3.1 %	-5.2 %	1.7 %	7.9 %
Rate of return on equity	2.0 %	-18.9 %	-1.4 %	10.3 %
Operating profit margin	10.0 %	-23.2 %	5.9 %	21.9 %
Asset turnover rate	30.6 %	22.5 %	29.0 %	35.9 %
Farm interest expense	33,422	39,648	22,669	56,887
Value of operator lbr and mgmt.	41,759	35,700	30,587	70,641
Return on farm assets	51,171	-79,036	16,577	276,486
Average farm assets	1,677,045	1,509,292	964,737	3,520,286
Return on farm equity	17,750	-118,685	-6,092	219,600
Average farm equity	890,706	626,490	435,982	2,122,076
Value of farm production	513,664	340,060	279,900	1,263,356
	Avg. Of			
	All Farms	Low 20%	40 - 60%	High 20%
Number of farms	615	123	123	123
Profitability (assets valued at market)				
Net farm income from operations	66,997	-44,396	34,046	262,209
Rate of return on assets	2.9 %	-2.3 %	2.2 %	6.0 %
Rate of return on equity	2.4 %	-10.5 %	0.6 %	8.2 %
Operating profit margin	11.4 %	-11.9 %	9.3 %	19.7 %
Asset turnover rate	25.4 %	19.0 %	23.1 %	30.5 %
Farm interest expense	33,422	39,648	22,669	56,887
Value of operator lbr and mgmt.	41,759	35,700	30,587	70,641
Return on farm assets	58,660	-40,448	26,128	248,455
Average farm assets	2,025,316	1,791,354	1,212,261	4,145,795
Return on farm equity	25,238	-80,096	3,459	191,569
Average farm equity	1,062,797	764,254	585,482	2,341,742
Value of farm production	513,664	340,060	279,900	1,263,356

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	615	123	123	123
Liquidity				
Current ratio	1.51	1.03	1.11	1.88
Working capital	140,409	8,937	19,079	503,803
Working capital to gross inc.	22.9%	2.0%	5.7%	34.0%
Current assets	413,286	282,338	188,442	1,073,695
Current liabilities	272,877	273,401	169,363	569,892
Gross revenues (accrual)	613,249	453,179	332,145	1,481,892
Repayment capacity				
Net farm income from operations	59,509	-82,985	24,495	290,240
Depreciation	42,395	41,629	23,513	84,876
Personal income	31,318	44,825	26,903	18,700
Family living/owner withdrawals	-46,682	-38,581	-37,020	-73,454
Cash discrepancy	-69	-83	-18	-117
Payments on personal debt	-2,814	-3,019	-2,406	-3,483
Income taxes paid	-5,957	-4,154	-1,838	-16,905
Interest on term debt	24,247	31,012	16,368	37,226
Capital debt repayment capacity	101,946	-11,357	49,997	337,083
Scheduled term debt payments	-80,218	-87,972	-51,992	-141,241
Capital debt repayment margin	21,728	-99,330	-1,996	195,842
Cash replacement allowance	-19,487	-15,089	-9,388	-45,358
Replacement margin	2,241	-114,419	-11,384	150,483
Term debt coverage ratio	1.27	-0.13	0.96	2.39
Replacement coverage ratio	1.02	-0.11	0.81	1.81









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

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	75	13	14	17
Average family size	3.3	2.5	3.1	4.2
Family Living Expenses				
Food and meals expense	8,358	7,934	9,882	9,218
Medical care	3,181	1,958	2,639	4,985
Health insurance	3,874	3,651	4,394	6,044
Cash donations	1,330	573	1,940	2,198
Household supplies	3,189	2,574	2,095	4,794
Clothing	1,872	622	1,912	3,125
Personal care	2,579	2,482	1,839	3,043
Child / Dependent care	750	427	103	1,073
Alimony and child support	65	-	-	-
Gifts	1,004	709	1,709	955
Education	1,123	566	541	1,774
Recreation	2,870	1,445	2,944	4,437
Utilities (household share)	2,899	2,700	2,111	2,722
Personal vehicle operating exp	3,636	5,488	2,197	2,786
Household real estate taxes	219	57	356	549
Dwelling rent	457	-	1,571	520
Household repairs	1,860	2,916	1,286	2,225
Personal interest	1,066	328	703	891
Disability / Long term care ins	363	647	74	948
Life insurance payments	1,992	1,506	1,993	3,636
Personal property insurance	415	659	216	187
Miscellaneous	7,070	6,206	8,098	7,075
Total cash family living expense	50,173	43,449	48,601	63,184
Family living from the farm	629	376	630	1,035
Total family living	50,802	43,825	49,231	64,220
Other Nonfarm Expenditures				
Income taxes	6,193	1,751	2,196	16,847
Furnishing & appliance purchases	-	· -	· -	-
Nonfarm vehicle purchases	1,881	2,654	2,568	2,724
Nonfarm real estate purchases	3,277	, -	9,643	3,317
Other nonfarm capital purchases	640	-	, -	2,824
Nonfarm savings & investments	985	-4,132	-10,001	14,755
Total other nonfarm expenditures	12,976	274	4,405	40,467
Total cash family living				
investment & nonfarm capital purch	63,149	43,723	53,006	103,651

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

Net nonfarm business income 3,877 3,719 3,744 Personal rental income 225 549 114 Personal interest income 167 17 221 Personal cash dividends 21 38 3 Tax refunds 1,938 2,312 2,531 Other nonfarm income 31,318 44,825 26,903 11 Total nonfarm income 31,318 44,825 26,903 13 Gifts and inheritances 2,021 1,751 1,952 Nonfarm Assets (market) Checking & savings 7,585 5,415 4,213 11 Stocks & bonds 8,539 12,796 4,513 1 Other current assets 1,995 907 1,721 1 Furniture & appliances 8,057 8,679 8,908 5 Nonfarm wehicles 15,561 12,916 14,815 20 Cash value of life ins. 4,996 4,698 4,519 6 Retirement accounts 49,372<		Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Personal wages & salary 21,761 32,691 17,542 12 Net nonfarm business income 3,877 3,719 3,744 14 Personal rental income 225 549 114 Personal interest income 167 17 221 Personal cash dividends 21 38 3 Tax refunds 1,938 2,312 2,531 Other nonfarm income 3,329 5,498 2,747 3 Total nonfarm income 31,318 44,825 26,903 11 Gifts and inheritances 2,021 1,751 1,952 1 Nonfarm Assets (market) Checking & savings 7,585 5,415 4,213 1 Stocks & bonds 8,539 12,796 4,513 1 Other current assets 1,995 907 1,721 3 Furniture & appliances 8,057 8,679 8,908 Nonfarm-value of life ins. 4,996 4,698 4,519 4 Cash value of life	Number of farms	615	123	123	123
Personal wages & salary 21,761 32,691 17,542 12 Net nonfarm business income 3,877 3,719 3,744 14 Personal rental income 225 549 114 Personal interest income 167 17 221 Personal cash dividends 21 38 3 Tax refunds 1,938 2,312 2,531 Other nonfarm income 3,329 5,498 2,747 3 Total nonfarm income 31,318 44,825 26,903 11 Gifts and inheritances 2,021 1,751 1,952 1 Nonfarm Assets (market) Checking & savings 7,585 5,415 4,213 1 Stocks & bonds 8,539 12,796 4,513 1 Other current assets 1,995 907 1,721 3 Furniture & appliances 8,057 8,679 8,908 Nonfarm-value of life ins. 4,996 4,698 4,519 4 Cash value of life	Nonfarm Income				
Net nonfarm business income 3,877 3,719 3,744 Personal rental income 225 549 114 Personal interest income 167 17 221 Personal cash dividends 21 38 3 Tax refunds 1,938 2,312 2,531 Other nonfarm income 31,318 44,825 26,903 11 Gifts and inheritances 2,021 1,751 1,952 Nonfarm Assets (market) Checking & savings 7,585 5,415 4,213 1: Stocks & bonds 8,539 12,796 4,513 1: Other current assets 1,995 907 1,721 1: Furniture & appliances 8,057 8,679 8,908 2. Nonfarm vehicles 15,561 12,916 14,815 20 Cash value of life ins. 4,996 4,698 4,519 6 Retirement accounts 49,372 43,602 51,079 60 Other intermediate assets <td< td=""><td></td><td>21 761</td><td>32 691</td><td>17 542</td><td>12,165</td></td<>		21 761	32 691	17 542	12,165
Personal rental income 225 549 114 Personal interest income 167 17 221 Personal cash dividends 21 38 3 Tax refunds 1,938 2,312 2,531 Other nonfarm income 3,329 5,498 2,747 Total nonfarm income 31,318 44,825 26,903 11 Gifts and inheritances 2,021 1,751 1,952 Nonfarm Assets (market) Checking & savings 7,585 5,415 4,213 1: Stocks & bonds 8,539 12,796 4,513 1: Other current assets 1,995 907 1,721 1: Furniture & appliances 8,057 8,679 8,908 1. Nonfarm vehicles 15,561 12,916 14,815 2 Cash value of life ins. 4,996 4,698 4,519 4 Retirement accounts 49,372 43,602 51,079 6 Other intermediate assets 5,488 <td></td> <td></td> <td></td> <td></td> <td>1,320</td>					1,320
Personal interest income 167 17 221 Personal cash dividends 21 38 3 Tax refunds 1,938 2,312 2,531 Other nonfarm income 3,329 5,498 2,747 Total nonfarm income 31,318 44,825 26,903 11 Gifts and inheritances 2,021 1,751 1,952 Nonfarm Assets (market) Checking & savings 7,585 5,415 4,213 11 Stocks & bonds 8,539 12,796 4,513 1 Other current assets 1,995 907 1,721 3 Furniture & appliances 8,057 8,679 8,908 3 Nonfarm vehicles 15,561 12,916 14,815 20 Cash value of life ins. 4,996 4,698 4,519 4 Retirement accounts 49,372 43,602 51,079 6 Other intermediate assets 5,488 7,080 6,055 6 Nonfarm real estate					140
Personal cash dividends 21 38 3 Tax refunds 1,938 2,312 2,531 Other nonfarm income 3,329 5,498 2,747 3 Total nonfarm income 31,318 44,825 26,903 11 Gifts and inheritances 2,021 1,751 1,952 Nonfarm Assets (market) Checking & savings 7,585 5,415 4,213 11 Stocks & bonds 8,539 12,796 4,513 1 Other current assets 1,995 907 1,721 1 Other current assets 1,995 907 1,721 1 Furniture & appliances 8,057 8,679 8,908 1 Nonfarm vehicles 15,561 12,916 14,815 20 Cash value of life ins. 4,996 4,698 4,519 4 Retirement accounts 49,372 43,602 51,079 60 Other intermediate assets 5,488 7,080 6,055 4 <t< td=""><td></td><td></td><td></td><td></td><td>387</td></t<>					387
Tax refunds 1,938 2,312 2,531 Other nonfarm income 3,329 5,498 2,747 3 Total nonfarm income 31,318 44,825 26,903 11 Gifts and inheritances 2,021 1,751 1,952 Nonfarm Assets (market) Checking & savings 7,585 5,415 4,213 13 Stocks & bonds 8,539 12,796 4,513 14 Other current assets 1,995 907 1,721 4 Furniture & appliances 8,057 8,679 8,908 3 Nonfarm vehicles 15,561 12,916 14,815 2 Cash value of life ins. 4,996 4,698 4,519 4 Retirement accounts 49,372 43,602 51,079 61 Other intermediate assets 5,488 7,080 6,055 4 Nonfarm real estate 73,917 63,313 68,668 9 Personal bus. investment 10,349 154 285					58
Other nonfarm income 3,329 5,498 2,747 3 Total nonfarm income 31,318 44,825 26,903 11 Gifts and inheritances 2,021 1,751 1,952 Nonfarm Assets (market) Checking & savings 7,585 5,415 4,213 13 Stocks & bonds 8,539 12,796 4,513 14 Other current assets 1,995 907 1,721 15 Furniture & appliances 8,057 8,679 8,908 17 Nonfarm vehicles 15,561 12,916 14,815 22 Cash value of life ins. 4,996 4,698 4,519 4 Retirement accounts 49,372 43,602 51,079 66 Other intermediate assets 5,488 7,080 6,055 4 Nonfarm real estate 73,917 63,313 68,668 99 Personal bus. investment 10,349 154 285 44 Other long term assets 193,972 1					1,112
Total nonfarm income 31,318 44,825 26,903 13 Giffs and inheritances 2,021 1,751 1,952 Nonfarm Assets (market) Checking & savings 7,585 5,415 4,213 13 Stocks & bonds 8,539 12,796 4,513 14 Other current assets 1,995 907 1,721 2 Furniture & appliances 8,057 8,679 8,908 3 Nonfarm vehicles 15,561 12,916 14,815 2 Cash value of life ins. 4,996 4,698 4,519 4 Retirement accounts 49,372 43,602 51,079 66 Other intermediate assets 5,488 7,080 6,055 4 Nonfarm real estate 73,917 63,313 68,668 9 Personal bus. investment 10,349 154 285 44 Other long term assets 8,115 15,240 3,079 6 Accrued interest 85 54 59					3,517
Roifts and inheritances 2,021 1,751 1,952 Nonfarm Assets (market) Checking & savings 7,585 5,415 4,213 13 Stocks & bonds 8,539 12,796 4,513 1 Other current assets 1,995 907 1,721 3 Furniture & appliances 8,057 8,679 8,908 3 Nonfarm vehicles 15,561 12,916 14,815 20 Cash value of life ins. 4,996 4,698 4,519 4 Retirement accounts 49,372 43,602 51,079 60 Other intermediate assets 5,488 7,080 6,055 6 Nonfarm real estate 73,917 63,313 68,668 96 Personal bus. investment 10,349 154 285 44 Other long term assets 8,115 15,240 3,079 6 Total nonfarm sasets 193,972 174,800 167,857 28 Nonfarm Liabilities 85 54 59					18,700
Nonfarm Assets (market) Checking & savings 7,585 5,415 4,213 13 Stocks & bonds 8,539 12,796 4,513 13 Other current assets 1,995 907 1,721 14 Furniture & appliances 8,057 8,679 8,908 15 Nonfarm vehicles 15,561 12,916 14,815 26 Cash value of life ins. 4,996 4,698 4,519 4 Retirement accounts 49,372 43,602 51,079 66 Other intermediate assets 5,488 7,080 6,055 4 Nonfarm real estate 73,917 63,313 68,668 96 Personal bus. investment 10,349 154 285 44 Other long term assets 8,115 15,240 3,079 3 Total nonfarm assets 193,972 174,800 167,857 28 Nonfarm Liabilities 85 54 59 4 59 Accrued interest 85 1,986	Total Holliam moonio	01,010	11,020	20,000	10,700
Checking & savings 7,585 5,415 4,213 13 Stocks & bonds 8,539 12,796 4,513 1 Other current assets 1,995 907 1,721 9 Furniture & appliances 8,057 8,679 8,908 Nonfarm vehicles 15,561 12,916 14,815 20 Cash value of life ins. 4,996 4,698 4,519 4 Cash value of life ins. 4,996 4,698 4,519 4 Retirement accounts 49,372 43,602 51,079 60 Other intermediate assets 5,488 7,080 6,055 4 Nonfarm real estate 73,917 63,313 68,668 90 Personal bus. investment 10,349 154 285 44 Other long term assets 8,115 15,240 3,079 4 Total nonfarm assets 193,972 174,800 167,857 28 Nonfarm Liabilities 85 54 59 Accounts payable 695	Gifts and inheritances	2,021	1,751	1,952	1,902
Stocks & bonds 8,539 12,796 4,513 14 Other current assets 1,995 907 1,721 2 Furniture & appliances 8,057 8,679 8,908 Nonfarm vehicles 15,561 12,916 14,815 20 Cash value of life ins. 4,996 4,698 4,519 4 Retirement accounts 49,372 43,602 51,079 60 Other intermediate assets 5,488 7,080 6,055 4 Nonfarm real estate 73,917 63,313 68,668 9 Personal bus. investment 10,349 154 285 44 Other long term assets 8,115 15,240 3,079 3 Total nonfarm assets 193,972 174,800 167,857 28 Nonfarm Liabilities 85 54 59 Accrued interest 85 54 59 Accounts payable 695 1,856 573 Current notes 1,986 2,853 66	Nonfarm Assets (market)				
Other current assets 1,995 907 1,721 5 Furniture & appliances 8,057 8,679 8,908 7 Nonfarm vehicles 15,561 12,916 14,815 20 Cash value of life ins. 4,996 4,698 4,519 6 Retirement accounts 49,372 43,602 51,079 60 Other intermediate assets 5,488 7,080 6,055 6 Nonfarm real estate 73,917 63,313 68,668 9 Personal bus. investment 10,349 154 285 44 Other long term assets 8,115 15,240 3,079 3 Total nonfarm assets 193,972 174,800 167,857 28 Nonfarm Liabilities 85 54 59 5 Accrued interest 85 54 59 5 Accounts payable 695 1,856 573 5 Current notes 1,986 2,853 660 6 Princ du	• • •	7,585	5,415	4,213	13,706
Furniture & appliances 8,057 8,679 8,908 Nonfarm vehicles 15,561 12,916 14,815 20 Cash value of life ins. 4,996 4,698 4,519 4 Retirement accounts 49,372 43,602 51,079 60 Other intermediate assets 5,488 7,080 6,055 4 Nonfarm real estate 73,917 63,313 68,668 90 Personal bus. investment 10,349 154 285 44 Other long term assets 8,115 15,240 3,079 6 Other long term assets 193,972 174,800 167,857 28 Nonfarm Liabilities 8 54 59 54 59 Accrued interest 85 54 59 54 59 66 Accounts payable 695 1,856 573 60 573 60 Current notes 1,986 2,853 660 60 60 60 7 7 7 <td>Stocks & bonds</td> <td>8,539</td> <td>12,796</td> <td>4,513</td> <td>14,192</td>	Stocks & bonds	8,539	12,796	4,513	14,192
Nonfarm vehicles 15,561 12,916 14,815 20 Cash value of life ins. 4,996 4,698 4,519 4 Retirement accounts 49,372 43,602 51,079 60 Other intermediate assets 5,488 7,080 6,055 4 Nonfarm real estate 73,917 63,313 68,668 90 Personal bus. investment 10,349 154 285 44 Other long term assets 8,115 15,240 3,079 3 Total nonfarm assets 193,972 174,800 167,857 28 Nonfarm Liabilities 85 54 59 59 Accounts payable 695 1,856 573 57 Current notes 1,986 2,853 660 60 Princ due on term debt 2,831 3,184 2,337 3 Total current liabilities 7,895 8,266 4,015 14 Intermediate liabilities 4,566 5,088 6,711 3	Other current assets	1,995	907	1,721	5,031
Cash value of life ins. 4,996 4,698 4,519 4 Retirement accounts 49,372 43,602 51,079 60 Other intermediate assets 5,488 7,080 6,055 6 Nonfarm real estate 73,917 63,313 68,668 90 Personal bus. investment 10,349 154 285 44 Other long term assets 8,115 15,240 3,079 3 Total nonfarm assets 193,972 174,800 167,857 28 Nonfarm Liabilities 85 54 59 Accrued interest 85 54 59 Accounts payable 695 1,856 573 Current notes 1,986 2,853 660 Princ due on term debt 2,831 3,184 2,337 3 Total current liabilities 7,895 8,266 4,015 1 Intermediate liabilities 4,566 5,088 6,711 3 Long term liabilities 33,228 32,053 29,917 44 Nonfarm net worth 160,744	Furniture & appliances	8,057	8,679	8,908	7,950
Retirement accounts 49,372 43,602 51,079 66 Other intermediate assets 5,488 7,080 6,055 6 Nonfarm real estate 73,917 63,313 68,668 96 Personal bus. investment 10,349 154 285 44 Other long term assets 8,115 15,240 3,079 3 Total nonfarm assets 193,972 174,800 167,857 28 Nonfarm Liabilities 4 59 59 50 60	Nonfarm vehicles	15,561	12,916	14,815	20,976
Other intermediate assets 5,488 7,080 6,055 Nonfarm real estate 73,917 63,313 68,668 98 Personal bus. investment 10,349 154 285 44 Other long term assets 8,115 15,240 3,079 3 Total nonfarm assets 193,972 174,800 167,857 283 Nonfarm Liabilities 85 54 59 59 54 59 60 <td< td=""><td>Cash value of life ins.</td><td>4,996</td><td>4,698</td><td>4,519</td><td>4,353</td></td<>	Cash value of life ins.	4,996	4,698	4,519	4,353
Nonfarm real estate 73,917 63,313 68,668 98 Personal bus. investment 10,349 154 285 44 Other long term assets 8,115 15,240 3,079 3 Total nonfarm assets 193,972 174,800 167,857 283 Nonfarm Liabilities 283 54 59 59 59 59 50 60	Retirement accounts	49,372	43,602	51,079	60,118
Personal bus. investment 10,349 154 285 44 Other long term assets 8,115 15,240 3,079 3 Total nonfarm assets 193,972 174,800 167,857 28 Nonfarm Liabilities 285 54 59 59 59 59 50 60 <t< td=""><td>Other intermediate assets</td><td>5,488</td><td>7,080</td><td>6,055</td><td>4,954</td></t<>	Other intermediate assets	5,488	7,080	6,055	4,954
Other long term assets 8,115 15,240 3,079 3 Total nonfarm assets 193,972 174,800 167,857 283 Nonfarm Liabilities 283 54 59 60 </td <td>Nonfarm real estate</td> <td>73,917</td> <td>63,313</td> <td>68,668</td> <td>98,305</td>	Nonfarm real estate	73,917	63,313	68,668	98,305
Nonfarm Liabilities 85 54 59 Accounts payable 695 1,856 573 Current notes 1,986 2,853 660 Princ due on term debt 2,831 3,184 2,337 3 Total current liabilities 7,895 8,266 4,015 14 Intermediate liabilities 4,566 5,088 6,711 3 Long term liabilities 20,767 18,699 19,191 26 Total nonfarm liabilities 33,228 32,053 29,917 46 Nonfarm net worth 160,744 142,747 137,939 236	Personal bus. investment	10,349	154	285	45,284
Nonfarm Liabilities Accrued interest 85 54 59 Accounts payable 695 1,856 573 Current notes 1,986 2,853 660 Princ due on term debt 2,831 3,184 2,337 3 Total current liabilities 7,895 8,266 4,015 14 Intermediate liabilities 4,566 5,088 6,711 3 Long term liabilities 20,767 18,699 19,191 26 Total nonfarm liabilities 33,228 32,053 29,917 46 Nonfarm net worth 160,744 142,747 137,939 236	Other long term assets	8,115	15,240	3,079	8,151
Accrued interest 85 54 59 Accounts payable 695 1,856 573 Current notes 1,986 2,853 660 Princ due on term debt 2,831 3,184 2,337 3 Total current liabilities 7,895 8,266 4,015 14 Intermediate liabilities 4,566 5,088 6,711 3 Long term liabilities 20,767 18,699 19,191 26 Total nonfarm liabilities 33,228 32,053 29,917 46 Nonfarm net worth 160,744 142,747 137,939 236	Total nonfarm assets	193,972	174,800	167,857	283,018
Accounts payable 695 1,856 573 Current notes 1,986 2,853 660 Princ due on term debt 2,831 3,184 2,337 3 Total current liabilities 7,895 8,266 4,015 14 Intermediate liabilities 4,566 5,088 6,711 3 Long term liabilities 20,767 18,699 19,191 26 Total nonfarm liabilities 33,228 32,053 29,917 46 Nonfarm net worth 160,744 142,747 137,939 236	Nonfarm Liabilities				
Current notes 1,986 2,853 660 Princ due on term debt 2,831 3,184 2,337 3 Total current liabilities 7,895 8,266 4,015 14 Intermediate liabilities 4,566 5,088 6,711 3 Long term liabilities 20,767 18,699 19,191 26 Total nonfarm liabilities 33,228 32,053 29,917 46 Nonfarm net worth 160,744 142,747 137,939 23	Accrued interest		54		85
Princ due on term debt 2,831 3,184 2,337 3 Total current liabilities 7,895 8,266 4,015 14 Intermediate liabilities 4,566 5,088 6,711 3 Long term liabilities 20,767 18,699 19,191 26 Total nonfarm liabilities 33,228 32,053 29,917 46 Nonfarm net worth 160,744 142,747 137,939 23	• •		1,856		93
Total current liabilities 7,895 8,266 4,015 14 Intermediate liabilities 4,566 5,088 6,711 3 Long term liabilities 20,767 18,699 19,191 26 Total nonfarm liabilities 33,228 32,053 29,917 46 Nonfarm net worth 160,744 142,747 137,939 236					450
Intermediate liabilities 4,566 5,088 6,711 3 Long term liabilities 20,767 18,699 19,191 26 Total nonfarm liabilities 33,228 32,053 29,917 46 Nonfarm net worth 160,744 142,747 137,939 236	Princ due on term debt				3,522
Long term liabilities 20,767 18,699 19,191 20,767 20,767 18,699 19,191 20,767 <t< td=""><td></td><td></td><td></td><td></td><td>14,008</td></t<>					14,008
Total nonfarm liabilities 33,228 32,053 29,917 46 Nonfarm net worth 160,744 142,747 137,939 236					3,384
Nonfarm net worth 160,744 142,747 137,939 230	-				28,849
· · · · · · · · · · · · · · · · · · ·	Total nonfarm liabilities	33,228	32,053	29,917	46,241
					236,777
Nonfarm debt to asset ratio 17 % 18 % 18 %	Nonfarm debt to asset ratio	17 %	18 %	18 %	16 %

