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# **SOUTHWEST MINNESOTA**Farm Business Management Association

# 2023 ANTIUAL REPORT

#### IN COOPERATION WITH:

Center for Farm Financial Management · Department of Applied Economics University of Minnesota Extension College of Food, Agricultural and Natural Resource Sciences University of Minnesota

STAFF PAPER #P24-02
Department of Applied Economics
University of Minnesota
Saint Paul, MN 55108
April 2024

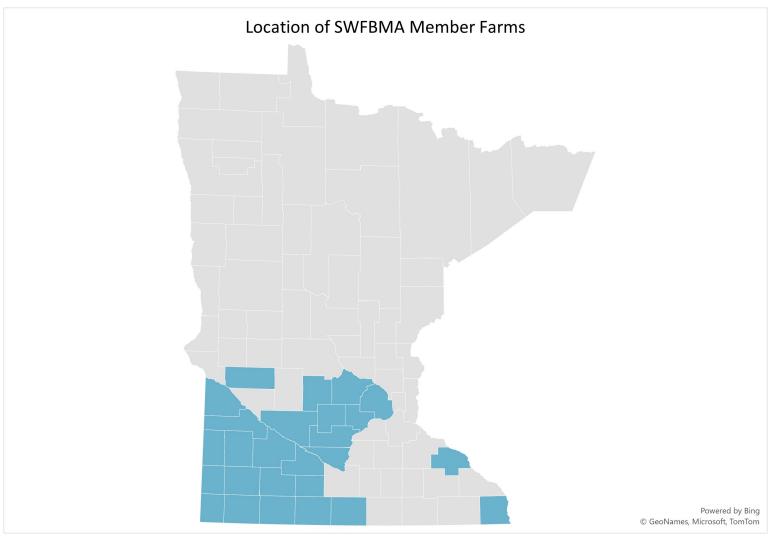


Figure 1: Location of SWFBMA Member Farms

#### Southwest Minnesota Farm Business Management Association (SWFBMA)

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Garen Paulson – Extension Educator & Field Staff Tonya Knorr – Field Staff Nick Sandager – Field Staff Gretchen Thillen – Staff Support



# **About SWFBMA**

The <u>Southwest Minnesota Farm Business Management Association (SWFBMA)</u> is a membership-led farm organization. The focus of which is improving members' farm financial management skills, knowledge, and success. The association provides members with analysis, confidential peer farm benchmarking, individual consultations, and connections to University research and expertise.

A group of farmers founded the SWFBMA in 1939 to help area farmers implement better farm management practices and keep accurate records. Today, the association is based out of the <u>Southwest Research & Outreach Center</u> and is affiliated <u>with University of Minnesota Extension Agricultural Business Management</u> and the <u>Center for Farm Financial Management</u> (CFFM).

#### 2023-2024 Association Officers and Directors

President: Ryan Larson

Vice-President: Matt Grussing

Secretary-Treasurer: Jeffrey Leuthold

Directors: Russell Gundermann, Matt Lund, Jesse Nantkes, Jason Tibodeau, Alan Vander Lugt, and John

Volk

# Distribution of Membership

County	# Farm Units	# Analysis Records Submitted
Cottonwood	17	14
Faribault	2	2
Jackson	19	17
Lyon	5	3
Murray	16	16
Nobles	20	18
Pipestone	11	12
Redwood	10	9
Rock	4	5
Wabasha	2	3
Watonwan	7	4
Others	14	14
Total	127	116

# Acknowledgements

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- the producers in the Southwest Minnesota Farm Business Management Association.
- Gretchen Thillen, Support Staff for SWFBMA and Rebecca Groos, Event Coordinator for ABM.
- Rann Loppnow, Software Developer, Lauren Pritchard, Graphic and Web Designer, Megan Engel, Communications Specialist, and Katie Nichols, Event and Administrative Associate at CFFM.

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# 2023 Annual Report of the Southwest Minnesota Farm Business Management Association

# **Executive Summary**

The 2023 Annual Report of the Southwest Minnesota Farm Business Management Association includes 116 member farms. Highlights of association financial results for 2023 include:

- 2023 marked a drastic reduction in farm income for association farms. This was primarily caused by decreasing prices for corn and soybeans at year end. For many farms, inventory value changes at year end led to reduced accrual adjusted net farm income for the year. Moreover, hog and dairy producers experienced a challenging year overall with persistently high feed prices and reduced commodity prices.
- In 2023, median net farm income was \$52,653 for association farms. This compares to an average net farm income of \$34,756. This further speaks to the challenging profitability of association farms this past year. In 2023, the average net farm income was skewed lower by the lower profits of larger livestock farms.
- Typically, incomes vary widely around the average and 2023 was no exception. The average net farm income for the most profitable 20% of association farms was \$319,446. This compares to the least profitable 20% of farms that had a net farm loss of (\$332,305) for the year. Again, this is a stark change from 2022, when farms of all profitability levels experienced positive earnings.
- Gross cash farm income was down \$133,713 or 10% in 2023. And total cash expenses were down \$127,102 or 12% for the year. The major impact on net farm income was the impact of inventory changes for the year. Total inventory change for the year was (\$194,542) in 2023. This was a decrease of \$335,330 or 238% from 2022.
- Crops accounted for 56% of the revenue of association farms in 2023. Livestock equated to 34%, government payments 1%, and other farm income sources 9%. Government payments were reduced again in 2023 as compared to the major support levels received in 2020 from the impact of COVID and other disaster assistance.
- The average farm had a rate of return on assets of -0.2% and a rate of return on equity of -2.4% with assets valued at adjusted cost or book value. Rates of return retreated back to the historically low levels association farms experienced from 2013 to 2018. Rate of return on assets was down almost 10% from 2022.
- When analyzing the cost value balance sheet, the average farm had a negative earned net worth change of -\$9,291 in 2023. But overall net worth change for association farms was at a positive \$154,187. Therefore, an increase in the market value of assets (like land) propped up balance sheet increases for the year. Members' balance sheets remained strong for the year with an average market value based debt to asset ratio of 36% (including deferred liabilities).
- The average farm's working capital decreased by almost (\$215,000) in 2023. This is not a surprise given the challenging profitability and major impact of inventory change for the year. Liquidity

- remained strong for member farms though, with working capital to gross revenue of 56% and a current ratio of 2.64 on average.
- Debt repayment capacity was also very challenged in 2023 for association farms. Debt coverage ratio was 0.65, significantly below the desired 1.25 threshold for this measure. Farms are utilizing working capital reserves to make scheduled debt payments when debt coverage measures are below 1.0.
- Leveraging debt did not pay dividends in 2023. Unfortunately, the low income year multiplied the losses for those farms with higher debt levels. The 72 farms with debt to asset ratios of under 40% experienced a rate of return on equity of -1%, whereas the more highly leveraged farms (those with debt to asset ratios over 60%) had rates of return on equity of -20%.
- The 22 farms whose principal operator was between 41 and 50 years of age saw the highest overall level of net farm income and profitability for the year in 2023. The youngest group of farmers, those under the age of 31, had the strongest repayment capacity. Finally, the most seasoned age group of producers, those over 60 years of age, endured the most challenging finances for the year. This group of producers had the lowest profitability and repayment capacity performance for the year and lost the most dollars of working capital for the year.

# 2023 SWFBMA Farm Analysis Summary Overview

Metric	Average	Median
Gross Crop Income	\$588,325	\$415,196
Gross Livestock Income	370,500	0
Government Payments	11,541	0
Other Farm Income	152,407	12,913
Gross Farm Income (accrual)	\$1,122,773	\$659,346
Total Operating Expense	1,057,927	572,974
Total Interest Expense	46,196	14,173
Total Expenses	\$1,104,124	\$623,105
Net Farm Income from Operation	\$18,649	\$41,314
Gain/Loss on Capital Sales	\$16,107	\$0
Net farm Income	\$34,756	\$52,685
Total Crop Acres	855 acres	718 acres
•		
Number of Operators	1.1 operators	1 operator
Operator Age	52 years	56 years
Years Farming	27.5 years	33 years

Average = the sum of all values divided by the number of farms in the data set. Median = the middle value for each metric of the data set.

Figure 2: 2023 SWFBMA Farm Analysis Summary

# **Net Farm Income**

The average net farm income for the farms included in the 2023 Southwest Minnesota Farm Business Management Association (SWFBMA) Annual Report is \$34,756. This represents a 90% decrease from average net farm income received by producers in 2022. The decrease in income primarily stems from decreases in prices for corn, soybeans, and other commodities, as well as challenges faced in the dairy and hog industries. Figure 3 below shows average accrual net farm income for farms participating in the SWFBMA over time in both inflation-adjusted and nominal (not accounting for inflation) dollars.

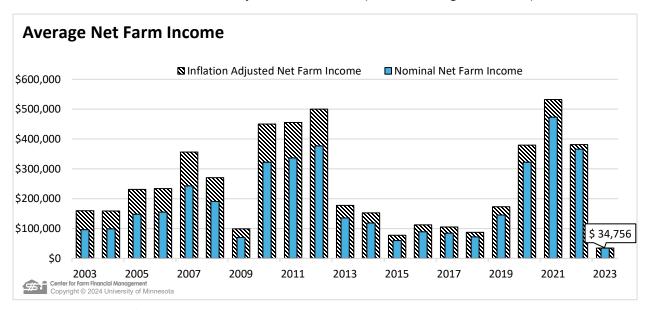
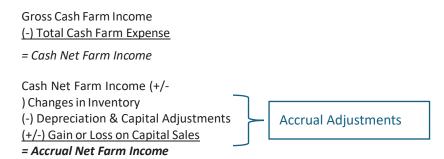


Figure 3: Average Accrual Net Farm Income Over Time

The median net farm income, or the income reported by the middle farm in the association, was a little higher at \$52,653. This indicates the average was skewed downward by large losses reported by farms, particularly large livestock operations.

#### Accrual Net Farm Income

Accrual net farm income figures are the focus of this report, as opposed to cash net farm income. This is because accrual adjustments to income account for changes in inventories, depreciation, and capital sales. This allows for more accurate measures of the revenue and costs of production for a given year. The calculation of accrual net farm income is shown below.



# Benchmarking 2023 Farm Profitability

One metric used to examine the strength of farm finances is the net farm income ratio. This ratio shows how much of every dollar earned by the business is leftover after farm expenses (excluding unpaid operator labor and management) are accounted for.

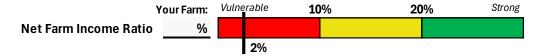


Figure 4: Net Farm Income Ratio Stoplight Chart

The net farm income ratio is 2% for 2023, shown in Figure 4 above. This means that for every dollar of gross income earned by the farm, only \$0.02 was kept by the business after expenses were paid. A net farm income ratio of 2% is considered vulnerable. This is a substantial decrease compared to 2022, when the net farm income ratio for association farms was 23%.

# Rates of Return on Assets and Equity

Rate of return on assets (ROA) and rate of return on equity (ROE) are two additional measures used to evaluate farm profitability.

ROA is the return the farm earns on its assets. It can be thought of as the interest rate earned on investments by both the farm *and* creditors into the business. ROE is the return the farm earns on its equity. In other words, it is the interest rate earned on investments by the farm alone.

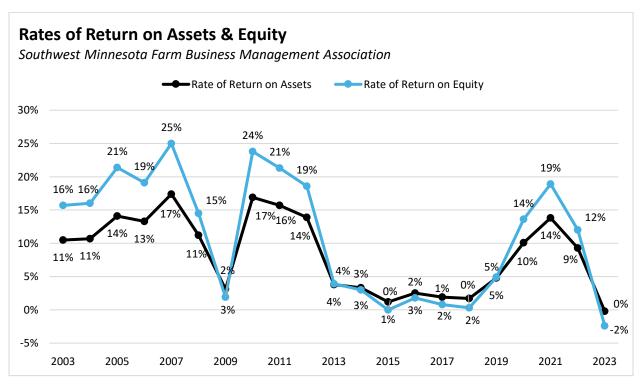


Figure 5: Relationship of Rates of Return on Assets and Equity Over Time

The relationship between ROA and ROE gives insight to what happened to farm finances during the year. If ROA is greater than ROE, the average producer lost money on borrowed capital. When ROE is greater than ROA, borrowed capital earned more than it cost. In other words, ROA was higher than the interest rate paid for borrowed capital. ROA dropped from 9% in 2022 to 0% in 2023. ROE dropped from 12% in 2022 to -2% in 2023. Since ROA is greater than ROE, the average producer lost money on borrowed capital in 2023.

Below is the specific benchmark comparison for ROA for SWFBMA in 2023. In 2023, this profitability measure was also rated as vulnerable for the average Association farm.



Figure 6: Rate of Return on Farm Assets Ratio Stoplight Chart

# Profitability Drivers for 2023

Net farm income is driven by farm production, commodity prices, and operating expenses. The table below gives an overview of 2023 compared to the previous 4-year average (2019-2022) in terms of these metrics. Overall, farm production was in line with recent trends, whereas average market prices received by producers last year were more variable. Prices received were up for corn, soybeans, and beef sales. Milk prices were down 5% in 2023 compared to the state average and hog and lamb prices were similar to the last four years. The changing tide in profitability was more so driven by increased cost of production for these commodities last year. This is evident when reviewing the 2023 cost of production as compared to the previous 4-year average. Cost of production was increased for all farm enterprise types in 2023.

_	Average Production		Average Price			Average Cost of Production*			
	2023	Prev. 4-Yr. Avg	% Chg-Avg	2023	Prev. 4-Yr. Avg	% Chg-Avg	2023	Prev. 4-Yr. Avg	% Chg-Avg
Corn	199.0	192.4	+ 3%	\$6.17	\$4.60	+ 34%	\$4.95	\$3.99	+ 24%
(bu./acre and \$/bu)**									
Soybeans	53.8	54.3	- 1%	\$13.86	\$10.92	+ 27%	\$13.35	\$10.69	+ 25%
(bu./acre and \$/bu)**	55.0	04.0	- 170	Ψ10.00	Ψ10.02	. 27/0	Ψ10.00	Ψ10.05	25/0
Beef Cow-Calf	517	531	- 3%	\$219.95	\$159.42	+ 38%	\$227.32	\$204.55	+ 11%
(weaning weight and \$/cwt)***	317	551	- 370	φ213.33	φ139.42	T 3070	φΖΖ/.3Ζ	φ204.33	T 1170
Beef Finishing	1,425	1,421	0%	\$174.81	\$123.03	+ 42%	\$161.82	\$123.11	+ 31%
(sales weight and \$/cwt)***	1,425	1,421	U70	φ1/4.01	φ125.05	T 4270	φ101.02	φ123.11	7 3170
Dairy	25,540	24,779	+ 3%	\$19.26	\$20.35	- 5%	\$19.83	\$18.83	+ 5%
(lbs. milk/cow and \$/cwt. milk)***	25,540	24,779	T 370	φ15.20	φ20.33	- 370	φ19.03	φ10.03	T 370
Hogs - Wean to Finish	211	205	+ 3%	\$80.00	\$80.37	0%	\$89.44	\$77.67	+ 15%
(carcass weight and \$/cwt carcass)***	211	205	+ 3%	φ80.00	φδυ.37	U%	ф89.44	\$//.6/	+ 15%
Sheep - Mkt. Lamb Production	120	106	. 20/	¢100.00	¢101.62	00/	¢001 EE	¢010.04	1 40/
(sales weight and \$/cwt)***	130	126	+ 3%	\$192.29	\$191.63	0%	\$221.55	\$212.24	+ 4%

<sup>\*</sup> cost of production includinding labor and management charge

Figure 7: Crop and Livestock Production, Price, and Cost of Production Trends

<sup>\*\*</sup> crop cost of production for cash rented acres

<sup>\*\*\*</sup> indicates MN statewide information

# Farm Income and Expenses

The figure below shows gross cash farm income and expenses over time. All income and expense information has been adjusted for inflation.

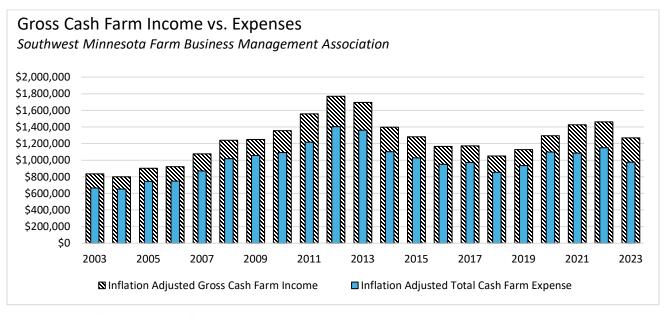


Figure 8: Gross Cash Farm Income and Expenses Over Time

Gross cash farm income was down \$133,713 in 2023 compared to 2022. This equated to a 10% reduction in gross cash farm income year over year. Cash income from government payments, hogs, and dairy saw the largest reductions from the previous year. The only commodity with increased revenue from 2022 was beef.

Total cash farm expenses were 15% lower in 2023 compared to 2022. Cash farm expenses dropped from \$1,148,633 (2022 inflation-adjusted dollars) to \$976,294. The chart below shows the largest cash expenses for the average producer in SWFBMA. The percentage change from the previous year is presented above the chart.

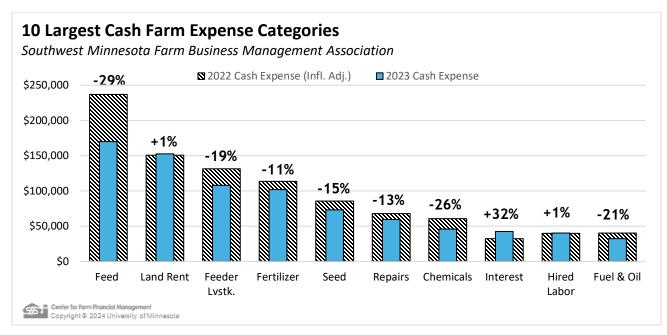


Figure 9: Largest Cash Farm Expense Categories

Many individual cash farm expenses categories decreased for association farms in 2023. Those experiencing significant percent decreases were purchased feed, chemicals, fuel and oil, feeder livestock purchases, seed, repairs, and fertilizer. Not surprising, interest expense was the one category with a significant cost increase as compared to 2022. Both land rent and hired labor expenses had a small (1%) increase year over year.

# Benchmarking 2023 Expenses

The chart below shows the operating expense ratio stoplight analysis. This ratio shows the portion of farm income that is used to pay operating expenses (excluding interest and depreciation).

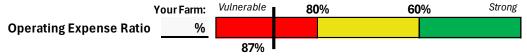


Figure 10: Operating Expense Ratio Stoplight Chart

The stoplight chart above shows that on average, producers had an operating expense ratio of 87%, which falls into the vulnerable range. In other words, for every dollar a producer received, an average of \$0.87 went towards paying operating expenses. In 2022 this metric was 69%. This further explains the impact increased operating expenses had on the change in farm profitability for 2023.

# Farm Balance Sheet

The table below shows how the average farm balance sheet for the association has changed over time. This figure is adjusted for inflation and uses market valuation for assets.

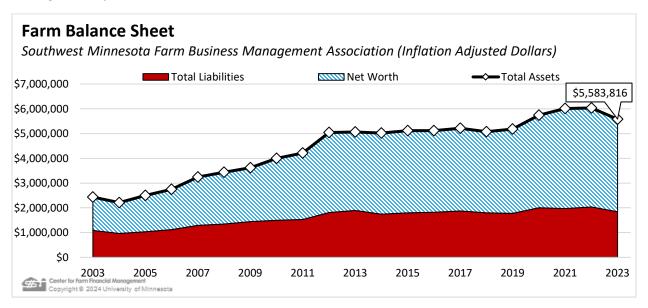


Figure 11: Farm Market Balance Sheet Over Time

In 2023, the average farm had \$5,583,816 in total assets. This represents a 7% decrease in total assets compared to 2022. This decrease in total assets was driven specifically by a decrease in current assets like prepaid expenses, crop inventories, and market livestock held for sale. The amount of current assets on the 2023 ending balance sheets was 22% less than the previous year.

The average farm had total liabilities of \$1,841,924, which is almost 10% less than the value of liabilities reported in 2022. Total farm liabilities decreased for the year in every category. Overall, total liabilities were down \$119,094 at the end of 2023. Net worth for these farms was \$3,741,892 in 2023. This is a 6% decrease in net worth compared to 2022.

Association farms lost (\$9,291) in retained earnings (or earned net worth) as compared to the previous year's cost value balance sheet. But change in total, market value based, net worth was positive for the year. Total net worth increased by 4% or \$154,187. This increase was driven by changes in the market valuation for assets.

When analyzing the graph above, it appears as though the average SWFBMA farm lost net worth on a market value basis in 2023. The average farm in 2023 did in fact have a net worth increase year over year. Each year, there is a different mix of farms participating in the farm analysis program. In 2023 there were additional farms in SWFBMA, many of which are younger farms with a smaller asset base.

# Benchmarking 2023 Farm Solvency

Solvency is the ability of a business to meet all debt obligations if all assets of the business were sold at the current point in time. One way to measure a farm's solvency position is the debt-to-asset ratio. This ratio compares total farm liabilities to total farm assets. The higher the ratio, the more highly leveraged the farm. A higher ratio indicates greater financial risk and lower borrowing capacity.

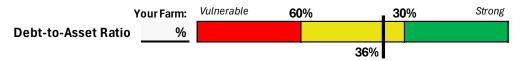


Figure 12: Debt-to-Asset Ratio Stoplight Chart

In 2023, the average farm in the association had a debt-to-asset ratio of 36%, which is considered acceptable according to the stoplight chart above. This value is similar to recent years, the farm debt-to-asset ratio has been 38% in 2020, 36% in 2021, and 37% in 2022.

# Benchmarking Other Financial Performance in 2023

# Farm Liquidity

Liquidity is the ability of the farm to meet financial obligations in the short-term, such as bills, loans, and family living expenses. One metric to evaluate farm liquidity is the working capital to gross revenue (WCGR) ratio. This ratio shows working capital as a percentage of gross farm revenue. The higher the percentage, the better the ability the farm has to meet short-term needs of the business without additional financing.



Figure 13: Working Capital to Gross Revenue Ratio Stoplight Chart

In 2023, the average farm in the association had a WCGR revenue ratio of 56%, which is considered strong according to the stoplight chart above. This was down slightly from 2022, when the average WCGR ratio was 60% for Association farms. Overall, Association farms have a strong liquidity position and are poised to withstand a profitability downturn should it occur.

# Repayment Capacity

Repayment capacity is the ability of the borrower to repay debts on time. It includes nonfarm income. One way to measure repayment capacity of the farm is to use the debt coverage ratio. This ratio indicates whether the farm generated enough income to cover current interest expenses and all intermediate and long-term debt payments.



Figure 14: Debt Coverage Ratio Stoplight Chart

In 2023, the debt coverage ratio was 0.65, which is a vulnerable level. A debt coverage ratio of 0.65 indicates the average farm had \$0.65 to pay every \$1.00 of debt payments last year. This is a stark decrease from 2022, which saw a debt coverage ratio of 3.79. 2023 is the first time since 2015 that the ratio fell below 1.0, and this is the first time since 2019 the ratio fell below 1.25.

# **Financial Efficiency**

Financial efficiency provides insight into the overall financial efficiency of the farm business. This group of ratios outline where each dollar of farm income generated is spent in the operation. This includes operating expense ratio, interest expense ratio, depreciation expense ratio, and net farm income ratio. It is desirable to keep the operating expense, depreciation expense, and interest expense ratios low in order to maximize net farm income ratio.

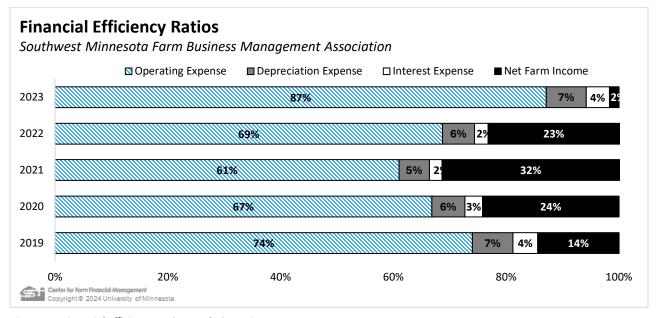


Figure 15: Financial Efficiency Ratio Trends Over Time

The graph above compares the financial efficiency ratios over recent years. This provides a stark overview of how operating expenses increased and net farm income was limited last year. Operating expense ratio was the highest it has ever been for association farms in 2023. Several years in the past saw operating

expense ratios over 80%, including 2009, 2013, and 2015. Producers remember these as challenging financial years as well for their farming operations.

# Benchmarking 2023 Financial Efficiency

The chart below provides the recommended benchmarks for the four financial efficiency ratios. When added together, these four ratios will equal 100% and represent how each dollar generated by the farming operation is utilized in the business.

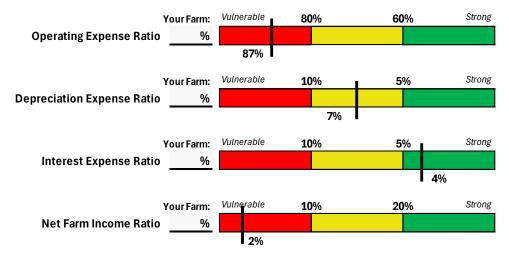


Figure 16: Financial Efficiency Ratios Stoplight Charts

For 2023 the interest expense ratio is the only ratio rated strong for association farms. This ratio indicates the amount of gross farm income used to pay for interest on borrowed capital. The depreciation expense ratio was rated adequate in 2023 and is a measure of capital utilization by the farm. Lastly, both operating expense ratio and net farm income ratio were rated as vulnerable in 2023 for association farms. Monitoring and benchmarking these ratios over time provides insight into the overall management and efficiency of the farm business.

# **Comparisons Across Farm Types**

Evaluating the average farm is a good way to get an overall sense of the status of farm finances for the SWFBMA. But it is also important to recognize there is a lot of variation around the average. The chart below provides an overview of the distribution of Association farms in 2023 across various groupings.

Group Category			Category	Groups		
	<	\$250-	\$500K-			
<b>Gross Farm Revenue</b>	\$250K	\$500K	\$1M	\$1-2M	> \$2M	
# of Farms	16	23	36	30	11	
% of All Farms	14%	20%	31%	26%	9%	
Dollars of Farm	<	\$500K-				
Assets	\$500K	\$1M	\$1-2M	\$2-5M	> \$5M	
# of Farms	11	9	16	42	38	
% of All Farms	9%	8%	14%	36%	33%	
Farm Type*	Crop	Livestock	Other**			
# of Farms	85	11	20			
% of All Farms	73%	9%	17%			
	. 400	404 250	250 500	500-	4 000	>
	< 100	101-250	250-500	1,000	1,000-	1,500
Crop Acres	acres	ac.	ac.	ac.	1,500 ac.	ac.
# of Farms	10	12	20	45	19	10
% of All Farms	9%	10%	17%	39%	16%	9%
Dobt to Accet			400/			
Debt to Asset	4 200/	200/ 400/	40%-	> CO0/		
Ratio	< 20%	20%-40%	60%	> 60%		
# of Farms	28	44	34	10		
% of All Farms	24%	38%	29%	9%		
-	< 31	31-40	41-50	51-60	> 60	
Operator Age	years	years	years	years		
# of Farms	13	16	22	15	years 50	
% of All Farms	11%	14%	19%	13%	43%	
70 UI AII FAIIIIS	TT 70	1470	1970	1370	4570	
	10 or	11-20	21-30	31-40	> 40	
Years Farming	less yrs	years	years	years	years	
# of Farms	26	19	10	14	47	
% of All Farms	22%	16%	9%	12%	41%	

<sup>\*</sup> farm type is determined by an enterprise having 70% or greater of gross farm revenue

Figure 17: Distribution of Farms in the Report Across Various Groupings

<sup>\*\*</sup> Other farm type is farms that are a mix of enterprises, none of which meet the 70% threshold

Crop producers comprise the most prevalent producer type in the Association. Therefore, reviewing the performance of this specific group based on farm size can provide insight into the impact size had on financial performance in the past year. The graph below shows profitability information for the average association crop farm on the left. This information is then broken down into farm size categories to indicate dollars of net farm income and rate of return on assets for each farm size group based on gross farm income.

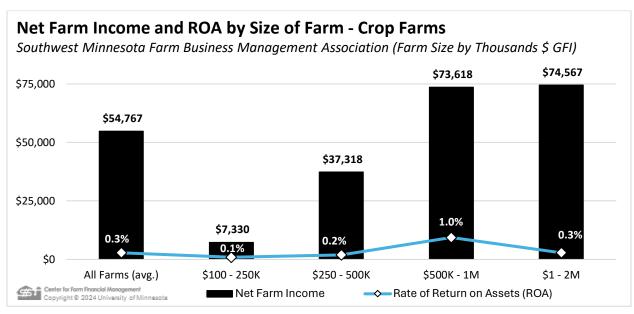


Figure 18: Median Net Farm Income and ROA by Size of Operation for Crop Farms

This chart demonstrates profitability was challenging across all crop farm sizes in 2023. The midsize crop operation was the most profitable in 2023, having the highest rate of return on assets of any group and nearly the highest dollars of net farm income.

# Nonfarm Income and Expenses

The chart below shows the trends in nonfarm income over time. The average nonfarm income received by producers in 2023 was \$66,243. Most of that nonfarm income consisted of personal wages received off-farm. Other nonfarm income includes personal rental income, personal interest income, personal cash dividends, tax refunds, and other nonfarm income.

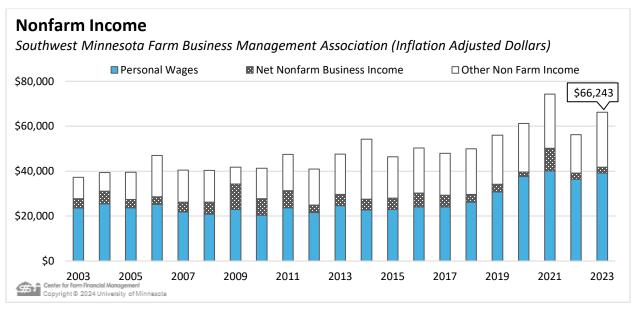


Figure 19: Nonfarm Income Over Time

Total nonfarm expenses were \$146,661 in 2023. This included \$84,830 of family living expenses (like food, medical expenses, and clothing), \$47,331 of income taxes, and \$14,500 of other personal, non-real estate capital expenditures.

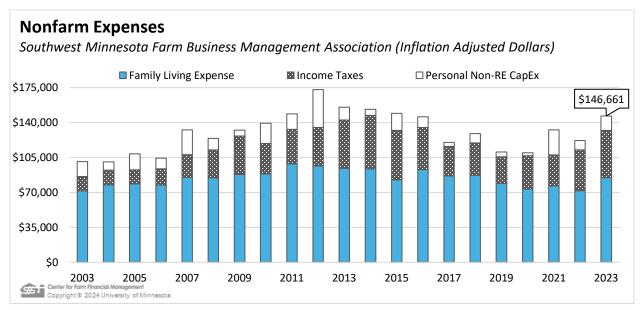


Figure 20: Nonfarm Expenses Over Time

# 2023 Annual Report of the Southwest Minnesota Farm Business Management Association

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This report summarizes the individual farm records of the members of the Southwest Minnesota Farm Business Management Association for 2023.

Whole-farm information and enterprise costs and returns are reported. The year-end analysis of the individual farms was performed by Association field staff using FINPACK software from the Center for Farm Financial Management. The individual analyses were then summarized by CFFM economists using RankEm Central. In addition to the average of all farms, the averages for the high and low-income groups are also presented. The tables are divided into four major groups: whole-farm information, crop enterprises, livestock enterprises, and summary information. The summary information includes whole farm historical trends and information by farm size, type of farm, debt to asset ratio, and operator age.

Of the 127 farms in the Southwest Association, the data for 116 farms are included in this report. The rest were omitted because the records were incomplete at the time this report was prepared. In addition to this report, members receive an annual farm business analysis; on-farm instructional visits; end-of-year income tax planning and preparation; periodic meetings, tours, and seminars; a monthly newsletter; and other managerial and educational assistance. Each farmer pays an annual fee which covers much of the cost, with the balance defrayed by University of Minnesota Extension along with grants<sup>2</sup> and research programs of the University of Minnesota.

The livestock enterprise summaries include data from both SWFBMA farms and Minnesota State Farm Business Management (FBM) program farms. This provides a greater number of instances for each enterprise with the goal of providing more accurate benchmark data. MN State FBM programs are distributed across the state and include over 2,400 participating farms. We thank the MN State FBM program and participating producers for making data available to be included in this report.

For those interested in diving deeper into the data from this report or farm finances in general, <u>FINBIN</u> (<u>www.finbin.umn.edu</u>) is a publicly available benchmarking database with a wealth of farm financial and production information. Numerous whole-farm and crop/livestock enterprise, and panel reports are available. The data has multiple integrity and quality checks before being aggregated in FINBIN.

<sup>&</sup>lt;sup>1</sup> Van Nurden, Beverly, Wilts-Johnson, and Nordquist are Extension Economists – Center for Farm Financial Management (CFFM), University of Minnesota, Twin Cities. Paulson is an Extension Educator, Agriculture Business Management and Lead Field Staff for SWFBMA; and Knorr and Sandager are Field Staff and financial analysts for SWFBMA.

<sup>&</sup>lt;sup>2</sup> This report was partially funded by a Farm Business Management and Benchmarking Grant from the USDA National Institute of Food and Agriculture (NIFA).

# Whole Farm Reports

The whole-farm reports summarize the financial performance of member farms in 2023. Each table includes the average of the 116 farms included in the report and the average 20% of the farms with the lowest and highest profits (based on Net Farm Income). Appendix I provides detail on how the whole-farm measures are calculated. Below is a short summary of the whole farm reports.