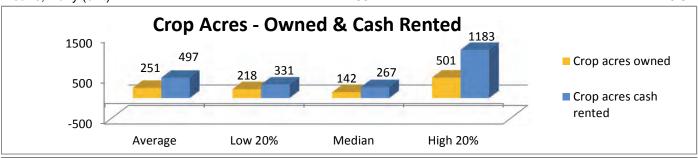
Operator and Labor Information Northern Minnesota Farm Business Management Data (Farms Sorted By Net Farm Income)

	Avg. Of			
	All Farms	Low 20%	40 - 60%	High 20%
Number of farms	615	123	123	123
Operator Information				
Average number of operators	1.2	1.2	1.1	1.3
Average age of operators	46.5	49.6	44.0	46.5
Average number of years farming	21.5	24.8	19.3	22.8
Results Per Operator				
Working capital	117,938	7,189	17,860	382,163
Total assets (market)	1,904,925	1,582,969	1,316,350	3,477,488
Total liabilities	861,936	878,118	633,160	1,451,198
Net worth (market)	1,042,988	704,851	683,190	2,026,290
Net worth excl deferred liabs	1,196,250	822,547	777,692	2,350,282
Gross farm income	515,103	364,559	310,912	1,124,100
Total farm expense	465,119	431,316	287,983	903,936
Net farm income from operations	49,985	-66,757	22,929	220,164
Net nonfarm income	26,306	36,059	25,184	14,185
Family living & tax withdrawals	44,273	34,445	36,391	68,631
Total acres owned	265.3	219.3	185.3	470.1
Total crop acres	633.3	442.0	383.8	1,293.3
Crop acres owned	210.7	175.0	132.9	379.9
Crop acres cash rented	417.6	266.5	249.8	897.1
Crop acres share rented	5.1	0.5	1.1	16.2
Total pasture acres	28.4	36.0	22.1	31.8
Labor Analysis				
Number of farms	615	123	123	123
Total unpaid labor hours	2,549	2,607	2,378	3,118
Total hired labor hours	2,067	2,643	761	4,507
Total labor hours per farm	4,616	5,250	3,139	7,625
Unpaid hours per operator	2,141	2,097	2,226	2,365
Value of farm production / hour	111.29	64.77	89.16	165.68
Net farm income / unpaid hour	23.35	-31.83	10.30	93.08
Average hourly hired labor wage	16.69	16.61	15.26	16.79
Partnerships & LLCs				
Number of farms	75	15	10	23
Number of operators	2.2	2.3	1.9	2.2
Owner withdrawals per farm	83,679	-	-	122,652
Withdrawals per operator	38,492	-	-	57,719
Corporations				
Number of farms	17	5	1	6
Number of operators	2.3	2.0	-	2.0

Crop Production and Marketing Summary Northern Minnesota Farm Business Management Data

(Farms Sorted By Net Farm Income)

	Avg. Of			
	All Farms	Low 20%	<u>40 - 60%</u>	<u>High 20%</u>
Number of farms	615	123	123	123
Acreage Summary				
Total acres owned	316	273	198	620
Total crop acres	754	549	410	1,705
Crop acres owned	251	218	142	501
Crop acres cash rented	497	331	267	1183
Crop acres share rented	6	1	1	21
Total pasture acres	34	45	24	42
Percent crop acres owned	33 %	40 %	35 %	29 %
Mach invest/crop acre cost	531	676	522	482
Mach invest/crop acre market	615	789	581	566
Average Price Received (Cash Sales Only)				
Soybeans per bushel	8.84	8.85	9.03	9.08
Corn per bushel	3.22	3.22	3.26	3.22
Wheat, Spring per bushel	5.68	5.49	5.61	5.70
Hay, Alfalfa per ton	115.46	141.44	-	-
Oats per bushel	2.65	2.07	2.92	2.87
Barley per bushel	4.45	-	-	4.45
Hay, Grass per ton	86.43	75.66	-	_
Hay per ton	84.08	95.75	74.21	101.59
Corn Silage per ton	28.34	-	-	-
Rye per bushel	5.06	-	-	-
Sunflowers per cwt	19.10	-	-	-
Grass Seed, Perennial Rye per lb	0.572	-	-	0.575
Soybeans, Food per bushel	12.56	-	-	-
Beans, Navy per cwt	23.57	-	-	-
Average Yield Per Acre				
Soybeans (bushel)	40.22	40.50	40.45	40.43
Corn (bushel)	176.00	166.23	167.95	185.23
Corn Silage (ton)	20.40	19.22	19.61	21.00
Hay, Alfalfa (ton)	4.00	4.08	3.63	4.20
Wheat, Spring (bushel)	61.56	56.56	59.96	63.54
Hay (ton)	2.43	1.95	2.92	2.46
Hay, Grass (ton)	1.87	2.04	1.93	2.03
Oats (bushel)	69.77	56.13	79.24	-
Barley (bushel)	76.75	72.26 -		78.13
Rye (bushel)	17.72	-		
Soybeans, Food (bushel)	32.50	-	-	-
Sunflowers (cwt)	15.68	-	-	-
Beans, Navy (cwt)	17.65	-	-	20.82



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.

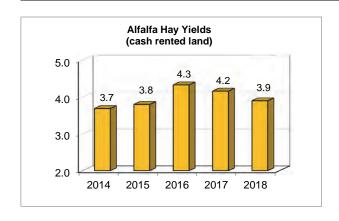
At the bottom of each livestock report, there is a list of selected factors for each enterprise. These factors are a combination of production indicators and efficiency indicators.