## Financial Summary

The Financial Summary report provides a summary of the key financial measures and ratios included in the other detailed whole farm reports. All profitability and repayment capacity measures are based on accrual adjusted net farm income.

## **Financial Standards Measures**

The Farm Financial Standards Council recommends farms use these twenty-one measures as standard measures of farm financial performance. Many are repeated from the Profitability, Liquidity, and Balance Sheet tables. For a complete description, see the Financial Guidelines for Agricultural Producers on the Farm Financial Standards Council website.<sup>3</sup>

#### Farm Income Statement

The Income Statement calculates the accrual Net Farm Income generated by the average farm for year 2023. Net Farm Income is reported based on accrual adjustments to the cash income and expenses reported for the year. Net Farm Income is the income earned before any compensation for owner labor and management. If owner compensation was included in farm expenses, it has been excluded here to make all farms uniform. Net Farm Income represents the return to the operator's labor, management, and equity capital (net worth). It is the amount the farm contributed to owner family living, income taxes, and net worth growth. However, it does not include any asset appreciation, debt forgiveness or asset repossessions.

There were many different government programs that provided payments to farm operations in 2023. The detailed income statement report includes several government payment income categories. The government payment income categories on the income statement included the following payments:

- Crop government payments Agriculture Risk Coverage (ARC); Price Loss Coverage (PLC).
- CRP payments Conservation Reserve Program (CRP).
- Livestock government payments Dairy Margin Coverage (DMC); Emergency Assistance for Livestock, Honeybees, & Farm-Raised Fish (ELAP); Livestock Forage Disaster (LFP); Livestock Indemnity (LIP); Pandemic Market Volatility Assistance (PMVAP); Emergency Livestock Relief (ELRP) Phase 2; Organic Dairy Marketing Assistance (ODMAP); and Milk Loss Program (MLP).
- Other government payments Inflation Reduction Act: Section 22006 & 22007; Emergency Relief Program (ERP) Phase 2; Pandemic Assistance Revenue Program (PARP); Coronavirus Food Asst. Program (CFAP) 2 for Underserved Producers; and Food Safety Certification for Specialty Crops Program (FSCSC).

<sup>3</sup> https://ffsc.org/

 Conservation government payments – Environmental Quality Incentives Program (EQIP) payments for annual production expenses; Conservation Stewardship Program (CSP); Soil Health & Income Protection Program (SHIPP); and Grassland Reserve Program (GRP).

# **Profitability Measures**

The profitability measures are calculated based on both the cost value of assets and the market value. When calculated based on the market value of assets, the profitability measures can be compared to interest rates and returns available on alternative investments. When based on cost values, the returns more closely estimate the actual returns from the actual investment. (Cost values do not reflect the tax basis of farm assets. Instead, a method of calculating depreciation is used that estimates economic depreciation over the useful life of the assets.)

The Rate of Return on Assets (ROA) can be thought of as the interest rate earned by all investment in farm assets. Rate of Return on Equity (ROE) is the rate earned on the operator's equity or net worth in the farm business. If ROE is higher than ROA, borrowed funds more than paid for their cost in interest expense. Operating Profit Margin measures efficiency in farm operations. The higher the margin, the more of the farm income remained in pockets of the farm operator. Asset Turnover Rate measures efficiency in capital use. Again, the higher the better. Farms with high investment in fixed assets will generally have a lower turnover rate than those who lease a major share of their capital.

# Liquidity and Repayment Capacity Measures

Liquidity reflects the ability of the farm to meet its financial obligations on time. *Current Ratio* is current farm assets divided by current farm liabilities. *Working Capital* is current farm assets minus current farm liabilities. Businesses with more working capital are generally in a better position to overcome short-term financial downturns or production problems. *Working Capital to Gross Revenue Ratio* measures liquidity relative to business size. *Working Capital to Operating Expense Ratio* measures operating capital available against the amount of the business operating expenses.

Repayment capacity measures the ability of the business to meet debt payments and replace capital assets. *Debt Coverage Ratio* measures the ability of the business to meet current interest expense and all schedule term debt payments. *Term Debt Coverage Ratio* measures the ability of the business to meet its scheduled debt payments. A debt coverage ratio and term debt coverage ratio greater than 1.0 indicates that the business produced more than enough earnings to meet its scheduled debt payments. *Replacement Coverage Ratio* adds the need for capital replacement. A replacement coverage ratio greater than 1.0 indicates that the business produced more than enough earnings to meet its payments and replace its depreciable assets.

#### **Balance Sheets**

Balance sheet reports are included for both the cost and market value of assets. Current assets are identical in both tables, with crop and livestock inventories generally valued at market value. This conforms to the methodology recommended by the Farm Financial Standards Council. On the cost table, intermediate and long-term assets are shown at depreciated value using estimated economic, rather than tax, depreciation. On the market table, assets are valued at estimated market value.

Liabilities are the same on the cost and market tables except for the inclusion of deferred liabilities on the market statements. Deferred liabilities are the estimated taxes that would be paid if assets were liquidated at their market values.

Net Worth Change on the cost value table is the amount of earned net worth growth or loss for the year. Net worth change on the market value table includes both earned growth and changes in the market valuation of capital assets.

# Statement of Owner's Equity

The Statement of Owner's Equity displays the total change in net worth for the year. Change in Retained Earnings includes net farm income and personal income less family living expenses, owner withdrawals, income taxes paid, and changes to other nonfarm asset accounts. Additionally this includes any cash discrepancy reported in the report. Change in Contributed Capital includes capital contributions and distributions, gifts and inheritances received or given, and debt forgiveness and asset repossessions. Change in Market Valuation includes the change in market value of capital assets and the change in deferred liabilities.

## Statement of Cash Flows

The Statement of Cash Flows displays the sources and uses of cash for the year. *Cash From Operating Activities* includes sources and uses of cash related to normal farm operations. *Cash From Investing Activities* reflects cash used to buy and sell capital assets. *Cash From Financing Activities* includes sources and uses of borrowed funds as well as cash from non-farm activities.

# **Crop Production and Marketing**

This table reports farm size in acres farmed, average crop yields for major commodities, and average crop sales prices for the calendar year. Yields and prices are reported for the average of all farms for more commodities than those included in the High and Low columns because a minimum of five farms are required to report the yield or price for any group.

# **Household and Personal Expenses**

This table reports family living and other non-farm expenditures. Only sole proprietors who keep detailed family living records are included.

# **Operator and Labor Information**

All previous tables report results per farm, regardless of the number of families or operators involved in the operation. This report repeats several measures from previous tables on a *Per Operator* basis. It also summarizes estimated labor hours used and labor performance.

# Non-farm Summary

This table summarizes non-farm earnings for the average farm and details non-farm assets and liabilities.

# **Projected Profitability**

Based on the past year's results and the authors' estimates of changes in next year's production, prices and costs, this page projects the financial performance of these farms in the coming year.

# Financial Summary Southwest Minnesota Farm Business Management Association (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	High 20%
Number of farms	116	23	24
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	1,269,180	2,749,845	1,718,033
	976,294	2,409,202	1,208,190
	292,886	340,643	509,843
	-194,542	-571,863	-116,490
	-79,695	-113,907	-119,596
	18,649	-345,127	273,756
	16,107	12,822	45,689
	34,756	-332,305	319,446
	52,653	-121,580	236,587
Profitability (cost) Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	-0.2 %	-8.2 %	5.2 %
	-2.4 %	-15.6 %	5.8 %
	-0.8 %	-33.1 %	16.8 %
	26.5 %	24.8 %	30.8 %
Profitability (market) Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	3.2 %	-2.1 %	6.9 %
	3.4 %	-5.6 %	10.1 %
	17.3 %	-12.1 %	31.8 %
	18.3 %	17.4 %	21.8 %
Liquidity & Repayment (end of year) Current assets Current liabilities Current ratio Working capital Change in working capital Working capital to gross revenue Working capital to oper expense Debt coverage ratio Term debt coverage ratio Replacement coverage ratio Term debt to EBITDA	1,008,792	1,600,439	1,580,688
	382,131	946,093	523,392
	2.64	1.69	3.02
	626,662	654,346	1,057,296
	-214,596	-612,118	-143,589
	55.8 %	28.0 %	64.8 %
	64.1 %	26.4 %	91.6 %
	0.65	-1.43	1.62
	0.60	-2.47	1.68
	0.45	-1.05	1.25
	4.49	-4.46	3.16
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 %	116	23	24
	3,784,759	4,923,932	5,896,355
	1,133,124	1,711,441	2,105,976
	2,651,634	3,212,491	3,790,380
	-9,291	-313,854	147,179
	33 %	38 %	39 %
	30 %	35 %	36 %
	0 %	-9 %	4 %
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 %	116	23	24
	5,583,816	7,057,650	8,506,146
	1,841,924	2,576,396	3,313,198
	3,741,892	4,481,255	5,192,948
	154,187	-39,239	423,533
	36 %	39 %	42 %
	33 %	37 %	39 %
	4 %	-1 %	9 %
Nonfarm Information Net nonfarm income Farms reporting living expenses Total family living expense Total living, invest, cap. purch	66,243	90,379	70,692
	39	6	9
	85,495	98,544	103,126
	202,819	184,683	306,742
Crop Acres Total crop acres Total crop acres owned Total crop acres cash rented Total crop acres share rented Machinery value per crop acre	855	1,072	1,468
	230	230	401
	575	834	1,032
	50	8	35
	944	918	858

# Financial Summary -- Trend Southwest Minnesota Farm Business Management Association (Farms Sorted By Years)

	·				
	<u>2019</u>		<u>2021</u>		<i>2023</i>
Number of farms	106	108	110	111	116
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	946,154	1,099,964	1,268,240	1,402,893	1,269,180
	783,687	931,696	964,451	1,103,396	976,294
	162,466	168,268	303,789	299,497	292,886
	52,089	221,729	230,258	140,788	-194,542
	-71,520	-76,433	-78,109	-86,655	-79,695
	143,035	313,564	455,938	353,631	18,649
	1,969	8,838	17,247	12,215	16,107
	145,004	322,402	473,185	365,846	34,756
	91,895	189,658	310,771	270,911	52,653
Profitability (cost) Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	4.8 %	10.1 %	13.8 %	9.3 %	-0.2 %
	4.9 %	13.6 %	18.9 %	12.0 %	-2.4 %
	15.7 %	28.4 %	35.3 %	26.2 %	-0.8 %
	30.7 %	35.7 %	39.2 %	35.7 %	26.5 %
Profitability (market) Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	4.2 %	6.2 %	11.8 %	8.0 %	3.2 %
	4.8 %	8.5 %	17.6 %	11.5 %	3.4 %
	19.7 %	24.9 %	42.7 %	32.2 %	17.3 %
	21.2 %	25.1 %	27.7 %	25.0 %	18.3 %
Liquidity & Repayment (end of year) Current assets Current liabilities Current ratio Working capital Change in working capital Working capital to gross revenue Working capital to oper expense Debt coverage ratio Term debt coverage ratio Replacement coverage ratio Term debt to EBITDA	808,635	1,023,693	1,188,111	1,298,031	1,008,792
	389,388	422,580	350,644	390,936	382,131
	2.08	2,42	3.39	3.32	2.64
	419,247	601,113	837,467	907,095	626,662
	78,098	190,371	275,797	103,030	-214,596
	42.3 %	46.3 %	57.8 %	59.7 %	55.8 %
	57.1 %	69.3 %	94.8 %	86.9 %	64.1 %
	2.02	3.77	5.72	3.79	0.65
	2.23	4.15	6.31	4.19	0.60
	1.42	2.58	3.68	2.58	0.45
	1.94	1.33	0.99	1.26	4.49
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 %	106 2,995,387 975,256 2,020,132 148,214 36 % 33 % 8 %	108 3,433,838 1,102,126 2,331,712 305,090 35 % 32 % 15 %	110 3,688,110 1,046,355 2,641,756 460,009 30 % 28 % 21 %	111 4,037,488 1,178,482 2,859,006 307,167 31 % 29 % 12 %	116 3,784,759 1,133,124 2,651,634 -9,291 33 % 30 % 0 %
Solvency (end of year at market) Number of farms Total assets Total liabilities Net worth Total net worth change Farm debt to asset ratio Total debt to asset ratio Change in total net worth %	106	108	110	111	116
	4,344,977	4,877,687	5,345,938	5,795,869	5,583,816
	1,488,321	1,703,515	1,756,842	1,961,018	1,841,924
	2,856,656	3,174,172	3,589,097	3,834,851	3,741,892
	206,481	293,984	603,044	363,383	154,187
	38 %	38 %	36 %	37 %	36 %
	34 %	35 %	33 %	34 %	33 %
	8 %	10 %	20 %	10 %	4 %
Nonfarm Information Net nonfarm income Farms reporting living expenses Total family living expense Total living, invest, cap. purch	47,034 39 66,585 99,802	51,952 35 62,504 100,287	66,037 35 68,562 148,162	53,971 29 69,517 163,829	66,243 39 85,495 202,819
Crop Acres Total crop acres Total crop acres owned Total crop acres cash rented Total crop acres share rented Machinery value per crop acre	940	906	883	863	855
	233	237	222	226	230
	659	629	625	595	575
	48	40	36	42	50
	734	748	806	895	944

#### Financial Standards Measures Southwest Minnesota Farm Business Management Association (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	
Number of farms	116	23	24
Liquidity			
Current ratio	2.64	1.69	3.02
Working capital to gross revenue	55.8 %	28.0 %	64.8 %
Working capital to oper expense	64.1 %	26.4 %	91.6 %
Solvency (market)			
Farm debt to asset ratio	36 %	39 %	42 %
Farm equity to asset ratio	64 %	61 %	58 %
Farm debt to equity ratio	0.57	0.64	0.72
Profitability (cost)			
Rate of return on farm assets	-0.2 %	-8.2 %	5.2 %
Rate of return on farm equity	-2.4 %	-15.6 %	5.8 %
Operating profit margin	-0.8 %	-33.1 %	16.8 %
Asset turnover rate	26.5 %	24.8 %	30.8 %
Repayment Capacity			
Debt coverage ratio	0.65	-1.43	1.62
Term debt coverage ratio	0.60	-2.47	1.68
Replacement coverage ratio	0.45	-1.05	1.25
Efficiency			
Operating expense ratio	87.1 %	106.3 %	70.7 %
Depreciation expense ratio	7.1 %	4.9 %	7.3 %
Interest expense ratio	4.1 %	3.6 %	5.1 %
Net farm income ratio	1.7 %	-14.8 %	16.8 %

## Financial Standards Measures -- Trend Southwest Minnesota Farm Business Management Association (Farms Sorted By Years)

	<u>2019</u>	<u> 2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
Number of farms	106	108	110	111	116
Liquidity					
Current ratio	2.08	2.42	3.39	3.32	2.64
Working capital to gross revenue	42.3 %	46.3 %	57.8 %	59.7 %	55.8 %
Working capital to oper expense	57.1 %	69.3 %	94.8 %	86.9 %	64.1 %
Solvency (market)					
Farm debt to asset ratio	38 %	38 %	36 %	37 %	36 %
Farm equity to asset ratio	62 %	62 %	64 %	63 %	64 %
Farm debt to equity ratio	0.61	0.62	0.56	0.59	0.57
Profitability (cost)					
Rate of return on farm assets	4.8 %	10.1 %	13.8 %	9.3 %	-0.2 %
Rate of return on farm equity	4.9 %	13.6 %	18.9 %	12.0 %	-2.4 %
Operating profit margin	15.7 %	28.4 %	35.3 %	26.2 %	-0.8 %
Asset turnover rate	30.7 %	35.7 %	39.2 %	35.7 %	26.5 %
Repayment Capacity					
Debt coverage ratio	2.02	3.77	5.72	3.79	0.65
Term debt coverage ratio	2.23	4.15	6.31	4.19	0.60
Replacement coverage ratio	1.42	2.58	3.68	2.58	0.45
Efficiency					
Operating expense ratio	74.0 %	66.8 %	61.0 %	68.7 %	87.1 %
Depreciation expense ratio	7.2 %	5.9 %	5.4 %	5.7 %	7.1 %
Interest expense ratio	4.4 %	3.1 %	2.2 %	2.4 %	4.1 %
Net farm income ratio	14.4 %	24.2 %	31.5 %	23.3 %	1.7 %

## Summary Farm Income Statement Southwest Minnesota Farm Business Management Association (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	<u> High 20%</u>
Number of farms	116	23	24
Crop sales	706,879	846,521	1,238,153
Crop inventory change	-118,555	-274,227	-101,590
Gross crop income	588,325	572,294	1,136,563
Livestock sales	403,858	1,657,899	248,690
Livestock inventory change	-33,358	-87,237	-72,801
Gross livestock income	370,500	1,570,662	175,889
Government payments Other cash farm income Change in accounts receivable Gain or loss on hedging accounts Change in other assets Gain or loss on breeding lvst Gross farm income	11,541	15,909	21,107
	146,901	229,516	210,082
	22,066	-6,627	69,007
	88	-8,726	10,360
	-10,436	-4,133	8,337
	-6,212	-34,735	-104
	1,122,773	2,334,159	1,631,242
Cash operating expenses Change in prepaids and supplies Change in growing crops Change in accounts payable Depreciation Total operating expense	933,978	2,326,625	1,132,291
	25,891	69,289	26,005
	-99	-90	-229
	18,462	85,183	-4,029
	79,695	113,907	119,596
	1,057,927	2,594,913	1,273,635
Interest paid Change in accrued interest Total interest expense Total expenses	42,316	82,578	75,898
	3,881	1,795	7,952
	46,196	84,373	83,850
	1,104,124	2,679,286	1,357,485
Net farm income from operations	18,649	-345,127	273,756
Gain or loss on capital sales	16,107	12,822	45,689
Net farm income	34,756	-332,305	319,446

## Summary Farm Income Statement -- Trend Southwest Minnesota Farm Business Management Association /Farms Sorted By Years

	<u>2019</u>	<u> 2020</u>	<u>2021</u>	<u> 2022</u>	<u>2023</u>
Number of farms	106	108	110	111	116
Crop sales	396,291	377,506	638,903	768,032	706,879
Crop inventory change	-3,243	189,247	170,699	79,071	-118,555
Gross crop income	393,049	566,754	809,602	847,103	588,325
Livestock sales	329,212	432,380	434,594	487,316	403,858
Livestock inventory change	13,554	26,536	17,986	23,787	-33,358
Gross livestock income	342,766	458,916	452,580	511,103	370,500
Market channel income	-	-	-	-	-
Government payments	70,944	178,798	66,229	17,480	11,541
Other cash farm income	149,706	111,281	128,513	130,065	146,901
Change in accounts receivable	13,026	-23,825	-10,262	8,270	22,066
Gain or loss on hedging accounts	7,720	-7,382	1,006	6,658	88
Change in other assets	13,506	10,170	1,521	4,783	-10,436
Gain or loss on breeding lyst	1,029	2,455	-446	-4,877	-6,212
Gross farm income	991,746	1,297,167	1,448,744	1,520,585	1,122,773
Cash operating expenses	740,838	888,553	932,424	1,072,408	933,978
Change in prepaids and supplies	-4,289	-16,123	-37,993	-32,233	25,891
Change in growing crops	491	4	-69	-186	-99
Change in accounts payable	-3,412	-5,631	-11,013	4,041	18,462
Depreciation	71,520	76,433	78,109	86,655	79,695
Total operating expense	805,148	943,235	961,458	1,130,685	1,057,927
Interest paid	42,849	43,143	32,027	30,988	42,316
Change in accrued interest	714	-2,775	-679	5,281	3,881
Total interest expense	43,563	40,368	31,348	36,269	46,196
Total expenses	848,711	983,603	992,805	1,166,954	1,104,124
Net farm income from operations	143,035	313,564	455,938	353,631	18,649
Gain or loss on capital sales	1,969	8,838	17,247	12,215	16,107
Net farm income	145,004	322,402	473,185	365,846	34,756

# Farm Income Statement Southwest Minnesota Farm Business Management Association (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	<u>Low 20%</u>	High 20%
Number of farms	116	23	24
Cash Farm Income			
Corn	409,402	499,622	669,308
Corn Silage	7,620	1,256	30,497
Hay, All types	2,425	92	4,813
Oats	558	734	1,166
Soybeans	280,270	337,599	524,781
Wheat, All types	1,199	4,962	475
Miscellaneous crop income	5,622	2,594	7,111
Beef, Sales from all related enterprises	117,865	330,677	215,829
Dairy, Sales from all related enterprises	115,437	533,360	7,761
Hogs, Sale from all related enterprises	167,164	793,862	25,011
Cull breeding livestock	10,949	47,006	-
Misc. livestock income	5,397	-	9,645
CRP payments	950	1,973	1,619
Livestock govt payments	1,420	6,151	-
Conservation govt payment	2,397	3,301	2,878
Other government payments	6,744	4,484	16,611
Custom work income	46,848	85,866	81,265
Patronage dividends, cash	16,784	18,207	23,419
Crop insurance income	23,888	41,716	38,593
Livestock insurance income	106	-	421
Contract livestock income	15,984	9,939	29,212
Renewable energy income	1,474	567	5,942
Farm rental income	10,315	7,526	1,317
Other farm income	18,362	18,351	20,359
Gross Cash Farm Income	1,269,180	2,749,845	1,718,033

# Farm Income Statement (continued) Southwest Minnesota Farm Business Management Association (Farms Sorted By Net Farm Income)

	Avg. Of <u>All Farms</u>	<u>Low 20%</u>	<u> </u>
Number of farms	116	23	24
Cash Farm Expense			
Seed and plants	73,166	102,891	112,231
Fertilizer <sup>'</sup>	101,837	104,002	190,036
Crop chemicals	45,690	62,149	62,544
Crop insurance	21,874	30,582	39,139
Drying expense	3,269	4,198	4,348
Storage	495	508	-
Irrigation energy	130	-	_
Cropmiscellaneous	3,333	792	1,161
Crop consultants	2,702	1,943	9,191
Feeder livestock purchase	107,891	454,793	71,019
Purchased feed	170,113	781,139	28,079
Breeding fees	2,928	7,541	6,144
Veterinary	6,501	25,161	1,472
Supplies	6,651	22,719	6,846
Contract production exp.	9,489	46,574	-
Livestock consultants	109	-	194
Interest	42,316	82,578	75,899
Fuel & oil	32,265	59,736	47,775
Repairs	59,390	109,508	78,840
Custom hire	20,432	32,605	25,893
Hired labor	39,990	135,169	41,108
Land rent	152,390	217,048	292,671
Machinery leases	15,068	28,059	35,663
Building leases	3,114	2,494	271
Real estate taxes	10,024	8,825	15,820
Farm insurance	14,899	26,444	18,922
Utilities	10,188	21,760	10,302
Hauling and trucking	2,580	10,870	448
Marketing	3,591	7,811	5,656
Dues & professional fees	6,051	11,565	9,281
Purchase of resale items	2,626	,	12,695
Miscellaneous	5,191	9,738	4,542
Total cash expense	976,294	2,409,202	1,208,190
Net cash farm income	292,886	340,643	509,843
Inventory Changes			
Prepaids and supplies	-25,891	-69,289	-26,005
Accounts receivable	22,066	-6,627	69,007
Hedging accounts	88	-8,726	10,360
Other current assets	105	90	229
Crops and feed	-118,555	-274,227	-101,590
Marketlivestock	-33,358	-87,237	-72,801
Breeding livestock	-6,212	-34,735	-104
Other assets	-10,442	-4,133	8,337
Accounts payable	-18,462	-85,183	4,029
Accrued interest	-3,881	-1,795	-7,952
Total inventory change	-194,542	-571,863	-116,490
Net operating profit	98,344	-231,220	393,352
Depreciation			
Machinery and equipment	-55,541	-69,654	-91,419
Titled vehicles	-4,589	-5,473	-7,224
Buildings and improvements	-19,566	-38,780	-20,953
Total depreciation	-79,695	-113,907	-119,596
Net farm income from operations	18.649	-345,127	273,756
Gain or loss on capital sales	16,107	12,822	45,689
Jain of 1033 off Capital Sales	10, 107	12,022	45,009
Net farm income	34,756	-332,305	319,446
Hattaminoonic	J <del>4</del> ,7 JU	-002,000	313,440

# Profitability Measures Southwest Minnesota Farm Business Management Association (Farms Sorted By Net Farm Income)

	Avg. Of		
	All Farms	Low 20%	High 20%
Number of farms	116	23	24
Profitability (assets valued at cost)			
Net farm income from operations	18,649	-345,127	273,756
Rate of return on assets	-0.2 %	-8.2 %	5.2 %
Rate of return on equity	-2.4 %	-15.6 %	5.8 %
Operating profit margin	-0.8 %	-33.1 %	16.8 %
Asset turnover rate	26.5 %	24.8 %	30.8 %
Farm interest expense	46,196	84,373	83,850
Value of operator lbr and mgmt.	71,542	102,363	102,694
Return on farm assets	-6,696	-363,117	254,913
Average farm assets	3,178,738	4,422,294	4,938,682
Return on farm equity	-52,893	-447,490	171,063
Average farm equity	2,166,568	2,871,903	2,961,659
Value of farm production	842,143	1,098,227	1,519,449
	Avg. Of		
	All Farms	<b>Low 20%</b>	High 20%
Number of farms	116	23	24
Profitability (assets valued at market)			
Net farm income from operations	171,007	-114,849	501,830
Rate of return on assets	3.2 %	-2.1 %	6.9 %
Rate of return on equity	3.4 %	-5.6 %	10.1 %
Operating profit margin	17.3 %	-12.1 %	31.8 %
Asset turnover rate	18.3 %	17.4 %	21.8 %
Farm interest expense	46,196	84,373	83,850
Value of operator lbr and mgmt.	71,542	102,363	102,694
Return on farm assets	145,662	-132,839	482,986
Average farm assets	4,614,331	6,296,566	6,980,103
Return on farm equity	99,465	-217,211	399,136
Average farm equity	2,942,554	3,863,239	3,970,592
Value of farm production	842,143	1,098,227	1,519,449

#### Liquidity & Repayment Capacity Measures Southwest Minnesota Farm Business Management Association (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	<u>Low 20%</u>	High 20%
Number of farms	116	23	24
Liquidity			
Current ratio	2.64	1.69	3.02
Working capital	626,662	654,346	1,057,296
Change in working capital	-214,596	-612,118	-143,589
Working capital to gross revenue	55.8 %	28.0 %	64.8 %
Working capital to oper expense	64.1 %	26.4 %	91.6 %
Current assets	1,008,792	1,600,439	1,580,688
Current liabilities	382,131	946,093	523,392
Gross revenues (accrual)	1,122,773	2,334,159	1,631,242
Total operating expenses	978,232	2,481,006	1,154,039
Repayment capacity			
Net farm income from operations	18,649	-345,127	273,756
Depreciation .	79,695	113,907	119,596
Personal income	66,243	90,379	70,692
Family living/owner withdrawals	-98,421	-160,939	-129,481
Cash discrepancy	-293	-355	-308
Income taxes	-39,702	-35,445	-68,272
Interest expense	47,713	84,723	86,168
Debt repayment capacity	73,885	-252,857	352,150
Debt payments	112,852	177,330	217,166
Repayment margin	-38,967	-430,187	134,985
Cash replacement allowance	-52,619	-62,834	-65,303
Replacement margin	-91,586	-493,021	69,682
Debt coverage ratio	0.65	-1.43	1.62
Term debt coverage ratio	0.60	-2.47	1.68
Replacement coverage ratio	0.45	-1.05	1.25

#### Balance Sheet at Market Values Southwest Minnesota Farm Business Management Association (Farms Sorted By Net Farm Income)

Assets   Current Farm Assets   Cash and checking balance   83,536   78,777   112,162   74,024   70,854   100,32   70,976   74,024   74,024   76,854   76,777   76,976   76,9	Avg. Of All Farms		Low 20%		<u> </u>		
Assets         Cash and checking balance         83,536         78,777         112,162         74,024         70,854         100,32           Crash and checking balance         157,642         131,751         217,978         148,689         262,980         236,976           Growing crops         278         377         0         90         1,041         1,266           Accounts receivable         39,859         61,925         60,400         53,802         70,970         139,977           Hedging accounts         12,170         11,140         32,141         33,479         20,155,766         1054,166           Crops held for sale or feed         12,170         618,756         1,094,315         82,008         1,155,766         1054,166           Office current assets         115         0         0         0         133         13           Total current farm assets         1,170,214         1,008,792         2,074,528         1,600,439         1,686,722         1,580,88           Intermediate Farm Assets         1,170,214         1,008,792         2,074,528         1,600,439         1,686,722         1,580,88           Intermediate Farm Assets         8,240         54,619         220,691         215,903         1,456         <	Number of farms	<del>-</del>		<u> </u>			
Assets         Cash and checking balance         83,536         78,777         112,162         74,024         70,854         100,32           Crash and checking balance         157,642         131,751         217,978         148,689         262,980         236,976           Growing crops         278         377         0         90         1,041         1,266           Accounts receivable         39,859         61,925         60,400         53,802         70,970         139,977           Hedging accounts         12,170         11,140         32,141         33,479         20,155,766         1054,166           Crops held for sale or feed         12,170         618,756         1,094,315         82,008         1,155,766         1054,166           Office current assets         115         0         0         0         133         13           Total current farm assets         1,170,214         1,008,792         2,074,528         1,600,439         1,686,722         1,580,88           Intermediate Farm Assets         1,170,214         1,008,792         2,074,528         1,600,439         1,686,722         1,580,88           Intermediate Farm Assets         8,240         54,619         220,691         215,903         1,456         <		Beginning	Endina	Beginning	Endina	Beginning	Ending
Cash and checking balance	Assets	<u>=-33</u>	<u>=</u>	<u>= -33</u>	<u>=3</u>	<u>=-33</u>	
Prepaid expenses & supplies   157,642   131,751   217,978   148,689   262,980   236,977   20   0   90   1.0141   1.286   Accounts receivable   39,859   61,925   60,430   53,802   70,970   139,97   149,971   141,003,000   141,000,000   141,000,000   141,000,000   145,000   1							
Growing crops					,		100,324
Accounts receivable   39,859   61,925   60,430   53,802   70,970   139,971   140,000   141,000					,	,	236,975
Hedging accounts				-			1,269
Crops held for sale or feed   737,310   618,755   1,094,315   820,088   1,155,766   1,054,166   Crops under government loan   0   0   0   0   0   0   0   0   0				,			,
Crops under government loan Market livestock held for sale 139,305         10,5947         557,502         470,265         104,838         32,035         Other current assets         115         121         0         0         133         136         148,88         133         148         1,333         148         1,333         148         1,333         148         1,333         144         1,241,253         1,366         1,485         5,7797         76,970         76,970         76,977         76,970         76,977         76,975         76,977         76,977         76,975         76,972         71,977         76,975         76,977         76,977         76,977         76,977         76,977         76,975         71,944         1,141,145         1,351         344         58,083							
Market livestöck held for sale         139,305         105,947         557,502         470,265         104,838         32,03           Other current assets         1,170,214         1,008,792         2,074,528         1,600,439         1,686,722         1,580,688           Intermediate Farm Assets         Breeding livestock         53,440         54,619         220,691         218,903         1,458         1,33           Machinery and equipment         745,501         823,392         969,483         1,035,788         1,143,551         1,239,90           Other intermediate sasets         87,277         79,659         7,898         13,987         38,448         56,062           Other intermediate farm assets         928,899         1,007,842         1,254,809         1,333,164         1,241,253         1,376,291           Long Term Farm Assets         1,338,269         2,037,712         1,714,863         2,085,455         3,276,621         3,515,28           Farmland         1,383,269         2,037,712         1,714,863         2,085,455         3,276,621         3,515,28           Buildings and improvements         54,674         583,550         1,183,444         1,167,566         536,381         633,317         55,442         84,099         9,4764         48,717 </td <td></td> <td>•</td> <td></td> <td></td> <td>·</td> <td>, ,</td> <td>, ,</td>		•			·	, ,	, ,
Other current assets         115         121         0         0         133         133           Total current farm assets         1,170,214         1,008,792         2,074,528         1,600,439         1,686,822         1,580,88           Intermediate Farm Assets         Breeding livestock         53,440         \$4,619         220,661         218,903         1,458         1,33           Machinery and equipment         745,501         823,392         969,483         1,035,788         1,143,551         1,239,00           Other intermediate assets         87,277         79,659         7,888         13,987         38,448         58,08           Ital intermediate farm assets         928,899         1,007,842         1,224,809         1,333,164         1,241,253         1,376,29           Long Term Farm Assets         7,777         79,659         7,888         13,987         38,488         58,08           Farmland         1,838,269         1,007,712         1,714,863         2,085,455         3,276,621         3,515,28           Buildings and improvements         546,674         583,500         1,183,444         1,167,566         563,831         643,31           Other long-term farm assets         1,248,210         2,676,704         2,982,406		_	-	-	•		22.027
Total current farm assets		•	,			,	
Intermediate Farm Assets   Breeding livestock   53,440   54,619   220,691   218,903   1,458   1,33   1,35				•			
Breeding livestock         53,440         54,619         220,691         218,903         1,458         1,333           Machinery and equipment         745,501         823,392         96,483         1,035,788         1,145,551         1,239,900           Titled vehicles         42,682         50,173         56,736         64,485         57,797         76,97           Orler intermediate sasets         87,277         79,659         7,898         13,3987         38,448         58,08           Total intermediate farm assets         928,899         1,007,842         1,254,809         1,33,164         1,241,253         1,376,291           Long Term Farm Assets         2         2,888         2,037,712         1,714,863         2,085,455         3,276,621         3,515,287           Buildings and improvements         546,674         583,550         1,183,444         1,167,566         536,381         643,311           Other long-term assets         5,1267         55,442         84,099         94,764         48,717         54,925           Total Farm Assets         834,968         890,478         746,829         76,262         1,254,237         1,335,634           Total Nonfarm Assets         834,968         890,478         746,829         76,262 </td <td>Total culterit familiassets</td> <td>1,170,214</td> <td>1,000,792</td> <td>2,074,320</td> <td>1,000,439</td> <td>1,000,722</td> <td>1,300,000</td>	Total culterit familiassets	1,170,214	1,000,792	2,074,320	1,000,439	1,000,722	1,300,000
Machinery and equipment         745,501         823,392         969,483         1,035,788         1,143,551         1,239,90           Titled vehicles         42,682         50,173         56,736         64,485         57,797         76,779           Other intermediate sasets         87,277         79,659         7,898         13,987         38,448         58,081           Total intermediate farm assets         928,899         1,007,842         1,254,099         1,333,164         1,241,253         1,376,291           Long Term Farm Assets         Farmland         1,838,269         2,037,712         1,714,863         2,085,455         3,276,621         3,515,281           Bulidings and improvements         546,674         583,550         1,183,444         1,167,566         536,381         643,311           Other long-term sasets         5,1267         55,442         2,4099         9,476         48,717         5492           Total long-term farm assets         2,436,210         2,676,704         2,982,406         3,347,785         3,861,719         4,213,52           Total ram Assets         834,968         890,478         746,829         776,262         1,254,237         1,335,631           Total Nonfarm Assets         5,370,290         5,583,816							
Titled vehicles 842,682 50,173 56,736 64,485 57,797 76,977 Other intermediate assets 87,277 79,659 7,898 13,987 38,448 58,087 Total intermediate farm assets 928,899 1,007,842 1,254,809 1,333,164 1,241,253 1,376,291   Long Term Farm Assets		•				1,458	1,333
Total intermediate assets		•	,	,	, ,		, ,
Total Intermediate farm assets   928,899   1,007,842   1,254,809   1,333,164   1,241,253   1,376,291							76,974
Long Term Farm Assets   Farmland						,	
Farmland         1,838,269         2,037,712         1,714,863         2,085,455         3,276,621         3,515,28*           Buildings and improvements Other long-term assets         546,674         583,550         1,183,444         1,167,566         536,381         643,314           Total long-term farm assets         2,436,210         2,676,704         2,982,406         3,347,785         3,861,719         4,213,52           Total Farm Assets         4,535,323         4,693,338         6,311,743         6,281,388         6,789,695         7,170,510           Total Nonfarm Assets         834,968         890,478         746,829         776,262         1,254,237         1,335,630           Total Assets         5,370,290         5,583,816         7,058,572         7,057,650         8,043,932         8,506,144           Liabilities           Current Farm Liabilities           Accounts payable         24,045         42,507         63,717         148,900         39,572         35,544           Current notes         231,049         252,831         631,258         670,584         301,609         331,19           Government crop loans         0         0         0         0         0         0         0	l otal intermediate farm assets	928,899	1,007,842	1,254,809	1,333,164	1,241,253	1,376,298
Buildings and improvements         546,674         583,550         1,183,444         1,167,566         536,381         643,31           Other long-term assets         51,267         55,442         84,099         34,764         48,717         54,92           Total long-term farm assets         2,436,210         2,676,704         2,982,406         3,347,785         3,861,719         4,213,522           Total Farm Assets         4,535,323         4,693,338         6,311,743         6,281,388         6,789,695         7,170,510           Total Nonfarm Assets         834,968         890,478         746,829         776,262         1,254,237         1,335,631           Total Assets         5,370,290         5,583,816         7,058,572         7,057,650         8,043,932         8,506,140           Liabilities           Current Farm Liabilities           Accrued interest         12,480         16,361         23,857         25,652         19,246         27,193           Accoude interest         12,480         16,361         23,857         25,652         19,246         27,193           Accoude interest         12,480         16,361         23,857         25,652         19,246         27,193           Accou	Long Term Farm Assets						
Other long-term assets         51/267         55,442         84,099         94,764         48,717         54,92           Total long-term farm assets         2,436,210         2,676,704         2,982,406         3,347,785         3,861,719         4,213,522           Total Farm Assets         4,535,323         4,693,338         6,311,743         6,281,388         6,789,695         7,170,511           Total Nonfarm Assets         834,968         890,478         746,829         776,262         1,254,237         1,335,631           Total Assets         5,370,290         5,583,816         7,058,572         7,057,650         8,043,932         8,506,144           Liabilities         Current Farm Liabilities           Accrued interest         12,480         16,361         23,857         25,652         19,246         27,194           Accounts payable         24,045         42,507         63,717         148,900         39,572         35,542           Current notes         231,049         252,831         631,258         670,584         301,609         331,19           Government crop loans         0         0         0         0         0         0         0         0         0         0         0         0	Farmland	1,838,269	2,037,712	1,714,863	2,085,455		3,515,287
Total long-term farm assets         2,436,210         2,676,704         2,982,406         3,347,785         3,861,719         4,213,522           Total Farm Assets         4,535,323         4,693,338         6,311,743         6,281,388         6,789,695         7,170,516           Total Nonfarm Assets         834,968         890,478         746,829         776,262         1,254,237         1,335,631           Total Assets         5,370,290         5,583,816         7,058,572         7,057,650         8,043,932         8,506,146           Liabilities         Current Farm Liabilities           Current Farm Liabilities           Accrued interest         12,480         16,361         23,857         25,652         19,246         27,196           Accounts payable         24,045         42,507         63,717         148,900         39,572         35,544           Government crop loans         0 <td< td=""><td>Buildings and improvements</td><td>546,674</td><td>583,550</td><td>1,183,444</td><td>1,167,566</td><td>536,381</td><td>643,316</td></td<>	Buildings and improvements	546,674	583,550	1,183,444	1,167,566	536,381	643,316
Total Farm Assets 4,535,323 4,693,338 6,311,743 6,281,388 6,789,695 7,170,516  Total Nonfarm Assets 834,968 890,478 746,829 776,262 1,254,237 1,335,634  Total Assets 5,370,290 5,583,816 7,058,572 7,057,650 8,043,932 8,506,144  Liabilities  Current Farm Liabilities  Accrued interest 12,480 16,361 23,857 25,652 19,246 27,198  Accounts payable 24,045 42,507 63,717 148,900 39,572 35,544  Current notes 231,049 252,831 631,258 670,584 301,609 331,199  Government crop loans 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				84,099	94,764		54,921
Total Nonfarm Assets 834,968 890,478 746,829 776,262 1,254,237 1,335,631 70tal Assets 5,370,290 5,583,816 7,058,572 7,057,650 8,043,932 8,506,144    Liabilities  Current Farm Liabilities  Accrued interest 12,480 16,361 23,857 25,652 19,246 27,194   Accounts payable 24,045 42,507 63,717 148,900 39,572 35,543   Current notes 231,049 252,831 631,258 670,584 301,609 331,199   Government crop loans 0 0 0 0 0 0 0 0 0 0 0   Principal due on term debt 61,382 70,432 89,232 100,957 125,410 129,464   Total current farm liabilities 328,957 382,131 808,063 946,093 485,837 523,393    Total intermediate farm liabs 128,249 136,985 150,965 169,096 298,872 293,644   Total long term farmliabilities 978,268 1,046,073 1,462,851 1,637,931 1,994,172 1,959,874    Total nonfarm liabilities 88,493 87,051 99,018 73,510 133,636 146,10   Total liabs excluding deferreds 1,066,761 1,133,124 1,561,869 1,711,441 2,127,807 2,105,974   Total liabilities 1,782,585 1,841,924 2,538,078 2,576,396 3,274,516 3,313,194    Retained earnings 2,660,925 2,651,634 3,526,346 3,212,491 3,643,200 3,790,384   Market valuation equity 926,780 1,090,258 994,148 1,268,763 1,126,215 1,402,564   Net worth (farm and nonfarm) 3,587,705 3,741,892 4,520,494 4,481,255 4,769,415 5,192,944   Net worth excluding deferreds 4,303,529 4,450,692 5,496,703 5,346,210 5,916,124 6,400,177 1,959,874    Liabilities 1,335,636 1,346,210 5,946,210 5,946,200 5,946,200 5,946,703 5,346,210 5,916,124 6,400,177 1,441 6,400,177 1,401 6,400,177			, , -				4,213,524
Liabilities         5,370,290         5,583,816         7,058,572         7,057,650         8,043,932         8,506,144           Liabilities         Current Farm Liabilities           Accrued interest         12,480         16,361         23,857         25,652         19,246         27,194           Accounts payable         24,045         42,507         63,717         148,900         39,572         35,543           Current notes         231,049         252,831         631,258         670,584         301,609         331,19           Government crop loans         0	Total Farm Assets	4,535,323	4,693,338	6,311,743	6,281,388	6,789,695	7,170,510
Liabilities           CurrentFarmLiabilities         12,480         16,361         23,857         25,652         19,246         27,196           Accounts payable         24,045         42,507         63,717         148,900         39,572         35,543           Current notes         231,049         252,831         631,258         670,584         301,609         331,199           Government crop loans         0							1,335,636 8 506 146
Current Farm Liabilities		3,370,290	3,303,010	7,000,072	7,007,000	0,040,902	0,500,140
Accrued interest         12,480         16,361         23,857         25,652         19,246         27,196           Accounts payable         24,045         42,507         63,717         148,900         39,572         35,543           Current notes         231,049         252,831         631,258         670,584         301,609         331,193           Government crop loans         0<							
Accounts payable         24,045         42,507         63,717         148,900         39,572         35,542           Current notes         231,049         252,831         631,258         670,584         301,609         331,19           Government crop loans         0         0         0         0         0         0         0         0           Principal due on term debt         61,382         70,432         89,232         100,957         125,410         129,466           Total current farm liabilities         328,957         382,131         808,063         946,093         485,837         523,393           Total intermediate farm liabilities         128,249         136,985         150,965         169,096         298,872         293,64           Total long term farm liabilities         521,062         526,958         503,823         522,742         1,209,463         1,142,847           Total farm liabilities         978,268         1,046,073         1,462,851         1,637,931         1,994,172         1,959,873           Total nonfarm liabilities         88,493         87,051         99,018         73,510         133,636         146,107           Total labs excluding deferreds         1,066,761         1,133,124         1,561,869		12.480	16 361	22 957	25 652	10.246	27 109
Current notes         231,049         252,831         631,258         670,584         301,609         331,19           Government crop loans         0 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
Government crop loans         0         1         0         1         1         1         2         9         4         4         1         29,461         1         1         29,463         1         1         29,364         1		•					
Principal due on term debt         61,382         70,432         89,232         100,957         125,410         129,460           Total current farm liabilities         328,957         382,131         808,063         946,093         485,837         523,392           Total intermediate farm liabilities         128,249         136,985         150,965         169,096         298,872         293,644           Total long term farm liabilities         521,062         526,958         503,823         522,742         1,209,463         1,142,842           Total farm liabilities         978,268         1,046,073         1,462,851         1,637,931         1,994,172         1,959,873           Total nonfarm liabilities         88,493         87,051         99,018         73,510         133,636         146,102           Total liabs excluding deferreds         1,066,761         1,133,124         1,561,869         1,711,441         2,127,807         2,105,976           Total deferred liabilities         715,824         708,800         976,209         864,955         1,146,709         1,207,222           Total liabilities         1,782,585         1,841,924         2,538,078         2,576,396         3,274,516         3,313,196           Retained earnings         2,660,925 <td< td=""><td></td><td></td><td>,</td><td>,</td><td></td><td>,</td><td>001,101</td></td<>			,	,		,	001,101
Total current farm liabilities         328,957         382,131         808,063         946,093         485,837         523,393           Total intermediate farm liabs         128,249         136,985         150,965         169,096         298,872         293,644           Total long term farm liabilities         521,062         526,958         503,823         522,742         1,209,463         1,142,843           Total farm liabilities         978,268         1,046,073         1,462,851         1,637,931         1,994,172         1,959,873           Total nonfarm liabilities         88,493         87,051         99,018         73,510         133,636         146,103           Total liabs excluding deferreds         1,066,761         1,133,124         1,561,869         1,711,441         2,127,807         2,105,976           Total deferred liabilities         715,824         708,800         976,209         864,955         1,146,709         1,207,222           Total liabilities         1,782,585         1,841,924         2,538,078         2,576,396         3,274,516         3,313,196           Retained earnings         2,660,925         2,651,634         3,526,346         3,212,491         3,643,200         3,790,386           Market valuation equity         926,780					-		129,460
Total long term farm liabilities         521,062         526,958         503,823         522,742         1,209,463         1,142,842           Total farm liabilities         978,268         1,046,073         1,462,851         1,637,931         1,994,172         1,959,873           Total nonfarm liabilities         88,493         87,051         99,018         73,510         133,636         146,107           Total liabs excluding deferreds         1,066,761         1,133,124         1,561,869         1,711,441         2,127,807         2,105,976           Total deferred liabilities         715,824         708,800         976,209         864,955         1,146,709         1,207,225           Total liabilities         1,782,585         1,841,924         2,538,078         2,576,396         3,274,516         3,313,196           Retained earnings         2,660,925         2,651,634         3,526,346         3,212,491         3,643,200         3,790,386           Market valuation equity         926,780         1,090,258         994,148         1,268,763         1,126,215         1,402,566           Net worth (farm and nonfarm)         3,587,705         3,741,892         4,520,494         4,481,255         4,769,415         5,192,944           Net worth excluding deferreds         4,							523,392
Total long term farm liabilities         521,062         526,958         503,823         522,742         1,209,463         1,142,842           Total farm liabilities         978,268         1,046,073         1,462,851         1,637,931         1,994,172         1,959,873           Total nonfarm liabilities         88,493         87,051         99,018         73,510         133,636         146,107           Total liabs excluding deferreds         1,066,761         1,133,124         1,561,869         1,711,441         2,127,807         2,105,976           Total deferred liabilities         715,824         708,800         976,209         864,955         1,146,709         1,207,225           Total liabilities         1,782,585         1,841,924         2,538,078         2,576,396         3,274,516         3,313,196           Retained earnings         2,660,925         2,651,634         3,526,346         3,212,491         3,643,200         3,790,386           Market valuation equity         926,780         1,090,258         994,148         1,268,763         1,126,215         1,402,566           Net worth (farm and nonfarm)         3,587,705         3,741,892         4,520,494         4,481,255         4,769,415         5,192,944           Net worth excluding deferreds         4,	Total intermediate farm lighs	128 2/0	136 085	150 965	160 006	208 872	203 640
Total farm liabilities         978,268         1,046,073         1,462,851         1,637,931         1,994,172         1,959,878           Total nonfarm liabilities         88,493         87,051         99,018         73,510         133,636         146,107           Total liabs excluding deferreds         1,066,761         1,133,124         1,561,869         1,711,441         2,127,807         2,105,976           Total deferred liabilities         715,824         708,800         976,209         864,955         1,146,709         1,207,225           Total liabilities         1,782,585         1,841,924         2,538,078         2,576,396         3,274,516         3,313,196           Retained earnings         2,660,925         2,651,634         3,526,346         3,212,491         3,643,200         3,790,386           Market valuation equity         926,780         1,090,258         994,148         1,268,763         1,126,215         1,402,566           Net worth (farm and nonfarm)         3,587,705         3,741,892         4,520,494         4,481,255         4,769,415         5,192,944           Net worth excluding deferreds         4,303,529         4,450,692         5,496,703         5,346,210         5,916,124         6,400,17		-, -	,	,	,	,	,
Total liabs excluding deferreds         1,066,761         1,133,124         1,561,869         1,711,441         2,127,807         2,105,976           Total deferred liabilities         715,824         708,800         976,209         864,955         1,146,709         1,207,222           Total liabilities         1,782,585         1,841,924         2,538,078         2,576,396         3,274,516         3,313,198           Retained earnings         2,660,925         2,651,634         3,526,346         3,212,491         3,643,200         3,790,380           Market valuation equity         926,780         1,090,258         994,148         1,268,763         1,126,215         1,402,569           Net worth (farm and nonfarm)         3,587,705         3,741,892         4,520,494         4,481,255         4,769,415         5,192,948           Net worth excluding deferreds         4,303,529         4,450,692         5,496,703         5,346,210         5,916,124         6,400,17							1,959,875
Total liabs excluding deferreds         1,066,761         1,133,124         1,561,869         1,711,441         2,127,807         2,105,976           Total deferred liabilities         715,824         708,800         976,209         864,955         1,146,709         1,207,222           Total liabilities         1,782,585         1,841,924         2,538,078         2,576,396         3,274,516         3,313,198           Retained earnings         2,660,925         2,651,634         3,526,346         3,212,491         3,643,200         3,790,380           Market valuation equity         926,780         1,090,258         994,148         1,268,763         1,126,215         1,402,569           Net worth (farm and nonfarm)         3,587,705         3,741,892         4,520,494         4,481,255         4,769,415         5,192,948           Net worth excluding deferreds         4,303,529         4,450,692         5,496,703         5,346,210         5,916,124         6,400,17	T-4-1	00.400	07.054	00.040	70.540	400.000	440.404
Total deferred liabilities         715,824         708,800         976,209         864,955         1,146,709         1,207,223           Total liabilities         1,782,585         1,841,924         2,538,078         2,576,396         3,274,516         3,313,198           Retained earnings         2,660,925         2,651,634         3,526,346         3,212,491         3,643,200         3,790,388           Market valuation equity         926,780         1,090,258         994,148         1,268,763         1,126,215         1,402,569           Net worth (farm and nonfarm)         3,587,705         3,741,892         4,520,494         4,481,255         4,769,415         5,192,948           Net worth excluding deferreds         4,303,529         4,450,692         5,496,703         5,346,210         5,916,124         6,400,17							
Total liabilities         1,782,585         1,841,924         2,538,078         2,576,396         3,274,516         3,313,198           Retained earnings         2,660,925         2,651,634         3,526,346         3,212,491         3,643,200         3,790,380           Market valuation equity         926,780         1,090,258         994,148         1,268,763         1,126,215         1,402,569           Net worth (farm and nonfarm)         3,587,705         3,741,892         4,520,494         4,481,255         4,769,415         5,192,948           Net worth excluding deferreds         4,303,529         4,450,692         5,496,703         5,346,210         5,916,124         6,400,17							
Retained earnings         2,660,925         2,651,634         3,526,346         3,212,491         3,643,200         3,790,380           Market valuation equity         926,780         1,090,258         994,148         1,268,763         1,126,215         1,402,569           Net worth (farm and nonfarm)         3,587,705         3,741,892         4,520,494         4,481,255         4,769,415         5,192,948           Net worth excluding deferreds         4,303,529         4,450,692         5,496,703         5,346,210         5,916,124         6,400,17							3,313,198
Market valuation equity       926,780       1,090,258       994,148       1,268,763       1,126,215       1,402,569         Net worth (farm and nonfarm)       3,587,705       3,741,892       4,520,494       4,481,255       4,769,415       5,192,948         Net worth excluding deferreds       4,303,529       4,450,692       5,496,703       5,346,210       5,916,124       6,400,17	5	0.000.005	0.054.004	0.500.040			
Net worth (farm and nonfarm)       3,587,705       3,741,892       4,520,494       4,481,255       4,769,415       5,192,948         Net worth excluding deferreds       4,303,529       4,450,692       5,496,703       5,346,210       5,916,124       6,400,17							
Net worth excluding deferreds 4,303,529 4,450,692 5,496,703 5,346,210 5,916,124 6,400,17							
			· · ·				
		4,303,329		5,490,703		5,910,124	
							9 %
Potio Analysis	Potio Analysis						
Ratio Analysis Current farm liabilities / assets 28 % 38 % 39 % 59 % 29 % 33 %		28 %	38 %	39 %	59 %	29 %	33 %
							21 %
		21 %					27 %
							39 %
	Debt to assets excl deferreds					26 %	25 %

## Balance Sheet at Market Values -- Trend Southwest Minnesota Farm Business Management Association (Farms Sorted By Years)

		•			
	2019	2020	2021	2022	2023
Number of farms	106	108	110	111	116
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	82,468	90,065	99,897	82,888	78,777
	95,729	111,078	147,245	175,930	131,751
	22	49	105	290	377
	68,995	43,023	33,877	45,421	61,925
	12,311	11,261	9,425	12,881	11,140
	430,047	593,902	737,323	798,599	618,755
	-	-	-	-	-
	119,008	174,275	160,166	181,993	105,947
	54	40	73	29	121
	808,635	1,023,693	1,188,111	1,298,031	1,008,792
Intermediate Farm Assets Breeding livestock Machinery and equipment Titled vehicles Other intermediate assets Total intermediate farm assets	52,551	53,120	54,451	54,190	54,619
	670,032	688,993	748,264	812,797	823,392
	34,659	37,188	41,656	46,159	50,173
	84,395	84,276	86,041	95,108	79,659
	841,638	863,578	930,413	1,008,254	1,007,842
Long Term Farm Assets Farm land Buildings and improvements Other long-term assets Total long-term farm assets Total Farm Assets	1,474,365	1,586,316	1,708,272	1,947,165	2,037,712
	553,538	596,671	584,876	617,691	583,550
	52,630	61,087	57,600	55,884	55,442
	2,080,533	2,244,074	2,350,748	2,620,740	2,676,704
	3,730,805	4,131,345	4,469,272	4,927,024	4,693,338
Total Nonfarm Assets	614,172	746,342	876,666	868,844	890,478
Total Assets	4,344,977	4,877,687	5,345,938	5,795,869	5,583,816
Liabilities Current Farm Liabilities Accrued interest Accounts payable Current notes Government crop loans Principal due on term debt Total current farm liabilities	14,598	10,360	9,009	13,973	16,361
	33,814	34,004	22,921	26,244	42,507
	287,057	309,196	255,467	281,127	252,831
	-	-	-	-	-
	53,918	69,020	63,247	69,592	70,432
	389,388	422,580	350,644	390,936	382,131
Total intermediate farm liabs	107,202	130,557	133,349	145,634	136,985
Total long term farm liabilities	423,401	474,922	472,381	551,610	526,958
Total farm liabilities	919,991	1,028,058	956,373	1,088,180	1,046,073
Total nonfarm liabilities	55,265	74,068	89,981	90,303	87,051
Total liabs excluding deferreds	975,256	1,102,126	1,046,355	1,178,482	1,133,124
Total deferred liabilities	513,065	601,389	710,487	782,535	708,800
Total liabilities	1,488,321	1,703,515	1,756,842	1,961,018	1,841,924
Retained earnings Market valuation equity Net worth (farm and nonfarm) Net worth excluding deferreds Net worth change Percent net worth change	2,020,132	2,331,712	2,641,756	2,859,006	2,651,634
	836,524	842,460	947,341	975,845	1,090,258
	2,856,656	3,174,172	3,589,097	3,834,851	3,741,892
	3,369,721	3,775,561	4,299,584	4,617,386	4,450,692
	206,481	293,984	603,044	363,383	154,187
	8 %	10 %	20 %	10 %	4 %
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	48 %	41 %	30 %	30 %	38 %
	13 %	15 %	14 %	14 %	14 %
	20 %	21 %	20 %	21 %	20 %
	34 %	35 %	33 %	34 %	33 %
	22 %	23 %	20 %	20 %	20 %

#### Balance Sheet at Cost Values Southwest Minnesota Farm Business Management Association (Farms Sorted By Net Farm Income)

	Avg. AII Fa		Low	20%	High	20%
Number of farms		116		23		24
	Beginning	Ending	Beginning	Ending	Beginning	Ending
Assets						
Current Farm Assets						
Cash and checking balance	83,536	78,777	112,162	74,024	70,854	100,324
Prepaid expenses & supplies	157,642	131,751	217,978	148,689	262,980	236,975
Growing crops	278	377	0	90	1,041	1,269
Accounts receivable	39,859	61,925	60,430	53,802	70,970	139,978
Hedging accounts	12,170	11,140	32,141	33,479	20,150	15,806
Crops held for sale or feed	737,310	618,755	1,094,315	820,088	1,155,756	1,054,166
Crops under government loan	0	0	0	0	0	0
Market livestock held for sale	139,305	105,947	557,502	470,265	104,838	32,037
Other current assets	115	121	0	0	133	133
Total current farm assets	1,170,214	1,008,792	2,074,528	1,600,439	1,686,722	1,580,688
Intermediate Farm Assets		4	400.000	40- 4		
Breeding livestock	47,505	47,661	199,914	195,157	1,271	1,167
Machinery and equipment	473,002	527,234	609,997	633,300	727,829	802,509
Titled vehicles	23,771	27,406	29,265	33,032	31,934	42,016
Other intermediate assets	82,189	70,144	7,209	13,434	31,801	45,335
Total intermediate farm assets	626,467	672,445	846,385	874,923	792,835	891,027
Long Term Farm Assets	076 404	4.070.204	750 400	4 040 070	2.022.040	2.045.402
Farmland	976,194	1,079,381	758,100	1,048,970	2,023,048	2,045,403
Buildings and improvements	356,224	385,117	766,709 45,797	762,668	333,213	421,315
Other long-term assets Total long-term farm assets	38,335 1,370,753	44,307 1,508,806	45,797 1,570,605	66,069 1,877,708	46,912 2,403,173	56,202 2,522,920
Total Farm Assets	3,167,434	3,190,043	4,491,518	4,353,070	4,882,730	4,994,635
Total Nonfarm Assets	560,253	594,716	596,697	570,862	888,278	901,721
Total Assets	3,727,687	3,784,759	5,088,215	4,923,932	5,771,007	5,896,355
Liabilities						
Current Farm Liabilities						
Accrued interest	12,480	16,361	23,857	25,652	19,246	27,198
Accounts payable	24,045	42,507	63,717	148,900	39,572	35,543
Current notes	231,049	252,831	631,258	670,584	301,609	331,191
Government crop loans	0	0	0	0	0	0
Principal due on term debt	61,382	70,432	89,232	100,957	125,410	129,460
Total current farm liabilities	328,957	382,131	808,063	946,093	485,837	523,392
Total intermediate farm liabs	128,249	136,985	150,965	169,096	298,872	293,640
Total long term farm liabilities	521,062	526,958	503,823	522,742	1,209,463	1,142,842
Total farm liabilities	978,268	1,046,073	1,462,851	1,637,931	1,994,172	1,959,875
Total nonfarm liabilities	88,493	87,051	99,018	73,510	133,636	146,101
Totalliabilities	1,066,761	1,133,124	1,561,869	1,711,441	2,127,807	2,105,976
Net worth (farm and nonfarm)	2,660,925	2,651,634	3,526,346	3,212,491	3,643,200	3,790,380
Net worth change Percent net worth change		-9,291 0 %		-313,854 -9 %		147,179 4 %
-		<b>J</b> 70		J 70		7 70
Ratio Analysis Current farm liabilities / assets	28 %	38 %	39 %	59 %	29 %	33 %
Intermediate farm liab. / assets	20 %	20 %	18 %	19 %	38 %	33 %
Long term farm liab. / assets	38 %	35 %	32 %	28 %	50 %	45 %
Total debt to asset ratio	29 %	30 %	31 %	35 %	37 %	36 %

2023 Annual Report

### Balance Sheet at Cost Values -- Trend Southwest Minnesota Farm Business Management Association (Farms Sorted By Years)

	<i>2019</i>	<i>2020</i>	<i>2021</i>	<i>2022</i>	<i>2023</i>
Number of farms	106	108	110	111	116
Assets					
Current Farm Assets					
Cash and checking balance	82,468	90,065	99,897	82,888	78,777
Prepaid expenses & supplies	95,729	111,078	147,245	175,930	131,751
Growing crops	22	49	105	290	377
Accounts receivable	68,995	43,023	33,877	45,421	61,925
Hedging accounts	12,311	11,261	9,425	12,881	11,140
Crops held for sale or feed	430,047	593,902	737,323	798,599	618,755
Crops under government loan	· -	· -	· <u>-</u>	-	-
Market livestock held for sale	119,008	174,275	160,166	181,993	105,947
Other current assets	54	40	73	29	121
Total current farm assets	808,635	1,023,693	1,188,111	1,298,031	1,008,792
Total carrent farm assets	000,000	1,020,070	1,100,111	1,270,001	1,000,172
Intermediate Farm Assets					
Breeding livestock	43,989	46,745	47,723	47,961	47,661
Machinery and equipment	443,605	440,609	479,643	516,626	527,234
Titled vehicles	19,861	20,139	24,043	25,692	27,406
Other intermediate assets	77,459	82,511	83,576	89,602	70,144
Total intermediate farm assets	584,913	590,003	634,986	679,881	672,445
Long Term Farm Assets	7// 75/	004447	000.007	4 005 074	4 070 004
Farm land	766,754	884,117	880,337	1,035,274	1,079,381
Buildings and improvements	369,300	387,010	385,918	400,956	385,117
Other long-term assets	47,480	56,450	47,031	42,369	44,307
Total long-term farm assets	1,183,534	1,327,578	1,313,286	1,478,599	1,508,806
Total Farm Assets	2,577,082	2,941,274	3,136,383	3,456,511	3,190,043
Total Nonfarm Assets	418,306	492,564	551,727	580,977	594,716
Total Assets	2,995,387	3,433,838	3,688,110	4,037,488	3,784,759
Liabilities					
Current Farm Liabilities					
Accrued interest	14,598	10,360	9,009	13,973	16,361
	33,814		22,921		
Accounts payable		34,004		26,244	42,507
Current notes	287,057	309,196	255,467	281,127	252,831
Government crop loans	- F2.010	-	-	-	70 422
Principal due on term debt	53,918	69,020	63,247	69,592	70,432
Total current farm liabilities	389,388	422,580	350,644	390,936	382,131
Total intermediate farm liabs	107,202	130,557	133,349	145,634	136,985
Total long term farm liabilities	423,401	474,922	472,381	551,610	526,958
Total farm liabilities	919,991	1,028,058	956,373	1,088,180	1,046,073
Total farm habilities	, , , , , , , ,	1,020,000	700/070	1,000,100	170 1070 70
Total nonfarm liabilities	55,265	74,068	89,981	90,303	87,051
Total liabilities	975,256	1,102,126	1,046,355	1,178,482	1,133,124
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Net worth (farm and nonfarm)	2,020,132	2,331,712	2,641,756	2,859,006	2,651,634
Net worth change	148,214	305,090	460,009	307,167	-9,291
Percent net worth change	8 %	15 %	21 %	12 %	0 %
Ratio Analysis					
Current farm liabilities / assets	48 %	41 %	30 %	30 %	38 %
Intermediate farm liab. / assets	18 %	22 %	21 %	21 %	20 %
Long term farm liab. / assets	36 %	36 %	36 %	37 %	35 %
Total debt to asset ratio	33 %	32 %	28 %	29 %	30 %
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# Statement Of Owner's Equity Southwest Minnesota Farm Business Management Association (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	High 20%
Number of farms	116	23	24
Beginning net worth	3,587,705	4,520,494	4,769,415
Net farm income Personal income Family living/owner withdrawals Discrepancy Dividends paid Income taxes (accrued) Change in personal assets Change in nonfarm accounts payable Total change in retained earnings	34,756 66,243 -98,421 -257 - -39,702 -2,901 242 -40,075	-332,305 90,379 -160,939 -354 - -35,445 -4,795 1,267 -442,193	319,446 70,692 -129,481 -120 - -68,272 -48,035 -138 143,903
Captial contributions Gifts and inheritances received Debts forgiven Gifts given Capital distributions Total change in contributed capital	4,194 36,077 45 -8,572 -996 30,749	7,317 126,718 228 -904 -5,022 128,338	4,625 - -1,537 - 3,088
Chg in mkt value of capital assets Change in deferred liabilities (-) Total change in market valuation	156,454 7,024 163,478	163,361 111,254 274,615	336,867 -60,513 276,354
Total change in net worth  Ending net worth	154,152 3,741,892	-39,240 4,481,255	423,345 5,192,948

# Statement of Owner's Equity -- Trend Southwest Minnesota Farm Business Management Association (Farms Sorted By Years)

	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
Number of farms	106	108	110	111	116
Beginning net worth	2,650,175	2,880,188	2,986,052	3,471,468	3,587,705
Net farm income	145,004	322,402	473,185	365,846	34,756
Personal income	47,034	51,952	66,037	53,971	66,243
Family living/owner withdrawals	-74,887	-74,690	-84,384	-95,742	-98,421
Discrepancy	-160	18	9	131	-257
Dividends paid	-19	-	-	-	-
Income taxes (accrued)	-20,948	-25,099	-32,317	-46,980	-39,702
Change in personal assets	18,043	13,624	11,167	9,959	-2,901
Change in nonfarm accounts payable	-224	860	-346	-97	242
Total change in retained earnings	113,842	289,068	433,358	287,092	-40,075
Captial contributions	9,075	3,433	6,084	12,209	4,194
Gifts and inheritances received	29,273	17,123	26,114	13,563	36,077
Debts forgiven	-	-	-	765	45
Gifts given	-3,537	-1,516	-3,033	-4,559	-8,572
Capital distributions	-440	-3,019	-2,508	-1,897	-996
Total change in contributed capital	34,371	16,022	26,657	20,079	30,749
Chg in mkt value of capital assets	80,455	78,156	282,275	132,065	156,454
Change in deferred liabilities (-)	-22,188	-89,262	-139,239	-75,849	7,024
Total change in market valuation	58,267	-11,106	143,036	56,216	163,478
Total change in net worth	206,480	293,983	603,051	363,388	154,152
Ending net worth	2,856,656	3,174,172	3,589,097	3,834,851	3,741,892