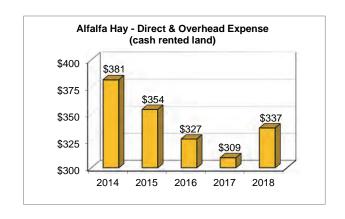
Towards the bottom of both the <u>crop and livestock</u> enterprise tables, are four (4) factors that show varying levels of Cost of Production. Those factors include a cost of production based on: direct costs, overhead & direct costs, total cost less government payments and/or other revenue, and total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

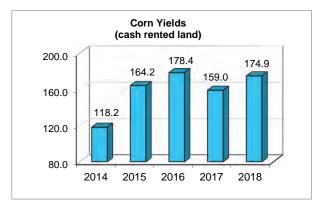
<u>Machinery Cost per Acre</u> is a factor used to combine all costs related to machinery usage. The Machinery Cost per Acre includes: Fuel & Oil, Repairs, Custom hire, Machinery leases, Interest on machinery debt, and Machinery depreciation. A machinery cost summary for five prominent Northern Minnesota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

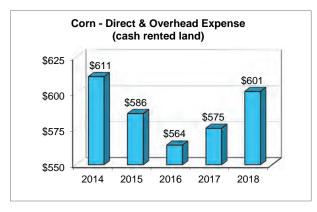
Crop	2014	2015	2016	2017	2018
Alfalfa Hay	\$190.49	\$164.47	\$169.50	\$171.76	\$177.01
Corn	\$162.84	\$159.23	\$151.43	\$153.51	\$161.45
Corn Silage	\$229.01	\$209.02	\$204.12	\$214.87	\$206.32
Soybeans	\$87.39	\$81.89	\$88.15	\$83.66	\$88.20
Spring Wheat	\$86.33	\$84.02	\$84.95	\$83.56	\$87.85

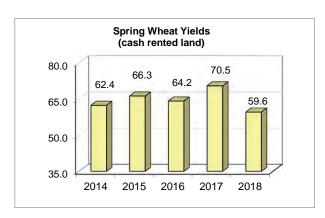
Five Year History of Crop Yields and Cost of Production Northern Minnesota Farm Business Management Data

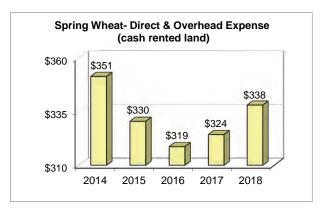


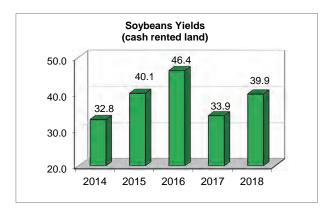


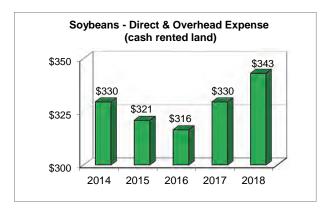












Corn on Owned Land

	Avg. Of All Farms	40 - 60%	High 20%
Number of farms	187	38	38
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	123.95 178.95 100.00 3.22 3.75 579.33 2.07 4.58 6.25 592.24	159.54 176.97 100.00 3.19 5.59 570.45 - 3.47 573.92	160.25 197.85 100.00 3.30 4.67 657.04 7.90 4.42 11.87 681.23
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drying expense Storage Packaging and supplies Fuel & oil Repairs Custom hire Hired labor Machinery leases Utilities Hauling and trucking Marketing Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	89.98	95.45	82.11
	96.97	106.00	91.39
	25.79	22.57	22.49
	18.43	19.46	17.42
	18.64	15.29	22.02
	2.49	0.73	2.12
	0.77	0.50	0.50
	32.34	33.54	28.26
	49.84	56.56	44.53
	14.85	9.34	11.59
	5.55	9.45	2.91
	2.25	1.49	0.40
	0.50	0.15	0.01
	2.01	1.50	0.93
	1.64	0.36	1.16
	13.83	18.18	13.85
	2.15	2.46	2.73
	378.01	393.04	344.41
	214.23	180.88	336.82
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	10.75	10.00	14.24
	2.93	0.38	4.06
	1.44	0.55	4.34
	18.64	21.41	23.24
	10.61	10.30	9.90
	6.40	4.90	7.72
	4.67	4.98	3.27
	54.08	36.38	76.14
	57.14	48.83	54.79
	8.79	18.54	6.66
	175.47	156.26	204.36
	553.48	549.29	548.77
	38.76	24.62	132.46
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	2.36	1.17	1.61
	41.12	25.79	134.07
	45.44	40.30	41.56
	-4.33	-14.51	92.51
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	2.11	2.22	1.74
	3.09	3.10	2.77
	2.99	3.05	2.62
	3.24	3.27	2.83
Net value per unit	3.23	3.19	3.34
Machinery cost per acre	161.45	150.90	141.86
Est. labor hours per acre	3.54	3.21	3.24

Corn on Cash Rent

	Avg. Of _All Farms	40 - 60%	High 20%
Number of farms	244	49	49
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Other product return per acre Total product return per acre Hedging gains/losses per acre Crop insurance per acre Other crop income per acre Gross return per acre	223.45 174.96 100.00 3.29 2.28 577.75 1.23 5.88 7.00 591.86	233.42 169.88 100.00 3.25 2.03 553.51 0.05 7.15 560.71	206.37 192.04 100.00 3.34 7.73 649.83 0.26 0.75 15.72 666.56
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drying expense Storage Packaging and supplies Fuel & oil Repairs Custom hire Hired labor Land rent Machinery leases Utilities Hauling and trucking Marketing Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	89.07	90.86	92.67
	100.94	106.12	85.84
	25.86	25.14	25.62
	17.16	17.54	18.02
	20.40	17.14	18.12
	1.73	1.10	0.99
	0.71	0.20	0.48
	28.70	30.69	26.43
	45.22	41.64	42.60
	16.14	14.87	9.34
	5.28	7.92	0.77
	127.82	103.22	114.43
	2.82	3.72	1.26
	0.43	0.71	0.07
	1.41	0.87	0.74
	2.07	0.85	2.27
	14.82	15.93	7.98
	2.31	2.35	1.73
	502.90	480.88	449.36
	88.96	79.83	217.20
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	9.79	10.24	11.36
	7.31	2.61	8.69
	3.26	1.70	1.90
	8.40	8.19	9.73
	5.69	5.08	7.63
	3.50	4.42	4.56
	7.81	9.35	5.20
	44.60	40.18	53.08
	7.41	14.01	7.91
	97.78	95.79	110.07
	600.68	576.66	559.42
	-8.82	-15.95	107.14
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	2.39	2.26	3.87
	-6.43	-13.69	111.00
	39.45	35.43	52.23
	-45.88	-49.12	58.77
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	2.87	2.83	2.34
	3.43	3.39	2.91
	3.33	3.33	2.77
	3.55	3.54	3.04
Net value per unit	3.30	3.25	3.34
Machinery cost per acre	147.85	140.34	139.41
Est. labor hours per acre	2.85	3.05	2.76

Soybeans on Owned Land

	Avg. Of _All Farms	<u>40 - 60%</u>	High 20%
Number of farms	187	38	38
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	210.68 40.98 100.00 8.38 0.00 343.29 1.66 9.78 72.08 426.81	207.13 40.83 100.00 8.45 344.92 10.91 67.04 422.87	149.22 54.99 100.00 8.70 0.01 478.20 11.57 2.93 106.17 598.87
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drying expense Fuel & oil Repairs Custom hire Hired labor Machinery leases Utilities Hauling and trucking Marketing Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	59.64	58.41	53.61
	30.68	35.02	32.35
	29.98	25.85	46.22
	14.64	13.13	15.28
	0.73	0.27	0.36
	17.60	16.96	19.11
	26.53	24.81	33.12
	8.27	7.96	5.12
	1.92	1.17	1.39
	2.20	1.25	3.75
	0.35	0.26	0.91
	0.96	0.26	1.05
	1.03	0.79	1.64
	6.37	4.58	7.59
	1.85	1.12	5.04
	202.75	191.84	226.54
	224.06	231.02	372.33
Overhead Expenses Hired labor Machinery leases Building leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	6.43	3.74	8.21
	1.11	0.60	2.27
	0.46	0.59	0.35
	13.74	11.04	21.57
	6.77	5.22	7.00
	4.12	3.22	4.17
	2.59	1.35	2.74
	32.98	26.47	46.61
	32.52	37.60	38.68
	4.76	1.22	4.03
	105.49	91.04	135.63
	308.24	282.89	362.17
	118.57	139.98	236.70
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	6.85	11.15	2.25
	125.42	151.13	238.95
	29.39	28.66	31.36
	96.04	122.48	207.58
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	4.95	4.70	4.12
	7.52	6.93	6.59
	5.32	4.75	4.35
	6.03	5.45	4.92
Net value per unit	8.42	8.45	8.91
Machinery cost per acre	88.20	88.45	103.07
Est. labor hours per acre	1.76	1.65	1.99

Soybeans on Cash Rent

	Avg. Of All Farms	<u>40 - 60%</u>	High 20%
Number of farms	269	54	54
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	346.21 39.90 100.00 8.44 0.04 336.84 0.72 12.54 67.14	348.37 38.87 100.00 8.22 319.65 14.39 61.25 395.29	308.50 49.47 100.00 8.70 0.24 430.54 3.54 8.58 95.27 537.93
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drying expense Storage 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	58.47	53.47	59.83
	25.63	27.70	27.65
	31.56	29.41	32.95
	14.64	15.69	15.46
	0.60	0.46	1.26
	0.22	0.11	0.78
	16.95	16.85	18.21
	23.73	22.21	25.47
	8.20	6.90	4.34
	1.59	0.25	2.16
	94.38	85.03	106.57
	2.73	1.52	2.33
	0.59	0.76	0.53
	0.95	0.52	1.13
	7.30	5.47	6.24
	1.62	1.07	2.40
	289.15	267.42	307.31
	128.09	127.87	230.62
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	6.55	4.56	10.65
	3.43	4.69	1.49
	0.92	0.64	0.53
	5.27	4.92	6.19
	3.50	3.77	4.87
	2.01	2.12	3.07
	4.11	4.65	4.15
	25.57	27.08	30.72
	2.48	2.21	4.37
	53.82	54.64	66.03
	342.97	322.06	373.34
	74.27	73.23	164.58
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	7.37	8.19	3.78
	81.64	81.42	168.37
	26.25	27.72	27.73
	55.39	53.69	140.64
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	7.25	6.88	6.21
	8.60	8.29	7.55
	6.40	6.13	5.29
	7.05	6.84	5.86
Net value per unit	8.46	8.22	8.77
Machinery cost per acre	82.46	81.65	84.06
Est. labor hours per acre	1.56	1.56	1.73

Wheat, Spring on Owned Land

	Avg. Of All Farms	40 - 60%	High 20%
Number of farms	102	21	21
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	249.45 65.78 100.00 5.47 0.26 360.16 0.81 4.42 18.90 384.29	188.03 58.00 100.00 5.60 0.09 324.71 10.00 11.41 346.12	469.93 74.83 100.00 5.52 413.14 2.10 3.83 19.73 438.79
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drying expense Storage Fuel & oil Repairs Custom hire Hired labor Machinery leases Hauling and trucking Marketing Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	20.57 79.77 31.28 11.40 0.59 0.30 18.36 26.89 8.45 2.57 0.62 0.82 0.70 6.49 0.98 209.80 174.49	19.56 74.94 29.64 11.44 0.58 0.90 17.36 26.00 5.38 4.53 0.30 1.67 6.35 0.90 199.56 146.56	17.93 77.85 32.17 12.94 0.80 0.29 16.89 20.87 10.14 0.09 1.92 0.44 4.72 0.66 197.70 241.09
Overhead Expenses Hired labor Machinery leases Building leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	7.83 1.95 0.61 12.22 6.32 4.29 2.12 22.15 32.19 4.11 93.79 303.60 80.69	8.53 2.45 15.88 5.43 3.33 2.50 14.72 21.71 2.96 77.52 277.07 69.05	6.71 3.12 0.68 8.62 5.36 4.22 1.59 21.94 39.98 3.97 96.19 293.89 144.90
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	9.72 90.41 27.47 62.94	4.95 74.00 28.91 45.09	12.92 157.82 28.86 128.96
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	3.19 4.62 4.10 4.51	3.44 4.78 4.32 4.82	2.64 3.93 3.41 3.80
Net value per unit Machinery cost per acre Est. labor hours per acre	5.48 87.85 1.47	5.60 72.92 1.70	5.55 89.34 1.35

Wheat, Spring on Cash Rent

	Avg. Of All Farms	<u>40 - 60%</u>	High 20%
Number of farms	141	28	29
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	376.94 59.61 100.00 5.53 0.33 330.13 2.13 7.44 16.19 355.89	656.60 55.95 100.00 5.46 305.32 1.30 15.70 14.69 337.01	445.27 70.61 100.00 5.65 399.10 6.92 3.09 18.65 427.76
Direct Expenses Seed and plants Fertilizer Crop chemicals Cover crop expense Crop insurance Drying expense 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	20.83 81.19 30.16 0.37 11.57 0.76 16.79 22.47 7.56 1.76 79.62 1.84 0.33 0.92 6.64 1.27 284.06 71.83	19.56 85.77 29.03 0.54 10.35 1.04 17.20 22.34 7.14 0.28 86.14 0.97 0.08 0.59 5.90 1.06 288.00 49.01	20.25 78.72 32.89 13.23 0.33 15.72 20.30 10.59 61.14 1.79 0.71 0.17 7.00 0.49 263.34 164.42
Overhead Expenses Hired labor Machinery leases Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	8.85 3.71 0.88 5.40 3.89 2.21 3.08 22.69 3.66 54.38 338.44 17.45	12.26 3.12 1.04 5.27 4.64 1.96 2.05 20.22 1.61 52.17 340.17 -3.16	7.64 6.03 1.53 4.81 3.69 1.93 4.84 25.48 4.90 60.86 324.19
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	7.24 24.69 25.78 -1.08	6.39 3.24 23.55 -20.31	10.93 114.49 27.30 87.20
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	4.77 5.68 5.12 5.55	5.15 6.08 5.40 5.82	3.73 4.59 4.03 4.42
Net value per unit Machinery cost per acre Est. labor hours per acre	5.57 76.52 1.52	5.48 72.06 1.52	5.75 82.20 1.31

Corn Silage on Owned Land

	Avg. Of _All Farms	40 - 60%	High 20%
Number of farms	154	31	31
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	58.80	63.82	50.25
	20.57	20.57	25.79
	100.00	100.00	100.00
	29.98	30.00	30.67
	616.82	617.05	791.00
	1.82	0.39	0.23
	1.52	0.40	3.95
	620.16	617.84	795.19
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Storage Packaging and supplies Fuel & oil Repairs Custom hire Hired labor Machinery leases Utilities Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	88.98	93.71	80.98
	55.15	59.01	31.20
	30.49	26.17	27.34
	12.76	12.76	12.38
	0.92	1.23	3.03
	12.01	11.80	12.07
	41.35	44.67	40.26
	53.94	65.40	45.19
	49.41	35.84	36.93
	2.98	4.03	0.04
	2.49	1.33	4.46
	0.53	0.74	0.14
	6.28	6.75	7.08
	3.70	1.89	0.51
	361.00	365.31	301.62
	259.16	252.53	493.57
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	22.92	14.09	13.96
	2.43	3.27	2.10
	0.58	1.39	0.24
	12.49	10.77	15.73
	9.98	10.84	10.75
	6.63	6.35	9.39
	3.72	5.94	3.47
	57.03	47.72	90.47
	51.77	43.42	60.79
	5.15	2.57	8.35
	172.70	146.36	215.24
	533.70	511.67	516.86
	86.46	106.17	278.33
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	2.90	1.27	0.28
	89.35	107.44	278.61
	42.16	34.81	54.93
	47.19	72.63	223.68
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	17.55	17.76	11.69
	25.94	24.88	20.04
	25.64	24.78	19.87
	27.69	26.47	21.99
Net value per unit	29.98	30.00	30.67
Machinery cost per acre	206.31	197.38	199.11
Est. labor hours per acre	5.44	6.17	5.78