## Statement Of Cash Flows Southwest Minnesota Farm Business Management Association (Farms Sorted By Net Farm Income)

Number of farms         116         23         24           Beginning cash (farm & nonfarm)         104,098         123,392         78,104           Cash Provided By Operating Activities Gross cash farm income         1,269,180         2,749,845         1,718,033           Total cash farm expense         976,294         -2,409,202         -1,208,190           Net cash from hedging transactions         1,118         -10,065         14,704           Cash provided by operating         294,004         330,578         524,547           Cash Provided By Investing Activities         53         536         -           Sale of breeding livestock         953         536         -           Sale of machinery & equipment         39,105         43,511         68,887           Sale of machinery & equipment         8,703         -         8,305           Sale of farm land         8,703         -         8,305           Sale of of the farm assets         22,636         800         79,991           Sale of other farm assets         37,611         93,153         19,648           Purchase of breeding livestock         7,320         -30,514         -           Purchase of machinery & equip.         -19,436         -124,219         -218,889		Avg. Of All Farms	<u>Low 20%</u>	High 20%
Cash Provided By Operating Activities           Gross cash farm income         1,269,180         2,749,845         1,718,033           Total cash farm expense         .976,294         -2,409,202         -1,208,190           Net cash from hedging transactions         1,118         -10,065         14,704           Cash provided by operating         294,004         330,578         524,547           Cash Provided By Investing Activities           Sale of breeding livestock         953         536         -           Sale of machinery & equipment         39,105         43,511         68,887           Sale of farm land         8,703         -         8,305           Sale of farm buildings         5,308         -         2,2636           Sale of other farm assets         22,636         800         79,991           Sale of nonfarm assets         37,611         93,153         19,648           Purchase of breeding livestock         -7,320         -30,514         -           Purchase of machinery & equip.         -139,436         -124,219         -218,889           Purchase of farm buildings         48,935         -34,740         -111,355           Purchase of farm buildings         48,935         -34,740         -111,355<	Number of farms	116	23	24
Gross cash farm income         1,269,180         2,749,845         1,718,033           Total cash farm expense         -976,294         -2,409,202         -1,208,190           Net cash from hedging transactions         1,118         -10,065         14,704           Cash provided by operating         294,004         330,578         524,547           Cash Provided By Investing Activities           Sale of breeding livestock         953         536         -           Sale of machinery & equipment         39,105         43,511         68,887           Sale of farm land         8,703         -         8,305           Sale of farm buildings         5,308         -         25,658           Sale of other farm assets         22,636         800         79,991           Sale of other farm assets         37,611         93,153         19,648           Purchase of breeding livestock         -7,320         -30,514         -           Purchase of transactionery & equip.         -139,436         -124,219         -218,889           Purchase of transactionery & equip.         -139,436         -124,219         -218,889           Purchase of farm buildings         -48,935         -34,740         -111,355           Purchase of farm buildings <td>Beginning cash (farm &amp; nonfarm)</td> <td>104,098</td> <td>123,392</td> <td>78,104</td>	Beginning cash (farm & nonfarm)	104,098	123,392	78,104
Total cash farm expense         -976,294         -2,409,202         -1,208,190           Net cash from hedging transactions         1,118         -10,065         14,704           Cash provided by operating         294,004         330,578         524,547           Cash Provided By Investing Activities         Sale of breeding livestock         953         536         -           Sale of breeding livestock         953         536         -         -           Sale of farm chinlery & equipment         39,105         43,511         68,887           Sale of titled vehicles         1,770         2,043         1,146           Sale of farm land         8,703         -         8,305           Sale of other farm assets         22,636         800         79,991           Sale of other farm assets         37,611         33,153         19,648           Purchase of breeding livestock         -7,320         -30,514         -           Purchase of titled vehicles         9,370         -10,710         -1	Cash Provided By Operating Activities			
Net cash from hedging transactions         1,118         -10,065         14,704           Cash provided by operating         294,004         330,578         524,547           Cash provided By Investing Activities         39,105         43,511         68,887           Sale of breeding livestock         953         536         -           Sale of machinery & equipment         39,105         43,511         68,887           Sale of titled vehicles         1,770         2,043         1,146           Sale of farm land         8,703         -         2,5658           Sale of farm buildings         5,308         -         25,658           Sale of nonfarm assets         22,636         800         79,991           Sale of other farm assets         22,636         800         79,991           Sale of onnfarm assets         22,636         800         79,991           Sale of other farm assets         22,636         800         79,991           Purchase of breeding livestock         -7,320         -30,514         -           Purchase of breeding livestock         -7,320         -30,514         -           Purchase of threeding livestock         -7,320         -30,514         -           Purchase of threeding livestock	Gross cash farm income	1,269,180	2,749,845	1,718,033
Cash Provided By Investing Activities         294,004         330,578         524,547           Cash Provided By Investing Activities         Sale of breeding livestock         953         536         -           Sale of machinery & equipment         39,105         43,511         68,887           Sale of titled vehicles         1,770         2,043         1,146           Sale of farm land         8,703         -         8,305           Sale of farm buildings         5,308         -         25,658           Sale of other farm assets         22,636         800         79,991           Sale of other farm assets         22,636         800         79,991           Sale of nonfarm assets         22,636         800         79,991           Sale of nonfarm assets         22,636         800         79,991           Sale of other farm assets         22,636         800         79,991           Sale of ononfarm assets         27,320         -30,514	•			
Cash Provided By Investing Activities           Sale of breeding livestock         953         536         -           Sale of machinery & equipment         39,105         43,511         68,887           Sale of tittled vehicles         1,770         2,043         1,146           Sale of farm land         8,703         -         8,305           Sale of farm buildings         5,308         -         25,658           Sale of other farm assets         22,636         800         79,991           Sale of onnfarm assets         37,611         93,153         19,648           Purchase of breeding livestock         -7,320         -30,514         -           Purchase of breeding livestock         -7,320         -30,514         -           Purchase of machinery & equip.         -139,436         -124,219         -218,889           Purchase of farm buildings         -9,370         -10,710         -18,183           Purchase of farm buildings         -48,935         -34,740         -111,355           Purchase of farm buildings         -48,935         -34,740         -111,355           Purchase of other farm assets         -27,005         -31,431         -94,477           Purchase of other farm assets         -27,005				
Sale of breeding livestock         953         536         -           Sale of machinery & equipment         39,105         43,511         68,887           Sale of titled vehicles         1,770         2,043         1,146           Sale of farm land         8,703         -         8,305           Sale of farm buildings         5,308         -         25,658           Sale of nonfarm assets         22,636         800         79,991           Sale of nonfarm assets         37,611         93,153         19,648           Purchase of breeding livestock         -7,320         -30,514         -           Purchase of machinery & equip.         -139,436         -124,219         -218,889           Purchase of machinery & equip.         -139,436         -124,219         -218,889           Purchase of farm land         -110,643         -290,868         -24,513           Purchase of farm buildings         -48,935         -34,740         -111,355           Purchase of other farm assets         -27,005         -31,431         -94,477           Purchase of other farm assets         -71,143         -73,859         -79,999           Cash provided By Financing Activities         -290,767         -456,298         -343,782	Cash provided by operating	294,004	330,578	524,547
Sale of machinery & equipment         39,105         43,511         68,887           Sale of titled vehicles         1,770         2,043         1,146           Sale of farm land         8,703         -         8,305           Sale of farm buildings         5,308         -         25,658           Sale of other farm assets         22,636         800         79,991           Sale of nonfarm assets         37,611         93,153         19,648           Purchase of breeding livestock         -7,320         -30,514         -           Purchase of machinery & equip.         -139,436         -124,219         -218,889           Purchase of machinery & equip.         -139,436         -124,219         -218,889           Purchase of farm land         -110,643         -290,868         -24,513           Purchase of farm buildings         48,935         -34,740         -111,355           Purchase of other farm assets         -27,005         -31,431         -94,477           Purchase of other farm assets         -71,143         -73,859         -79,999           Cash provided By Financing Activities         -297,767         -456,298         -343,782           Cash provided By Financing Activities           Money borrowed				
Sale of titled vehicles         1,770         2,043         1,146           Sale of farm land         8,703         -         8,305           Sale of farm buildings         5,308         -         25,658           Sale of other farm assets         22,636         800         79,991           Sale of nonfarm assets         37,611         93,153         19,648           Purchase of breeding livestock         -7,320         -30,514         -           Purchase of breeding livestock         -7,320         -30,514         -           Purchase of machinery & equip.         -139,436         -124,219         -218,889           Purchase of machinery & equip.         -139,436         -124,219         -218,889           Purchase of fittled vehicles         -9,370         -10,710         -18,183           Purchase of farm land         -110,643         -290,868         -24,513           Purchase of other farm assets         -27,005         -31,431         -94,477           Purchase of other farm assets         -71,143         -73,859         -79,999           Cash Provided By Financing Activities         Social				-
Sale of farm land         8,703         -         8,305           Sale of farm buildings         5,308         -         25,658           Sale of other farm assets         22,636         800         79,991           Sale of nonfarm assets         37,611         93,153         19,648           Purchase of breeding livestock         -7,320         -30,514         -           Purchase of machinery & equip.         -139,436         -124,219         -218,889           Purchase of machinery & equip.         -139,436         -124,219         -218,889           Purchase of titled vehicles         -9,370         -10,710         -18,183           Purchase of farm land         -110,643         -290,868         -24,513           Purchase of farm buildings         -48,935         -34,740         -111,355           Purchase of other farm assets         -27,005         -31,431         -94,477           Purchase of nonfarm assets         -71,143         -73,859         -79,999           Cash provided By Financing Activities         -71,143         -73,859         -79,999           Cash provided By Financing Activities         -580,221         1,008,890         1,165,856           Principal payments         -531,204         -925,660         -1,187,561				
Sale of farm buildings         5,308         -         25,658           Sale of other farm assets         22,636         800         79,991           Sale of nonfarm assets         37,611         93,153         19,648           Purchase of breeding livestock         -7,320         -30,514         -           Purchase of machinery & equip.         -139,436         -124,219         -218,889           Purchase of titled vehicles         -9,370         -10,710         -18,183           Purchase of farm land         -110,643         -290,868         -24,513           Purchase of farm buildings         -48,935         -34,740         -111,355           Purchase of other farm assets         -27,005         -31,431         -94,477           Purchase of nonfarm assets         -71,143         -73,859         -79,999           Cash provided by investing         -297,767         -456,298         -343,782           Cash Provided By Financing Activities           Money borrowed         580,221         1,008,890         1,165,856           Principal payments         -531,204         -925,660         -1,187,561           Personal income         66,243         90,379         70,692           Family living/owner withdrawals			2,043	
Sale of other farm assets         22,636         800         79,991           Sale of nonfarm assets         37,611         93,153         19,648           Purchase of breeding livestock         -7,320         -30,514         -           Purchase of machinery & equip.         -139,436         -124,219         -218,889           Purchase of titled vehicles         -9,370         -10,710         -18,183           Purchase of farm land         -110,643         -290,868         -24,513           Purchase of farm buildings         -48,935         -34,740         -111,355           Purchase of other farm assets         -27,005         -31,431         -94,477           Purchase of nonfarm assets         -71,143         -73,859         -79,999           Cash provided by investing         -297,767         -456,298         -343,782           Cash provided By Financing Activities           Money borrowed         580,221         1,008,890         1,165,856           Principal payments         -531,204         -925,660         -1,187,561           Personal income         66,243         90,379         70,692           Family living/owner withdrawals         -98,421         -160,939         -129,481           Income and social security ta			-	
Sale of nonfarm assets         37,611         93,153         19,648           Purchase of breeding livestock         -7,320         -30,514         -           Purchase of machinery & equip.         -139,436         -124,219         -218,889           Purchase of machinery & equip.         -139,436         -124,219         -218,889           Purchase of farm devilted we will be farm asset of the farm and continuous assets         -290,868         -24,513           Purchase of sarm buildings         -48,935         -34,740         -111,355           Purchase of other farm assets         -27,005         -31,431         -94,477           Purchase of nonfarm assets         -71,143         -73,859         -79,999           Cash provided by Financing Activities         -297,767         -456,298         -343,782           Cash provided By Financing Activities         -531,204         -925,660         -1,187,561           Personal income         66,243         90,379         70,692			<del>-</del>	
Purchase of breeding livestock         -7,320         -30,514         -           Purchase of machinery & equip.         -139,436         -124,219         -218,889           Purchase of tittled vehicles         -9,370         -10,710         -18,183           Purchase of farm land         -110,643         -290,868         -24,513           Purchase of farm buildings         -48,935         -34,740         -111,355           Purchase of other farm assets         -27,005         -31,431         -94,477           Purchase of nonfarm assets         -71,143         -73,859         -79,999           Cash provided by investing         -297,767         -456,298         -343,782           Cash provided By Financing Activities         Noney borrowed         580,221         1,008,890         1,165,856           Principal payments         -531,204         -925,660         -1,187,561           Personal income         66,243         90,379         70,692           Family living/owner withdrawals         -98,421         -160,939         -129,481           Income and social security tax         -44,414         -54,588         -72,455           Capital contributions         4,194         7,317         -           Capital distributions         -996				
Purchase of machinery & equip.         -139,436         -124,219         -218,889           Purchase of titled vehicles         -9,370         -10,710         -18,183           Purchase of farm land         -110,643         -290,868         -24,513           Purchase of farm buildings         -48,935         -34,740         -111,355           Purchase of other farm assets         -27,005         -31,431         -94,477           Purchase of nonfarm assets         -71,143         -73,859         -79,999           Cash provided by investing         -297,767         -456,298         -343,782           Cash provided By Financing Activities           Money borrowed         580,221         1,008,890         1,165,856           Principal payments         -531,204         -925,660         -1,187,561           Personal income         66,243         90,379         70,692           Family living/owner withdrawals         -98,421         -160,939         -129,481           Income and social security tax         -44,414         -54,588         -72,455           Capital contributions         4,194         7,317         -           Capital distributions         -996         -5,022         -           Dividends paid         -				19,648
Purchase of titled vehicles         -9,370         -10,710         -18,183           Purchase of farm land         -110,643         -290,868         -24,513           Purchase of farm buildings         -48,935         -34,740         -111,355           Purchase of other farm assets         -27,005         -31,431         -94,477           Purchase of nonfarm assets         -71,143         -73,859         -79,999           Cash provided by investing         -297,767         -456,298         -343,782           Cash provided By Financing Activities           Money borrowed         580,221         1,008,890         1,165,856           Principal payments         -531,204         -925,660         -1,187,561           Personal income         66,243         90,379         70,692           Family living/owner withdrawals         -98,421         -160,939         -129,481           Income and social security tax         -44,414         -54,588         -72,455           Capital contributions         4,194         7,317         -           Capital distributions         -996         -5,022         -           Dividends paid         -         -         -           Cash gifts and inheritances         36,077         126,71	<del>_</del>			-
Purchase of farm land         -110,643         -290,868         -24,513           Purchase of farm buildings         -48,935         -34,740         -111,355           Purchase of other farm assets         -27,005         -31,431         -94,477           Purchase of nonfarm assets         -71,143         -73,859         -79,999           Cash provided by investing         -297,767         -456,298         -343,782           Cash provided By Financing Activities           Money borrowed         580,221         1,008,890         1,165,856           Principal payments         -531,204         -925,660         -1,187,561           Personal income         66,243         90,379         70,692           Family living/owner withdrawals         -98,421         -160,939         -129,481           Income and social security tax         -44,414         -54,588         -72,455           Capital contributions         4,194         7,317         -           Capital distributions         -996         -5,022         -           Dividends paid         -         -         -           Cash gifts and inheritances         36,077         126,718         4,625           Gifts given         -         -         -	· · · · · · · · · · · · · · · · · · ·			
Purchase of farm buildings         -48,935         -34,740         -111,355           Purchase of other farm assets         -27,005         -31,431         -94,477           Purchase of nonfarm assets         -71,143         -73,859         -79,999           Cash provided by investing         -297,767         -456,298         -343,782           Cash provided By Financing Activities           Money borrowed         580,221         1,008,890         1,165,856           Principal payments         -531,204         -925,660         -1,187,561           Personal income         66,243         90,379         70,692           Family living/owner withdrawals         -98,421         -160,939         -129,481           Income and social security tax         -44,414         -54,588         -72,455           Capital contributions         4,194         7,317         -           Capital distributions         -996         -5,022         -           Dividends paid         -         -         -           Cash gifts and inheritances         36,077         126,718         4,625           Gifts given         -         -         -           Other cash flows         -         -         -           <				
Purchase of other farm assets         -27,005         -31,431         -94,477           Purchase of nonfarm assets         -71,143         -73,859         -79,999           Cash provided by investing         -297,767         -456,298         -343,782           Cash Provided By Financing Activities           Money borrowed         580,221         1,008,890         1,165,856           Principal payments         -531,204         -925,660         -1,187,561           Personal income         66,243         90,379         70,692           Family living/owner withdrawals         -98,421         -160,939         -129,481           Income and social security tax         -44,414         -54,588         -72,455           Capital contributions         4,194         7,317         -           Capital distributions         -996         -5,022         -           Dividends paid         -         -         -           Cash gifts and inheritances         36,077         126,718         4,625           Gifts given         -8,572         -904         -1,537           Other cash flows         -         -         -           Cash provided by financing         3,128         86,192         -149,860				
Purchase of nonfarm assets         -71,143         -73,859         -79,999           Cash provided by investing         -297,767         -456,298         -343,782           Cash Provided By Financing Activities           Money borrowed         580,221         1,008,890         1,165,856           Principal payments         -531,204         -925,660         -1,187,561           Personal income         66,243         90,379         70,692           Family living/owner withdrawals         -98,421         -160,939         -129,481           Income and social security tax         -44,414         -54,588         -72,455           Capital contributions         4,194         7,317         -           Capital distributions         -996         -5,022         -           Dividends paid         -         -         -           Cash gifts and inheritances         36,077         126,718         4,625           Gifts given         -8,572         -904         -1,537           Other cash flows         -         -         -           Cash provided by financing         3,128         86,192         -149,860           Net change in cash balance         -635         -39,528         30,904				
Cash provided by investing         -297,767         -456,298         -343,782           Cash Provided By Financing Activities         Money borrowed         580,221         1,008,890         1,165,856           Principal payments         -531,204         -925,660         -1,187,561           Personal income         66,243         90,379         70,692           Family living/owner withdrawals         -98,421         -160,939         -129,481           Income and social security tax         -44,414         -54,588         -72,455           Capital contributions         4,194         7,317         -           Capital distributions         -996         -5,022         -           Dividends paid         -         -         -           Cash gifts and inheritances         36,077         126,718         4,625           Gifts given         -8,572         -904         -1,537           Other cash flows         -         -         -           Cash provided by financing         3,128         86,192         -149,860           Net change in cash balance         -635         -39,528         30,904           Ending cash (farm & nonfarm)         103,170         83,510         108,701				
Cash Provided By Financing Activities           Money borrowed         580,221         1,008,890         1,165,856           Principal payments         -531,204         -925,660         -1,187,561           Personal income         66,243         90,379         70,692           Familly living/owner withdrawals         -98,421         -160,939         -129,481           Income and social security tax         -44,414         -54,588         -72,455           Capital contributions         4,194         7,317         -           Capital distributions         -996         -5,022         -           Dividends paid         -         -         -           Cash gifts and inheritances         36,077         126,718         4,625           Gifts given         -8,572         -904         -1,537           Other cash flows         -         -         -           Cash provided by financing         3,128         86,192         -149,860           Net change in cash balance         -635         -39,528         30,904           Ending cash (farm & nonfarm)         103,170         83,510         108,701				
Money borrowed         580,221         1,008,890         1,165,856           Principal payments         -531,204         -925,660         -1,187,561           Personal income         66,243         90,379         70,692           Family living/owner withdrawals         -98,421         -160,939         -129,481           Income and social security tax         -44,414         -54,588         -72,455           Capital contributions         4,194         7,317         -           Capital distributions         -996         -5,022         -           Dividends paid         -         -         -           Cash gifts and inheritances         36,077         126,718         4,625           Gifts given         -8,572         -904         -1,537           Other cash flows         -         -         -           Cash provided by financing         3,128         86,192         -149,860           Net change in cash balance         -635         -39,528         30,904           Ending cash (farm & nonfarm)         103,170         83,510         108,701	Cash provided by investing	-297,767	-456,298	-343,782
Principal payments         -531,204         -925,660         -1,187,561           Personal income         66,243         90,379         70,692           Family living/owner withdrawals         -98,421         -160,939         -129,481           Income and social security tax         -44,414         -54,588         -72,455           Capital contributions         4,194         7,317         -           Capital distributions         -996         -5,022         -           Dividends paid         -         -         -           Cash gifts and inheritances         36,077         126,718         4,625           Gifts given         -8,572         -904         -1,537           Other cash flows         -         -         -           Cash provided by financing         3,128         86,192         -149,860           Net change in cash balance         -635         -39,528         30,904           Ending cash (farm & nonfarm)         103,170         83,510         108,701				
Personal income         66,243         90,379         70,692           Family living/owner withdrawals         -98,421         -160,939         -129,481           Income and social security tax         -44,414         -54,588         -72,455           Capital contributions         4,194         7,317         -           Capital distributions         -996         -5,022         -           Dividends paid         -         -         -           Cash gifts and inheritances         36,077         126,718         4,625           Gifts given         -8,572         -904         -1,537           Other cash flows         -         -         -           Cash provided by financing         3,128         86,192         -149,860           Net change in cash balance         -635         -39,528         30,904           Ending cash (farm & nonfarm)         103,170         83,510         108,701				
Family living/owner withdrawals       -98,421       -160,939       -129,481         Income and social security tax       -44,414       -54,588       -72,455         Capital contributions       4,194       7,317       -         Capital distributions       -996       -5,022       -         Dividends paid       -       -       -         Cash gifts and inheritances       36,077       126,718       4,625         Gifts given       -8,572       -904       -1,537         Other cash flows       -       -       -         Cash provided by financing       3,128       86,192       -149,860         Net change in cash balance       -635       -39,528       30,904         Ending cash (farm & nonfarm)       103,170       83,510       108,701				
Income and social security tax         -44,414         -54,588         -72,455           Capital contributions         4,194         7,317         -           Capital distributions         -996         -5,022         -           Dividends paid         -         -         -           Cash gifts and inheritances         36,077         126,718         4,625           Gifts given         -8,572         -904         -1,537           Other cash flows         -         -         -           Cash provided by financing         3,128         86,192         -149,860           Net change in cash balance         -635         -39,528         30,904           Ending cash (farm & nonfarm)         103,170         83,510         108,701				•
Capital contributions       4,194       7,317       -         Capital distributions       -996       -5,022       -         Dividends paid       -       -       -         Cash gifts and inheritances       36,077       126,718       4,625         Gifts given       -8,572       -904       -1,537         Other cash flows       -       -       -         Cash provided by financing       3,128       86,192       -149,860         Net change in cash balance       -635       -39,528       30,904         Ending cash (farm & nonfarm)       103,170       83,510       108,701	•	•		
Capital distributions         -996         -5,022         -           Dividends paid         -         -         -           Cash gifts and inheritances         36,077         126,718         4,625           Gifts given         -8,572         -904         -1,537           Other cash flows         -         -         -           Cash provided by financing         3,128         86,192         -149,860           Net change in cash balance         -635         -39,528         30,904           Ending cash (farm & nonfarm)         103,170         83,510         108,701	•			-72,455
Dividends paid         -         -         -           Cash gifts and inheritances         36,077         126,718         4,625           Gifts given         -8,572         -904         -1,537           Other cash flows         -         -         -           Cash provided by financing         3,128         86,192         -149,860           Net change in cash balance         -635         -39,528         30,904           Ending cash (farm & nonfarm)         103,170         83,510         108,701				-
Cash gifts and inheritances       36,077       126,718       4,625         Gifts given       -8,572       -904       -1,537         Other cash flows       -       -       -         Cash provided by financing       3,128       86,192       -149,860         Net change in cash balance       -635       -39,528       30,904         Ending cash (farm & nonfarm)       103,170       83,510       108,701	•	-996	-5,022	-
Gifts given       -8,572       -904       -1,537         Other cash flows       -       -       -         Cash provided by financing       3,128       86,192       -149,860         Net change in cash balance       -635       -39,528       30,904         Ending cash (farm & nonfarm)       103,170       83,510       108,701		-	-	4.005
Other cash flows       -	•			
Cash provided by financing       3,128       86,192       -149,860         Net change in cash balance       -635       -39,528       30,904         Ending cash (farm & nonfarm)       103,170       83,510       108,701		-8,572	-904	-1,537
Net change in cash balance       -635       -39,528       30,904         Ending cash (farm & nonfarm)       103,170       83,510       108,701		- 0.400	-	- 440.000
Ending cash (farm & nonfarm) 103,170 83,510 108,701	Casri provided by financing	3,128	86,192	-149,860
Ending cash (farm & nonfarm) 103,170 83,510 108,701	Net change in cash balance	-635	-39,528	30,904
	· · · · · · · · · · · · · · · · · · ·			

# Statement of Cash Flows -- Trend Southwest Minnesota Farm Business Management Association (Farms Sorted By Years)

	<i>2019</i>	<i>2020</i>		<i>2022</i>	<u>2023</u>
Number of farms	106	108	110	111	116
Beginning cash (farm & nonfarm)	80,694	92,057	105,356	95,259	104,098
Cash Provided By Operating Activities					
Gross cash farm income	946,154	1,099,964	1,268,240	1,402,893	1,269,180
Total cash farm expense	-783,687	-931,696	-964,451	-1,103,396	-976,294
Net cash from hedging transactions	2,197	-5,592	1,127	2,833	1,118
Cash provided by operating	164,663	162,676	304,916	302,330	294,004
Cash Provided By Investing Activities					
Sale of breeding livestock	3,183	3,420	3,703	1,926	953
Sale of machinery & equipment	17,757	23,833	42,617	30,982	39,105
Sale of titled vehicles	383	440	2,036	1,130	1,770
Sale of farm land	1,891	8,413	8,943	16,478	8,703
Sale of farm buildings	-	5,220	4,961	14,614	5,308
Sale of other farm assets	3,505	2,103	568	2,727	22,636
Sale of nonfarm assets	4,512	13,102	24,205	18,115	37,611
Purchase of breeding livestock	-2,252	-3,058	-6,040	-6,559	-7,320
Purchase of machinery & equip.	-53,750	-90,815	-134,547	-151,282	-139,436
Purchase of titled vehicles	-2,288	-4,758	-11,095	-7,579	-9,370
Purchase of farm land	-68,101	-87,321	-86,522	-182,376	-110,643
Purchase of farm buildings	-19,463	-34,884	-51,942	-54,613	-48,935
Purchase of other farm assets	-6,701	-763	-6,512	-2,356	-27,005
Purchase of nonfarm assets	-16,654	-31,865	-82,656	-47,955	-71,143
Cash provided by investing	-137,977	-196,932	-292,279	-366,748	-297,767
Cash Provided By Financing Activities					
Money borrowed	563,562	655,581	564,844	598,951	580,221
Principal payments	-566,004	-580,495	-552,410	-467,460	-531,204
Personal income	47,034	51,952	66,037	53,971	66,243
Family living/owner withdrawals	-74,887	-74,690	-84,384	-95,742	-98,421
Income and social security tax	-16,436	-21,354	-24,460	-36,760	-44,414
Capital contributions	9,075	3,433	6,084	12,209	4,194
Capital distributions	-440	-3,019	-2,508	-1,897	-996
Dividends paid	-19	-	-	-	-
Cash gifts and inheritances	29,273	17,123	26,114	13,563	36,077
Gifts given	-3,537	-1,516	-3,033	-4,559	-8,572
Other cash flows	-	-	-	-	-
Cash provided by financing	-12,378	47,016	-3,716	72,274	3,128
Net change in cash balance	14,307	12,760	8,921	7,856	-635
Ending cash (farm & nonfarm)	94,840	104,834	114,293	103,251	103,170
Discrepancy	162	-17	-16	-135	293

#### Crop Production and Marketing Summary Southwest Minnesota Farm Business Management Association (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	High 20%
Number of farms	116	23	24
Acreage Summary			
Total acres owned	281	291	424
Total crop acres	855	1,072	1,468
Crop acres owned	230	230	401
Crop acres cash rented	575	834	1,032
Crop acres share rented	50	8	35
Total pasture acres	15	55	-
Percent crop acres owned	27 %	21 %	27 %
Mach invest/crop acre cost	594	550	546
Mach invest/crop acre market	944	918	858
Average Price Received (Cash Sales Only	<b>'</b> )		
Soybeans per bushel	13.86	13.85	13.92
Corn per bushel	6.17	6.38	6.10
Hay, Alfalfa per ton	139.08	-	-
Corn Silage per ton	48.17	-	-
Oats per bushel	4.17	-	-
A			
Average Yield Per Acre	400.00	400.00	400.50
Corn (bushel)	198.98 53.84	189.29 51.51	199.59 54.48
Soybeans (bushel)		51.51	
Corn Silage (ton)	23.85 4.82	-	24.16
Hay, Alfalfa (ton)	4.62 2.46	-	-
Hay, Grass (ton) Rye Silage (ton)	2.46 3.88	-	-
Sugar Beets (ton)	33.42	- -	- -

### Crop Production and Marketing Summary -- Trend Southwest Minnesota Farm Business Management Association (Farms Sorted By Years)

	<u> 2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
Number of farms	106	108	110	111	116
Acreage Summary					
Total acres owned	235	226	276	282	281
Total crop acres	940	906	883	863	855
Crop acres owned	233	237	222	226	230
Crop acres cash rented	659	629	625	595	575
Crop acres share rented	48	40	36	42	50
Total pasture acres	11	11	12	15	15
Percent crop acres owned	25 %	26 %	25 %	26 %	27 %
Mach invest/crop acre cost	487	474	508	561	594
Mach invest/crop acre market	734	748	806	895	944
Average Price Received (Cash Sales C	Only)				
Soybeans per bushel	8.46	9.08	11.59	13.97	13.86
Corn per bushel	3.58	3.37	4.84	6.06	6.17
Hay, Alfalfa per ton	-	-	-	142.11	139.08
Hay per ton	110.01	-	-	-	-
Hay, Grass per ton	-	-	109.64	-	-
Average Viold Der Aero					
Average Yield Per Acre	164.13	201.42	200.49	197.78	198.98
Corn (bushel)	48.60	57.58	57.55	53.14	53.84
Soybeans (bushel)	18.02	21.09	25.68	23.31	23.85
Corn Silage (ton)	4.98	4.38	25.68 5.34	23.31 5.83	23.85 4.82
Hay, Alfalfa (ton)	4.98 2.41	4.38 2.63	5.34 2.12	5.83 2.29	4.82 2.46
Hay, Grass (ton)	2.41		2.12		2.40
Oats (bushel)	-	86.56	-	67.22	-

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

	Avg. Of All Farms	Low 20%	<u> High 20%</u>
Number of farms	39	6	9
Average family size	3.2	2.8	3.7
Family Living Expenses			
Food and meals expense	11,609	12,600	15,634
Medical care	7,098	3,940	6,947
Health insurance	3,578	7,657	846
Cash donations	4,839	4,490	2,418
Household supplies	12,314	12,700	22,030
Clothing	2,269	1,737	5,167
Personal care	3,358	4,461	2,807
Child / Dependent care	1,037	3,068	1,218
Alimony and child support	-	-	-
Gifts	6,872	3,931	7,201
Education	1,379	1,156	1,040
Recreation	7,736	10,374	7,454
Utilities (household share)	3,497	5,858	4,057
Personal vehicle operating exp	5,523	5,990	8,724
Household real estate taxes	1,615	2,958	1,354
Dwelling rent	56	-	244
Household repairs	2,871	3,524	3,279
Personal interest	2,529	3,172	4,820
Disability / Long term care ins	145	-	209
Life insurance payments	2,786	2,492	5,176
Personal property insurance	829	2,059	1,117
Miscellaneous	2,891	3,190	1,385
Total cash family living expense	84,830	95,358	103,126
Family living from the farm	665	3,187	-
Total family living	85,495	98,544	103,126
Other Nonfarm Expenditures			
Income taxes	47,331	37,429	85,871
Furnishing & appliance purchases	-31	-	-
Nonfarm vehicle purchases	5,645	3,927	6,670
Nonfarm real estate purchases	19,182	-	70,959
Other nonfarm capital purchases	8,824	-8,408	39,665
Nonfarm savings & investments	37,038	56,377	452
Total other nonfarm expenditures	117,989	89,325	203,616
Total cash family living			
investment & nonfarm capital purch	202,819	184,683	306,742

# Household and Personal Expenses -- Trend Southwest Minnesota Farm Business Management Association (Farms Sorted By Years)

	<u> 2019</u>		<u>2021</u>	<u>2022</u>	<u>2023</u>
Number of farms	39	35	35	29	39
Average family size	2.9	2.5	2.8	2.8	3.2
Family Living Expenses					
Food and meals expense	8,973	9,346	10,728	10,817	11,609
Medical care	4,353	5,801	5,145	5,389	7,098
Health insurance	6,311	5,798	5,035	4,995	3,578
Cash donations	4,692	3,992	3,476	6,301	4,839
Household supplies	6,565	6,217	6,408	9,297	12,314
Clothing	2,675	1,313	1,648	2,851	2,269
Personal care	1,027	2,864	2,578	1,992	3,358
Child / Dependent care	815	678	942	1,021	1,037
Alimony and child support	-	-	114	-	-
Gifts	4,788	3,267	3,727	4,940	6,872
Education	858	286	611	452	1,379
Recreation	5,022	3,500	5,297	5,990	7,736
Utilities (household share)	3,310	3,014	3,590	3,312	3,497
Personal vehicle operating exp	3,832	3,273	3,835	3,796	5,523
Household real estate taxes	465	918	963	860	1,615
Dwelling rent	76	186	379	76	56
Household repairs	1,795	1,694	1,552	1,154	2,871
Personal interest	1,238	1,068	1,458	742	2,529
Disability / Long term care ins	315	453	239	652	145
Life insurance payments	2,840	2,615	2,301	2,154	2,786
Personal property insurance	985	258	598	812	829
Miscellaneous	5,418	5,712	7,622	1,264	2,891
Total cash family living expense	66,354	62,254	68,245	68,865	84,830
Family living from the farm	231	251	316	652	665
Total family living	66,585	62,504	68,562	69,517	85,495
Other Nonfarm Expenditures					
Income taxes	22,367	28,347	27,518	39,474	47,331
Furnishing & appliance purchases	577	-	-87	50	-31
Nonfarm vehicle purchases	2,139	2,325	1,161	3,034	5,645
Nonfarm real estate purchases	-	295	9,661	3,923	19,182
Other nonfarm capital purchases	1,292	249	21,087	5,749	8,824
Nonfarm savings & investments	7,073	6,817	20,578	42,734	37,038
Total other nonfarm expenditures	33,449	38,034	79,916	94,964	117,989
Total cash family living					
investment & nonfarm capital purch	99,802	100,287	148,162	163,829	202,819

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

	Avg. Of All Farms	Low 20%	High 20%
Number of farms	116	23	24
Operator Information			
Average number of operators	1.1	1.2	1.3
Average age of operators	52.0	61.9	54.0
Average number of years farming	27.5	38.8	30.9
Results Per Operator			
Working capital	550,703	557,406	845,837
Total assets (market)	4,906,990	6,012,072	6,804,917
Total liabilities	1,618,661	2,194,707	2,650,558
Net worth (market)	3,288,329	3,817,365	4,154,359
Net worth excl deferred liabs	3,911,214	4,554,179	5,120,137
Gross farm income	986,679	1,988,358	1,304,993
Total farm expense	970,291	2,282,355	1,085,988
Net farm income from operations	16,388	-293,997	219,005
Net nonfarm income	58,213	76,989	56,554
Family living & tax withdrawals	121,638	167,592	158,449
Total acres owned	247.0	247.7	339.2
Total crop acres	751.2	913.5	1,174.3
Crop acres owned	202.3	195.7	321.0
Crop acres cash rented	505.3	710.8	825.3
Crop acres share rented	43.7	7.0	28.1
Total pasture acres	13.1	46.5	-
Labor Analysis			
Number of farms	116	23	24
Total unpaid labor hours	1,946	2,518	2,728
Total hired labor hours	1,145	3,425	1,211
Total labor hours per farm	3,091	5,943	3,939
Unpaid hours per operator	1,710	2,145	2,182
Value of farm production / hour	272.45	184.79	385.79
Net farm income / unpaid hour	9.58	-137.04	100.36
Average hourly hired labor wage	37.06	42.54	31.92

# Operator and Labor Information -- Trend Southwest Minnesota Farm Business Management Association (Farms Sorted By Years)

	<u>2019</u>	<u>2020</u>	<u>2021</u>		
Number of farms	106	108	110	111	116
Operator Information					
Average number of operators	1.2	1.2	1.2	1.2	1.1
Average age of operators	53.4	53.4	52.9	52.9	52.0
Average number of years farming	29.3	29.2	28.5	28.6	27.5
Results Per Operator					
Working capital	347,189	503,258	708,626	774,519	550,703
Total assets (market)	3,598,184	4,083,645	4,523,486	4,948,780	4,906,990
Total liabilities	1,232,516	1,426,199	1,486,558	1,674,407	1,618,661
Net worth (market)	2,365,668	2,657,446	3,036,928	3,274,373	3,288,329
Net worth excl deferred liabs	2,790,550	3,160,935	3,638,109	3,942,538	3,911,214
Gross farm income	821,289	1,086,000	1,225,860	1,298,346	986,679
Total farm expense	702,839	823,481	840,066	996,399	970,291
Net farm income from operations	118,451	262,519	385,794	301,946	16,388
Net nonfarm income	38,950	43,495	55,877	46,083	58,213
Family living & tax withdrawals	79,512	83,530	98,733	121,747	121,638
Total acres owned	195.0	189.1	233.6	241.2	247.0
Total crop acres	778.6	758.8	747.4	736.6	751.2
Crop acres owned	193.2	198.5	187.7	193.3	202.3
Crop acres cash rented	545.9	526.7	529.1	507.7	505.3
Crop acres share rented	39.5	33.6	30.7	35.7	43.7
Total pasture acres	9.1	9.6	10.3	12.5	13.1
Labor Analysis					
Number of farms	106	108	110	111	116
Total unpaid labor hours	2,144	2,062	2,008	1,998	1,946
Total hired labor hours	958	997	949	1,288	1,145
Total labor hours per farm	3,103	3,059	2,957	3,286	3,091
Unpaid hours per operator	1,776	1,726	1,699	1,706	1,710
Value of farm production / hour	249.10	323.36	389.30	353.05	272.45
Net farm income / unpaid hour	66.70	152.08	227.01	177.03	9.58
Average hourly hired labor wage	26.43	30.73	31.65	32.56	37.06
Partnerships & LLCs	10	10	10	4.4	-
Number of farms	13	12	12	11	9
Number of operators	2.3	2.3	2.3	2.3	-
Owner withdrawals per farm Withdrawals per operator	-	-	-	-	-
Corporations	,	2	2	2	2
Number of farms	6	3	3	3	3
Number of operators	-	-	-	-	-

#### Nonfarm Summary Southwest Minnesota Farm Business Management Association (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	High 20%
Number of farms	116	23	24
Nonfarm Income			
Personal wages & salary	39,089	46,906	37,001
Net nonfarm business income	2,678	8,401	3,525
Personal rental income	3,651	4,843	11,272
Personal interest income	3,449	4,206	2,889
Personal cash dividends	1,283	1,311	1,317
Taxrefunds	1,876	3,275	2,819
Other nonfarm income	14,217	21,437	11,869
Total nonfarm income	66,243	90,379	70,692
rotarnomammicome	00,240	30,373	70,002
Gifts and inheritances	36,077	126,718	4,625
Nonfarm Assets (market)			
Checking & savings	24,393	9,485	8,376
Stocks & bonds	60,067	50,645	27,291
Other current assets	16,460	42,632	8,180
Furniture & appliances	10,243	9,349	11,440
Nonfarm vehicles	29,143	34,166	24,413
Cash value of life ins.	18,591	35,964	20,276
Retirement accounts	222,792	338,880	259,204
Other intermediate assets	132,553	5,451	62,207
Nonfarm real estate	257,723	198,603	576,612
Personal bus. investment	61,858	5,217	241,990
Other long term assets	56,653	45,870	95,648
Total nonfarm assets	890,478	776,262	1,335,636
Nonfarm Liabilities			
Accrued interest	508	551	1,404
Accounts payable	28,549	30,936	44,006
Current notes	4,802	697	10,042
Princ due on term debt	3,344	2,846	4,768
Total current liabilities	37,204	35,030	60,220
Intermediate liabilities	5,195	4,518	10,067
Long term liabilities	44,653	33,961	75,814
Total nonfarm liabilities	87,051	73,510	146,101
Nonfarm net worth	803,427	702,752	1,189,535
Nonfarm debt to asset ratio	10 %	9 %	11 %

#### Nonfarm Summary -- Trend Southwest Minnesota Farm Business Management Association (Farms Sorted By Years)

	<u>2019</u>	<i>2020</i>	<u>2021</u>	<u> 2022</u>	<u>2023</u>
Number of farms	106	108	110	111	116
Nonfarm Income					
Personal wages & salary	25,763	31,964	35,645	35,017	39,089
Net nonfarm business income	2,850	1,717	9,013	2,553	2,678
Personal rental income	4,038	5,045	4,341	3,772	3,651
Personal interest income	1,188	1,416	934	1,423	3,449
Personal cash dividends	81	175	135	249	1,283
Tax refunds	918	1,000	3,490	1,392	1,876
Other nonfarm income	12,195	10,636	12,479	9,565	14,217
Total nonfarm income	47,034	51,952	66,037	53,971	66,243
Gifts and inheritances	29,273	17,123	26,114	13,563	36,077
Nonfarm Assets (market)					
Checking & savings	12,371	14,769	14,396	20,363	24,393
Stocks & bonds	45,970	54,409	56,529	56,693	60,067
Other current assets	3,085	4,751	5,031	14,802	16,460
Furniture & appliances	10,268	10,428	10,070	10,324	10,243
Nonfarm vehicles	20,846	22,288	25,220	26,795	29,143
Cash value of life ins.	20,648	22,047	22,148	20,364	18,591
Retirement accounts	164,031	194,015	234,026	195,718	222,792
Other intermediate assets	101,753	101,566	135,636	143,531	132,553
Nonfarm real estate	121,583	200,291	230,236	237,098	257,723
Personal bus. investment	60,907	66,566	75,555	80,061	61,858
Other long term assets	52,709	55,212	67,819	63,096	56,653
Total nonfarm assets	614,172	746,342	876,666	868,844	890,478
Nonfarm Liabilities					
Accrued interest	104	170	541	508	508
Accounts payable	20,707	22,001	28,621	35,010	28,549
Current notes	75	144	2,877	2,829	4,802
Princ due on term debt	3,231	2,958	3,767	3,692	3,344
Total current liabilities	24,117	25,272	35,806	42,040	37,204
Intermediate liabilities	4,750	5,274	6,667	6,207	5,195
Long term liabilities	26,398	43,521	47,508	42,056	44,653
Total nonfarm liabilities	55,265	74,068	89,981	90,303	87,051
Nonfarm net worth	558,907	672,274	786,685	778,542	803,427
Nonfarm debt to asset ratio	9 %	10 %	10 %	10 %	10 %

## **Projected Profitability**

The Projected Profitability report displays actual results for Minnesota farms in 2023, along with projected financial results for 2024. Projected results are based on the authors' estimates of changes in revenue, operating expenses, interest rates, and asset values. Assumptions are displayed at the bottom of the page. All calculations include SWFBMA farms, as well as farms enrolled in MN State FBM programs.

- **2023 All Farms Actual** Average financial results for all 2,359 farms in 2023. Balance sheet measures reflect the average position of farms in MN FBM programs at the end of the year.
- **2023 Improved Margin Management** Potential impacts of small changes in farm performance. If MN program farms had, on average, improved sales by 5% and cut costs by 5%, the net farm income of the average farm would have increased by 130% in 2023.
- **2023 Statewide Crop Farms Actual** Average financial results for the 1,394 crop farms in MN farm management programs in 2023.
- **2024 Statewide Crop Farms Projected** Crop prices are expected to continue to fall and these decreased prices coupled with trendline yields lead to a lower income forecast. Operating expenses are expected to fall slightly, and interest rates are expected to increase marginally. Given this outlook MN crop producers are expected to have lower profitability.
- **2023 Statewide Dairy Farms Actual** Average financial results for the 315 dairy and crop and dairy farms in MN farm management programs in 2023.
- 2024 Statewide Dairy Farms Projected Milk prices are expected to improve marginally, but lower DMC payments will lead to lower farm incomes for dairy producers. A reduction in operating expenses is expected to help farms improve profitability levels for the year. Given this outlook, MN dairy producers are expected to have a higher net farm incomes for 2024.
- **2023 Statewide Hog Farms Actual** Average financial results for the 42 hog and crop and hog farms in MN farm management programs in 2023.
- **2024 Statewide Hog Farms Projected** Pork prices are expected to improve, and operating expenses are expected to fall in 2024. Given this outlook, the state's hog farms are expected to reach improved profitability levels in 2024.
- **2023 Statewide Beef Farms Actual** Average financial results for the 197 beef and crop and beef farms in MN farm management programs in 2023.
- **2024 Statewide Beef Farms Projected** Beef prices are expected to remain relatively strong in the coming year and operating expenses are expected to fall slightly. Given this outlook, the state's beef farms are expected to have adequate financial performance again in 2024.

The assumptions used to project these results are subjective. We offer these projections as the most likely scenario to help members consider management decisions in a period of tightening margins. Predictions are currently more challenging given inflationary pressures on input costs, rising interest rates, and the global market uncertainty at present.

Figure 21: Projected Profitability Results for MN Farms

	Results for All Minnesota Farms									
	2023	2023	2023	2024	2023	2024	2023	2024	2023	2024
	Actual Analysis Results	Improv. Margin Mgmt.	Crop Farms Actual	Crop Farms Projected	Dairy Farms Actual	Dairy Farms Projected	Hog Farms Actual	Hog Farms Projected	Beef Farms Actual	Beef Farms Projected
Liquidity										
Current Ratio	2.3	2.4	2.4	2.2	2.2	2.2	2.1	2.0	1.9	1.8
Work. Capital to Gross Rev. <b>Solvency</b> <sup>1</sup>	42%	44%	54%	51%	20%	17%	26%	24%	42%	38%
Debt to Asset Ratio	32%	32%	31%	32%	35%	36%	34%	34%	41%	42%
Debt to Equity Ratio  Profitability	0.48	0.47	0.45	0.46	0.55	0.56	0.51	0.52	0.70	0.72
Rate of Ret. on Assets	2%	5%	2%	1%	0%	3%	-2%	3%	5%	4%
Oper. Profit Margin	8%	18%	8%	5%	1%	8%	-10%	12%	21%	19%
Asset Turnover Rate	26%	28%	26%	24%	31%	31%	23%	27%	23%	23%
Net Farm Income Repayment Capacity	\$79,318	\$184,000	\$94,959	\$36,000	\$17,637	\$73,000	-\$191,923	\$145,000	\$127,988	\$88,000
Debt Coverage Ratio	1.3	2.1	1.4	0.9	0.8	1.2	-0.2	1.3	1.8	1.5
Replacement Coverage Ratio <b>Efficiency</b>	1.0	1.7	1.0	0.7	0.7	1.0	-0.2	1.1	1.5	1.3
Oper. Expense Ratio Net Worth Growth <sup>1</sup>	83%	75%	79%	82%	90%	85%	100%	91%	80%	81%
Net Worth Change	6%	10%	7%	5%	2%	5%	-4%	3%	11%	9%

Assumptions Used		Improv.		Crop		Dairy		Hog		Beef
in Forecasts		Margin		Projected		Projected		Projected		Projected
Gross Income	-	+ 5%	-	- 9%	-	- 3%	-	+ 1%	-	- 2%
Operating Expenses	-	- 5%	-	- 6%	-	- 8%	-	- 8%	-	- 1%
Interest Rates	-	0%	-	+ 2%	-	+ 2%	-	+ 2%	-	+ 2%
Current Assets	-	+ 5%	-	- 9%	-	- 9%	-	- 4%	-	- 5%
Noncurrent Assets	-	0%	-	0%	-	0%	-	0%	-	0%

<sup>&</sup>lt;sup>1</sup> Assets at estimated market values.

### **Crop Reports**

The Crop Enterprise Analysis tables show average production, gross return, direct costs, overhead costs, and net returns per acre. There are potentially three tables for each crop, depending on land tenures: owned, cash rented, and share rented land. Farms are classified into low 20% or high 20% based on net return per acre. The classification is done separately for each table.

Gross Return per Acre includes the value of the crop produced plus any other income directly associated with production of the crop, including hedging gains or losses, and crop insurance that may have been received. It does not include government payments (see Net Return with Government Payments). The only government payments included as other income in 2023 crop enterprise analysis reports include EQIP or CSP payments received to offset annual production expenses.

The *Value per Unit* is assigned by the producer. For cash crops, the value is based on the actual sales price for production sold or contracted before year-end and the inventory value for crops still in inventory at year-end. The local harvest-time price is used for forages and other feed crops.

Net Return per Acre is the amount contributed toward operator labor, management, and equity capital. Any wages and benefits paid to the operator are removed from labor costs (and added to Labor and Management Charge) so that all farms are on equal footing. Land costs include land rent on the rented land pages, but only actual interest paid and real estate taxes on owned land. For this reason, net returns from owned and rented land should not be compared.

Net Return with Government Payments is the net return per acre after decoupled government payments such as ARC and PLC payments have been added. These payments are generally allocated evenly per acre across all crops except vegetables and pasture.

Net Return Over Labor and Management is the return, including government payments, remaining after deducting an opportunity cost for unpaid operator labor and management. This is the per acre return to equity capital.

Cost of Production shows the average cost per unit produced in each cost category. Total Direct and Overhead Expense per Unit is the breakeven price needed to cover cash costs and depreciation. Less Government and Other Income is the breakeven price if government payments and any miscellaneous income are used to offset some expenses. With Labor and Management is the breakeven price to provide a labor and management return for the operator(s).

Machinery Cost per Acre includes fuel and oil, repairs, custom hire, machinery lease payments, machinery depreciation, and interest on intermediate debt.

Note: These government payments received by producers were not included in the crop analysis.

- Emergency Relief Program (ERP) Phase 2 These payments covered natural disaster losses from events in 2020-2021, not the current production year. Therefore, they were excluded.
- Other government program payments not directly related to 2023 crop production: Inflation Reduction Act (IRA) Section 22006 debt forgiveness for distressed borrowers; IRA 22007 discrimination financial assistance; Coronavirus Food Assistance Program (CFAP 2) for underserved producers; and Pandemic Assistance Revenue Program (PARP) payments.

#### Corn on Owned Land

	Avg. Of <u>All Farms</u>	Low 20%	High 20%
Number of farms	68	13	14
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	180.27 203.31 100.00 4.69 0.07 952.64 -3.67 54.51 19.30 1,022.78	134.51 200.80 100.00 4.68 0.48 939.77 0.26 11.01 0.37 951.41	207.41 207.74 100.00 4.88 - 1,014.20 0.16 82.33 81.27 1,177.96
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	124.47 211.10 50.09 28.11 9.92 30.72 61.58 18.55 3.92 10.23 0.22 0.93 1.84 12.70 2.91 567.28 455.50	132.63 311.61 64.83 20.64 11.81 29.91 65.18 24.74 7.27 22.81 0.41 - 1.96 10.11	119.66 177.85 46.42 26.44 12.55 23.88 50.89 22.10 6.98 0.70 3.66 0.22 8.75 0.91 501.00 676.96
Overhead Expenses Hired labor 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	11.00 0.53 33.94 15.69 7.80 6.12 90.40 86.38 5.94 257.81 825.09 197.69	5.74 0.14 42.93 23.38 10.52 14.02 91.77 125.73 9.58 323.81 1,027.72 -76.31	7.10 34.12 13.27 6.87 3.99 50.58 94.56 1.94 212.43 713.43 464.53
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	197.69 69.08 128.61	-76.31 84.85 -161.17	464.53 73.05 391.48
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	2.79 4.06 3.71 4.05	3.51 5.12 5.06 5.48	2.41 3.43 2.65 3.00
Net value per unit Machinery cost per acre Est. labor hours per acre	4.67 197.88 2.48	4.68 251.27 2.88	4.88 180.79 2.49

#### Corn on Cash Rent

	Avg. Of <u>All Farms</u>	Low 20%	High 20%
Number of farms	89	17	18
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	385.08 197.76 100.00 4.66 1.08 922.29 6.60 45.98 5.92 980.79	694.27 193.98 100.00 4.56 - 883.69 - 30.22 - 913.91	268.80 205.45 100.00 4.75 976.78 36.61 78.35 26.24 1,117.97
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drying expense Storage Fuel & oil Repairs Custom hire Hired labor Land rent Machinery leases Marketing Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	119.37 235.63 46.26 31.26 9.22 0.56 29.73 55.47 21.68 3.86 265.33 10.12 2.41 13.55 3.39 847.85 132.93	116.14 256.77 37.69 32.48 9.60 	121.05 179.14 49.36 27.12 6.26 0.17 23.46 43.57 39.46 3.53 243.05 3.49 2.11 3.90 2.36 748.03 369.94
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	13.69 5.34 0.75 12.50 5.62 7.07 6.66 66.08 4.69 122.40 970.25 10.54	31.65 13.48 0.07 13.65 5.12 7.23 10.63 63.34 4.71 149.87 1,057.46 -143.55	2.86 1.87 10.31 4.07 3.64 1.97 68.21 3.02 95.95 843.98 273.99
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	10.54 67.88 -57.34	-143.55 58.74 -202.29	273.99 75.62 198.37
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	4.29 4.91 4.60 4.95	4.68 5.45 5.30 5.60	3.64 4.11 3.42 3.79
Net value per unit Machinery cost per acre Est. labor hours per acre	4.69 185.49 2.34	4.56 204.94 2.19	4.93 174.10 2.19

#### Corn on Share Rent

	Avg. Of All Farms
Number of farms	15
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Hedging gains/losses per acre Crop insurance per acre Other crop income per acre Gross return per acre	189.57 191.35 52.38 4.76 476.90 2.34 28.68 3.68 511.59
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	70.43 121.74 30.65 18.31 3.54 0.39 22.28 44.30 14.52 4.95 6.41 0.17 0.87 2.17 1.47 342.19 169.41
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	4.67 7.09 0.09 8.23 4.23 3.58 2.86 67.93 10.84 109.52 451.71 59.88
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	59.88 59.87 0.02
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	3.41 4.51 4.16 4.76
Net value per unit Machinery cost per acre Est. labor hours per acre	4.78 157.54 2.12

### Corn on Owned Land -- Trend

	2019	2020	2021		2023
Number of farms	56	65	70	63	68
Acres Yield per acre (bu.) Operators share of yield % Value per bu.	164.44 162.48 100.00 3.82	165.25 202.70 100.00 4.21	158.59 208.30 100.00 5.68	170.62 197.22 100.00 6.69	180.27 203.31 100.00 4.69
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	620.95 0.17 67.04 75.85 764.00	853.58 -4.31 5.70 49.40 904.38	1,183.22 0.82 10.84 2.83 1,197.72	0.66 1,319.58 8.90 21.07 2.77 1,352.31	0.07 952.64 -3.67 54.51 19.30 1,022.78
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Drying expense Storage 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	114.89 109.90 32.44 15.05 20.46 0.44 21.43 47.04 12.88 4.02 1.22 1.65 0.25 0.90 12.92 3.10 398.60 365.40	109.91 106.82 33.92 15.63 6.59 0.56 20.90 58.26 8.78 2.63 1.71 0.06 0.53 2.12 12.23 3.05 383.71 520.66	109.10 125.24 37.23 26.68 7.99 0.19 23.77 53.90 9.47 2.91 2.40 	113.56 164.40 51.37 32.42 19.85 0.08 33.94 63.59 13.26 2.94 0.63 0.09 0.58 1.86 9.73 3.28 511.59 840.72	124.47 211.10 50.09 28.11 9.92 0.04 30.72 61.58 18.55 3.92 10.23 0.22 0.93 1.84 12.70 2.87 567.28 455.50
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	5.45 2.88 0.70 29.65 10.71 6.45 4.84 73.59 71.29 4.16 209.72 608.32 155.68	13.58 3.63 0.48 29.21 13.48 6.88 5.43 60.97 71.30 5.82 210.77 594.49 309.89	11.13 8.58 0.54 31.61 12.08 7.24 5.41 70.23 4.38 224.01 634.39 563.33	11.72 9.89 0.01 30.88 14.99 7.25 4.85 64.37 82.28 7.97 234.21 745.80 606.52	11.00 0.35 0.53 33.94 15.69 7.80 6.12 90.40 86.38 5.59 257.81 825.09 197.69
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	6.98 162.66 56.47 106.19	57.25 367.14 65.63 301.52	0.05 563.38 72.60 490.78	606.52 77.31 529.21	197.69 69.08 128.61
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	2.45 3.74 2.82 3.17	1.89 2.93 2.40 2.72	1.97 3.05 2.98 3.32	2.59 3.78 3.61 4.00	2.79 4.06 3.71 4.05
Net value per unit Machinery cost per acre Est. labor hours per acre	3.82 148.48 2.41	4.19 151.50 2.47	5.68 158.34 2.34	6.73 192.27 2.47	4.67 197.88 2.48

#### Corn on Rented Land -- Trend

		2020	2021		2023
Number of farms	78	88	89	85	89
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	326.62	377.55	393.38	384.29	385.08
	165.90	201.03	197.43	197.75	197.76
	100.00	100.00	100.00	100.00	100.00
	3.80	4.25	5.59	6.66	4.66
	0.09	0.11	0.07	0.22	1.08
	630.03	854.95	1,103.89	1,317.94	922.29
	0.06	-12.40	-4.05	0.26	6.60
	54.33	7.19	11.53	5.71	45.98
	72.18	49.74	2.28	4.41	5.92
	756.60	899.47	1,113.65	1,328.32	980.79
Direct Expenses Seed 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	110.64	103.61	104.59	112.28	119.37
	110.66	104.28	119.11	164.83	235.63
	33.97	31.74	35.39	52.05	46.26
	18.25	17.93	25.93	32.96	31.26
	23.97	7.40	7.91	10.61	9.22
	0.60	0.87	0.76	0.51	0.56
	23.69	20.67	24.75	33.35	29.73
	39.10	43.62	52.42	59.13	55.47
	11.75	8.89	14.12	17.11	21.68
	6.68	3.28	3.78	4.49	3.86
	204.67	202.78	223.99	244.57	265.33
	5.37	2.84	8.09	1.35	10.12
	0.76	0.59	0.31	0.28	0.17
	1.39	2.27	1.64	1.56	2.41
	16.49	12.98	6.09	8.61	13.55
	2.91	3.68	4.04	2.81	3.22
	610.89	567.43	632.94	746.50	847.85
	145.71	332.04	480.71	581.82	132.93
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	3.58	11.58	13.86	13.66	13.69
	7.36	12.12	7.36	15.14	5.34
	1.76	0.84	0.70	0.61	0.75
	10.51	11.00	11.56	13.74	12.50
	5.87	5.24	4.88	6.17	5.62
	7.84	5.98	6.01	6.01	7.07
	5.80	4.80	4.57	4.78	6.66
	61.51	58.05	59.36	61.51	66.08
	5.17	6.64	4.20	6.18	4.69
	109.39	116.24	112.50	127.80	122.40
	720.28	683.67	745.44	874.30	970.25
	36.31	215.80	368.21	454.02	10.54
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	4.63 40.94 58.76 -17.82	50.63 266.43 58.84 207.58	0.02 368.23 68.76 299.47	454.02 78.11 375.91	10.54 67.88 -57.34
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	3.68	2.82	3.21	3.77	4.29
	4.34	3.40	3.78	4.42	4.91
	3.55	2.93	3.73	4.37	4.60
	3.90	3.22	4.07	4.76	4.95
Net value per unit	3.80	4.19	5.57	6.66	4.69
Machinery cost per acre	147.08	141.88	161.86	181.90	185.49
Est. labor hours per acre	2.29	2.04	2.06	2.36	2.34

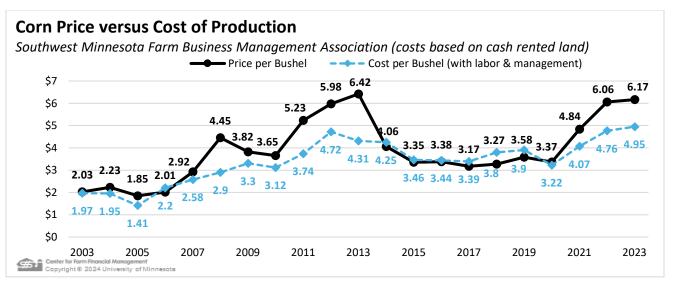


Figure 22: Corn Price versus Cost of Production Trend

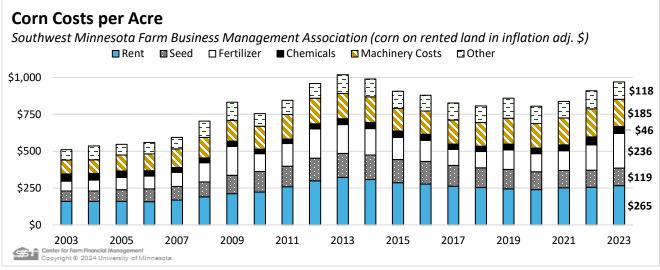


Figure 23: Major Corn Input Costs per Acre Over Time

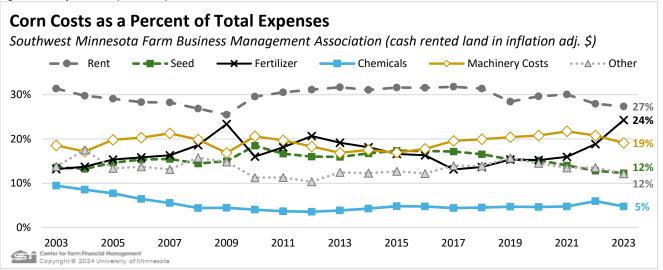


Figure 24: Major Corn Input Costs as a Percent of Total Expenses Over Time

#### Soybeans on Owned Land

	Avg. Of All Farms	_ Low 20%	High 20%
Number of farms	62	12	13
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Hedging gains/losses per acre Crop insurance per acre Other crop income per acre Gross return per acre	173.45	74.20	165.63
	54.01	44.18	60.51
	100.00	100.00	100.00
	12.74	12.52	12.65
	687.92	553.20	765.69
	3.55	-	-
	24.15	32.64	22.34
	3.46	-	-
	719.07	585.85	788.03
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Storage Fuel & oil Repairs Custom hire Hired labor Machinery leases Marketing Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	56.27 65.72 71.27 20.99 0.11 22.48 54.17 13.32 3.29 10.90 1.70 9.71 3.14 333.05 386.02	56.51 90.24 82.49 22.19 0.50 19.82 77.68 7.04 0.71 4.05 4.63 3.52 0.70 370.07 215.78	56.62 55.19 64.70 20.76 17.14 40.31 3.96 4.47 3.90 1.10 2.23 2.48 272.86 515.17
Overhead Expenses  Hired labor 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	8.98	5.04	7.58
	33.36	32.32	35.51
	13.03	25.32	9.17
	5.58	6.38	4.71
	6.07	9.78	2.88
	86.04	138.99	31.34
	69.95	92.02	77.72
	4.87	10.55	3.16
	227.88	320.41	172.06
	560.93	690.47	444.92
	158.14	-104.63	343.11
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	158.14	-104.63	343.11
	54.07	66.42	51.09
	104.07	-171.05	292.01
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	6.17	8.38	4.51
	10.39	15.63	7.35
	9.81	14.89	6.98
	10.81	16.39	7.83
Net value per unit	12.80	12.52	12.65
Machinery cost per acre	162.23	185.63	134.98
Est. labor hours per acre	1.94	2.66	1.95

#### Soybeans on Cash Rent

	Avg. Of All Farms	Low 20%	High 200/
	_AII FalliiS	Low 20%	<u> High 20%</u>
Number of farms	85	17	17
Acres	350.42	201.68	258.61
Yield per acre (bu.)	54.11	45.62	62.14
Operators share of yield % Value per bu.	100.00 12.72	100.00 12.65	100.00 12.80
Total product return per acre	688.30	577.25	795.32
Hedging gains/losses per acre	3.32	5.32	4.39
Crop insurance per acre	18.28	42.06	12.61
Other crop income per acre Gross return per acre	7.91 717.82	624.63	- 812.31
·	111.02	024.00	012.01
Direct Expenses	55.26	59.91	63.02
Seed and plants Fertilizer	65.47	64.00	59.05
Crop chemicals	70.72	75.10	68.99
Crop insurance	25.95	24.52	22.07
Storage	0.71 24.64	24.82	22.32
Fuel & oil Repairs	24.64 44.45	62.93	22.32 36.72
Custom hire	13.84	17.31	20.38
Hired labor	4.61	13.40	4.76
Land rent	264.09 9.72	274.96	220.65 4.10
Machinery leases Marketing	2.46	15.50 1.00	1.36
Operating interest	10.14	20.08	5.19
Miscellaneous	3.29	1.57	2.80
Total direct expenses per acre	595.33 122.48	655.09 -30.46	531.43 280.88
Return over direct exp per acre	122.40	-30.40	200.00
Overhead Expenses	44.00	0.00	4.00
Hired labor Machinery leases	11.02 5.36	6.86 0.07	1.03 1.39
Building leases	0.70	0.01	1.00
Farm insurance	10.20	12.54	7.70
Utilities	4.80	5.76	4.95
Dues & professional fees Interest	5.08 5.20	7.93 5.41	3.04 4.84
Mach & bldg depreciation	55.55	74.00	61.51
Miscellaneous	3.60	3.46	2.53
Total overhead expenses per acre	101.51	116.04	87.00
Total dir & ovhd expenses per acre Net return per acre	696.84 20.97	771.13 -146.50	618.43 193.88
Government payments Net return with govt pmts	20.97	-146.50	193.88
Labor & management charge	55.20	57.80	68.43
Net return over lbr & mgt	-34.22	-204.30	125.45
Cost of Production			
Total direct expense per bu.	11.00	14.36	8.55
Total dir & ovhd exp per bu.	12.88	16.90	9.95
Less govt & other income With labor & management	12.33 13.35	15.87 17.13	9.68 10.78
· ·			
Net value per unit	12.78	12.77	12.87
Machinery cost per acre Est. labor hours per acre	150.37 1.89	189.11 1.67	142.01 1.92
Lot. labor floars per dore	1.00	1.07	1.32

#### Soybeans on Share Rent

	Avg. Of All Farms
Number of farms	12
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Crop insurance per acre Gross return per acre	217.43 51.88 53.28 12.65 349.71 8.80 358.51
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Hired labor Machinery leases Marketing Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	31.65 37.47 46.82 16.34 16.02 34.29 9.99 5.44 1.38 0.86 1.57 1.35 203.17
Overhead Expenses Hired labor Machinery leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	3.13 5.70 5.36 3.08 2.58 1.71 50.83 6.30 78.68 281.85 76.66
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	76.66 43.97 32.69
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	7.35 10.20 9.88 11.47
Net value per unit Machinery cost per acre Est. labor hours per acre	12.65 113.78 1.69