Corn Silage on Cash Rent

	Avg. Of _All Farms	40 - 60%	High 20%
Number of farms	117	24	24
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	94.45	64.90	67.78
	20.27	20.83	22.59
	100.00	100.00	100.00
	29.62	30.12	31.04
	600.47	627.28	701.02
	5.20	0.14	34.68
	2.55	0.87	1.50
	608.23	628.29	737.20
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Storage Packaging and supplies Fuel & oil Repairs Custom hire Hired labor Land rent Machinery leases Utilities Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	97.29 73.16 33.45 15.06 1.00 18.88 42.03 53.36 49.81 3.50 93.62 2.70 0.40 4.51 3.76 492.54 115.69	98.08 58.41 28.12 16.63 3.52 8.77 42.38 58.13 55.40 1.74 95.59 5.02 0.84 3.81 3.01 479.45 148.84	81.37 48.19 27.38 11.37 2.11 3.70 34.16 48.38 12.92 3.64 87.10 4.96 0.18 6.16 1.21 372.84 364.36
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	22.91	18.46	12.15
	6.03	6.59	2.04
	0.92	2.14	2.30
	7.30	13.07	9.02
	4.69	6.68	5.12
	2.91	5.97	2.47
	12.56	15.88	14.85
	48.13	53.74	47.93
	2.97	3.95	3.61
	108.41	126.49	99.48
	600.95	605.94	472.31
	7.28	22.35	264.89
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	4.12	2.27	0.06
	11.40	24.62	264.95
	38.86	61.66	42.68
	-27.46	-37.04	222.27
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	24.30	23.02	16.51
	29.64	29.09	20.91
	29.06	28.93	19.31
	30.97	31.89	21.20
Net value per unit	29.62	30.12	31.04
Machinery cost per acre	209.73	227.51	160.56
Est. labor hours per acre	4.42	5.77	3.41

Hay, Alfalfa on Owned Land

	Avg. Of All Farms	40 - 60%	<u> High 20%</u>
Number of farms	101	20	21
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	54.03	46.44	58.01
	4.08	4.11	5.55
	100.00	100.00	100.00
	134.75	134.41	146.80
	550.14	551.87	815.31
	0.13	-	-
	1.02	2.29	0.07
	551.30	554.16	815.38
Direct Expenses Fertilizer Crop chemicals 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	25.07 1.63 1.91 1.51 6.14 38.55 55.15 18.70 0.87 3.38 7.68 1.96 162.56 388.73	27.66 0.55 1.09 10.51 47.44 54.66 29.19 10.90 8.09 2.07 192.16 362.01	27.99 2.41 3.84 4.99 9.04 37.23 55.59 17.20 0.38 0.31 5.14 1.26 165.38 649.99
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	18.69 2.74 0.72 14.06 11.92 6.30 3.66 59.67 55.68 4.54 177.98 340.55 210.75	19.52 1.94 17.52 10.66 5.87 4.00 63.19 58.27 5.84 186.82 378.98 175.18	29.75 2.70 0.62 11.86 14.88 6.59 2.55 72.82 69.02 3.37 214.15 379.53 435.85
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	0.62	0.19	0.15
	211.37	175.37	435.99
	47.75	41.93	43.63
	163.62	133.44	392.36
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	39.82	46.80	29.78
	83.41	92.30	68.34
	82.98	91.70	68.30
	94.68	101.91	76.15
Net value per unit	134.75	134.41	146.80
Machinery cost per acre	177.01	201.23	191.94
Est. labor hours per acre	5.04	4.43	6.20

Hay, Alfalfa on Cash Rent

	Avg. Of _All Farms	40 - 60%	High 20%
Number of farms	100	20	20
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	69.36 3.97 100.00 125.24 497.48 1.48 1.69 500.66	70.66 3.78 100.00 128.50 485.34 - 0.69 486.04	66.61 5.45 100.00 146.31 797.77 7.70 0.25 805.73
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Storage Packaging and supplies Fuel & oil Repairs Custom hire Hired labor Land rent Machinery leases Utilities Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	1.40 33.97 2.21 1.53 1.74 5.26 32.77 50.97 11.76 0.16 85.88 2.35 0.22 6.78 2.68 239.68 260.98	0.11 39.56 3.42 0.68 4.06 38.04 48.19 22.42 0.78 67.73 8.02 0.64 3.36 0.12 237.11 248.92	22.00 0.76 3.81 7.39 6.52 32.51 50.31 5.40 95.87 0.45 4.50 10.17 239.68 566.04
Overhead Expenses Hired labor Machinery leases Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	18.33 3.75 0.98 7.19 4.91 3.66 10.08 43.90 4.57 97.37 337.05 163.61	12.00 2.34 6.60 4.50 2.47 4.86 32.75 4.33 69.85 306.96 179.07	22.94 7.54 0.35 6.79 4.71 2.85 14.73 54.55 2.37 116.83 356.51 449.22
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	0.48 164.09 44.90 119.19	0.01 179.08 32.02 147.06	449.22 47.47 401.75
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	60.34 84.85 83.93 95.23	62.78 81.27 81.09 89.57	43.96 65.38 63.93 72.63
Net value per unit Machinery cost per acre Est. labor hours per acre	125.24 150.72 4.21	128.50 153.39 3.28	146.31 158.16 5.98

Hay, Mixed on Cash Rent

	Avg. Of All Farms	40 - 60%	High 20%
Number of farms	23	4	5
Acres	134.08	74.53	190.97
Yield per acre (ton)	2.07	2.91	2.24
Operators share of yield %	100.00	100.00	100.00
Value per ton	75.50	70.37	91.27
Total product return per acre	156.44	204.90	204.26
Other crop income per acre	2.22	-	-
Gross return per acre	158.66	204.90	204.26
Direct Expenses			
Seed and plants	0.26	-	0.74
Fertilizer	6.27	47.30	-
Crop chemicals	0.83	- -	1.43
Packaging and supplies	2.80	0.81	3.15
Fuel & oil	19.18	17.75	13.94
Repairs	21.83	18.64	12.65
Custom hire	4.50	25.76	2.01
Hiredlabor	3.26	0.81	10.09
Land rent	25.59	24.51	21.68
Utilities	0.44	0.83	0.43
Operating interest	4.16	3.47	1.01
Miscellaneous	2.27	0.13	0.49
Total direct expenses per acre	91.37	139.99	67.63
Return over direct exp per acre	67.29	64.91	136.63
Overhead Expenses			
Hiredlabor	2.61	4.51	0.46
Machinery leases	3.32	0.06	0.30
Farm insurance	4.57	5.59	3.33
Utilities	1.82	0.86	0.45
Dues & professional fees	1.19	0.93	0.35
Interest	7.18	1.31	9.68
Mach & bldg depreciation	15.11	19.39	5.98
Miscellaneous	2.23	1.36	2.49
Total overhead expenses per acre	38.04	34.00	23.04
Total dir & ovhd expenses per acre	129.41	173.99	90.67
Net return per acre	29.25	30.90	113.59
Government payments	1.05	1.92	-
Net return with govt pmts	30.30	32.82	113.59
Labor & management charge	22.53	27.66	14.95
Net return over lbr & mgt	7.77	5.16	98.64
Cost of Production			
Total direct expense per ton	44.10	48.08	30.22
Total dir & ovhd exp per ton	62.45	59.76	40.51
Less govt & other income	60.88	59.10	40.51
With labor & management	71.75	68.60	47.20
Net value per unit	75.50	70.37	91.27
Machinery cost per acre	70.13	79.84	44.21
Est. labor hours per acre	2.36	3.16	3.42

Hay, Grass on Cash Rent

	Avg. Of All Farms	40 - 60%	High 20%
Number of farms	58	11	12
Acres	61.14	71.44	28.67
Yield per acre (ton)	1.85	2.19	3.20
Operators share of yield %	100.00	100.00	100.00
Value per ton	72.57	71.33	78.55
Total product return per acre	134.58	156.21	251.51
Other crop income per acre	1.38	-	-
Gross return per acre	135.96	156.21	251.51
Direct Expenses			
Seed and plants	0.48	0.57	0.52
Fertilizer	5.84	7.63	5.87
Packaging and supplies	3.58	7.81	0.70
Fuel & oil	15.11	15.94	18.48
Repairs	21.69	27.57	25.88
Custom hire	2.91	1.83	-
Hired labor	0.69	1.20	-
Land rent	46.74	45.19	32.85
Machinery leases	2.52	-	7.50
Utilities	0.61	0.04	-
Operating interest	2.28	2.53	1.65
Miscellaneous	2.11	4.89	2.04
Total direct expenses per acre	104.55	115.21	95.49
Return over direct exp per acre	31.41	41.00	156.02
Overhead Expenses			
Hiredlabor	12.31	16.93	15.87
Machinery leases	2.86	10.16	0.66
Building leases	0.51	0.44	-
Farm insurance	2.97	3.24	2.61
Utilities	1.75	2.84	3.24
Dues & professional fees	1.13	2.19	1.23
Interest	6.17	6.88	10.48
Mach & bldg depreciation	21.20	23.85	21.05
Miscellaneous	2.51	2.48	2.17
Total overhead expenses per acre	51.41	69.01	57.31
Total dir & ovhd expenses per acre	155.95	184.22	152.80
Net return per acre	-19.99	-28.01	98.71
Government payments	1.26	-	-
Net return with govt pmts	-18.73	-28.01	98.71
Labor & management charge	14.70	13.34	22.10
Net return over lbr & mgt	-33.43	-41.35	76.61
Cost of Production			
Total direct expense per ton	56.38	52.61	29.82
Total dir & ovhd exp per ton	84.10	84.12	47.72
Less govt & other income	82.68	84.12	47.72
With labor & management	90.60	90.21	54.63
Net value per unit	72.57	71.33	78.55
Machinery cost per acre	71.12	85.45	80.98
Est. labor hours per acre	2.23	2.00	2.59

Crop Enterprise Analysis

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

Owned and Rented Acres Combined *				
	Establish	0.41	Fescue	Perennial Rye
	<u>Alfalfa Hay</u>	<u>Oatlage</u>	Grass Seed	Grass Seed
Number of farms	54	29	6	10
Acres	42.37	40.71	334.22	466.80
Yield per acre	1.97	4.11	617.79	940.31
Operators share of yield %	100.00	100.00	100.00	100.00
Value	134.14	40.54	0.65	0.58
Total product return per acre	264.45	166.62	401.56	547.83
Other crop income per acre	2.63	-	9.09	8.11
Gross return per acre	267.08	166.62	410.65	555.94
Direct Expenses				
Seed	118.82	21.91	6.23	16.82
Fertilizer	29.59	10.16	96.73	92.30
Crop chemicals	2.70	1.87	23.58	47.37
Crop insurance	0.44	0.91	9.95	11.50
Packaging and supplies	10.09	4.31	-	-
Fuel & oil	29.04	18.49	15.98	26.04
Repairs	46.49	26.43	21.56	33.83
Custom hire	10.34	6.93	4.42	8.81
Machinery Leases	4.44	1.31	3.73	2.62
Land Rent	40.61	32.42	83.42	33.63
Operating interest	4.46 6.23	3.33 2.22	5.48	9.96
Miscellaneous	6.23 304.54	2.22 128.98	3.92 275.01	3.78 286.65
Total direct expenses per acre	-37.46	37.64	135.64	269.29
Return over direct exp per acre	-37.40	37.04	133.04	209.29
Overhead Expenses				
Hired labor	13.89	13.96	8.84	9.21
Mach and bldg leases	2.42	3.05	-	6.06
RE & pers. property taxes	5.28	4.40	1.95	4.21
Farm insurance	9.01	5.40	7.70	8.83
Utilities	5.81	2.91	7.12	4.58
Dues & professional fees	3.45	1.61	2.29	1.82
Interest	38.81	26.24	12.17	8.45
Mach & bldg depreciation	42.97 3.33	28.25 3.18	16.92 3.65	42.98 2.32
Miscellaneous Total overhead expenses per acre	124.98	89.01	60.64	88.45
Total dir & ovhd expenses per acre	429.53	217.99	335.65	375.09
Net return per acre	-162.45	-51.37	75.00	180.84
·				
Government payments	0.98	0.46	2.16	15.43
Net return with govt pmts	-161.47 39.69	-50.91 25.60	77.17 20.29	196.27 40.54
Labor & management charge Net return over lbr & mgt	-201.16	-76.51	56.87	155.73
	-201.10	-70.51	30.07	155.75
Cost of Production				
Total direct expense per bu.	154.48	31.38	0.45	0.30
Total dir & ovhd exp per bu.	217.88	53.04	0.54	0.40
Less govt & other income	216.04	52.92	0.52	0.37
With labor & management	236.18	59.15	0.55	0.42
Net value per unit	134.14	40.54	0.65	0.58
Machinery cost per acre	141.50	91.32	64.78	118.71
Est. labor hours per acre	4.31	3.10	1.55	1.80

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

Irrigated Crops *

	<u>Corn</u>	Corn Silage	Hay, Alfalfa	Soybeans
Number of farms	59	16	13	37
Acres	213.97	85.25	90.35	189.3
Yield per acre	197.97	25.10	5.02	50.22
Operators share of yield %	100.00	100.00	100.00	100.00
Value	3.20	29.82	135.81	8.41
Total product return per acre	633.50	748.63	681.32	422.35
Crop insurance per acre	0.30	-	-	0.82
Other crop income per acre	15.38	0.41	-	59.23
Gross return per acre	649.18	749.04	681.32	482.40
Direct Expenses				
Seed	84.80	110.44	1.69	53.23
Fertilizer	138.85	59.51	59.31	31.57
Crop chemicals	31.16	29.87	3.62	39.21
Crop insurance	14.66	19.05	-	14.88
Marketing	1.78	-	-	1.41
Storage	0.79	-	-	1.92
Irrigation energy	25.85	24.01	19.83	19.45
Packaging and supplies/Drying Corn	18.72	14.92	3.57	- 10.57
Fuel & oil	28.34 46.09	44.54 60.49	37.37 57.59	19.57 24.63
Repairs Custom hire and Trucking	18.78	30.97	45.40	9.57
Hired labor	0.80	30.97	1.93	0.93
Land Rent	68.62	44.70	54.33	80.30
Operating interest	8.92	6.12	5.28	4.23
Miscellaneous	7.81	7.98	4.12	5.29
Total direct expenses per acre	495.99	452.89	295.83	313.80
Return over direct exp per acre	153.19	296.14	385.49	168.61
Overhead Expenses				
Hired labor	19.12	43.38	31.75	6.29
Mach and bldg leases	2.68	10.67	5.60	1.87
RE & pers. property taxes	7.37	8.36	9.82	3.91
Farm insurance	11.76	15.37	11.52	9.13
Utilities	5.47	5.65	5.29	2.89
Dues & professional fees	2.96	5.34	2.79	3.38
Interest	30.80	42.21	69.54	19.89
Mach & bldg depreciation	58.13	68.83	58.14	23.80
Miscellaneous	4.21	1.31	2.40	4.30
Total overhead expenses per acre	142.51	201.13	196.85	75.45
Total dir & ovhd expenses per acre	638.49	654.02	492.68	389.25
Net return per acre	10.69	95.02	188.64	93.16
Government payments	3.43	1.13	0.46	1.87
Net return with govt pmts	14.11	96.15	189.10	95.02
Labor & management charge	46.09	48.44	48.89	25.76
Net return over lbr & mgt	-31.98	47.71	140.22	69.26
Cost of Production				
Total direct expense per bu.	2.51	18.04	58.97	6.25
Total dir & ovhd exp per bu.	3.23	26.05	98.21	7.75
Less govt & other income	3.13	25.99	98.12	6.52
With labor & management	3.36	27.92	107.86	7.03
Net value per unit	3.20	29.82	135.81	8.41
Machinery cost per acre	154.54	223.64	204.99	87.89
Est. labor hours per acre	3.31	4.32	4.95	1.93

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

	<u>Barley</u>	<u>Oats</u>	<u>Rye</u>	<u>Canola</u>
Number of farms	21	41	12	5
Acres	154.18	44.54	91.81	394.2
Yield per acre	76.75	69.38	17.72	19.97
Operators share of yield %	100.00	100.00	100.00	100.00
Value	4.32	2.49	5.90	17.27
Other product return per acre	0.69	11.07	8.44	-
Total product return per acre	332.04	184.10	113.05	344.96
Crop insurance per acre	0.19	1.50	3.18	38.02
Other crop income per acre	8.62	48.35	25.02	2.43
Gross return per acre	340.85	233.95	141.25	385.41
Direct Expenses				
Seed	16.59	21.10	15.97	47.96
Fertilizer	63.26	22.72	30.90	79.13
Crop chemicals	24.97	6.27	5.42	29.72
Crop insurance	11.69	4.91	1.02	13.21
Fuel & oil	18.66	14.32	17.98	14.77
Repairs	24.16	21.71	18.44	18.08
Custom hire & trucking	3.67	5.83	16.43	6.22
Hired labor	0.59	1.44	-	-
Land Rent	39.67	25.62	55.83	56.27
Machine Leases	-	1.00	0.90	-
Operating interest	7.58	3.75	4.96	5.37
Miscellaneous	2.35	1.99	1.78	0.61
Total direct expenses per acre	213.20	130.64	169.61	271.36
Return over direct exp per acre	127.65	103.31	-28.36	114.05
Overhead Expenses				
Hired labor	4.42	4.77	8.28	10.98
Machinery leases	5.10	1.36	-	2.68
Building leases	1.89	0.17	0.19	1.08
RE & pers. property taxes	3.96	5.18	1.84	1.17
Farm insurance	5.36	4.59	6.88	4.56
Utilities	4.15	2.71	2.26	1.99
Dues & professional fees	2.22	1.85	2.43	1.37
Interest	17.67	18.60	4.16	3.49
Mach & bldg depreciation	24.81	18.85	24.35	23.60
Miscellaneous	2.41	1.81	2.87	0.86
Total overhead expenses per acre	72.00	59.88	53.25	51.78
Total dir & ovhd expenses per acre	285.19	190.52	222.86	323.14
Net return per acre	55.65	43.43	-81.61	62.28
Government payments	7.35	2.99	-	14.26
Net return with govt pmts	63.01	46.42	-81.61	76.54
Labor & management charge	24.82	24.39	25.85	28.77
Net return over lbr & mgt	38.19	22.03	-107.46	47.77
Cost of Production				
Total direct expense per bu.	2.78	1.88	9.57	13.59
Total dir & ovhd exp per bu.	3.72	2.75	12.58	16.18
Less govt & other income	3.50	1.82	10.51	13.44
With labor & management	3.82	2.18	11.97	14.88
Net value per unit	4.33	2.49	5.90	17.27
Machinery cost per acre	77.24	65.34	77.57	65.75
Est. labor hours per acre	1.26	2.62	1.99	1.74

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

Crop Enterprise Analysis

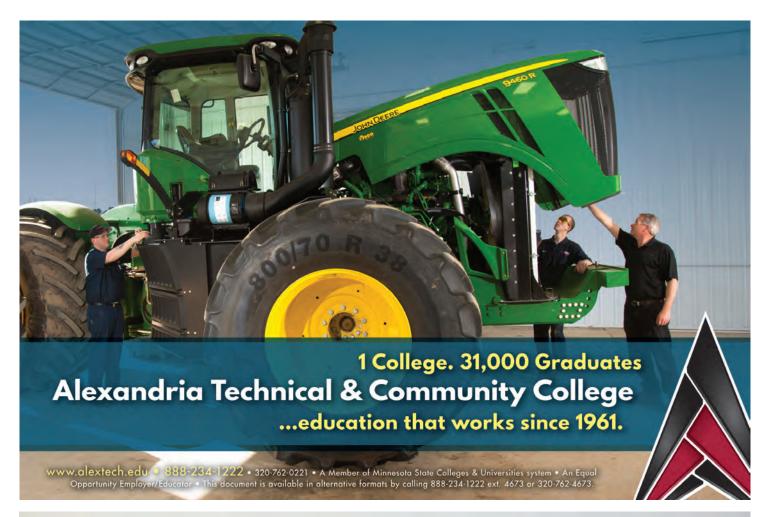
Northern Minnesota Farm Business Management Data (Farms Sorted By Return to Overhead)

	Soybeans,	Beans,	Irr. Beans,	
	Seed	<u>Navy</u>	Dark Red Kidney	<u>Sunflowers</u>
Number of farms	11	9	6	8
Acres	284.36	242.8	248.92	177.13
Yield per acre	49.80	17.65	27.00	15.68
Operators share of yield %	100.00	100.00	100.00	100.00
Value	9.55	23.80	36.11	18.78
Total product return per acre	475.36	420.03	974.83	294.55
Crop insurance per acre	-	19.21	-	2.25
Other crop income per acre	88.09	3.38	-	1.16
Gross return per acre	563.45	442.62	974.83	297.96
Direct Expenses				
Seed	41.04	54.95	97.41	34.15
Fertilizer	18.51	52.21	132.01	57.17
Crop chemicals	42.86	81.28	101.69	35.02
Crop insurance	13.02	17.06	41.36	15.65
Irrigation Energy	-	-	21.38	-
Fuel & oil	15.34	19.61	15.12	28.72
Repairs	25.02	33.66	22.29	36.82
Custom hire	3.70	7.28	63.19	2.55
Hired labor	-	36.98	2.83	0.34
Land Rent	71.42	75.29	74.34	29.98
Operating interest	2.77	14.85	1.27	19.53
Miscellaneous	3.32	7.06	5.05	4.54
Total direct expenses per acre	236.99	400.23	601.76	264.48
Return over direct exp per acre	326.46	42.38	373.07	33.48
Overhead Expenses				
Hired labor	9.92	6.42	10.73	13.81
Machinery leases	10.90	6.82	1.69	4.23
Building leases	0.54	2.43	-	0.22
RE & pers. property taxes	8.78	5.00	3.44	2.31
Farm insurance	4.81	7.39	10.02	7.37
Utilities	5.22	4.63	2.01	4.21
Dues & professional fees	2.48	5.69	3.20	1.68
Interest	13.65	16.17	31.09	11.54
Mach & bldg depreciation	26.43	20.15	43.57	25.88
Miscellaneous	2.35	31.72	3.54	2.49
Total overhead expenses per acre	85.07	106.42	109.29	73.74
Total dir & ovhd expenses per acre	322.06	506.65	711.04	338.22
Net return per acre	241.40	-64.04	263.79	-40.26
Government payments	1.74	-	-	10.41
Net return with govt pmts	243.13	-64.04	263.79	-29.85
Labor & management charge	31.43	15.88	36.74	33.10
Net return over lbr & mgt	211.70	-79.92	227.04	-62.95
Cost of Production				
Total direct expense per bu.	4.76	22.68	22.29	16.86
Total dir & ovhd exp per bu.	6.47	28.71	26.34	21.56
Less govt & other income	4.66	27.43	26.34	20.68
With labor & management	5.29	28.33	27.70	22.79
Net value per unit	9.55	23.80	36.11	18.78
Machinery cost per acre	76.51	93.94	156.57	99.11
Machinery cost per acre				

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

		Acres Combined		
	Organic <u>Corn</u>	<u>Organic</u> Corn Silage	<u>Organic</u> <u>Hay, Alfalfa</u>	<u>Irrigated</u> <u>Strawberries</u>
Number of farms	8	7	6	6
Acres	68.88	50.79	90.79	2.51
Yield per acre	116.41	14.34	3.24	3178.54
Operators share of yield %	100.00	100.00	100.00	100.00
Value	8.82	67.59	115.22	2.41
Total product return per acre	1026.41	969.09	372.75	7657.87
Crop insurance per acre	-	-	4.93	-
Other crop income per acre	4.05	3.75	18.53	0.93
Gross return per acre	1030.46	972.84	396.21	7658.80
Direct Expenses				
Seed and Plants	91.47	73.32	-	130.50
Fertilizer	55.09	99.65	8.90	342.99
Crop chemicals	-	-	-	320.00
Crop insurance	17.40	6.75	3.04	-
Drying expense	8.52	-	-	-
Irrigation Energy	-	-	-	48.02
Packaging and Supplies	-	14.75	4.26	154.35
Fuel & oil	43.92	45.25	29.90	230.75
Repairs	79.18	65.70	44.91	494.10
Custom hire and Trucking	19.09	32.23	32.59	140.40
Hired labor	1.05	9.15	-	803.19
Land Rent	102.31	67.74	19.28	-
Organic Certification	6.13	3.26	4.78	13.95
Operating interest	7.42	1.88	4.07	-
Miscellaneous	4.74	3.35	1.10	489.57
Total direct expenses per acre	436.34	423.01	152.83	3774.99
Return over direct exp per acre	594.12	549.83	243.39	3883.81
Overhead Expenses				
Hired labor	64.97	36.13	44.78	1266.87
Mach and bldg leases	3.87	1.35	0.36	-
RE & pers. property taxes	1.77	3.28	4.73	115.88
Farm insurance	4.42	5.90	8.63	317.63
Utilities	6.69	5.91	7.15	227.07
Dues & professional fees	3.86	5.78	2.96	247.38
Interest	2.64	17.68	14.87	324.27
Mach & bldg depreciation	32.41	37.64	20.39	1009.74
Miscellaneous	2.69	3.54	1.81	429.30
Total overhead expenses per acre	123.14	117.22	105.67	3722.38
Total dir & ovhd expenses per acre	559.47	540.23	258.50	7497.38
Net return per acre	470.98	432.61	137.71	161.42
Government payments	0.61	1.85	5.24	-
Net return with govt pmts	471.59	434.46	142.96	161.42
Labor & management charge	83.20	46.31	31.14	1041.25
Net return over lbr & mgt	388.39	388.15	111.82	-879.83
Cost of Production				
Total direct expense / Unit of Production	3.75	29.50	47.24	1.19
Total dir & ovhd exp / Unit of Production	4.81	37.68	79.91	2.36
Less govt & other income	4.77	37.29	71.03	2.36
With labor & management	5.48	40.52	80.66	2.69
Net value per unit	8.82	67.59	115.22	2.41
Machinery cost per acre	171.50	192.06	136.23	1516.14
Est. labor hours per acre	8.81	6.00	4.85	434.98
1				

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





Dairy -- Average Per Cwt. Of Milk

	Avg. O All Farm	f IS	40 - 6	50%	High 20%		
Number of farms	3	326		65	_	66	
Milk sold (hd) Dairy Calves sold (hd) Transferred out (hd) Cull sales (hd) Insurance income Government payments Other income Purchased (hd) Transferred in (hd) Inventory change (hd) Dairy repl net cost Gross margin	Quantity 99.28 0.00 0.00 0.00 0.00	Value 16.32 0.13 0.13 0.89 0.06 0.22 0.22 -0.14 -0.18 0.28 -2.63 15.30	Quantity 99.29 0.00 0.00 0.00 0.00	Value 16.23 0.11 0.08 1.01 0.07 0.21 -0.16 -0.11 0.26 -2.75 15.17	Quantity 99.33 0.00 0.00 0.00 0.00	Value 17.09 0.14 0.21 0.83 0.03 0.22 0.25 -0.09 -0.22 0.48 -2.22	
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Haylage, Alfalfa (lb.) Other feed stuffs (lb) Breeding fees Veterinary Supplies Fuel & oil Repairs Hired labor Total direct expenses Return over direct expense	13.32 7.27 0.28 79.93 9.97 17.29 11.26	2.82 1.39 0.91 1.28 0.63 0.56 0.49 0.19 0.44 1.99 0.36 0.58 1.23 12.85 2.44	9.91 7.47 0.27 81.68 7.57 14.05 13.73	2.26 1.75 0.85 1.38 0.46 0.43 0.72 0.19 0.43 2.09 0.47 0.55 1.22 12.78 2.39	17.04 4.45 0.29 81.16 7.94 14.38 8.15	3.49 0.79 0.91 1.24 0.50 0.48 0.37 0.22 0.40 1.89 0.31 0.56 0.70 11.85 4.86	
Overhead Expenses Hired labor Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		0.64 0.39 0.69 0.89 2.60 15.45		0.87 0.39 0.68 0.99 2.93 15.71 -0.55		1.13 0.40 0.73 0.82 3.08 14.93 1.78	
Labor & management charge Net return over lbr & mgt		0.71 -0.87		0.53 -1.08		0.77 1.01	
Cost of Production Per Cwt. Of Milk Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management		12.85 15.45 16.58 17.29		12.78 15.71 16.87 17.40		11.85 14.93 15.40 16.17	
Est. labor hours per unit		0.16		0.18		0.15	
Other Information Number of cows Milk produced per cow Total milk sold Lb. of milk sold per FTE Culling percentage Turnover rate Cow death loss percent Percent of barn capacity Feed cost per day Feed cost per cwt. of milk Feed cost per cow Hired labor per cow Avg. milk price per cwt. Milk price / feed margin		227.5 23,974 5,413,819 1,697,258 30.6 37.1 6.2 114.5 5.30 8.06 1,932.89 449.25 16.44 8.37		252.1 24,339 6,092,062 1,575,705 32.9 39.3 6.0 113.8 5.23 7.84 1,908.68 506.88 16.35 8.51		300.1 24,992 7,449,084 1,821,607 29.4 35.3 5.6 114.3 5.33 7.78 1,945.19 457.34 17.21 9.42	

Dairy -- Average Per Cow

	Avg. (All Far		40 -	60%	<u> </u>		
Number of farms		326		65	_	66	
Milk sold (hd) Dairy Calves sold (hd) Transferred out (hd) Cull sales (hd) Insurance income Government payments Other income Purchased (hd) Transferred in (hd) Inventory change (hd) Dairy repl net cost Gross margin	Quantity 23,800.9 0.3 0.7 0.3	Value 3,911.70 31.30 31.46 213.96 13.20 51.75 51.81 -32.38 -42.11 66.68 -630.37 3,667.01	Quantity 24,167.2 0.3 0.7 0.3 0.0 0.0	Value 3,950.64 27.83 20.31 245.86 18.01 51.64 50.02 -39.07 -26.64 62.07 -669.49 3,691.17	Quantity 24,825.1 0.3 0.7 0.3 0.0 0.0 0.4 0.1	Value 4,271.40 34.56 52.16 206.94 7.13 54.11 63.14 -21.87 -55.25 120.19 -556.02 4,176.48	
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Haylage, Alfalfa (lb.) Other feed stuffs (lb) Breeding fees Veterinary Supplies Fuel & oil Repairs Custom hire Hired labor Hauling and trucking Total direct expenses Return over direct expense	3,194.4 1,743.0 67.9 19,161.6 2,390.5 4,145.2 2,700.1	675.75 333.05 217.29 305.89 150.07 134.02 116.84 45.85 105.43 345.01 85.79 139.24 61.97 294.86 70.11 3,081.14 585.87	2,411.5 1,818.4 64.7 19,880.9 1,842.1 3,418.7 3,342.1	550.20 426.23 205.85 335.02 112.40 104.31 174.68 47.34 103.80 380.25 113.47 133.76 46.02 295.92 81.37 3,110.61 580.56	4,259.0 1,110.9 71.3 20,283.7 1,983.3 3,593.8 2,036.7	872.82 197.90 227.60 309.54 124.57 121.04 91.73 54.11 100.62 322.56 78.21 138.97 81.17 173.89 67.91 2,962.63 1,213.85	
Overhead Expenses Hired labor Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		154.40 66.32 93.11 164.37 145.88 624.08 3,705.21 -38.21		210.96 63.75 94.84 166.43 177.35 713.33 3,823.94 -132.77		283.45 84.04 98.77 181.35 121.70 769.32 3,731.95 444.53	
Labor & management charge Net return over lbr & mgt		170.49 -208.70		129.13 -261.90		192.53 252.00	
Cost of Production Per Cwt. Of Milk Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management		12.85 15.45 16.58 17.29		12.78 15.71 16.87 17.40		11.85 14.93 15.40 16.17	
Est. labor hours per unit		39.26		42.94		38.16	
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 Hired labor per cow Avg. milk price per cwt. Milk price / feed margin		227.5 23,974 5,413,819 1,697,258 30.6 37.1 6.2 114.5 5.30 8.06 1,932.89 449.25 16.44 8.37		252.1 24,339 6,092,062 1,575,705 32.9 39.3 6.0 113.8 5.23 7.84 1,908.68 506.88 16.35 8.51		300.1 24,992 7,449,084 1,821,607 29.4 35.3 5.6 114.3 5.33 7.78 1,945.19 457.34 17.21 9.42	