#### Soybeans on Owned Land -- Trend

	<u> </u>				
	<u> 2019</u>	2020	2021	<i>2022</i>	2023
Number of farms	53	66	57	64	62
Acres	163.16	159.11	161.59	164.30	173.45
Yield per acre (bu.)	49.28	58.74	58.62	55.17	54.01
Operators share of yield %	100.00	100.00	100.00	100.00	100.00
Value per bu.	8.87	11.01	12.74	14.46	12.74
Total product return per acre	437.02	646.97	746.66	797.86	687.92
Hedging gains/losses per acre	-	-5.30	1.82	6.27	3.55
Crop insurance per acre	11.73	4.32	1.93	11.89	24.15
Other crop income per acre	74.14 522.90	22.82 668.80	0.22 750.62	1.41 817.43	3.46 719.07
Gross return per acre	322.90	000.00	750.62	017.43	719.07
Direct Expenses Seed	54.97	52.46	51.21	52.42	56.27
Fertilizer	26.85	31.87	41.38	49.46	65.72
Crop chemicals	39.03	46.33	49.99	68.52	71.27
Crop insurance	15.70	14.88	22.54	28.64	20.99
Storage	0.56	0.17	0.16	0.11	0.11
Fuel & oil	18.52	15.85	19.01	28.54	22.48
Repairs	41.17	39.39	47.45	46.43	54.17
Custom hire	8.28	8.23	8.46	14.17	13.32
Hired labor	3.84	3.69	3.71	4.17	3.29
Machinery leases	2.29	2.10	3.57	1.58	10.90
Utilities	0.85	0.06	-	-	0.07
Marketing	0.87	3.01	2.04	1.49	1.70
Operating interest	9.69	9.71	7.06	7.16	9.71
Miscellaneous	3.32	4.07	3.01	3.16	3.08
Total direct expenses per acre	225.94	231.84	259.59	305.86	333.05
Return over direct exp per acre	296.95	436.97	491.04	511.57	386.02
Overhead Expenses					
Hired labor	5.11	9.51	8.56	7.59	8.98
Machinery leases	1.36	3.95	4.13	7.36	0.10
Building leases	0.76	0.16	0.54	0.01	0.36
RE & pers. property taxes	25.57	32.28	30.47	34.17	33.36
Farm insurance	9.53	10.40	9.89	11.05	13.03
Utilities	5.13 4.09	6.02 3.96	5.25 5.54	6.46 4.00	5.58 6.07
Dues & professional fees Interest	65.51	64.03	62.21	63.65	86.04
Mach & bldg depreciation	53.29	55.60	56.12	66.89	69.95
Miscellaneous	3.72	4.61	3.11	5.78	4.40
Total overhead expenses per acre	174.07	190.51	185.82	206.98	227.88
Total dir & ovhd expenses per acre	400.01	422.35	445.41	512.83	560.93
Net return per acre	122.89	246.46	305.22	304.59	158.14
Government payments	4.24	57.39	0.04	-	_
Net return with govt pmts	127.13	303.84	305.26	304.59	158.14
Labor & management charge	47.40	52.68	57.88	65.03	54.07
Net return over lbr & mgt	79.73	251.17	247.38	239.56	104.07
Cost of Production					
Total direct expense per bu.	4.58	3.95	4.43	5.54	6.17
Total dir & ovhd exp per bu.	8.12	7.19	7.60	9.30	10.39
Less govt & other income	6.29	5.84	7.53	8.94	9.81
With labor & management	7.25	6.74	8.52	10.12	10.81
Net value per unit	8.87	10.92	12.77	14.58	12.80
Machinery cost per acre	117.99	115.36	130.65	155.12	162.23
Est. labor hours per acre	2.20	1.89	1.91	2.01	1.94

#### Soybeans on Rented Land -- Trend

	-				
	2019	2020	<i>2021</i>	<i>2022</i>	2023
Number of farms	81	85	82	85	85
Acres	347.65	352.89	379.36	350.58	350.42
Yield per acre (bu.)	48.36	57.12	56.89	52.23	54.11
Operators share of yield %	100.00	100.00	100.00	100.00	100.00
Value per bu.	8.83	11.01	12.93	14.14	12.72
Total product return per acre	427.19	629.21	735.76	738.39	688.30
Hedging gains/losses per acre	0.04	-31.08	-2.17	4.15	3.32
Crop insurance per acre	21.72	5.97	2.09	8.35	18.28
Other crop income per acre Gross return per acre	79.57 528.52	22.00 626.10	2.68 738.35	1.85 752.73	7.91 717.82
·	020.02	323.13	, 55.55	, 62 6	7.7.102
Direct Expenses Seed	54.10	48.62	49.41	55.10	55.26
Fertilizer	23.90	30.36	35.47	50.75	65.47
Crop chemicals	43.28	47.41	42.96	68.42	70.72
Crop insurance	17.14	15.24	24.27	28.55	25.95
Storage	0.45	0.29	0.31	0.28	0.71
Fuel & oil	19.92	15.67	19.25	27.46	24.64
Repairs	33.42	33.17	39.58	51.26	44.45
Custom hire	8.15	7.06	10.09	13.47	13.84
Hired labor	8.18	2.96	4.01	3.86	4.61
Land rent	201.69	210.25	224.55	243.24	264.09
Machinery leases	10.94	2.88	8.03	1.39	9.72
Hauling and trucking	0.20	0.51	0.29	0.18	0.11
Marketing	1.70	2.40	1.30	1.63	2.46
Operating interest	13.87	9.01	4.30	6.35	10.14
Miscellaneous	3.35	2.75	4.00	2.99	3.17
Total direct expenses per acre Return over direct exp per acre	440.30 88.22	428.58 197.52	467.82 270.53	554.94 197.79	595.33 122.48
Return over uncer exp per uere	00.22	177.32	270.00	177.77	122.40
Overhead Expenses	2.02	11 44	0.04	12.21	11.02
Hired labor	2.92 4.81	11.44 12.47	9.84 6.93	13.31 14.02	11.02 5.36
Machinery leases Building leases	1.24	0.82	0.45	0.49	0.70
Farm insurance	6.97	8.01	8.33	9.64	10.20
Utilities	4.11	3.81	3.88	4.38	4.80
Dues & professional fees	4.40	3.64	4.18	3.75	5.08
Interest	3.30	3.34	3.16	3.50	5.20
Mach & bldg depreciation	41.63	41.96	50.47	48.58	55.55
Miscellaneous	3.42	4.99	2.93	4.74	3.60
Total overhead expenses per acre	72.80	90.47	90.17	102.41	101.51
Total dir & ovhd expenses per acre	513.10	519.05	557.99	657.35	696.84
Net return per acre	15.42	107.05	180.36	95.38	20.97
Government payments	3.24	47.08	0.01	-	-
Net return with govt pmts	18.66	154.13	180.37	95.38	20.97
Labor & management charge	45.22	46.39	55.79	60.80	55.20
Net return over lbr & mgt	-26.56	107.74	124.58	34.58	-34.22
Cost of Production					
Total direct expense per bu.	9.10	7.50	8.22	10.62	11.00
Total dir & ovhd exp per bu.	10.61	9.09	9.81	12.58	12.88
Less govt & other income	8.45	8.32	9.76	12.31	12.33
With labor & management	9.38	9.13	10.74	13.47	13.35
Net value per unit	8.83	10.47	12.90	14.22	12.78
Machinery cost per acre	116.38	109.89	130.47	151.73	150.37
Est. labor hours per acre	1.84	1.64	1.67	1.79	1.89

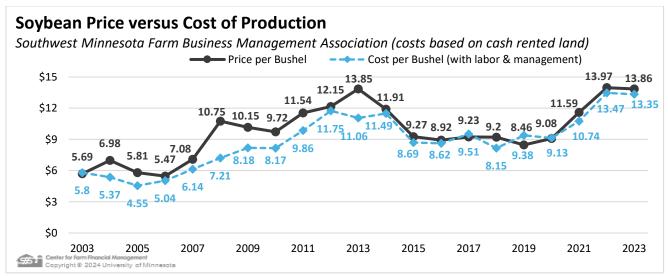


Figure 25: Soybean Prices versus Cost of Production Trend

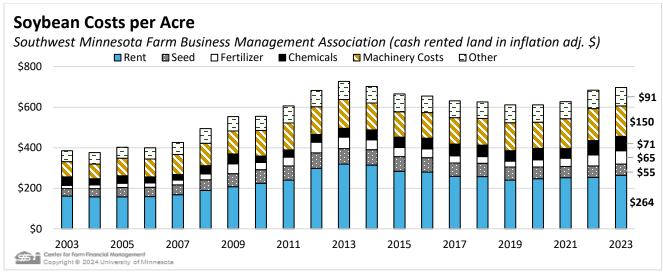


Figure 26: Major Soybean Input Costs Over Time

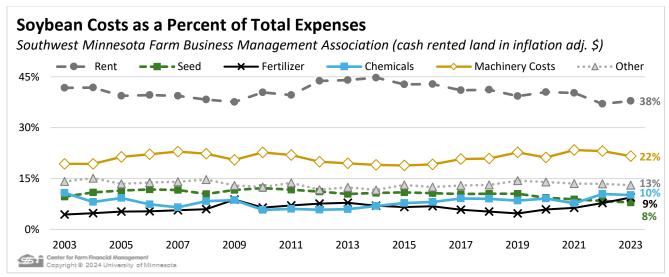


Figure 27: Major Soybean Input Costs as a Percent of Total Expenses Over Time

### Corn Silage

	Owned Land	Cash Rent
Number of farms	7	9
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Hedging gains/losses per acre Crop insurance per acre Gross return per acre	141.44 23.75 100.00 41.77 992.28 -5.53 3.56 990.32	69.72 24.59 100.00 43.56 1,071.39 -0.76 4.43 1,075.05
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Land rent Machinery leases Marketing Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	204.04 324.03 62.71 30.88 24.56 64.57 0.87 3.84 0.72 30.53 1.55 443.22 547.10	173.51 276.93 49.72 25.12 24.83 42.91 45.40 416.21 0.38 0.29 13.06 1.81 694.79 380.26
Overhead Expenses  Hired labor  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	6.72 1.01 68.41 10.04 7.94 3.98 148.83 232.32 2.90 276.35 719.57 270.75	7.78 5.70 6.86 3.23 3.56 157.13 3.18 119.57 814.36 260.69
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	270.75 42.36 228.39	260.69 49.31 211.38
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	18.66 30.29 30.38 32.16	28.25 33.11 32.96 34.97
Net value per unit Machinery cost per acre Est. labor hours per acre	41.54 178.37 1.50	43.53 185.46 1.64

#### Corn Silage on Owned Land -- Trend

	2019	2020	2021	2022	2023
Number of farms	13	11	10	10	7
Acres	135.07	112.34	90.05	93.66	141.44
Yield per acre (ton)	17.54	20.86	24.52	23.24	23.75
Operators share of yield %	100.00	100.00	100.00	100.00	100.00
Value per ton	32.94	35.50	46.92	53.85	41.77
Total product return per acre	577.60	740.59	1,150.26	1,251.23	992.28
Hedging gains/losses per acre	-	-3.41	0.86	- ( 40	-5.53
Crop insurance per acre	98.78 71.25	40.21	-	6.49	3.56
Other crop income per acre	71.25 747.63	49.31 786.49	1,151.12	1,257.72	990.32
Gross return per acre	747.03	700.49	1,151.12	1,237.72	990.32
Direct Expenses Seed	93.22	97.57	109.20	125.64	114.71
Fertilizer	103.98	77.73	109.20	171.55	177.11
Crop chemicals	25.18	29.25	33.41	37.26	39.88
Cover crop expense	23.10	5.54	-	57.20	37.00
Crop insurance	12.16	12.86	27.61	28.16	19.52
Fuel & oil	18.99	14.97	26.01	27.07	17.29
Repairs	29.22	41.13	51.17	43.29	44.23
Custom hire	21.14	10.01	11.41	6.71	0.87
Hired labor	5.51	4.88	4.92	5.11	-
Machinery leases	4.14	1.50	0.35	2.45	3.84
Operating interest	9.79	9.83	8.61	6.91	24.10
Miscellaneous	2.79	2.89	1.11	1.43	1.68
Total direct expenses per acre	326.13	308.17	383.23	455.58	443.22
Return over direct exp per acre	421.50	478.32	767.89	802.14	547.10
Overhead Expenses					
Hired labor	2.28	3.41	2.38	3.96	5.88
Machinery leases	6.24	6.37	11.83	11.65	0.00
Building leases	0.40	-	1.13	20.07	1.01
RE & pers. property taxes	31.56	35.55	35.73	38.86	38.04
Farm insurance Utilities	4.34 3.81	5.79 3.85	7.15 4.66	5.14 4.64	8.11 5.48
Dues & professional fees	3.13	2.74	2.29	2.64	2.55
Interest	51.34	36.13	48.01	73.12	87.73
Mach & bldg depreciation	73.38	75.29	66.17	129.93	125.10
Miscellaneous	1.95	4.21	2.05	3.51	2.46
Total overhead expenses per acre	178.42	173.35	181.40	273.45	276.35
Total dir & ovhd expenses per acre	504.55	481.52	564.64	729.03	719.57
Net return per acre	243.08	304.97	586.48	528.69	270.75
Government payments	1.70	59.06	0.05	-	-
Net return with govt pmts	244.78	364.03	586.54	528.69	270.75
Labor & management charge	53.71	59.75	60.37	67.80	42.36
Net return over Ibr & mgt	191.07	304.28	526.16	460.90	228.39
Cost of Production					
Total direct expense per ton	18.60	14.77	15.63	19.61	18.66
Total dir & ovhd exp per ton	28.77	23.08	23.03	31.37	30.29
Less govt & other income	18.98	18.05	22.99	31.10	30.38
With labor & management	22.04	20.91	25.46	34.01	32.16
Net value per unit	32.94	35.33	46.95	53.85	41.54
Machinery cost per acre	150.47	144.00	163.58	198.34	178.37
Est. labor hours per acre	1.76	1.60	1.56	1.60	1.50

#### Hay, Alfalfa

	Owned <u>Land</u>	Cash Rent
Number of farms	8	6
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Crop insurance per acre Gross return per acre	89.75 5.04 100.00 185.91 936.43	22.29 4.25 100.00 169.61 720.94 4.22 725.16
Direct Expenses Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Land rent Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	51.91 0.32 0.99 17.19 48.32 0.55 - 2.79 14.07 1.23 122.43 814.00	140.41 10.05 15.25 34.66 61.96 15.66 230.99 44.86 13.79 - 478.01 247.15
Overhead Expenses  Hired labor  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	6.44 2.11 53.34 7.49 6.68 4.28 170.81 166.21 2.32 290.04 412.47 523.97	11.23 - 14.19 10.52 2.61 3.14 65.32 5.24 90.36 568.37 156.79
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	523.97 40.77 483.19	156.79 94.90 61.89
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	24.31 81.89 81.89 89.98	112.46 133.72 132.73 155.05
Net value per unit Machinery cost per acre Est. labor hours per acre	185.91 176.86 1.60	169.61 156.83 4.55

#### Hay, Alfalfa on Owned Land -- Trend

	<u>2019</u>				<u>2023</u>
Number of farms	10	10	11	8	8
Acres	64.63	60.63	60.05	79.88	89.75
Yield per acre (ton)	5.38	4.47	6.30	5.93	5.04
Operators share of yield %	100.00	100.00	100.00	100.00	100.00
Value per ton	140.86	135.42	188.37	194.40	185.91
Total product return per acre	758.09	605.70	1,186.98	1,153.50	936.43
Other crop income per acre	71.32	13.63	-	-	-
Gross return per acre	829.41	619.33	1,186.98	1,153.50	936.43
Direct Expenses					
Seed	4.57	0.26	-	-	-
Fertilizer	63.66	59.25	95.13	122.12	51.31
Crop chemicals	2.96	-	1.93	-	0.32
Crop insurance	1.35	5.90	2.66	1.14	0.99
Fuel & oil	19.83	16.31	21.84	30.10	13.13
Repairs	25.05	36.14	42.40	46.04	45.12
Custom hire	13.38	1.90	2.27	0.91	0.55
Hired labor	2.22	-	-	-	-
Machinery leases	4.69	1.76	2.64	4.19	1.39
Operating interest	7.58	9.82	5.65	5.74	8.38
Miscellaneous	0.82	2.56	1.77	0.67	1.23
Total direct expenses per acre	146.10	133.92	176.30	210.91	122.43
Return over direct exp per acre	683.31	485.41	1,010.68	942.59	814.00
Overhead Expenses	2.42			7.00	5.00
Hired labor	3.63	4.61	6.47	7.33	5.23
Machinery leases	4.91	7.62	18.52	11.21	0.39
Building leases	1.78	-	2.26	-	2.11
RE & pers. property taxes	32.81	36.54	34.93	38.96	38.28
Farm insurance	6.84	7.92	9.38	7.93	7.01
Utilities	4.73	5.60	6.42	6.09	5.60
Dues & professional fees	3.76	4.06	3.90	3.66	3.46
Interest	44.81	40.47	68.56 73.13	69.64	97.33
Mach & bldg depreciation	82.89 1.88	88.52 5.49	73.13	169.27 2.86	129.27 1.37
Miscellaneous	188.04	200.82	6.43 230.00	2.86 316.96	290.04
Total dir & ovhd expenses per acre			406.30		412.47
Total dir & ovhd expenses per acre Net return per acre	334.14 495.27	334.74 284.59	780.68	527.87 625.63	523.97
·	473.27	204.57	700.00	023.03	525.77
Government payments	1.57	56.99	-	-	-
Net return with govt pmts	496.85	341.58	780.68	625.63	523.97
Labor & management charge	56.92	59.41	54.55	77.45	40.77
Net return over lbr & mgt	439.93	282.17	726.14	548.18	483.19
Cost of Production					
Total direct expense per ton	27.15	29.94	27.98	35.54	24.31
Total dir & ovhd exp per ton	62.09	74.84	64.48	88.96	81.89
Less govt & other income	48.54	59.05	64.48	88.96	81.89
With labor & management	59.12	72.33	73.14	102.01	89.98
Net value per unit	140.86	135.42	188.37	194.40	185.91
Machinery cost per acre	145.15	138.75	150.16	232.53	176.86
Est. labor hours per acre	1.88	1.56	1.69	1.80	1.60

#### CRP

	Owned Land
Number of farms	10
Acres	33.45
Gross return per acre	155.70
Direct Expenses	
Fuel & oil	4.06
Repairs	8.47
Hired labor	1.10
Land rent	-
Miscellaneous	0.35
Total direct expenses per acre	13.97
Return over direct exp per acre	141.73
Overhead Expenses	
Machinery leases	1.63
Building leases	1.69
RE & pers. property taxes	19.35
Farm insurance	0.93
Utilities	1.11
Dues & professional fees	0.70
Interest	55.61
Mach & bldg depreciation	8.73
Miscellaneous	0.78
Total din % and discussions per acre	90.53
Total dir & ovhd expenses per acre	104.50 51.20
Net return per acre	51.20
Government payments	-
Net return with govt pmts	51.20
Labor & management charge	8.82
Net return over lbr & mgt	42.38
Net value per unit	1.00
Machinery cost per acre	21.72
Est. labor hours per acre	0.24
·	

#### Pasture

	Owned Land	Cash <u>Rent</u>
Number of farms	5	5
Acres	134.80	210.60
Yield per acre (aum)	2.92	2.46
Operators share of yield %	100.00	100.00
Value per aum	17.08	25.36
Total product return per acre	49.78	62.28
Other crop income per acre	-0.70	1.23
Gross return per acre	49.78	63.52
Direct Expenses		
Fertilizer	-	3.33
Crop chemicals	9.66	16.86
Fuel & oil	7.52	6.81
Repairs	8.79	7.41
Land rent	-	119.51
Operating interest	24.01	14.57
Total direct expenses per acre	25.99	105.62
Return over direct exp per acre	23.79	-42.10
Overhead Expenses		
Hired labor	2.67	1.37
RE & pers. property taxes	11.74	-
Farm insurance	5.17	3.31
Utilities	0.91	1.19
Dues & professional fees	0.81	0.48
Interest	72.87	1.06
Mach & bldg depreciation	8.10	7.75
Miscellaneous	2.18	1.21
Total overhead expenses per acre	68.72	11.11
Total dir & ovhd expenses per acre	94.71	116.73
Net return per acre	-44.93	-53.21
Government payments	-	-
Net return with govt pmts	-44.93	-53.21
Labor & management charge	5.38	3.79
Net return over lbr & mgt	-50.31	-57.00
Cost of Production	0.00	40.00
Total direct expense per aum	8.92	43.00
Total dir & ovhd exp per aum	32.49	47.53
Less govt & other income	32.49	47.02
With labor & management	34.33	48.57
Net value per unit	17.08	25.36
Machinery cost per acre	13.54	14.30
Est. labor hours per acre	0.26	0.17

#### Double Crop Cover crop mix

	Cash Rent
Number of farms	6
Acres Gross return per acre	226.64 35.17
Direct Expenses Seed and plants Fuel & oil Repairs Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	36.43 5.12 13.10 5.48 - 60.13 -24.96
Overhead Expenses 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	1.71 0.62 1.85 1.48 11.32 0.59 17.56 77.69 -42.52
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	-42.52 10.71 -53.24
Cost of Production Total direct expense per \$ Total dir & ovhd exp per \$ Less govt & other income With labor & management	- - - -
Net value per unit Machinery cost per acre Est. labor hours per acre	29.43 0.37

### Cover Crop Analysis Southern Minnesota Farms

Corn on Owned Land - Cover Crop Impact

Corn on Owned Land - Cover Crop Impact				
	No _Cover Crop	Grown after <u>Cover Crop</u>	Cover Crop _Enterprise	Combined with Cover Crop
Number of farms	691	11	11	11
Acres	158.22	74.19	74.19	74.19
Yield per acre (bu.)	203.34	186.32	-	-
Operators share of yield %	100.00	100.00	-	-
Value per bu.	4.80	4.68	-	- 4 E O
Other product return per acre Total product return per acre	0.31 975.77	6.58 878.06	1.94	6.58 880.01
Hedging gains/losses per acre	3.59	676.00	1.74	-
Crop insurance per acre	64.56	95.14	_	95.14
Other crop income per acre	2.29	-	5.89	5.89
Gross return per acre	1,046.20	973.21	7.83	981.04
Direct Expenses	10101	440.44	10.50	100.04
Seed	124.21	113.41	19.53	132.94
Fertilizer	247.32 62.86	216.02 68.41	-	216.02 68.41
Crop chemicals Crop insurance	33.02	32.64	<u>-</u>	32.64
Drying expense	17.45	13.85	_	13.85
Storage	1.92	0.99	_	0.99
Fuel & oil	36.31	25.68	4.79	30.48
Repairs	68.36	52.08	7.70	59.79
Custom hire	22.40	6.97	1.26	8.23
Hired labor	5.67	-	-	-
Machinery leases	3.08	3.16	-	3.16
Utilities	1.92 3.42	1.41 0.30	-	1.41 0.30
Hauling and trucking Marketing	3.42 1.41	2.56	<u>-</u>	2.56
Operating interest	13.84	15.26	2.49	17.76
Miscellaneous	2.85	1.83	-	1.83
Total direct expenses per acre	646.04	554.58	35.78	590.36
Return over direct exp per acre	400.17	418.62	-27.95	390.68
Overhead Expenses				
Hired labor	13.14	5.60	0.45	6.05
Machinery leases	2.86 1.04	- 0.11	0.03	0.14
Building leases RE & pers. property taxes	40.07	0.11 32.51	0.03	32.51
Farm insurance	17.99	15.61	1.46	17.07
Utilities	8.16	4.63	1.02	5.65
Dues & professional fees	6.18	5.33	1.00	6.32
Interest	101.93	93.65	1.36	95.01
Mach & bldg depreciation	80.80	50.43	9.71	60.14
Miscellaneous	9.63	8.35	1.59	9.94
Total overhead expenses per acre	281.81	216.21	16.62	232.84
Total dir & ovhd expenses per acre Net return per acre	927.84 118.36	770.80 202.41	52.40 -44.57	823.20 157.84
Government payments	_	_	_	_
Net return with govt pmts	118.36	202.41	-44.57	157.84
Labor & management charge	66.91	64.74	11.31	76.05
Net return over lbr & mgt	51.45	137.67	-55.88	81.79
Cost of Production				
Total direct expense per bu.	3.18	2.98	-	3.17
Total dir & ovhd exp per bu.	4.56	4.14	-	4.42
Less govt & other income	4.22 4.54	3.59	-	3.84
With labor & management	4.54	3.94	-	4.25
Net value per unit	4.81	4.68	-	4.69
Machinery cost per acre	208.23	134.41	23.33	157.74
Est. labor hours per acre	2.76	2.70	0.43	3.13

### Cover Crop Analysis Southern Minnesota Farms

Corn on Cash Rent - Cover Crop Impact

	Corn on Cash Ren	t - Cover Crop Impact		
	No _Cover Crop	Grown after <u>Cover Crop</u>	Cover Crop _Enterprise	Combined with Cover Crop
Number of farms	975	22	22	22
Acres Yield per acre (bu.)	362.63 200.93	237.76 185.52	237.76	237.76
Operators share of yield %	100.00	100.00	-	-
Value per bu.	4.84	5.09	-	-
Other product return per acre	0.34		-	-
Total product return per acre	973.34	944.17	0.39	944.56
Hedging gains/losses per acre Crop insurance per acre	4.33 65.20	120.79	-	120.79
Other crop income per acre	1.67	6.98	3.46	10.44
Gross return per acre	1,044.54	1,071.94	3.85	1,075.78
Direct Expenses	100.47	100.11	05.07	40400
Seed	122.47	108.41	25.87	134.28
Fertilizer Crop chemicals	245.91 60.50	217.42 67.34	1.00	217.42 68.34
Crop insurance	31.82	36.95	1.00	36.95
Drying expense	14.58	19.06	<u>-</u>	19.06
Storage	1.87	5.09	-	5.09
Fuel & oil	34.94	29.13	6.06	35.19
Repairs	64.38	54.35	12.59	66.95
Custom hire	18.93	28.59	3.04	31.63
Hired labor	4.61	1.11	-	1.11
Land rent	265.56	268.24 20.44	-	268.24 20.44
Machinery leases Utilities	5.03 1.69	1.18	-	1.18
Hauling and trucking	3.34	0.61	- -	0.61
Marketing	1.59	1.59	-	1.59
Operating interest	14.27	12.93	3.37	16.29
Miscellaneous	3.14	2.59	0.08	2.67
Total direct expenses per acre	894.63	875.03	52.00	927.03
Return over direct exp per acre	149.90	196.91	-48.15	148.76
Overhead Expenses				
Hired labor	13.62	17.42	4.63	22.05
Machinery leases	3.41	1.81	0.29	2.10
Building leases Farm insurance	1.91 13.83	1.29 11.90	0.35 2.44	1.64 14.34
Utilities	5.84	4.74	1.09	5.84
Dues & professional fees	5.65	7.96	1.89	9.85
Interest	7.78	4.73	1.27	6.00
Mach & bldg depreciation	62.76	52.92	11.93	64.85
Miscellaneous	8.13	13.06	3.39	16.45
Total overhead expenses per acre	122.93	115.84	27.27	143.11
Total dir & ovhd expenses per acre Net return per acre	1,017.56 26.97	990.86 81.07	79.27 -75.42	1,070.13 5.65
Government payments	-	-	-	-
Net return with govt pmts	26.97	81.07	-75.42	5.65
Labor & management charge	60.00	58.58	14.03	72.62
Net return over Ibr & mgt	-33.02	22.49	-89.45	-66.97
Cost of Production	A AE	470		E 00
Total direct expense per bu. Total dir & ovhd exp per bu.	4.45 5.06	4.72 5.34	-	5.00 5.77
Less govt & other income	4.71	4.65	- -	5.06
With labor & management	5.01	4.97	-	5.45
Net value per unit	4.86	5.09		5.09
Machinery cost per acre	188.59	183.72	33.07	216.79
Est. labor hours per acre	2.53	2.32	0.54	2.86

#### Cover Crop Analysis Souther Minnesota Farms

### Soybeans on Owned Land - Cover Crop Impact

	No _Cover Crop	Grown after Cover Crop	Cover Crop Enterprise	Combined with
Number of farms	585	18	18	18
Acres	147.11	84.78	84.78	84.78
Yield per acre (bu.)	56.60	51.76	-	-
Operators share of yield %	100.00	100.00	-	-
Value per bu.	12.71	12.68	-	-
Other product return per acre	0.00	- 454.20	22.02	- 470.41
Total product return per acre	719.60 0.62	656.39	23.02	679.41
Hedging gains/losses per acre Crop insurance per acre	29.34	53.74	-	53.74
Other crop income per acre	1.20	8.19	11.71	19.90
Gross return per acre	750.76	718.33	34.73	753.06
Direct Expenses				
Seed	57.78	56.87	24.13	80.99
Fertilizer	54.09 74.31	54.08	-	54.08
Crop chemicals Crop insurance	28.21	80.82 32.80	-	80.82 32.80
Storage	1.19	0.60	-	0.60
Fuel & oil	23.25	17.85	6.28	24.14
Repairs	46.19	42.02	12.47	54.49
Custom hire	15.69	11.39	4.28	15.68
Hired labor	4.77	3.35	1.84	5.18
Machinery leases	3.02	3.69	-	3.69
Utilities	0.89	0.50	-	0.50
Hauling and trucking	1.59	1.70	-	1.70
Marketing	1.74	2.41	0.48	2.90
Operating interest Miscellaneous	8.65 2.48	6.99 3.75	5.01 0.15	12.01 3.90
Total direct expenses per acre	323.88	318.83	54.65	373.48
Return over direct exp per acre	426.88	399.50	-19.92	379.58
Overhead Expenses				
Hired labor	8.51	4.30	1.54	5.83
Machinery leases	1.41	0.00	0.00	0.00
Building leases	0.79	0.06	0.05	0.11
RE & pers. property taxes Farm insurance	38.03 12.39	28.22 13.18	1.73 3.82	29.95 17.00
Utilities	5.26	2.54	1.25	3.78
Dues & professional fees	4.32	2.59	0.77	3.37
Interest	95.99	75.93	9.74	85.67
Mach & bldg depreciation	54.34	45.40	16.06	61.46
Miscellaneous	6.60	3.46	1.62	5.08
Total overhead expenses per acre	227.63	175.67	36.57	212.24
Total dir & ovhd expenses per acre	551.51	494.50	91.22	585.72
Net return per acre	199.25	223.83	-56.50	167.34
Government payments	-	-	-	-
Net return with govt pmts	199.25	223.83	-56.50	167.34
Labor & management charge Net return over lbr & mgt	44.53 154.72	47.97 175.86	14.54 -71.04	62.51 104.83
Cost of Production				
Total direct expense per bu.	5.72	6.16	_	7.12
Total direct expense per bu.  Total dir & ovhd exp per bu.	9.74	9.55	-	11.17
Less govt & other income	9.19	8.36	-	9.77
With labor & management	9.98	9.28	-	10.96
Net value per unit	12.72	12.68	-	12.96
Machinery cost per acre	139.97	116.36	38.52	154.87
Est. labor hours per acre	1.82	1.96	0.68	2.64

### Cover Crop Analysis Southern Minnesota Farms

# Soybeans on Cash Rent - Cover Crop Impact

	No	Grown after	Cover Crop	Combined with
	_Cover Crop	<u>Cover Crop</u>	<u>Enterprise</u>	Cover Crop
Number of farms	904	26	26	26
Acres	300.46	159.24	159.24	159.24
Yield per acre (bu.)	56.37	54.71	-	-
Operators share of yield %	100.00	100.00	-	-
Value per bu.	12.78	13.08	-	-
Other product return per acre	0.01	-	-	-
Total product return per acre	720.71	715.72	4.36	720.08
Hedging gains/losses per acre	0.86	- 15.04	-	15.04
Crop insurance per acre	25.59	15.04	10.00	15.04
Other crop income per acre	1.49 748.66	5.98 736.74	12.33 16.69	18.31 753.43
Gross return per acre	748.00	730.74	10.09	753.43
Direct Expenses	F/ 0/	F0.0/	24.00	75.00
Seed	56.86	50.96	24.08	75.03
Fertilizer	52.25 71.89	39.63 74.84	0.46	39.63 75.29
Crop chemicals Crop insurance	71.69 29.14	36.51	0.46	75.29 36.51
	1.15	1.18	-	1.18
Storage Fuel & oil	22.84	19.20	6.15	25.35
Repairs	42.65	35.40	12.49	47.88
Custom hire	14.95	21.41	2.91	24.32
Hired labor	4.29	2.44	2.71	2.44
Land rent	263.52	251.99	_	251.99
Machinery leases	4.29	2.46	-	2.46
Utilities	0.94	0.62	-	0.62
Hauling and trucking	1.52	0.54	_	0.54
Marketing	1.62	2.67	0.23	2.90
Operating interest	9.16	8.66	3.35	12.01
Miscellaneous	2.93	2.64	-	2.64
Total direct expenses per acre	579.99	551.15	49.66	600.81
Return over direct exp per acre	168.67	185.59	-32.97	152.62
Overhead Expenses				
Hired labor	8.26	13.12	4.93	18.05
Machinery leases	2.62	1.27	0.31	1.59
Building leases	1.21	0.54	0.26	0.80
Farm insurance	9.21	7.29	2.02	9.31
Utilities	3.83	2.73	1.13	3.86
Dues & professional fees	3.79	5.92	1.93	7.85
Interest	5.06	4.22	1.77	5.99
Mach & bldg depreciation	41.41	39.55 8.90	13.44 2.82	52.99 11.71
Miscellaneous Total overhead expenses per acre	5.28 80.66	83.54	28.62	112.16
Total dir & ovhd expenses per acre	660.65	634.68	78.28	712.96
Net return per acre	88.01	102.06	-61.59	40.47
Government payments	_	_	_	_
Net return with govt pmts	88.01	102.06	-61.59	40.47
Labor & management charge	41.30	40.14	13.81	53.95
Net return over lbr & mgt	46.71	61.91	-75.40	-13.49
Cost of Production				
Total direct expense per bu.	10.29	10.07	_	10.96
Total dir & ovhd exp per bu.	11.72	11.60	-	13.00
Less govt & other income	11.22	11.22	-	12.40
With labor & management	11.96	11.95	-	13.38
Net value per unit	12.80	13.08	_	13.13
Machinery cost per acre	128.27	117.81	34.94	152.75
Est. labor hours per acre	1.67	1.54	0.56	2.10
por doro	1.01		0.00	2.10

### Cover Crop Analysis Southern Minnesota Farms

### Corn Silage on Owned & Rented Land - Cover Crop Impact

	suage on onnea a ner	rea Lana Cover Crop i	puct	
	No _Cover Crop	Grown after <u>Cover Crop</u>	Cover Crop <u>Enterprise</u>	Combined with C <u>over Crop</u>
Number of farms	174	10	10	10
Acres	104.46	37.94	37.94	37.94
Yield per acre (ton)	21.76	19.54	-	-
Operators share of yield %	100.00	100.00	-	-
Value per ton	46.54	47.17	-	-
Total product return per acre	1,012.85	921.91	17.18	939.09
Hedging gains/losses per acre	-0.30	-	-	-
Crop insurance per acre	93.68	10.66	-	10.66
Gross return per acre	1,106.22	932.57	17.18	949.75
Direct Expenses				
Seed	127.02	118.31	23.49	141.81
Fertilizer	178.04	177.94	-	177.94
Crop chemicals	63.49	51.28	-	51.28
Crop insurance	19.76	23.67	-	23.67
Packaging and supplies	7.24	8.68	6.66	15.35
Fuel & oil	39.73	29.00	10.93	39.93
Repairs	70.71	45.68	15.94	61.62
Custom hire	81.86	65.36	13.80	79.17
Hired labor	7.61	-	-	-
Land rent	166.17	114.02	-	114.02
Machinery leases	2.41	1.70	0.08	1.78
Utilities	1.50	1.90	-	1.90
Operating interest	9.87	23.79	7.01	30.80
Miscellaneous	6.44	2.63	0.01	2.64
Total direct expenses per acre	781.85	663.99	77.92	741.91
Return over direct exp per acre	324.37	268.59	-60.75	207.84
Overhead Expenses				
Hired labor	22.26	6.30	2.67	8.97
Machinery leases	2.83	0.01	0.00	0.01
Building leases	3.48	0.90	0.19	1.09
RE & pers. property taxes	7.99	12.98	-	12.98
Farm insurance	11.05	11.88	3.61	15.49
Utilities	5.02	1.98	0.92	2.90
Dues & professional fees	4.09	3.20	0.87	4.07
Interest	26.56	47.39	1.64	49.03
Mach & bldg depreciation	57.50	38.76	14.18	52.95
Miscellaneous	5.69	2.98	0.90	3.88
Total overhead expenses per acre	146.47	126.38	24.98	151.36
Total dir & ovhd expenses per acre	928.32	790.37	102.90	893.27
Net return per acre	177.90	142.20	-85.73	56.48
Government payments	_	_	_	_
Net return with govt pmts	177.90	142.20	-85.73	56.48
Labor & management charge	41.81	42.22	13.70	55.91
Net return over lbr & mgt	136.10	99.99	-99.42	0.56
Cost of Production				
Total direct expense per ton	35.93	33.98	-	37.04
Total dir & ovhd exp per ton	42.66	40.44	_	44.60
Less govt & other income	38.37	39.90	_	44.07
With labor & management	40.29	42.06	-	46.86
Net value per unit	46.53	47.17	-	46.89
Machinery cost per acre	253.47	180.74	54.77	235.51
Est. labor hours per acre	3.29	2.69	0.90	3.59
2011 10010 por doro	5.27	2.07	3.73	5.57

# **Livestock Reports**

The Livestock Enterprise Analysis tables show the average physical production, gross margin over purchase costs, direct costs, overhead costs, and net returns per unit.