Livestock Enterprise Analysis Farm Business Management Data Organic Only (Farms Sorted By Return to Overhead)

Dairy -- Average Per Cow

	Avg. All Far		33 -	66%	High 34%		
Number of farms		15		5	_	6	
Milk sold (hd) Dairy Calves sold (hd) Transferred out (hd) Cull sales (hd) Insurance income Government payments Other income Purchased (hd) Transferred in (hd) Inventory change (hd) Dairy repl net cost Gross margin	Quantity 15,197.1 0.2 0.6 0.3 0.0 0.3	Value 4,434.12 33.36 10.63 217.34 19.98 33.02 119.26 -9.56 -20.79 -10.18 -718.17 4,109.03	Quantity 15,871.4 0.1 0.7 0.3 0.0 0.3 0.0	Value 4,623.79 19.67 11.80 183.48 7.79 41.01 52.89 -23.17 -10.86 24.51 -663.91 4,267.02	Quantity 15,719.3 0.3 0.5 0.3	Value 4,676.58 37.07 5.45 249.43 39.26 37.70 185.03 - -3.64 -48.04 -656.23 4,522.61	
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Haylage, Alfalfa (lb.) Corn, Organic (bu.) Corn Silage, Organic (lb.) Hay, Alfalfa, Organic (lb.) Flax, Organic (bu.) Other feed stuffs (lb) Breeding fees Supplies Fuel & oil Repairs Hired labor Hauling and trucking Total direct expenses Return over direct expense	800.6 206.6 5,466.9 43.6 9,088.7 3,346.8 0.2 6,499.9	314.82 72.57 215.25 373.77 270.29 232.60 65.63 403.67 36.54 356.46 76.39 129.42 267.34 70.58 2,885.34 1,223.69	768.8 75.1 10,733.3 54.9 10,172.9 1,796.5 5,323.7	390.35 37.78 427.33 508.64 288.95 92.26 404.55 35.43 416.76 60.60 122.31 402.97 102.43 3,290.34 976.68	623.5 411.2 2,433.6 42.5 8,134.3 3,575.0 0.4 4,041.3	253.41 133.42 91.26 326.45 225.61 302.65 153.67 374.48 35.64 314.85 99.16 146.03 222.75 52.42 2,731.80 1,790.81	
Overhead Expenses Hired labor Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		183.16 88.92 139.70 202.40 614.18 3,499.52 609.50		92.56 72.90 109.67 127.32 402.45 3,692.79 574.23		299.56 90.66 172.46 256.84 819.53 3,551.33 971.28	
Labor & management charge Net return over lbr & mgt		267.09 342.41		163.59 410.63		349.05 622.24	
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		18.38 22.30 25.09 26.79		20.48 22.98 25.48 26.49		16.71 21.73 23.77 25.91	
Est. labor hours per unit		36.70		33.42		39.89	
Other Information Number of cows Milk produced per cow Total milk sold Lb. of milk sold per FTE Culling percentage Turnover rate Cow death loss percent Percent of barn capacity Feed cost per day Feed cost per cow Hired labor per cow Avg. milk price per cwt. Milk price / feed margin		111.6 15,694 1,696,053 1,159,355 27.8 32.9 4.5 104.2 5.34 12.42 1,948.62 450.50 29.18 16.76		138.1 16,068 2,192,030 1,329,759 25.1 30.7 4.6 113.2 5.89 13.38 2,149.85 495.53 29.13 15.75		119.2 16,344 1,873,222 1,103,443 28.8 33.7 4.9 96.6 5.10 11.39 1,860.94 522.31 29.75 18.36	

Dairy -- Average Per Cow

	 5	to	50 100			00 00		00 00		ver 00
Number of farms		29	1	04	!	97		64		32
Milk sold (hd) Dairy Calves sold (hd) Transferred out (hd) Cull sales (hd) Insurance income Government payments Other income Purchased (hd) Transferred in (hd) Inventory change (hd) Dairy repl net cost Gross margin	Quantity 15,739.1 0.2 0.7 0.3 0.1 0.3 0.0	Value 2,467.50 45.04 30.05 149.97 19.01 53.86 35.22 -96.73 -61.95 -24.69 -372.65 2,244.61	Quantity 20,807.1 0.2 0.7 0.3 0.1 0.4 0.1	Value 3,303.20 34.26 55.61 202.67 3.68 84.55 49.10 -87.47 -93.70 45.96 -536.30 3,061.56	Quantity 22,173.0 0.3 0.7 0.3 0.1 0.4 0.0	Value 3,534.39 28.98 40.00 202.51 10.43 77.89 29.77 -63.37 -49.54 23.25 -589.72 3,244.59	Quantity 24,240.1 0.3 0.7 0.3 0.0 0.4 0.1	Value 3,971.37 34.22 36.86 208.37 21.64 59.58 64.69 -20.01 -37.28 47.10 -621.91 3,764.65	Quantity 25,297.4 0.3 0.7 0.3 0.4 0.1	Value 4,250.31 29.05 17.69 228.28 10.81 25.97 54.12 -10.44 -28.14 108.64 -688.29 3,998.01
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Haylage, Alfalfa (lb.) Other feed stuffs (lb) Breeding fees Veterinary Supplies Fuel & oil Repairs Hired labor Hauling and trucking Bedding Total direct expenses Return over direct expense	1,733.5 888.8 55.1 14,690.1 4,800.9 2,049.5 2,703.9	377.20 143.50 169.59 222.07 297.68 65.11 159.15 32.49 62.95 302.30 68.63 131.28 11.48 92.92 39.28 2,175.62 68.99	3,005.0 826.2 71.8 17,285.4 4,206.2 2,802.5 2,233.3	646.02 165.96 224.98 258.92 296.06 95.64 100.04 41.03 96.00 288.40 62.74 115.34 39.18 90.13 49.67 2,570.11 491.45	3,010.2 1,782.5 63.0 17,380.2 3,203.6 2,654.7 2,823.6	649.62 290.26 201.84 264.52 207.90 88.42 121.95 35.25 95.52 286.57 74.83 125.71 109.55 69.44 57.94 2,679.32 565.28	2,697.2 2,652.7 67.3 19,219.5 1,710.1 5,923.0 2,110.2	631.57 406.93 214.92 311.75 103.74 204.05 99.22 39.48 111.93 331.60 81.01 139.95 333.93 68.45 91.01 3,169.55 595.10	3,726.1 1,359.1 69.9 20,573.7 1,941.2 4,004.5 3,174.5	736.93 350.87 225.70 335.67 113.23 118.31 129.54 56.80 109.39 363.28 100.62 151.28 427.58 65.58 81.20 3,365.97 632.04
Overhead Expenses Hired labor Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		25.39 93.58 105.23 110.86 148.21 483.26 2,658.88 -414.27		93.23 109.93 93.57 152.73 132.91 582.38 3,152.48 -90.93		120.03 74.60 114.10 181.60 145.19 635.52 3,314.84 -70.24		167.99 60.40 104.89 166.01 151.80 651.10 3,820.65 -56.00		180.95 54.48 74.84 160.40 145.32 615.99 3,981.96 16.05
Labor & management charge Net return over lbr & mgt		369.28 -783.55		290.01 -380.94		212.42 -282.66		155.84 -211.84		123.72 -107.67
Cost of Production Per Cwt. Of I Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management	Milk	13.71 16.75 18.26 20.58		12.25 15.02 16.30 17.68		12.03 14.88 16.24 17.19		12.96 15.63 16.59 17.23		13.21 15.63 16.72 17.20
Est. labor hours per unit		46.00		33.30		32.67		40.24		42.85
Other Information Number of cows Milk produced per cow Total milk sold Lb. of milk sold per FTE Culling percentage Turnover rate Cow death loss percent Percent of barn capacity Feed cost per day Feed cost per cwt. of milk Feed cost per cow Hired labor per cow Avg. milk price per cwt. Milk price / feed margin		38.6 15,874 606,943 958,124 25.9 37.3 9.6 91.1 3.93 9.04 1,434.29 36.86 15.68 6.64		75.0 20,982 1,559,940 1,749,303 29.2 37.6 7.2 105.0 4.90 8.52 1,787.61 132.42 15.88 7.36		141.6 22,278 3,140,679 1,900,199 30.0 37.1 6.4 113.0 5.00 8.19 1,824.50 229.58 15.94 7.75		330.1 24,448 8,002,800 1,686,848 29.4 36.3 6.5 118.6 5.40 8.07 1,972.20 501.93 16.38 8.32		949.0 25,479 24,007,646 1,652,886 32.1 37.6 5.4 116.3 5.51 7.89 2,010.25 608.53 16.80 8.91

Dairy and Repl Heifers -- Average Per Cow

	Avg. All Fai		40 -	60%	High 20%		
Number of farms		284		57		57	
Milk sold (hd) Dairy Calves sold (hd) Transferred out (hd) Cull sales (hd) Insurance income Government payments Other income Purchased (hd) Transferred in (hd) Inventory change (hd) Gross margin	Quantity 24,018.9 - - - - -	Value 3,951.23 55.72 22.00 223.84 13.86 50.97 55.19 -35.31 -11.23 84.47 4,410.74	Quantity 24,438.2 - - - - -	Value 4,026.76 48.96 14.41 251.22 19.80 43.93 50.84 -30.25 -12.79 69.15 4,482.05	Quantity 25,243.5 - - - - - -	Value 4,357.47 63.89 42.34 219.15 8.74 51.24 70.45 -15.33 -4.44 173.31 4,966.81	
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 Hired labor Bedding Total direct expenses Return over direct expense	3,488.4 2,097.6 74.0 23,366.9 3,204.9 4,905.0 4,645.0	740.41 398.01 236.79 371.08 196.11 155.03 203.29 62.06 122.44 421.87 112.78 99.47 161.91 337.58 95.14 3,713.97 696.77	2,356.3 2,384.7 72.1 23,842.4 1,762.8 4,605.5 6,046.7	568.60 530.57 225.85 404.24 107.80 136.28 279.94 65.11 117.50 456.97 154.87 127.40 152.55 364.52 101.48 3,793.70 688.35	5,000.3 1,231.5 81.6 25,264.5 3,157.6 3,785.7 3,537.2	1,002.81 190.09 260.73 380.61 196.42 127.28 190.44 73.33 120.42 402.52 73.32 93.19 168.48 200.76 106.00 3,586.41 1,380.41	
Overhead Expenses Hired labor Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		176.05 105.65 188.12 243.47 713.29 4,427.26 -16.52		195.84 97.05 189.72 279.04 761.66 4,555.35 -73.31		346.68 113.97 214.02 239.01 913.67 4,500.08 466.73	
Labor & management charge Net return over lbr & mgt		193.27 -209.79		141.42 -214.73		221.24 245.49	
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		15.35 18.30 16.50 17.30		15.42 18.52 16.75 17.33		14.10 17.69 15.40 16.27	
Est. labor hours per unit		45.83		47.42		46.22	
Other Information Number of cows Milk produced per cow Total milk sold Lb. of milk sold per FTE Culling percentage Turnover rate Cow death loss percent Percent of barn capacity Feed cost per day Feed cost per cow Hired labor per cow Avg. milk price per cwt. Milk price / feed margin		238.7 24,196 5,732,458 1,467,354 30.6 37.1 6.1 114.6 6.30 9.51 2,300.72 513.63 16.45 6.94		279.5 24,598 6,829,820 1,443,142 33.1 39.2 5.7 112.4 6.17 9.16 2,253.29 560.36 16.48 7.32		299.5 25,440 7,559,796 1,529,238 29.4 35.0 5.3 115.2 6.43 9.23 2,348.39 547.44 17.26 8.03	

Dairy Replacement Heifers -- Average Per Head

	Avg. Of All Farms		40 - 6	50%	<u> </u>		
Number of farms		302		61		61	
Replacements sold (hd) Transferred out (hd) Cull sales (hd) Other income Purchased (hd) Transferred in (hd) Inventory change (hd) Gross margin	Quantity 0.1 0.4 0.0 0.0 0.0 0.6 0.1	Value 37.35 544.87 3.96 1.10 -14.93 -105.02 22.91 490.24	Quantity 0.0 0.5 0.0 0.0 0.6 0.0	Value 23.50 550.00 4.75 1.64 -6.03 -94.10 9.33 489.10	Quantity 0.1 0.4 0.0 0.1 0.6 0.1	Value 60.25 677.46 5.89 0.75 -27.99 -112.80 67.02 670.59	
Direct Expenses Protein Vit Minerals (lb.) Milk Replacer (lb.) Creep / Starter (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Haylage, Alfalfa (lb.) Other feed stuffs (lb) Breeding fees Veterinary Supplies Contract production exp. Repairs Hired labor Bedding Total direct expenses Return over direct expense	485.5 14.7 107.3 307.4 6.7 4,608.8 838.9 501.8 945.9 1,466.6	87.98 18.23 9.23 52.72 20.98 71.06 47.19 18.32 30.85 48.39 15.48 17.88 41.46 85.18 22.90 36.05 19.65 643.53 -153.29	379.4 8.9 127.9 214.3 9.9 4,451.3 1,205.5 348.8 355.2 1,883.5	102.98 11.52 20.37 41.26 31.33 71.17 62.53 14.13 9.82 66.11 16.48 17.61 32.33 80.20 21.01 29.44 16.58 644.87	301.5 22.1 68.2 321.1 3.5 3,937.8 570.9 728.4 526.7 1,578.8	50.06 27.44 13.21 57.17 11.81 57.65 31.19 24.90 14.64 43.86 17.11 21.59 33.01 67.79 24.20 40.70 20.55 556.88 113.71	
Overhead Expenses Hired labor Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		29.41 16.98 28.43 34.25 109.07 752.61 -262.37		30.40 14.43 26.38 33.90 105.10 749.98 -260.88		48.63 21.15 26.64 34.91 131.33 688.21 -17.62	
Labor & management charge Net return over lbr & mgt		29.12 -291.49		25.48 -286.36		24.55 -42.17	
Cost of Production Per Head Per Day Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management		2.02 2.31 2.31 2.39		2.00 2.29 2.29 2.36		1.71 2.07 2.07 2.14	
Est. labor hours per unit		6.36		5.88		7.35	
Other Information No. purchased or trans in Number sold or trans out Average number of head Percentage death loss Feed cost per average head Hired labor per average head Feed cost/head sold/trans Total cost/head sold/trans Feed cost per head per day Avg. purch price / head Avg. sales price / head		132 109 202 8.2 404.94 65.46 749.64 1,617.45 1.11 484.25 378.72		139 120 230 6.7 431.21 59.83 829.34 1,653.74 1.18 1,113.95 706.94		179 134 255 6.5 331.94 89.33 633.01 1,487.26 0.91 366.88 732.98	

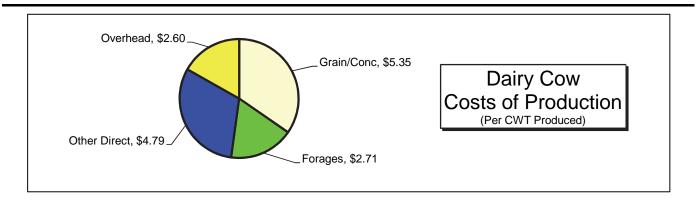
Dairy Feeder -- Average Per Cwt. Produced

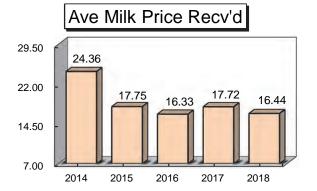
	Avg. O All Farm	f IS	40 - 6	0%	<u> </u>		
Number of farms		19		4	_	4	
Dairy Feeder sold (lb) Transferred out (lb) Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 136.95 0.43 -24.34 -13.62 -0.64	Value 152.48 0.68 1.43 -32.20 -17.24 -7.15 98.00	Quantity 142.70 - -46.78 -2.67 6.75	Value 167.25 - -69.39 -2.67 -4.13 91.06	Quantity 142.25 3.03 -43.54 -7.94 3.63	Value 210.73 4.85 4.11 -53.47 -7.33 2.57 161.45	
Direct Expenses Protein Vit Minerals (lb.) Milk Replacer (lb.) Milk (lb.) Creep / Starter (lb.) Complete Ration (lb.) Corn (bu.) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Bedding Operating interest Total direct expenses Return over direct expense	20.39 14.12 85.69 55.46 142.77 2.72 88.86	3.53 18.47 8.09 9.98 20.61 8.34 2.91 2.70 2.49 3.05 5.03 3.44 1.37 90.02 7.98	31.82 10.02 18.33 34.37 190.28 2.70 61.17	4.22 12.99 2.75 6.17 30.06 8.11 3.25 3.20 1.98 0.60 4.39 2.31 2.53 82.59 8.47	31.11 28.41 51.11 - 260.23 3.58	3.85 42.26 6.59 26.13 12.23 0.12 0.26 8.55 9.99 0.75 3.01 113.73 47.73	
Overhead Expenses Hired labor Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		7.16 1.49 3.40 3.65 6.22 3.02 24.94 114.96 -16.96		0.19 0.37 1.49 2.14 9.11 3.50 16.81 99.40 -8.34		0.43 3.17 9.93 5.41 7.33 4.33 30.60 144.33 17.12	
Labor & management charge Net return over lbr & mgt		8.23 -25.19		9.98 -18.32		9.81 7.32	
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		105.68 123.83 123.83 129.82		111.27 123.05 123.05 130.05		115.54 136.60 136.60 143.35	
Est. labor hours per unit		1.20		0.95		1.13	
Other Information No. purchased or trans in Number sold or trans out Percentage death loss Avg. daily gain (lb.) Lb. of conc / lb. of gain Lb. of feed / lb. of gain Feed cost per cwt. of gain Feed cost per head Hired labor per head Average purchase weight Avg wgt / Dairy Feeder sold Avg sales price / cwt.		129 123 5.9 1.92 3.77 5.26 71.94 199.39 20.79 109 357 143.88 111.34		145 132 7.0 2.18 4.15 5.04 67.57 189.21 0.54 136 425 202.29 117.21		127 116 10.1 2.19 4.92 5.71 91.05 217.84 1.24 85 271 104.38 148.14	

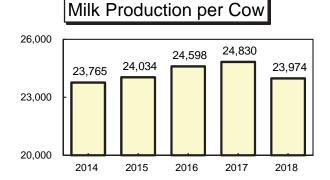
Dairy Finishing -- Average Per Cwt. Produced

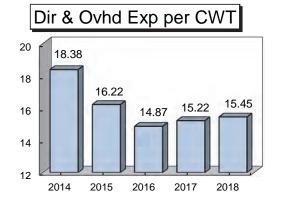
	Avg. Of All Farms		40 - 60	0%	High 20%		
Number of farms	1	105	2	21		21	
Dairy Finish sold (lb) Transferred out (lb) Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 132.79 0.07 -32.53 -1.91 0.67	Value 125.83 0.07 1.16 -36.96 -2.57 -0.24 87.29	Quantity 134.18 0.03 -28.16 -1.82 -5.21	Value 131.02 0.03 1.89 -32.66 -1.91 -9.08 89.29	Quantity 124.62 0.21 -27.88 -2.96 5.55	Value 125.50 0.18 0.44 -33.23 -4.68 7.53 95.73	
Direct Expenses Protein Vit Minerals (lb.) Milk (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) DDGS, wet (lb.) Other feed stuffs (lb) Veterinary Supplies Contract production exp. Fuel & oil Repairs Bedding Operating interest Total direct expenses Return over direct expense	56.49 3.69 34.90 10.36 161.27 53.12 94.74	11.96 0.61 5.34 31.83 2.58 1.57 4.88 2.26 4.87 0.42 1.62 2.69 0.91 1.84 73.40 13.89	53.05 - 73.59 10.13 270.56 - 76.64	10.96 9.62 32.64 4.77 3.58 2.81 6.57 1.60 2.60 1.69 3.27 80.11 9.17	52.93 13.14 28.77 9.20 74.45 67.74 40.89	10.31 2.19 3.32 26.84 1.15 2.30 1.80 0.92 3.99 1.49 1.19 1.65 0.67 0.69 58.52 37.21	
Overhead Expenses Hired labor Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		1.10 1.73 3.89 4.24 10.97 84.37 2.92		0.64 2.81 5.86 4.12 13.44 93.55 -4.26		1.72 1.09 2.15 3.44 8.39 66.91 28.82	
Labor & management charge Net return over lbr & mgt		4.51 -1.59		4.14 -8.40		3.72 25.10	
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		84.52 92.77 92.56 95.96		91.51 101.52 100.83 103.91		70.87 77.59 77.59 80.57	
Est. labor hours per unit		0.50		0.41		0.46	
Other Information No. purchased or trans in Number sold or trans out Percentage death loss Avg. daily gain (lb.) Lb. of conc / lb. of gain Lb. of feed / lb. of gain Feed cost per cwt. of gain Feed cost per head Hired labor per head Average purchase weight Avg wgt / Dairy Finish sold Avg purch price / head Avg sales price / cwt.		192 175 3.7 2.53 7.57 8.68 58.77 630.55 21.54 385 1,384 437.97 94.76		203 187 6.3 2.25 7.12 8.52 61.57 664.61 21.38 304 1,387 353.17 97.65		252 220 2.3 2.87 6.66 7.42 47.91 554.21 33.90 459 1,350 547.32	

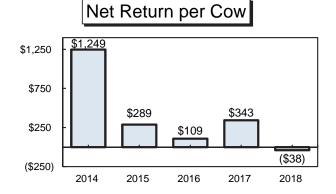
Summary of Selected Dairy Enterprise Factors

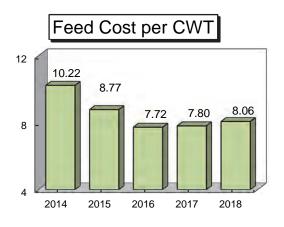


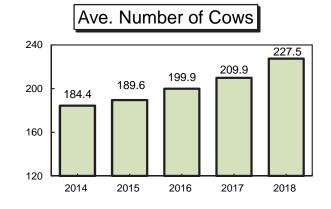














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Livestock Enterprise Analysis Farm Business Management Statewide Data Excluding Backgrounding (Farms Sorted By Return to Overhead)

Beef Cow-Calf -- Average Per Cow

	Avg. Of All Farms		40 - 6	60%	High 20%		
Number of farms		101		20		21	
Beef Calves sold (lb) Transferred out (lb) Cull sales (lb) Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 243.4 185.9 70.3 -38.3 -33.7 42.8	Value 369.29 304.82 85.22 4.94 -120.63 -65.42 113.60 691.82	Quantity 184.7 236.6 28.9 -30.6 -27.7 19.4	Value 311.12 384.07 71.44 2.63 -114.92 -93.16 141.25 702.44	Quantity 236.4 198.4 85.6 -39.0 -47.5 108.3	Value 365.04 285.96 103.85 10.06 -159.33 -69.71 379.04 914.92	
Direct Expenses Protein Vit Minerals (lb.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Haylage, Alfalfa (lb.) Pasture (aum) Hay (lb.) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Custom hire Operating interest Total direct expenses Return over direct expense	279.9 4,085.4 932.8 2,565.6 184.9 3.0 2,038.3 4,304.3	43.53 62.22 48.26 88.30 6.06 43.98 72.96 57.41 30.08 41.46 31.52 46.33 5.42 17.09 594.61 97.21	211.7 4,381.1 559.9 2,254.3 31.8 3.2 3,040.4 3,465.5	48.32 68.61 30.68 72.09 0.80 35.83 108.48 84.25 40.13 53.21 22.82 38.39 14.66 15.03 633.28 69.15	171.3 1,970.2 1,485.7 1,566.7 928.7 1.6 2,208.4 1,223.5	35.07 31.62 50.35 51.59 30.35 29.75 77.14 52.51 23.51 34.95 27.97 33.32 0.33 11.56 490.01 424.90	
Overhead Expenses Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		14.30 15.07 46.87 42.53 32.76 151.52 746.13 -54.31		16.34 15.44 19.79 25.98 24.90 102.45 735.74 -33.30		11.32 13.89 43.28 40.74 25.73 134.97 624.98 289.93	
Labor & management charge Net return over lbr & mgt		89.22 -143.53		104.83 -138.13		90.56 199.38	
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		125.58 157.58 157.97 176.82		153.47 178.30 177.25 202.66		89.12 113.67 79.34 95.81	
Est. labor hours per unit		8.91		8.75		8.23	
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.		74.3 95.2 1.8 9.5 93.5 85.0 0.80 8.7 3.0 314.2 545 464 422.72 588 151.73		84.9 90.2 2.5 8.9 88.0 81.3 0.83 7.3 2.8 320.1 516 420 449.05 548 168.48		58.1 98.3 0.5 9.7 97.8 93.8 0.77 3.0 3.9 340.1 556 522 358.38 575 154.45	

Livestock Enterprise Analysis Farm Business Management Statewide Data With Backgrounding Only (Farms Sorted By Return to Overhead)

Beef Cow-Calf -- Average Per Cow

	Avg. Of All Farms		40 - 6	60%	High 20%		
Number of farms		36		7		8	
Beef Calves sold (lb) Transferred out (lb) Cull sales (lb) Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 435.8 78.9 160.6 -59.245.4	Value 623.07 124.49 175.09 13.10 -112.66 -10.34 -48.20 764.56	Quantity 250.0 221.1 108.217.3	Value 371.32 332.82 106.20 6.85 -3.41 -46.79 -85.83 681.17	Quantity 633.6 - 78.5 -212.2 - 151.8	Value 882.59 6.42 119.69 1.10 -328.82 - 321.98 1,002.96	
Direct Expenses Beet Pulp (dry) (lb.) Protein Vit Minerals (lb.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Oatlage (lb.) Pasture (aum) Hay (lb.) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Livestock leases Marketing Total direct expenses Return over direct expense	1,206.3 594.0 4,042.2 1,220.4 1,983.8 345.5 5.0 3,923.0 521.9	12.32 54.52 58.81 59.52 58.30 12.54 71.29 138.74 22.56 40.28 54.19 25.47 45.57 6.17 16.14 676.45 88.11	2,247.4 95.5 2,562.8 1,710.7 1,240.6 4.9 2,513.1 18.8	29.64 29.84 35.66 73.64 37.22 75.38 82.31 19.66 28.49 64.58 18.42 34.12 26.74 12.69 568.40 112.77	1,607.0 865.9 5,405.0 180.0 3,067.0 1,207.5 5.0 2,946.2 42.2	9.40 90.03 81.08 13.50 94.78 45.28 83.02 95.24 9.84 39.77 25.16 26.98 45.90 14.55 674.52 328.44	
Overhead Expenses Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		14.31 48.54 40.42 53.28 156.55 832.99 -68.44		15.23 26.02 17.69 37.31 96.25 664.65 16.52		8.03 63.99 46.66 49.76 168.45 842.97 160.00	
Labor & management charge Net return over lbr & mgt		95.87 -164.31		91.83 -75.31		110.85 49.14	
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		117.45 144.63 138.26 154.90		99.47 116.31 126.03 142.10		102.26 127.80 119.09 135.90	
Est. labor hours per unit		8.01		6.08		11.41	
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.		94.1 94.7 1.0 15.4 93.7 89.4 0.81 5.4 3.6 349.7 559 500 488.61 708 142.96		106.9 95.9 0.8 11.6 95.1 93.0 0.83 4.7 2.9 460.4 547 509 383.35 621 148.55		113.9 96.9 0.3 12.8 96.6 91.5 0.89 4.2 2.2 245.4 576 527 522.16 750 139.29	

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

Beef Cow-Calf -- Average Per Cow

_	Avg. C All Farn)f 15	Up to 50		50 100		100 200	
Number of farms		101	50)	32		16	
Beef Calves sold (lb) Transferred out (lb) Cull sales (lb) Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 243.4 185.9 70.3 -38.3 -33.7 42.8	Value 369.29 304.82 85.22 4.94 -120.63 -65.42 113.60 691.82	Quantity 198.4 168.9 83.2 -56.3 -48.1 99.3	Value 324.91 236.97 124.24 8.86 -138.60 -67.66 162.22 650.94	Quantity 233.4 191.2 82.6 -15.7 -36.8 28.1	Value 355.14 292.98 81.89 3.26 -102.17 -72.80 153.64 711.93	Quantity 159.9 264.8 95.0 -77.3 -43.0 65.1	Value 244.71 478.19 87.51 5.46 -185.12 -71.46 91.42 650.72
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) Straw (lb.) Hay (lb.) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Operating interest Total direct expenses Return over direct expense	279.9 2,489.5 4,085.4 932.8 2,565.6 3.0 136.4 2,038.3 1,863.3	43.53 13.27 62.22 48.26 88.30 43.98 3.63 72.96 46.57 30.08 46.88 31.52 46.33 17.09 594.61 97.21	287.1 115.7 3,566.7 1,312.2 2,996.8 2.6 - 2,222.7 923.0	56.65 13.95 55.80 63.74 102.46 41.48 82.90 37.60 33.12 54.71 31.59 47.23 16.31 637.53 13.41	197.7 7,617.1 2,945.5 1,449.7 2,694.1 2.1 59.5 1,537.5 2,681.3	37.42 25.33 43.64 71.72 91.04 31.53 2.16 53.15 62.47 39.54 52.07 30.52 39.64 15.72 595.93 116.00	454.7 64.2 5,314.5 721.7 1,804.3 2.7 1,343.6 2,332.9	47.87 8.25 82.03 43.90 73.52 41.35 56.70 52.58 24.53 48.46 32.39 49.96 22.04 583.56 67.15
Overhead Expenses Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		15.07 8.29 46.87 42.53 38.76 151.52 746.13 -54.31		27.60 9.81 50.46 66.64 52.88 207.40 844.93 -193.99		9.88 3.79 33.77 40.53 41.91 129.88 725.81 -13.88		17.07 3.61 33.39 46.30 37.12 137.49 721.05 -70.34
Labor & management charge Net return over lbr & mgt		89.22 -143.53		137.58 -331.57		87.95 -101.83		68.91 -139.25
Cost of Production Per Cwt. Produc Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management	ed	125.58 157.58 157.97 176.82		141.78 187.90 180.54 211.14		123.01 149.82 140.44 158.60		124.17 153.43 169.66 184.32
Est. labor hours per unit		8.91		12.57		8.05		8.38
Other Information Number of cows Pregnancy percentage Pregnancy loss percentage Culling percentage Calving percentage Weaning percentage Weaning percentage Calves sold per cow Calf death loss percent Cow death loss percent Cows per FTE Average weaning weight Lb. weaned/exposed female Feed cost per cow Avg wgt/ Beef Calves sold Avg price / cwt.		74.3 95.2 1.8 9.5 93.5 85.0 0.80 8.7 3.0 314.2 545 464 422.72 588 151.73		29.7 95.5 2.6 12.5 93.0 87.3 0.71 8.0 5.0 222.8 533 465 454.57 512 163.79		75.3 97.1 2.0 9.0 95.2 88.3 0.78 7.5 2.1 348.0 541 478 418.44 568 152.14		134.3 95.8 0.8 9.4 95.0 88.8 0.85 4.6 3.5 334.1 549 487 406.19 601 152.99