The livestock enterprise summaries include data from both Southwest Minnesota Farm Management Association farms and Minnesota State Farm Business Management program farms. This provides a greater number of farms reporting for each enterprise, providing more accurate benchmark information. Minnesota State FBM programs are distributed across the state and include over 2,400 participating farms. We want to thank the Minnesota State FBM program and participating producers for making this data available to be included in this report.

The "Dairy" table, if included, contains the information for only the milking herd (which includes dry cows). "Dairy Replacement Heifers" are those heifers kept for replacement into the milking herd. The "Dairy and Replacement Heifers" table is for the whole herd and includes those farms in the "Dairy" and "Dairy Replacement Heifers" tables; it does not include "Dairy Steers."

Gross Margin is the accrual gross value added by the enterprise. It includes income from sale of offspring and livestock products, cull income, non-cash transfers to other enterprises, and the value of production used in the home or for feed. It also includes the value of inventory changes from beginning to end of year. The cost of livestock purchased, and value of animals transferred in are deducted. Lastly, other income sources, like government payments, are added for inclusion in the gross margin calculation. Government program payments included for eligible livestock in the 2023 analysis include Livestock Indemnity Program (LIP); Organic Dairy Marketing Assistance Program (ODMAP); Dairy Margin Coverage (DMC) and MN DAIRI 2.0 payments; and EQIP and/or CSP funds received for annual production expenses. Additionally, livestock insurance income from livestock gross margin (LGM), livestock revenue protection (LRP), and dairy revenue protection (DRP) is included.

Net Return is the amount contributed by the enterprise toward operator labor, management, and equity capital. Any wages and benefits paid to the operator are removed from labor costs (and added to Labor and Management Charge) so that all farms are on equal footing.

Net Return Over Labor and Management is the return remaining after deducting an opportunity cost for unpaid labor and management. This is the return to equity capital.

Cost of Production shows the average cost per unit sold in each cost category. Total Direct and Overhead Expense per Unit is the breakeven price needed to cover cash costs and depreciation. For grow/finish enterprises, this includes the purchase cost or transfer in value of the animal. With Other Revenue Adjustments is the breakeven price adjusted for cull sales, other offspring sales, the cost of replacement stock, and any other miscellaneous income. This assumes that some costs can be covered by these other income sources. With Labor and Management is the final breakeven price to provide a labor and management return for the operator(s).

Other Information contains both economic and technical efficiency measures for each enterprise.

The rounding of individual items for the report may have caused minor discrepancies with the calculated totals. If fewer than five farms have a certain livestock enterprise, that information is not reported. If there are fewer than 25 farms, the high and low groups are not reported.

Note: The following government payments received by livestock producers were not included in the enterprise analysis.

- Pandemic Market Volatility Assistance Program (PMVAP) These payments were to dairy producers impacted by lower markets during the pandemic and did not relate to the current year's production.
- Emergency Livestock Relief Program (ELRP) Phase 2 These payments related to losses in 2021, not the current production year for livestock producers from natural disasters.
- Milk Loss Program (MLP) These payments were for dairy producers that had to dump milk without payment in 2020 to 2022 because of weather events. Again, these did not relate to 2023 production.
- Other government program payments not directly related to 2023 livestock production: Inflation Reduction Act (IRA) Section 22006 debt forgiveness for distressed borrowers; IRA 22007 discrimination financial assistance; Coronavirus Food Assistance Program (CFAP 2) for underserved producers; and Pandemic Assistance Revenue Program (PARP) payments.

### Hogs, Finish Feeder Pigs -- Average Per Head

	Avg. ( All Far	
Number of farms		11
Finish Hogs sold (lb) Transferred out (lb) Cull sales (lb) Insurance income Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 282.8 0.1 1.4 -27.0 -1.2 -8.0	Value 179.84 0.18 0.36 1.48 -0.98 -67.31 -1.16 -10.36 102.06
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) Other feed stuffs (lb) Veterinary Supplies Contract production exp. Repairs Hired labor Utilities Hauling and trucking Miscellaneous Total direct expenses Return over direct expense	164.0 76.8 7.4 7.1	37.03 14.72 38.14 0.92 1.81 1.35 4.40 0.59 0.42 0.38 1.97 2.64 104.35 -2.29
Overhead Expenses Hired labor Building leases Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		1.25 6.92 0.68 0.86 2.35 12.06 116.41 -14.35
Labor & management charge Net return over lbr & mgt		1.50 -15.85
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		87.73 93.52 93.28 94.00
Est. labor hours per unit		0.16
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		14,020 12,744 6.2 2 1.71 2.68 36.61 90.81 1.67 25 282 62.06 63.60 211 85.88

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

	Avg. All Fai	
Number of farms		11
Finish Hogs sold (lb) Transferred out (lb) Cull sales (lb) Insurance income Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 135.70 0.04 0.65 -12.97 -0.57 -3.82	Value 86.30 0.09 0.17 0.71 -0.47 -32.30 -0.56 -4.97 48.98
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) Other feed stuffs (lb) Veterinary Supplies Contract production exp. Repairs Hired labor Utilities Hauling and trucking Miscellaneous Total direct expenses Return over direct expense	78.72 36.85 3.57 3.40	17.77 7.07 18.30 0.44 0.87 0.65 2.11 0.28 0.20 0.18 0.94 1.27 50.08 -1.10
Overhead Expenses Hired labor Building leases Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		0.60 3.32 0.33 0.41 1.13 5.79 55.86 -6.89
Labor & management charge Net return over lbr & mgt		0.72 -7.61
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		87.73 93.52 93.28 94.00
Est. labor hours per unit		0.07
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		14,020 12,744 6.2 2 1,71 2.68 36.61 90.81 1.67 25 282 62.06 63.60 211 85.88

#### Hogs, Weaning to Finish -- Average Per Head

	Avg. All Fai	
Number of farms		16
Wean-Fin Pig sold (lb) Transferred out (lb) Cull sales (lb) Insurance income Government payments Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 285.5 1.2 6.1 -12.8 -2.5 -1.6	Value 172.79 1.09 0.01 1.41 0.00 6.20 -42.04 -8.38 -1.60 129.49
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) DDGS, dry (lb.) Other feed stuffs (lb) Veterinary Contract production exp. Fuel & oil Custom hire Hired labor Hauling and trucking Operating interest Miscellaneous Total direct expenses Return over direct expense	132.1 118.2 6.9 77.6 6.2	35.83 18.53 38.61 8.97 0.18 4.21 6.53 1.62 4.24 2.46 2.86 1.64 5.41 131.08 -1.60
Overhead Expenses Hired labor Building leases Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		0.93 5.45 2.41 2.48 11.27 142.36 -12.87
Labor & management charge Net return over lbr & mgt		2.81 -15.68
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		86.06 91.36 87.80 89.12
Est. labor hours per unit		0.31
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 carcass weight Average price / cwt. carcass		30,264 28,483 4.4 2 1.74 2.61 37,01 102.11 3.39 14 277 46,48 60.53 210 80.84

#### Hogs, Weaning to Finish -- Average Per Cwt. Carcass Sold

	Avg. All Fa	
Number of farms		16
Wean-Fin Pig sold (lb) Transferred out (lb) Cull sales (lb) Insurance income Government payments Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 134.21 0.57 2.85 -6.02 -1.16 -0.75	Value 81.24 0.51 0.00 0.66 0.00 2.92 -19.77 -3.94 -0.75 60.88
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) DDGS, dry (lb.) Other feed stuffs (lb) Veterinary Contract production exp. Fuel & oil Custom hire Hired labor Hauling and trucking Operating interest Miscellaneous Total direct expenses Return over direct expense	62.11 55.58 3.24 36.50 2.91	16.85 8.71 18.15 4.22 0.08 1.98 3.07 0.76 1.99 1.16 1.35 0.77 2.54 61.63 -0.75
Overhead Expenses Hired labor Building leases Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		0.44 2.56 1.13 1.16 5.30 66.93 -6.05
Labor & management charge Net return over lbr & mgt		1.32 -7.37
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		86.06 91.36 87.80 89.12
Est. labor hours per unit		0.14
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 carcass weight Average price / cwt. carcass		30,264 28,483 4.4 2 1,74 2,61 37,01 102,11 3,39 14 277 46,48 60,53 210 80,84

### Hogs, Weaning to Finish -- Average Per Head -- Trend

Number of farms 29 20 23 21 17		2019	2020	2021	2022	2022
Wean-Fin Pig sold	Number of forms					<i></i>
Transferred Out 0.77 0.00 0.49 - 0.66 0.25 0.11 0.00 linsurance income 0.08 0.16 0.25 0.11 0.00 1.11 0.00 linsurance income 0.08 0.23 - 0.01 1.10 0.00 1.11						
Cuil sales   0.08					190.36	170.67
Insurance income					-	0.86
Government payments 2.83 19.56 0.06 0.02 0.00 0.00				0.25		0.01
Other income*				-		1.12
Purchased						0.00
Transferred in   8.40						4.92
Inventory change 8.08 4.31 9.81 13.10 -55 Cross margin 103.93 18.89 151.76 143.88 125.55 Cross margin 103.93 18.89 23.93 28.80 26.0 35.75 Complete Ration 9.25 5.59 15.08 30.20 14.4 Corn 23.29 27.88 36.55 41.51 40.40 Corn 23.29 37.88 36.55 41.51 40.40 Corn 24.20 37.99 37.43 37.55 37.55 37.50 Corntract production exp. 90.3 11.86 42.4 5.05 3.32 Custom production exp. 90.3 11.86 42.4 5.05 3.32 Custom hire 22.77 20.0 24.2 16.6 36.41 Hired labor 2.02 14.6 21.8 0.76 13.3 15. Repairs 16.8 14.5 28.8 2.11 2.3 Custom hire 22.77 20.0 2.42 16.6 36.41 Hired labor 3.25 2.89 31.3 3.37 3.5 Colal direct expenses 88.22 93.40 114.85 120.3 12.4 Miscellaneous 3.25 2.89 31.3 3.37 3.5 Colal direct expenses 88.22 93.40 114.85 120.03 12.4  Coverhoad Expenses Hired labor 1.13 0.95 1.29 3.61 3.4  Building leases 3.46 2.82 91.9 6.93 4.4  Mach & bidg depreciation 2.67 2.45 2.38 2.03 2.2  Miscellaneous 3.44 2.82 4.30 3.29 2.3  Miscellaneous 3.44 3.42 3.42 3.42 3.42 3.42 3.42 3.42						
Gross margin		-8.40				-6.64
Direct Expenses Protein Vit Minerals						
Protein Vit Minerals	_	103.73	110.07	101.70	143.00	122.07
Complete Ration 9.25 5.59 15.08 30.20 14.4 5.1		26 58	23 93	28.80	28.05	35.72
Corn   23.29   27.88   36.53   41.51   49.4   DDCS						14.67
DDGS		23.29				40.44
Other feed stuffs         0.76         4.89         3.01         2.60         0.1           Veterinary         3.09         3.43         3.95         3.32         3.32           Contract production exp.         9.03         11.86         4.24         5.05         5.5           Fuel & oil         1.06         0.61         1.75         1.53         1.5           Repairs         1.68         1.45         2.88         2.11         2.3           Custom hire         2.27         2.00         2.42         1.66         3.6           Hired labor         2.02         1.46         2.18         0.76         1.5           Hauling and trucking         1.43         1.47         1.86         3.30         2.2           Miscellaneous         3.25         2.89         3.13         3.37         3.3           Ostal direct expenses         8.82.2         93.40         1.185         129.03         1.485         129.03         1.485         2.21           Overhead Expenses         8.82.2         93.40         1.85         1.29         3.61         3.6         4.8         8.1         3.6         4.1         3.6         4.1         4.1         4.1         4.2						9.11
Veterinary   3.09   3.43   3.95   3.32   3.5						0.14
Contract production exp. 9.03 11.86 4.24 5.05 5.5		3.09				3.59
Fuel & oif   1.06		9.03				5.38
Repairs						1.57
Custom hire         2.27         2.00         2.42         1.66         3.6           Hired labor         2.02         1.46         2.18         0.76         1.5           Hauling and trucking         1.43         1.47         1.86         3.30         2.2           Miscellaneous         3.25         2.89         3.13         3.37         3.5           Total direct expenses         88.22         93.40         114.85         129.03         124.7           Return over direct expenses         15.71         25.49         3.690         114.85         129.03         124.7           Werhead Expenses         Hired labor         1.13         0.95         1.29         3.61         3.6           Building leases         3.46         2.82         9.19         6.93         4.3           Mach & bldg depreciation         2.67         2.45         2.38         2.03         3.2           Miscellaneous         3.44         2.82         4.30         3.29         2.3           Total overhead expenses         10.70         9.04         1.71.6         15.86         12.8           Total overhead expenses         19.79         9.04         1.71.6         15.6         12.8 <td></td> <td></td> <td></td> <td></td> <td></td> <td>2.31</td>						2.31
Hired labor						3.64
Hauling and trucking   1.43   1.47   1.86   3.30   2.2     Miscellaneous   3.25   2.89   3.13   3.37   3.5     Total direct expenses   88.22   93.40   114.85   129.03   124.7     Return over direct expenses   15.71   25.49   36.90   14.85   129.03   124.7     Return over direct expenses						1.95
Miscelfaneous         3.25         2.89         3.13         3.37         3.9           Total direct expenses         15.71         25.49         36.90         14.85         129.03           Return over direct expenses         15.71         25.49         36.90         14.85         -2.1           Overhead Expenses           Hired labor         1.13         0.95         1.29         3.61         3.6           Building leases         3.46         2.82         9.19         6.93         4.3           Mach & bidg depreciation         2.67         2.45         2.38         2.03         2.5           Miscellaneous         3.44         2.82         4.30         3.29         2.3           Total overhead expenses         10.70         9.04         17.16         15.86         12.5           Total overhead expenses         10.70         9.04         17.16         15.86         12.5           Total overhead expenses         98.93         102.43         13.20         144.89         137.6           Net return         5.00         16.45         19.74         -1.01         -15.0           Labor & management charge         3.64         2.77         5.59         2.82 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>2.27</td>						2.27
Total direct expenses		3.25		3.13		3.98
Return over direct expense   15.71   25.49   36.90   14.85   -2.1		88.22				124.76
Hired labor						-2.16
Building leases         3.46         2.82         9.19         6.93         4.3           Mach & bidg depreciation         2.67         2.45         2.38         2.03         2.5           Miscellaneous         3.44         2.82         4.30         3.29         2.3           Total overhead expenses         10.70         9.04         17.16         15.86         12.8           Total dir & owh dexpenses         98.93         102.43         132.02         144.89         137.6           Net return         5.00         16.45         19.74         -1.01         -15.0           Labor & management charge         3.64         2.77         5.59         2.82         2.8           Net return over lbr & mgt         1.37         13.68         14.16         -3.83         -17.8           Cost of Production/Cwt. Carcass Sold         Cost of Production/Cwt. Carcass Sold           Total direct expense per unit         65.17         64.69         74.98         89.70         84.8           Total direct expense per unit         70.59         69.18         83.21         97.78         90.5           With other revenue adjustments         65.84         56.86         85.22         97.49         88.1	Overhead Expenses					
Building leases         3.46         2.82         9.19         6.93         4.3           Mach & bidg depreciation         2.67         2.45         2.38         2.03         2.5           Miscellaneous         3.44         2.82         4.30         3.29         2.3           Total overhead expenses         10.70         9.04         17.16         15.86         12.8           Net return         5.00         16.45         19.74         -1.01         -15.0           Labor & management charge         3.64         2.77         5.59         2.82         2.8           Net return over lbr & mgt         1.37         13.68         14.16         -3.83         -17.8           Cost of Production/Cwt. Carcass Sold         7.78         5.59         2.82         2.8           Net return over lbr & mgt         1.37         13.68         14.16         -3.83         -17.8           Cost of Production/Cwt. Carcass Sold         7.78         9.89         89.70         88.8         89.70         88.8           Total direc expense per unit         70.59         69.18         83.21         97.78         90.9           With other revenue adjustments         65.84         5.86         85.22         97.49	Hired labor	1.13	0.95	1.29	3.61	3.61
Miscellaneous         3.44         2.82         4.30         3.29         2.3           Total overhead expenses         10.70         9.04         17.16         15.86         12.8           Total dir & owhd expenses         98.93         102.43         132.02         144.89         137.6           Net return         5.00         16.45         19.74         -1.01         -15.0           Labor & management charge         3.64         2.77         5.59         2.82         2.8           Net return over lbr & mgt         1.37         13.68         14.16         -3.83         -17.8           Cost of Production/Cwt. Carcass Sold         Total direct expense per unit         65.17         64.69         74.98         89.70         84.8           Total direct expense per unit         70.59         69.18         83.21         97.78         90.9           With other revenue adjustments         65.84         56.86         85.22         97.49         88.1           With labor and management         67.68         58.24         87.90         98.92         89.4           Est. labor hours per unit         0.28         0.21         0.30         0.27         0.3           Other Information         No		3.46				4.32
Miscellaneous         3.44         2.82         4.30         3.29         2.3           Total overhead expenses         10.70         9.04         17.16         15.86         12.8           Total dir & owhd expenses         98.93         102.43         132.02         144.89         137.6           Net return         5.00         16.45         19.74         -1.01         -15.0           Labor & management charge         3.64         2.77         5.59         2.82         2.8           Net return over lbr & mgt         1.37         13.68         14.16         -3.83         -17.8           Cost of Production/Cwt. Carcass Sold         Total direct expense per unit         65.17         64.69         74.98         89.70         84.8           Total direct expense per unit         70.59         69.18         83.21         97.78         90.9           With other revenue adjustments         65.84         56.86         85.22         97.49         88.1           With labor and management         67.68         58.24         87.90         98.92         89.4           Est. labor hours per unit         0.28         0.21         0.30         0.27         0.3           Other Information         No	Mach & bldg depreciation	2.67	2.45	2.38	2.03	2.54
Total dir & ovhd expenses 98.93 102.43 132.02 144.89 137.6   Net return 5.00 16.45 19.74 -1.01 -15.00   Labor & management charge 3.64 2.77 5.59 2.82 2.8   Net return over lbr & mgt 1.37 13.68 14.16 -3.83 -17.8   Cost of Production/Cwt. Carcass Sold   Total direct expense per unit 65.17 64.69 74.98 89.70 88.8   Total direct expense per unit 70.59 69.18 83.21 97.78 90.5   With other revenue adjustments 65.84 56.86 85.22 97.49 88.1   With labor and management 67.68 58.24 87.90 98.92 89.4   Est. labor hours per unit 0.28 0.21 0.30 0.27 0.3   Other Information   No. purchased or trans in 20,620 25,402 28,557 23,216 31,29   Percentage death loss 5.4 4.4 5.8 5.2 4   Percent substandard hogs 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		3.44		4.30	3.29	2.37
Net return	Total overhead expenses					12.85
Labor & management charge 3.64 2.77 5.59 2.82 2.8 Net return over lbr & mgt 1.37 13.68 14.16 -3.83 -17.8    Cost of Production/Cwt. Carcass Sold    Total direct expense per unit 65.17 64.69 74.98 89.70 84.8 70.59 69.18 83.21 97.78 90.5    With other revenue adjustments 65.84 56.86 85.22 97.49 88.1    Est. labor hours per unit 0.28 0.21 0.30 0.27 0.3    Other Information    No. purchased or trans in 20,620 25,402 28,557 23,216 31,29    Number sold or trans out 17,624 23,634 24,192 19,706 30,05    Percentage death loss 5.4 4.4 5.8 5.2 4    Percent substandard hogs 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Total dir & ovhd expenses				144.89	137.60
Net return over   Ibr & mgt   1.37   13.68   14.16   -3.83   -17.88	Net return	5.00	16.45	19.74	-1.01	-15.01
Cost of Production/Cwt. Carcass Sold  Total direct expense per unit 65.17 64.69 74.98 89.70 84.8  Total dir& ovhd expense per unit 70.59 69.18 83.21 97.78 90.9  With other revenue adjustments 65.84 56.86 85.22 97.49 88.1  With labor and management 67.68 58.24 87.90 98.92 89.4  Est. labor hours per unit 0.28 0.21 0.30 0.27 0.3  Other Information  No. purchased or trans in 20,620 25,402 28,557 23,216 31,29  Number sold or trans out 17,624 23,634 24,192 19,706 30.09  Percentage death loss 5.4 4.4 5.8 5.2 4  Percent substandard hogs 2 2 2 2  Avg. daily gain (lb.) 1.50 1.55 1.34 1.55 1.7  Lb. of feed / lb. of gain 24.16 25.53 34.57 40.79 36.8  Feed cost per cwt. of gain 24.16 25.53 34.57 40.79 36.8  Feed cost per head 64.39 68.22 92.45 107.93 100.0  Avg wgt / Wean-Fin Pig sold 271 278 269 276 276 276						2.84
Total direct expense per unit         65.17         64.69         74.98         89.70         84.8           Total dir& ovhd expense per unit         70.59         69.18         83.21         97.78         90.9           With other revenue adjustments         65.84         56.86         85.22         97.49         88.1           With labor and management         67.68         58.24         87.90         98.92         89.4           Est. labor hours per unit         0.28         0.21         0.30         0.27         0.3           Other Information         0.00         25.402         28,557         23,216         31,29           Number sold or trans out         17,624         23,634         24,192         19,706         30,09           Percentage death loss         5.4         4.4         5.8         5.2         4           Percent substandard hogs         2         2         2         2         2           Avg. daily gain (lb.)         1.50         1.55         1.34         1.55         1.7           Lb. of feed / lb. of gain         2.55         2.74         2.76         2.75         2.6           Feed cost per cwt. of gain         24.16         25.53         34.57         40.79	Net return over lbr & mgt	1.37	13.68	14.16	-3.83	-17.85
Total dir& ovhd expense per unit         70.59         69.18         83.21         97.78         90.9           With other revenue adjustments         65.84         56.86         85.22         97.49         88.1           With labor and management         67.68         58.24         87.90         98.92         89.4           Est. labor hours per unit         0.28         0.21         0.30         0.27         0.3           Other Information         0.09         0.25         0.21         0.30         0.27         0.3           No. purchased or trans in         20,620         25,402         28,557         23,216         31,29           Number sold or trans out         17,624         23,634         24,192         19,706         30,09           Percentage death loss         5.4         4.4         5.8         5.2         4           Percent substandard hogs         2         2         2         2         2         2         2           Avg. daily gain (lb.)         1.50         1.55         1.34         1.55         1.7           Lb. of feed / lb. of gain         2.55         2.74         2.76         2.75         2.6           Feed cost per cwt. of gain         24.16         25.53<	Cost of Production/Cwt. Carcass Sold					
With other revenue adjustments       65.84       56.86       85.22       97.49       88.1         With labor and management       67.68       58.24       87.90       98.92       89.4         Est. labor hours per unit       0.28       0.21       0.30       0.27       0.3         Other Information         No. purchased or trans in       20,620       25,402       28,557       23,216       31,29         Number sold or trans out       17,624       23,634       24,192       19,706       30,09         Percentage death loss       5.4       4.4       5.8       5.2       4         Percent substandard hogs       2       2       2       2       2         Avg. daily gain (lb.)       1.50       1.55       1.34       1.55       1.7         Lb. of feed / lb. of gain       2.55       2.74       2.76       2.75       2.6         Feed cost per cwt. of gain       24.16       25.53       34.57       40.79       36.8         Feed cost per head       64.39       68.22       92.45       107.93       100.0         Hired labor per head       3.15       2.40       3.47       4.36       5.5         Average purchase weight <t< td=""><td></td><td></td><td></td><td></td><td></td><td>84.87</td></t<>						84.87
With labor and management       67.68       58.24       87.90       98.92       89.4         Est. labor hours per unit       0.28       0.21       0.30       0.27       0.3         Other Information       No. purchased or trans in       20,620       25,402       28,557       23,216       31,29         Number sold or trans out       17,624       23,634       24,192       19,706       30,09         Percentage death loss       5.4       4.4       5.8       5.2       4         Percent substandard hogs       2       2       2       2       2         Avg. daily gain (lb.)       1.50       1.55       1.34       1.55       1.7         Lb. of feed / lb. of gain       2.55       2.74       2.76       2.75       2.6         Feed cost per cwt. of gain       24.16       25.53       34.57       40.79       36.8         Feed cost per head       64.39       68.22       92.45       107.93       100.0         Hired labor per head       3.15       2.40       3.47       4.36       5.5         Average purchase weight       13       14       14       14       14         Avg wyl / Wean-Fin Pig sold       271       278			69.18			90.94
Est. labor hours per unit 0.28 0.21 0.30 0.27 0.3  Other Information  No. purchased or trans in 20,620 25,402 28,557 23,216 31,29  Number sold or trans out 17,624 23,634 24,192 19,706 30,09  Percentage death loss 5.4 4.4 5.8 5.2 4  Percent substandard hogs 2 2 2 2 2  Avg. daily gain (lb.) 1.50 1.55 1.34 1.55 1.7  Lb. of feed / lb. of gain 2.55 2.74 2.76 2.75 2.6  Feed cost per cwt. of gain 24.16 25.53 34.57 40.79 36.8  Feed cost per head 64.39 68.22 92.45 107.93 100.0  Hired labor per head 3.15 2.40 3.47 4.36 5.5  Average purchase weight 13 14 14 14  Avg wgt / Wean-Fin Pig sold 271 278 269 276	With other revenue adjustments					88.10
Other Information No. purchased or trans in 20,620 25,402 28,557 23,216 31,29 Number sold or trans out 17,624 23,634 24,192 19,706 30,09 Percentage death loss 5.4 4.4 5.8 5.2 4 Percent substandard hogs 2 2 2 2 2 Avg. daily gain (lb.) 1.50 1.55 1.34 1.55 1.7 Lb. of feed / lb. of gain 2.55 2.74 2.76 2.75 2.6 Feed cost per cwt. of gain 24.16 25.53 34.57 40.79 36.8 Feed cost per head 64.39 68.22 92.45 107.93 100.0 Hired labor per head 3.15 2.40 3.47 4.36 5.5 Average purchase weight 13 14 14 14 14 Avg wgt / Wean-Fin Pig sold 271 278 269 276 27	With labor and management	67.68	58.24	87.90	98.92	89.44
No. purchased or trans in       20,620       25,402       28,557       23,216       31,29         Number sold or trans out       17,624       23,634       24,192       19,706       30,09         Percentage death loss       5.4       4.4       5.8       5.2       4         Percent substandard hogs       2       2       2       2       2         Avg. daily gain (lb.)       1.50       1.55       1.34       1.55       1.7         Lb. of feed / lb. of gain       2.55       2.74       2.76       2.75       2.6         Feed cost per cwt. of gain       24.16       25.53       34.57       40.79       36.8         Feed cost per head       64.39       68.22       92.45       107.93       100.9         Hired labor per head       3.15       2.40       3.47       4.36       5.5         Average purchase weight       13       14       14       14       14       14         Avg wgt / Wean-Fin Pig sold       271       278       269       276       276       27	Est. labor hours per unit	0.28	0.21	0.30	0.27	0.31
Number sold or trans out     17,624     23,634     24,192     19,706     30,09       Percentage death loss     5.4     4.4     5.8     5.2     4       Percent substandard hogs     2     2     2     2     2       Avg. daily gain (lb.)     1.50     1.55     1.34     1.55     1.7       Lb. of feed / lb. of gain     2.55     2.74     2.76     2.75     2.6       Feed cost per cwt. of gain     24.16     25.53     34.57     40.79     36.8       Feed cost per head     64.39     68.22     92.45     107.93     100.0       Hired labor per head     3.15     2.40     3.47     4.36     5.5       Average purchase weight     13     14     14     14     14     14       Avg wgt / Wean-Fin Pig sold     271     278     269     276     276	Other Information					
Number sold or trans out       17,624       23,634       24,192       19,706       30,09         Percentage death loss       5.4       4.4       5.8       5.2       4         Percent substandard hogs       2		20.620	25.402	28.557	23.216	31,290
Percentage death loss     5.4     4.4     5.8     5.2     4       Percent substandard hogs     2     2     2     2     2       Avg. daily gain (lb.)     1.50     1.55     1.34     1.55     1.7       Lb. of feed / lb. of gain     2.55     2.74     2.76     2.75     2.6       Feed cost per cwt. of gain     24.16     25.53     34.57     40.79     36.8       Feed cost per head     64.39     68.22     92.45     107.93     100.03       Hired labor per head     3.15     2.40     3.47     4.36     5.5       Average purchase weight     13     14     14     14     14     1       Avg wgt / Wean-Fin Pig sold     271     278     269     276     276	•			24.192		30,092
Percent substandard hogs         2 <td></td> <td></td> <td></td> <td></td> <td></td> <td>4.9</td>						4.9
Avg. daily gain (lb.)     1.50     1.55     1.34     1.55     1.7       Lb. of feed / lb. of gain     2.55     2.74     2.76     2.75     2.6       Feed cost per cwt. of gain     24.16     25.53     34.57     40.79     36.8       Feed cost per head     64.39     68.22     92.45     107.93     100.0       Hired labor per head     3.15     2.40     3.47     4.36     5.5       Average purchase weight     13     14     14     14     14       Avg wgt / Wean-Fin Pig sold     271     278     269     276     27						2
Lb. of feed / lb. of gain 2.55 2.74 2.76 2.75 2.6 Feed cost per cwt. of gain 24.16 25.53 34.57 40.79 36.8 Feed cost per head 64.39 68.22 92.45 107.93 100.0 Hired labor per head 3.15 2.40 3.47 4.36 5.5 Average purchase weight 13 14 14 14 14 14 Avg wgt / Wean-Fin Pig sold 271 278 269 276 27				1.34		1.74
Feed cost per cwt. of gain       24.16       25.53       34.57       40.79       36.8         Feed cost per head       64.39       68.22       92.45       107.93       100.0         Hired labor per head       3.15       2.40       3.47       4.36       5.5         Average purchase weight       13       14       14       14       14       1         Avg wgt / Wean-Fin Pig sold       271       278       269       276       27						2.64
Feed cost per head     64.39     68.22     92.45     107.93     100.0       Hired labor per head     3.15     2.40     3.47     4.36     5.5       Average purchase weight     13     14     14     14     14     1       Avg wgt / Wean-Fin Pig sold     271     278     269     276     27						36.81
Hired labor per head       3.15       2.40       3.47       4.36       5.5         Average purchase weight       13       14       14       14       14       1         Avg wgt / Wean-Fin Pig sold       271       278       269       276       27		64.39	68.22	92.45	107.93	100.08
Avg wgt / Wean-Fin Pig sold 271 278 269 276 27						5.56
Avg wgt / Wean-Fin Pig sold 271 278 269 276 27	Average purchase weight					14
Avg purch price / head 42.49 39.13 41.83 54.29 46.7		271	278			279
	Avg purch price / head	42.49	39.13	41.83	54.29	46.76
	Avg sales price / cwt.					59.64
Average carcass weight 204 209 202 207 21	Average carcass weight					211
		67.52	64.68	93.88	96.39	80.00