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

Beef Finishing -- Average Per Cwt. Produced

	Avg. Of All Farms		40 - 6	High 20%		
Number of farms		75		15		15
Finish Beef sold (lb) Transferred out (lb) Insurance income Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 195.55 1.07 -100.80 -6.14 9.16	Value 227.05 1.25 0.02 1.77 -154.09 -9.10 9.47 76.37	Quantity 191.19 - -102.67 -1.47 12.49	Value 219.26 - 0.40 -159.08 -2.02 12.84 71.41	Quantity 147.53 1.94 -48.40 -11.77 7.24	Value 164.63 2.62 4.59 -69.21 -16.26 9.19 95.57
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) DDGS, dry (lb.) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Hauling and trucking Operating interest Total direct expenses Return over direct expense	182.18 20.05 7.24 331.38 45.68 30.43 90.88 205.40	9.52 1.71 22.83 5.18 2.23 1.38 4.25 5.39 2.01 3.28 2.75 2.89 2.28 2.76 68.47 7.90	7.61 380.48 61.21 21.51 108.07 57.13	9.35 24.85 5.66 2.70 1.07 4.85 1.31 2.09 2.86 1.67 3.80 1.98 2.46 64.67 6.74	28.04 64.40 6.13 474.19 52.25 55.25 -	4.98 7.72 19.38 7.29 2.35 2.65 4.03 0.98 2.53 1.11 1.67 0.61 0.75 56.04 39.53
Overhead Expenses Hired labor Farm insurance Utilities Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		2.14 1.22 0.88 4.80 3.05 12.09 80.56 -4.19		2.61 1.65 0.91 3.86 3.62 12.65 77.32 -5.91		0.30 1.03 1.24 2.47 2.18 7.22 63.26 32.31
Labor & management charge Net return over lbr & mgt		5.21 -9.40		4.36 -10.27		4.50 27.80
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		112.33 118.48 118.24 120.90		111.08 117.69 117.77 120.05		85.45 90.28 90.28 93.30
Est. labor hours per unit		0.36		0.39		0.41
Other Information No. purchased or trans in Number sold or trans out Percentage death loss Avg. daily gain (lb.) Lb. of conc / lb. of gain Lb. of feed / lb. of gain Feed cost per cwt. of gain Feed cost per head Hired labor per head Average purchase weight Avg wgt / Finish Beef sold Avg sales price / cwt.		243 228 1.0 2.79 7.78 10.09 52.49 359.52 16.66 743 1,417 152.87 116.11		430 398 0.9 3.17 6.84 9.00 49.80 364.14 22.15 767 1,506 154.94 114.68		55 50 1.2 2.27 4.60 7.92 48.39 406.07 2.50 598 1,396 143.00 111.59

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

Hogs, Weaning to Finish -- Average Per Head

	Avg. Of All Farms		40 - 6	0%	<u>High 20%</u>	
Number of farms				5		
Wean-Fin Pig sold (lb) Transferred out (lb) Cull sales (lb) Government payments Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 278.4 0.0 2.0 -16.8 -0.5 0.6	Value 138.52 0.01 0.41 1.49 3.93 -48.04 -1.49 0.28 95.11	Quantity 284.4 - 5.4 -16.2 -1.4 -3.6	Value 140.47 - 1.13 1.50 4.70 -48.89 -4.44 -4.80 89.66	Quantity 291.6 - 0.7 -18.010.8	Value 151.11
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) DDGS, dry (lb.) Other feed stuffs (lb) Veterinary Supplies Contract production exp. Fuel & oil Repairs Custom hire Hired labor Hauling and trucking Operating interest Total direct expenses Return over direct expense	147.5 87.8 6.9 70.9 7.2	27.81 9.98 22.72 5.08 1.18 3.86 2.68 2.90 1.01 1.52 2.05 1.19 1.83 1.28 85.10 10.00	192.9 37.5 6.9 92.2 0.6	33.78 3.81 22.20 6.79 0.34 5.05 4.32 - 0.37 0.74 3.89 0.57 2.64 0.91 85.42 4.25	146.3 125.9 6.4 85.0 4.1	27.43 11.69 21.54 5.81 0.45 2.66 1.62 3.49 1.36 1.50 1.31 2.28 1.82 0.75 83.72 24.94
Overhead Expenses Hired labor Building leases Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		2.26 9.80 1.14 1.99 3.09 18.27 103.38 -8.27		2.15 13.37 1.46 1.98 2.38 21.33 106.75 -17.09		0.77 13.41 0.45 2.20 2.82 19.65 103.36 5.30
Labor & management charge Net return over lbr & mgt		3.21 -11.48		1.39 -18.47		3.56 1.74
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		64.99 73.85 71.23 72.79		67.71 77.85 74.91 75.57		62.08 71.19 67.62 69.27
Est. labor hours per unit		0.27		0.18		0.20
Other Information No. purchased or trans in Number sold or trans out Percentage death loss Percent substandard hogs Avg. daily gain (lb.) Lb. of feed / lb. of gain Feed cost per cwt. of gain Feed cost per head Hired labor per head Average purchase weight Avg wgt / Wean-Fin Pig sold Avg purch price / head Avg sales price / cwt. Average price / cwt. carcass		17,020 15,366 6.3 2 1.57 2.62 25.31 66.77 3.45 15 266 42.60 49.75 201 66.78		29,014 25,791 10.6 3 1.65 2.63 24.90 66.92 2.72 15 276 46.15 49.39 209 66.25		28,100 26,758 4.1 2 1.46 2.73 25.40 66.92 3.05 15 255 41.91 51.82 191 69.65

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

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

	Avg. Of All Farms		40 - 60	0%	High 20%	
Number of farms			5		5	
Finish Hogs sold (lb) Transferred out (lb) Cull sales (lb) Government payments Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 135.17 0.24 0.68 -17.65 -1.54 -1.22	Value 67.08 0.15 0.13 1.02 0.77 -23.29 -3.47 -2.28 40.10	Quantity 136.73 1.45 - -8.93 -7.88 -4.09	Value 65.68 0.87 1.59 0.09 -9.52 -19.32 -2.55 36.83	Quantity 135.23 - 1.68 -18.33 -0.51 0.71	Value 71.93 - 0.32 1.25 0.46 -25.55 -0.51 -0.86 47.03
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) Other feed stuffs (lb) Veterinary Supplies Contract production exp. Fuel & oil Repairs Livestock leases Hauling and trucking Operating interest Total direct expenses Return over direct expense	65.32 94.08 3.32 6.47	12.23 5.69 10.99 0.53 0.56 1.13 1.63 0.38 0.53 0.19 0.88 0.51 35.25 4.85	50.10 327.83 3.05 4.11	9.25 10.00 10.12 0.55 0.60 0.97 	76.23 10.67 4.00 9.17	14.28 0.84 13.21 0.72 0.45 0.66 - 0.24 0.46 1.45 0.42 32.73 14.30
Overhead Expenses Hired labor Building leases Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		0.77 2.87 0.40 0.47 0.50 1.33 0.53 6.87 42.13		1.72 0.57 0.62 1.38 0.61 1.48 0.56 6.94 41.69 -4.86		0.88 6.67 0.37 0.34 0.56 1.31 0.61 10.73 43.46 3.57
Labor & management charge Net return over lbr & mgt		1.33 -3.36		2.10 -6.96		0.57 3.00
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		64.12 70.99 69.25 70.58		66.06 73.00 71.40 73.50		59.31 70.04 68.36 68.93
Est. labor hours per unit		0.12		0.19		0.08
Other Information No. purchased or trans in Number sold or trans out Percentage death loss Percent substandard hogs Avg. daily gain (lb.) Lb. of feed / lb. of gain Feed cost per cwt. of gain Feed cost per head Hired labor per head Average purchase weight Avg wgt / Finish Hogs sold Avg purch price / head Avg sales price / cwt. Average carcass weight Average price / cwt. carcass		8,876 8,767 4.5 2 1.69 2.72 25.43 61.06 1.93 41 276 54.40 49.62 208 66.67		8,224 7,546 5.6 3 1.58 2.85 25.48 56.00 3.23 48 266 51.66 48.03 200 64.72		17,026 16,826 4.0 2 1.65 2.70 24.44 63.37 1.92 38 280 53.37 53.19 211 71.53

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

	2014	204.5	2046	2047	2049	Total Dire Outed Evenence
Alfalfa Hay	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	Total Dir&Ovhd Expense
Yield per Acre	4.0	3.9	5.0	4.5	4.1	
Value per Ton	\$176.49	\$153.84	\$110.40	\$108.87	\$134.75	\$400
Fuel, Oil, Repairs per Acre	\$114.57	\$83.10	\$79.40	\$82.42	\$93.70	380
Total Dir & Ovhd Exp per Acre	\$379.84	\$329.25	\$338.03	\$328.96	\$340.55	\$350
Net Return per Acre	\$337.71	\$292.23	\$209.56	\$167.85	\$210.75	329 338 320 341
Total Direct Expenses per Ton	\$48.66	\$42.09	\$32.55	\$35.05	\$39.82	\$300
Total Direct Expenses per Ton	\$94.13	\$84.09	\$68.35	\$73.25	\$83.41	2014 2015 2016 2017 2018
Total Dil & Ovlid Exp per Toli	ψ3 4 .13	ψ0 4 .03	ψ00.55	Ψ13.23	ψου.41	
Corn						
Yield per Acre	118.8	164.2	179.5	164.6	179.0	\$600
Value per Bushel	\$3.42	\$3.30	\$2.95	\$3.08	\$3.22	\$580
Fuel, Oil, Repairs per Acre	\$87.92	\$80.80	\$71.55	\$74.43	\$82.18	582
Total Dir & Ovhd Exp per Acre	\$581.67	\$562.75	\$537.05	\$539.30	\$553.48	\$540
Net Return per Acre	-\$75.40	-\$0.05	\$1.65	-\$14.68	\$38.76	\$520 + 537 - 539
Total Direct Expenses per Bu.	\$3.43	\$2.40	\$1.98	\$2.17	\$2.11	\$500 2014 2015 2016 2017 2018
Total Dir & Ovhd Exp per Bushel	\$4.90	\$3.43	\$2.99	\$3.28	\$3.09	2014 2015 2016 2017 2016
	•	•	•	•	•	
Corn Silage						
Yield per Acre	14.3	19.5	19.4	19.8	20.6	\$580
Value per Ton	\$35.05	\$34.46	\$33.91	\$30.45	\$29.98	\$560 576
Fuel, Oil, Repairs per Acre	\$122.88	\$93.91	\$88.07	\$93.48	\$95.29	555
Total Dir & Ovhd Exp per Acre	\$576.47	\$554.58	\$539.19	\$545.06	\$533.70	\$520 539 545 534
Net Return per Acre	\$9.68	\$120.30	\$119.00	\$68.81	\$86.46	9520
Total Direct Expenses per Ton	\$27.70	\$19.47	\$18.88	\$18.82	\$17.55	\$500 2014 2015 2016 2017 2018
Total Dir & Ovhd Exp per Ton	\$40.28	\$28.43	\$27.80	\$27.48	\$25.94	
Cautagua						
Soybeans Viold par Apra	33.0	38.1	46.7	35.2	41.0	
Yield per Acre					41.0	\$310
Value per Bushel	\$9.73	\$8.33	\$9.27	\$9.05	\$8.38	\$300
Fuel, Oil, Repairs per Acre	\$46.04	\$38.24	\$38.23	\$39.35	\$44.13	\$290
Total Dir & Ovhd Exp per Acre	\$289.37	\$288.14	\$285.42	\$299.63	\$308.24	\$280 - 289 - 288 - 285
Net Return per Acre	\$52.87	\$43.58	\$151.42	\$38.07	\$118.57	\$270
Total Direct Expenses per Bu.	\$5.81	\$4.94	\$3.80	\$5.55	\$4.95	2014 2015 2016 2017 2018
Total Dir & Ovhd Exp per Bushel	\$8.76	\$7.57	\$6.12	\$8.51	\$7.52	
Spring Wheat						
Yield per Acre	60.2	66.0	66.0	72.3	65.8	\$340
Value per Bushel	\$5.62	\$4.96	\$4.95	\$5.90	\$5.47	\$320
Fuel, Oil, Repairs per Acre	\$43.17	\$38.15	\$35.53	\$39.62	\$45.25	1 320
Total Dir & Ovhd Exp per Acre	\$320.40	\$299.33	\$291.26	\$289.47	\$303.60	\$300
Net Return per Acre	\$32.83	\$40.40	\$39.56	\$146.74	\$80.69	\$280
Total Direct Expenses per Bu.	\$3.77	\$3.19	\$2.92	\$2.73	\$3.19	\$260 2014 2015 2016 2017 2018
Total Dir & Ovhd Exp per Bushel	\$5.32	\$4.54	\$4.41	\$4.00	\$4.62	
Beef Cow Calf Price Recv'd/Cwt Calf Sold	¢242.22	¢206.46	¢156 40	¢1/7/7	¢154.70	\$900
	\$212.33	\$206.46	\$156.42 \$412.74	\$147.47	\$151.73	\$850
Total Feed Cost/Cow	\$508.48	\$438.89	\$412.74	\$395.34	\$422.72	\$800
Return over Feed/Cow	\$786.66 \$451.63	\$425.07	\$220.55	\$302.85	\$269.10	\$750 \$700
Net Return/Cow	\$451.63	\$117.23	-\$84.29	-\$19.01	-\$54.31	\$650
Total Direct & Ovhd Expenses	\$843.51	\$746.72	\$717.58	\$717.20	\$746.13	2014 2015 2016 2017 2018
Dairy Cows						
Production/Cow	23,765	24,034	24,598	24,830	23,974	\$20
Price Recv'd/Cwt Milk	\$24.36	\$17.75	\$16.33	\$17.72	\$16.44	18
Total Feed Cost/Cwt Milk	\$10.22	\$8.77	\$7.72	\$7.80	\$8.06	\$15
Return over Feed/Cwt Milk	\$13.42	\$8.65	\$8.61	\$9.92	\$8.38	16 15 15 15
Net Return/Cwt Milk	\$5.26	\$1.20	\$0.44	\$1.38	-\$0.16	\$10
Total Direct & Ovhd Expenses	\$18.38	\$16.22	\$14.87	\$15.22	\$15.45	2014 2015 2016 2017 2018
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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: agcentric.org/what-we-do/education-training/farm-business-management

Alexandria Technical and Community College: alextech.edu

Central Lakes College Website: clcmn.edu

Minnesota West Community & Technical College: mnwest.edu

Northland Community & Technical College Website: northlandcollege.edu

Ridgewater College: ridgewater.edu

Riverland Community & Technical College: riverland.edu

South Central College: southcentral.edu

St. Cloud Technical and Community College: sctcc.edu







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Farm Finance Scorecard