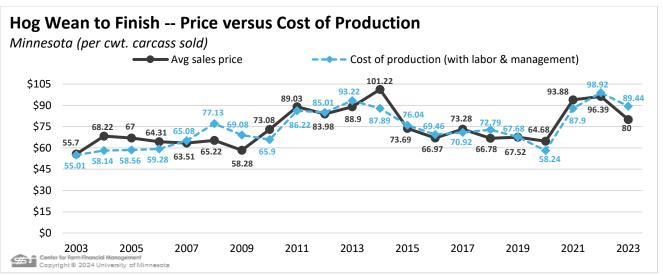


Figure 28: Hog Wean to Finish Prices versus Cost of Production Trend

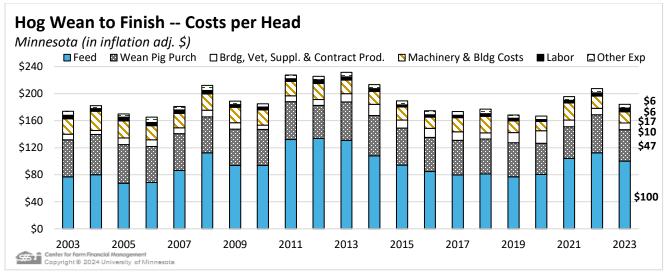


Figure 29: Major Hog Wean to Finish Input Costs Over Time

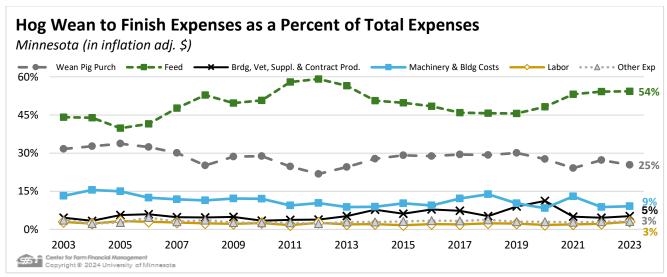


Figure 30: Major Hog Wean to Finish Input Costs as a Percent of Total Expenses Over Time

#### Hogs, Farrow to Weaning -- Average Per Litter

	Avg. ( All Far	
Number of farms		5
Weaning Pigs sold (hd) Transferred out (hd) Cull sales (hd) Purchased (hd) Transferred in (hd) Inventory change (hd) Gross margin	Quantity 0.1 11.5 0.2 0.0 0.2 0.1	Value 7.74 457.56 43.76 -6.29 -44.31 -10.76 447.70
Direct Expenses Protein Vit Minerals (Ib.) Complete Ration (Ib.) Corn (bu.) DDGS, dry (Ib.) Other feed stuffs (Ib) Breeding fees Veterinary Supplies Fuel & oil Repairs Hired labor Utilities Operating interest Miscellaneous Total direct expenses Return over direct expense	213.3 314.0 8.9 41.2 0.0	60.00 43.22 48.98 4.60 0.07 17.00 37.34 16.70 3.81 9.97 120.13 14.29 10.55 4.77 391.42 56.28
Overhead Expenses Building leases Farm insurance Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		11.92 4.22 0.99 5.17 18.19 2.34 42.84 434.26 13.44
Labor & management charge Net return over lbr & mgt		25.53 -12.09
Cost of Production Per Head Sold/Trans Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management		33.68 37.36 38.83 41.03
Est. labor hours per unit		2.02
Other Information Average number of sows Litters farrowed Litters per sow Litters per crate Pigs born per litter Pigs weaned per litter Pigs weaned per sow Number sold per litter Feed cost per litter Hired labor per sow Avg wgt/Weaning Pigs sold Avg price / head		1,006.4 2,165 2.15 11.85 13.94 11.96 25.12 0.11 156.87 258.47 31 72.83

#### Hogs, Farrow to Weaning -- Average Per Head Sold/Trans

	Avg. All Fa	
Number of farms		5
Weaning Pigs sold (hd) Transferred out (hd) Cull sales (hd) Purchased (hd) Transferred in (hd) Inventory change (hd) Gross margin	Quantity 0.01 0.99 0.02 0.00 0.02 0.01	Value 0.67 39.37 3.77 -0.54 -3.81 -0.93 38.52
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) DDGS, dry (lb.) Other feed stuffs (lb) Breeding fees Veterinary Supplies Fuel & oil Repairs Hired labor Utilities Operating interest Miscellaneous Total direct expenses Return over direct expense	18.35 27.02 0.77 3.54 0.00	5.16 3.72 4.21 0.40 0.01 1.46 3.21 1.44 0.33 0.86 10.34 1.23 0.91 0.41 33.68 4.84
Overhead Expenses Building leases Farm insurance Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		1.03 0.36 0.09 0.45 1.57 0.20 3.69 37.36 1.16
Labor & management charge Net return over lbr & mgt		2.20 -1.04
Cost of Production Per Head Sold/Trans Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management		33.68 37.36 38.83 41.03
Est. labor hours per unit		0.17
Other Information Average number of sows Litters farrowed Litters per sow Litters per crate Pigs born per litter Pigs weaned per litter Pigs weaned per sow Number sold per litter Feed cost per litter Hired labor per sow Avg wgt/Weaning Pigs sold Avg price / head		1,006.4 2,165 2.15 11.85 13.94 11.96 25.12 0.11 156.87 258.47 31 72.83

#### Hogs, Finish Feeder Pigs (Contract Grower) -- Average Per Pig Space

	Avg. O All Farn		Low 2	20%	High 2	0%
Number of farms		38		7		8
	Quantity	Value	Quantity	Value	Quantity	Value
Other income Gross margin		10.91 42.53		9.32 38.80		28.92 48.15
Direct Expenses						
Supplies		1.34		0.48		0.49
Fuel & oil		2.13		2.91		1.12
Repairs		4.22		8.46		2.68
Custom hire		1.25		0.91		0.71
Hired labor		1.54		1.98		0.01
Utilities		0.95		1.07		0.27
Miscellaneous		0.24		0.11		0.01
Total direct expenses		11.66		15.93		5.30
Return over direct expense		30.86		22.87		42.85
Overhead Expenses						
Hired labor		1.97		2.56		1.38
Building leases		2.16		7.63		1.18
RE & pers. property taxes		0.69		0.51		0.43
Farm insurance		2.46		2.62		2.87
Utilities		2.40		1.81		5.24
Dues & professional fees		0.53		0.90		0.59
Interest		4.65		5.74		4.58
Mach & bldg depreciation		9.21		8.48		7.47
Miscellaneous		0.59		1.05		0.42
Total overhead expenses		24.66		31.30		24.17
Total dir & ovhd expenses		36.33		47.22		29.46
Net return		6.20		-8.42		18.69
Labor & management charge		5.64		5.84		4.99
Net return over lbr & mgt		0.57		-14.27		13.70
Cost of Production Per Pig Space						
Total direct expense per unit		11.66		15.93		5.30
Total dir& ovhd expense per unit		36.33		47.22		29.46
Est. labor hours per unit		0.35		0.32		0.35
Other Information						
Number of pigs		7,625		9,009		7,906
Pigs per pig space (per year)		2.21		2.12		2.22
Pigs per 100 sq. ft. (per yr)		27.38		27.34		25.35
Net return per 100 sq. ft.		76.98		-108.77		213.15
Net return per labor hour		17.97		-26.27		53.65
Square feet per pig space		8.06		7.74		8.77

#### Hogs, Weaning to Feeder (Contract Grower) -- Average Per Pig Space

	Avg. AII Fai	Of rms
Number of farms		11
Other income Gross margin	Quantity	Value 1.81 36.40
Direct Expenses Supplies Fuel & oil Repairs Custom hire Hired labor Utilities Operating interest Miscellaneous Total direct expenses Return over direct expense		0.36 1.58 2.21 0.66 1.17 1.08 0.07 0.03 7.14 29.26
Overhead Expenses Hired labor Building leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		1.64 0.99 0.46 1.72 1.24 0.33 3.76 6.04 1.01 17.21 24.36 12.04
Labor & management charge Net return over lbr & mgt		6.25 5.80
Cost of Production Per Pig Space Total direct expense per unit Total dir& ovhd expense per unit		7.14 24.36
Est. labor hours per unit		0.33
Other Information Number of pigs Pigs per pig space (per year) Pigs per 100 sq. ft. (per yr) Net return per 100 sq. ft. Net return per labor hour Square feet per pig space		25,913 6.10 161.82 319.33 36.24 3.77

#### Hogs, Weaning to Finish (Contract Grower) -- Average Per Pig Space

	Avg. O All Farn		Low 2	0%	High 2	20%
Number of farms		43		8		9
	Quantity	Value	Quantity	Value	Quantity	Value
Transferred out (lb)	-	1.64	-	12.37	-	-
Otherincome		4.74		9.11		7.84
Gross margin		42.06		37.17		51.26
Direct Expenses						
Supplies		1.65		2.51		0.26
Fuel & oil		2.68		5.07		1.94
Repairs		4.38		4.69		3.47
Custom hire		0.68		2.11		0.12
Hired labor		1.03		0.55		1.01
Utilities		0.61		-		0.54
Operating interest		0.26		0.56		0.21
Miscellaneous		0.04		0.05		0.07
Total direct expenses		11.33		15.55		7.62
Return over direct expense		30.73		21.63		43.63
Overhead Expenses						
Hired labor		1.84		4.66		0.62
Building leases		2.11		0.02		-
RE & pers. property taxes		0.87		0.77		0.61
Farm insurance		2.82		3.24		2.80
Utilities		2.51		3.61		2.38
Dues & professional fees		0.60		0.89		0.53
Interest		3.95		5.56		4.16
Mach & bldg depreciation		7.99		10.40		8.44
Miscellaneous		0.63		1.07		0.26
Total overhead expenses		23.32		30.20		19.80
Total dir & ovhd expenses		34.65		45.75		27.43
Net return '		7.41		-8.57		23.83
Labor & management charge		6.83		7.95		6.82
Net return over lbr & mgt		0.59		-16.52		17.01
Cost of Production Per Pig Space						
Total direct expense per unit		11.33		15.55		7.62
Total dir& ovhd expense per unit		34.65		45.75		27.43
Est. labor hours per unit		0.36		0.67		0.32
Other Information						
Number of pigs		9,635		7,770		13,444
Pigs per pig space (per year)		2.44		2.76		2.68
Pigs per 100 sq. ft. (per yr)		30.99		35.23		33.93
Net return per 100 sq. ft.		94.05		-109.55		302.05
Net return per labor hour		20.35		-12.86		75.11
Square feet per pig space		7.88		7.83		7.89

# Hogs, Weaning to Finish(Contract Grower) -- Average Per Pig Space -- Trend

Number of farms   69		2019	2020	2021	2022	<i>2023</i>
Transferred out	Number of farms	69	63	55	44	50
Transferred out	Wean-Fin Pig sold	-	6.37	-	-	-
Other income         20.06 (ross margin)         42.76 (41.06)         42.77 (43.63)         41.83 (41.83)           Direct Expenses (Other feed stuffs         -		20.38		25.57	21.84	
Prect Expenses		-		-	-	
Direct Expenses						
Other feed sturfs	Gross margin	40.44	41.06	42.//	43.63	41.83
Other feed sturfs	Direct Expenses					
Contract production exp.   1.73		-	-	-	-	-
Fuel & off   194			1.10	1.36	1.43	1.65
Repairs				-	-	-
Custom hire         0.73         0.84         0.77         0.73         0.63           Hired labor         2.03         1.85         0.99         0.60         0.89           Livestock leases         0.21         0.11						
Hired labor   203   1.85   0.90   0.60   0.89     Livestock leases   0.21   0.11       Utilities   1.65   0.87   1.41   0.66   0.53     Operating interest   0.42   0.44   0.21   0.26   0.29     Miscellaneous   0.07   0.11   0.15   0.05   0.05     Total direct expenses   14.32   12.53   11.46   10.83   10.96     Return over direct expense   26.12   28.53   13.43   32.80   30.87     Overhead Expenses   1.432   12.53   11.46   10.83   10.96     Return over direct expense   0.71   0.85   1.29   1.52   1.79     Building leases   0.88   1.08   1.52   4.30   3.16     RE & pers, property taxes   0.88   0.79   0.82   0.87   0.93     Farm insurance   2.00   2.03   2.41   2.67   2.83     Utilities   1.47   1.93   1.95   3.24   2.64     Dues & professional fees   0.29   0.68   0.75   0.50   0.56     Interest   5.25   5.04   4.36   4.21   3.63     Mach & bldg depreciation   8.83   8.59   9.19   8.52   7.78     Miscellaneous   1.21   0.82   0.91   0.81   0.64     Total overhead expenses   21.52   21.80   23.20   26.63   23.97     Total dir & ovind expenses   35.84   34.34   34.66   37.46   34.93     Net return   4.60   6.73   8.11   6.17   6.99     Labor & management charge   6.70   6.17   7.28   7.13   6.55     Net return over lbr & mgt   -2.10   0.56   0.83   -0.96   0.35      Cost of Production Per Pig Space   1.432   12.53   11.46   10.83   10.96     Total direct expense per unit   14.32   12.53   11.46   10.83   10.96     Total direct expense per unit   35.84   34.34   34.66   37.46   34.93     Est. labor hours per unit   0.37   0.35   0.37   0.36   0.37      Other Information   1.24   1.29   2.33   2.20   2.40     Pigs per pig space (per year)   2.38   2.28   2.33   2.20   2.40     Pigs per pig space (per year)   2.38   2.28   2.33   2.20   2.40     Pigs per pig space (per year)   2.38   2.28   2.33   2.20   2.40     Pigs per pig space (per year)   2.38   2.28   2.33   2.20   2.40     Pigs per pig space (per year)   2.38   2.88     Net return per labor hour   1.241   19.22   21.78   11.36   18.88						
Livestock leases 0.21 0.11 1.4 0.66 0.53 0.90 0.90 0.90 0.90 0.90 0.90 0.90 0.9						
Utilities				0.90		0.89
Operating interest         0.42         0.44         0.21         0.26         0.29           Miscellaneous         0.07         0.11         0.15         0.05         0.05           Total direct expenses         14.32         12.53         11.46         10.83         10.96           Return over direct expenses         26.12         28.53         31.31         32.80         30.87           Overhead Expenses           Hired labor         0.71         0.85         1.29         1.52         1.79           Bullding leases         0.88         1.08         1.52         4.30         3.16         RE & pers. properly taxes         0.88         1.09         0.82         0.87         0.33         1.6         RE & pers. properly taxes         0.88         0.79         0.82         0.87         0.33         1.6         RE & pers. properly taxes         0.88         0.79         0.82         0.87         0.37         0.33         1.6         RE & pers. properly taxes         0.88         0.79         0.82         0.87         0.93         1.21         0.82         0.87         0.93         0.43         0.43         0.43         0.43         0.44         0.43         0.44         0.44         0.44 </td <td></td> <td></td> <td></td> <td>-</td> <td></td> <td>-</td>				-		-
Miscellaneous         0.07         0.11         0.15         0.05         0.05           Total direct expenses         14.32         12.53         11.46         10.83         10.96           Return over direct expenses         26.12         28.53         31.31         32.80         30.87           Overhead Expenses           Hired labor         0.71         0.85         1.29         1.52         1.79           Building leases         0.88         1.08         1.52         4.30         3.16           RE & pers. property taxes         0.88         0.79         0.82         0.87         0.93           Farm insurance         2.00         2.03         2.41         2.67         2.83           Farm insurance         2.00         2.03         2.41         2.67         2.83           Utilities         1.47         1.93         1.95         3.24         2.64           Dues & professional fees         0.29         0.68         0.75         0.50         0.56           Interest         5.25         5.04         4.36         4.21         3.63           Mach & bldg depreciation         8.83         8.59         9.19         0.81         0.44						
Total direct expenses						
Return over direct expenses         26.12         28.53         31.31         32.80         30.87           Overhead Expenses						
Overhead Expenses Hired labor						
Hired labor	Keturi over direct expense	20.12	20.55	31.31	32.00	30.07
Building leases         0.88         1.08         1.52         4.30         316           RE & pers property taxes         0.88         0.79         0.82         0.87         0.93           Farm insurance         2.00         2.03         2.41         2.67         2.83           Utilities         1.47         1.93         1.95         3.24         2.64           Dues & professional fees         0.29         0.68         0.75         0.50         0.56           Interest         5.25         5.04         4.36         4.21         3.63           Mach & bldg depreciation         8.83         8.59         9.19         8.52         7.78           Miscellaneous         1.21         0.82         0.91         0.81         0.64           Total overhead expenses         21.52         21.80         23.20         26.63         23.97           Total dir & ovhd expenses         35.84         34.34         34.66         37.46         34.93           Net return         4.60         6.73         8.11         6.17         6.90           Labor & management charge         6.70         6.17         7.28         7.13         6.55           Net return per lob & mgt	Overhead Expenses					
RE & pers, property taxes         0.88         0.79         0.82         0.87         0.93           Farm insurance         2.00         2.03         2.41         2.67         2.83           Utilities         1.47         1.93         1.95         3.24         2.64           Dues & professional fees         0.29         0.68         0.75         0.50         0.56           Interest         5.25         5.04         4.36         4.21         3.63           Mach & bldg depreciation         8.83         8.59         9.19         8.52         7.78           Miscellaneous         1.21         0.82         0.91         0.81         0.64           Total overhead expenses         21.52         21.80         23.20         26.63         23.77           Total overhead expenses         35.84         34.34         34.66         37.46         34.93           Net return         4.60         6.73         8.11         6.17         6.90           Labor & management charge         6.70         6.17         7.28         7.13         6.55           Net return over lbr & mgt         1.4.32         12.53         11.46         10.83         10.96           Total direct expense	Hired labor		0.85			
Farm insurance 2.00 2.03 2.41 2.67 2.83 Utilities 1.47 1.93 1.95 3.24 2.64 2.64 2.65   Dues & professional fees 0.29 0.68 0.75 0.50 0.56   Interest 5.25 5.04 4.36 4.21 3.63   Mach & bldg depreciation 8.83 8.59 9.19 8.52 7.78   Miscellaneous 1.21 0.82 0.91 0.81 0.64   Total overhead expenses 21.52 21.80 23.20 26.63 23.97   Total dir & ovhd expenses 35.84 34.34 34.66 37.46 34.93   Net return 4.60 6.73 8.11 6.17 6.90   Labor & management charge 6.70 6.17 7.28 7.13 6.55   Net return over lbr & mgt -2.10 0.56 0.83 -0.96 0.35   Cost of Production Per Pig Space   Total direct expense per unit 1.432 12.53 11.46 10.83 10.96   Total direct expense per unit 35.84 34.34 34.66 37.46 34.93   Est. labor hours per unit 0.37 0.35 0.37 0.36 0.37   Other Information   Number of pigs   8,141 7,817 7,475 7,547 9,446   Pigs per pig space (per year) 2.38 2.28 2.33 2.20 2.40   Pigs per 100 sq. ft. (per yr) 31.91 29.38 29.47 27.60 30.63   Net return per loos of ft. (per yr) 31.91 29.38 29.47 27.60 30.63   Net return per loos of ft. (per yr) 31.91 29.38 29.47 27.60 30.63   Net return per loos of ft. (per yr) 12.41 19.22 21.78 17.36 18.83						
Utilities         1.47         1.93         1.95         3.24         2.64           Dues & professional fees         0.29         0.68         0.75         0.50         0.56           Interest         5.25         5.04         4.36         4.21         3.63           Mach & bldg depreciation         8.83         8.59         9.19         8.52         7.78           Miscellaneous         1.21         0.82         0.91         0.81         0.64           Total overhead expenses         21.52         21.80         23.20         26.63         23.77           Total dir & ovhd expenses         35.84         34.34         34.66         37.46         34.93           Net return         4.60         6.73         8.11         6.17         6.90           Labor & management charge         6.70         6.17         7.28         7.13         6.55           Net return over lbr & mgt         -2.10         0.56         0.83         -0.96         0.35           Cost of Production Per Pig Space         1.04         11.46         10.83         10.96           Total direct expense per unit         14.32         12.53         11.46         10.83         10.96           Total direct e						
Dues & professional fees         0.29         0.68         0.75         0.50         0.56           Interest         5.25         5.04         4.36         4.21         3.63           Mach & bidg depreciation         8.83         8.59         9.19         8.52         7.78           Miscellaneous         1.21         0.82         0.91         0.81         0.64           Total overhead expenses         21.52         21.80         23.20         26.63         23.97           Total dir & ovhd expenses         35.84         34.34         34.66         37.46         34.93           Net return         4.60         6.73         8.11         6.17         6.90           Labor & management charge         6.70         6.17         7.28         7.13         6.55           Net return over lbr & mgt         -2.10         0.56         0.83         -0.96         0.35           Cost of Production Per Pig Space           Total direct expense per unit         14.32         12.53         11.46         10.83         10.96           Total direct expense per unit         0.37         0.35         0.37         0.36         0.37           Est. labor hours per unit         0.37         0.35 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
Interest						
Mach & bldg depreciation         8.83         8.59         9.19         8.52         7.78           Miscellaneous         1.21         0.82         0.91         0.81         0.64           Total overhead expenses         21.52         21.80         23.20         26.63         23.97           Total dir & ovhd expenses         35.84         34.34         34.66         37.46         34.93           Net return         4.60         6.73         8.11         6.17         6.90           Labor & management charge         6.70         6.17         7.28         7.13         6.55           Net return over lbr & mgt         -2.10         0.56         0.83         -0.96         0.35           Cost of Production Per Pig Space         Total direct expense per unit         14.32         12.53         11.46         10.83         10.96           Total direc ovhd expense per unit         14.32         12.53         11.46         10.83         10.96           Total direc vegense per unit         0.37         0.35         0.37         0.36         0.37           Est. labor hours per unit         0.37         0.35         0.37         0.36         0.37           Other Information         Number of pigs<						
Miscellaneous         1.21         0.82         0.91         0.81         0.64           Total overhead expenses         21.52         21.80         23.20         26.63         23.97           Total dir & ovhd expenses         35.84         34.34         34.66         37.46         34.93           Net return         4.60         6.73         8.11         6.17         6.90           Labor & management charge         6.70         6.17         7.28         7.13         6.55           Net return over Ibr & mgt         -2.10         0.56         0.83         -0.96         0.35           Cost of Production Per Pig Space         -2.10         0.56         0.83         10.96         0.35           Cost of Production Per Pig Space         -2.10         12.53         11.46         10.83         10.96           Total direct expense per unit         14.32         12.53         11.46         10.83         10.96           Total direct expense per unit         0.37         0.35         0.37         0.36         0.37           Est. labor hours per unit         0.37         0.35         0.37         0.36         0.37           Other Information         0.38         2.28         2.33         2.20						
Total overhead expenses         21.52         21.80         23.20         26.63         23.97           Total dir & ovhd expenses         35.84         34.34         34.66         37.46         34.93           Net return         4.60         6.73         8.11         6.17         6.90           Labor & management charge         6.70         6.17         7.28         7.13         6.55           Net return over lbr & mgt         -2.10         0.56         0.83         -0.96         0.35           Cost of Production Per Pig Space         Total direct expense per unit         14.32         12.53         11.46         10.83         10.96           Total direct expense per unit         35.84         34.34         34.66         37.46         34.93           Est. labor hours per unit         0.37         0.35         0.37         0.36         0.37           Other Information         Number of pigs         8,141         7,817         7,475         7,547         9,446           Pigs per pig space (per year)         2.38         2.28         2.33         2.20         2.40           Pigs per 100 sq. ft. (per yr)         31.91         29.38         29.47         27.60         30.63           Ne	Missallaneous					
Total dir & ovhd expenses         35.84         34.34         34.66         37.46         34.93           Net return         4.60         6.73         8.11         6.17         6.90           Labor & management charge         6.70         6.17         7.28         7.13         6.55           Net return over lbr & mgt         -2.10         0.56         0.83         -0.96         0.35           Cost of Production Per Pig Space         Total direct expense per unit         14.32         12.53         11.46         10.83         10.96           Total direct expense per unit         35.84         34.34         34.66         37.46         34.93           Est. labor hours per unit         0.37         0.35         0.37         0.36         0.37           Other Information         Number of pigs         8,141         7,817         7,475         7,547         9,446           Pigs per pig space (per year)         2.38         2.28         2.33         2.20         2.40           Pigs per 100 sq. ft. (per yr)         31.91         29.38         29.47         27.60         30.63           Net return per labor hour         12.41         19.22         21.78         17.36         18.83						
Net return       4.60       6.73       8.11       6.17       6.90         Labor & management charge       6.70       6.17       7.28       7.13       6.55         Net return over lbr & mgt       -2.10       0.56       0.83       -0.96       0.35         Cost of Production Per Pig Space       Total direct expense per unit       14.32       12.53       11.46       10.83       10.96         Total dir& ovhd expense per unit       35.84       34.34       34.66       37.46       34.93         Est. labor hours per unit       0.37       0.35       0.37       0.36       0.37         Other Information       Number of pigs       8,141       7,817       7,475       7,547       9,446         Pigs per pig space (per year)       2.38       2.28       2.33       2.20       2.40         Pigs per 100 sq. ft. (per yr)       31.91       29.38       29.47       27.60       30.63         Net return per labor hour       12.41       19.22       21.78       17.36       18.83						
Labor & management charge 6.70 6.17 7.28 7.13 6.55 Net return over lbr & mgt -2.10 0.56 0.83 -0.96 0.35  Cost of Production Per Pig Space Total direct expense per unit 14.32 12.53 11.46 10.83 10.96 Total dir& ovhd expense per unit 35.84 34.34 34.66 37.46 34.93  Est. labor hours per unit 0.37 0.35 0.37 0.36 0.37  Other Information Number of pigs 8,141 7,817 7,475 7,547 9,446 Pigs per pig space (per year) 2.38 2.28 2.33 2.20 2.40 Pigs per 100 sq. ft. (per yr) 31.91 29.38 29.47 27.60 30.63 Net return per 100 sq. ft. 61.50 86.68 102.66 77.55 88.08 Net return per labor hour 12.41 19.22 21.78 17.36 18.83						
Net return over lbr & mgt         -2.10         0.56         0.83         -0.96         0.35           Cost of Production Per Pig Space         Total direct expense per unit         14.32         12.53         11.46         10.83         10.96           Total dir& ovhd expense per unit         35.84         34.34         34.66         37.46         34.93           Est. labor hours per unit         0.37         0.35         0.37         0.36         0.37           Other Information         Number of pigs         8,141         7,817         7,475         7,547         9,446           Pigs per pig space (per year)         2.38         2.28         2.33         2.20         2.40           Pigs per 100 sq. ft. (per yr)         31.91         29.38         29.47         27.60         30.63           Net return per 100 sq. ft.         61.50         86.68         102.66         77.55         88.08           Net return per labor hour         12.41         19.22         21.78         17.36         18.83	Not retain	4.00	0.73	0.11	0.17	0.70
Cost of Production Per Pig Space Total direct expense per unit 14.32 12.53 11.46 10.83 10.96 Total dir& ovhd expense per unit 35.84 34.34 34.66 37.46 34.93  Est. labor hours per unit 0.37 0.35 0.37 0.36 0.37  Other Information Number of pigs 8,141 7,817 7,475 7,547 9,446 Pigs per pig space (per year) 2.38 2.28 2.33 2.20 2.40 Pigs per 100 sq. ft. (per yr) 31.91 29.38 29.47 27.60 30.63 Net return per 100 sq. ft. 61.50 86.68 102.66 77.55 88.08 Net return per labor hour 12.41 19.22 21.78 17.36 18.83	Labor & management charge					
Total direct expense per unit       14.32       12.53       11.46       10.83       10.96         Total dir& ovhd expense per unit       35.84       34.34       34.66       37.46       34.93         Est. labor hours per unit       0.37       0.35       0.37       0.36       0.37         Other Information       Number of pigs         Number of pigs per pig space (per year)       2.38       2.28       2.33       2.20       2.40         Pigs per 100 sq. ft. (per yr)       31.91       29.38       29.47       27.60       30.63         Net return per 100 sq. ft.       61.50       86.68       102.66       77.55       88.08         Net return per labor hour       12.41       19.22       21.78       17.36       18.83	Net return over Ibr & mgt	-2.10	0.56	0.83	-0.96	0.35
Total direct expense per unit       14.32       12.53       11.46       10.83       10.96         Total dir& ovhd expense per unit       35.84       34.34       34.66       37.46       34.93         Est. labor hours per unit       0.37       0.35       0.37       0.36       0.37         Other Information       Number of pigs         Number of pigs per pig space (per year)       2.38       2.28       2.33       2.20       2.40         Pigs per 100 sq. ft. (per yr)       31.91       29.38       29.47       27.60       30.63         Net return per 100 sq. ft.       61.50       86.68       102.66       77.55       88.08         Net return per labor hour       12.41       19.22       21.78       17.36       18.83	Cost of Production Per Pig Space					
Total dir& ovhd expense per unit         35.84         34.34         34.66         37.46         34.93           Est. labor hours per unit         0.37         0.35         0.37         0.36         0.37           Other Information         Number of pigs         8,141         7,817         7,475         7,547         9,446           Pigs per pig space (per year)         2.38         2.28         2.33         2.20         2.40           Pigs per 100 sq. ft. (per yr)         31.91         29.38         29.47         27.60         30.63           Net return per 100 sq. ft.         61.50         86.68         102.66         77.55         88.08           Net return per labor hour         12.41         19.22         21.78         17.36         18.83		14 32	12 53	11 46	10.83	10.96
Est. labor hours per unit 0.37 0.35 0.37 0.36 0.37  Other Information  Number of pigs 8,141 7,817 7,475 7,547 9,446  Pigs per pig space (per year) 2.38 2.28 2.33 2.20 2.40  Pigs per 100 sq. ft. (per yr) 31.91 29.38 29.47 27.60 30.63  Net return per 100 sq. ft. 61.50 86.68 102.66 77.55 88.08  Net return per labor hour 12.41 19.22 21.78 17.36 18.83						
Other Information       Number of pigs     8,141     7,817     7,475     7,547     9,446       Pigs per pig space (per year)     2.38     2.28     2.33     2.20     2.40       Pigs per 100 sq. ft. (per yr)     31.91     29.38     29.47     27.60     30.63       Net return per 100 sq. ft.     61.50     86.68     102.66     77.55     88.08       Net return per labor hour     12.41     19.22     21.78     17.36     18.83	retar and emili expense per ann	00.0 .	55 .	0 1100	07110	0 1170
Number of pigs     8,141     7,817     7,475     7,547     9,446       Pigs per pig space (per year)     2.38     2.28     2.33     2.20     2.40       Pigs per 100 sq. ft. (per yr)     31.91     29.38     29.47     27.60     30.63       Net return per 100 sq. ft.     61.50     86.68     102.66     77.55     88.08       Net return per labor hour     12.41     19.22     21.78     17.36     18.83	Est. labor hours per unit	0.37	0.35	0.37	0.36	0.37
Pigs per pig space (per year)       2.38       2.28       2.33       2.20       2.40         Pigs per 100 sq. ft. (per yr)       31.91       29.38       29.47       27.60       30.63         Net return per 100 sq. ft.       61.50       86.68       102.66       77.55       88.08         Net return per labor hour       12.41       19.22       21.78       17.36       18.83						
Pigs per 100 sq. ft. (per yr)       31.91       29.38       29.47       27.60       30.63         Net return per 100 sq. ft.       61.50       86.68       102.66       77.55       88.08         Net return per labor hour       12.41       19.22       21.78       17.36       18.83						
Net return per 100 sq. ft.     61.50     86.68     102.66     77.55     88.08       Net return per labor hour     12.41     19.22     21.78     17.36     18.83						
Net return per labor hour 12.41 19.22 21.78 17.36 18.83						
Square feet per pig space /.4/ 7.76 7.90 7.95 7.83						
	Square feet per pig space	1.47	1.76	7.90	7.95	7.83

#### Beef Cow-Calf -- Average Per Cow

	Avg. ( All Far		Low	20%	High	20%
Number of farms		117		23	_	24
Beef Calves sold (lb) Transferred out (lb) Cull sales (lb) Insurance income Government payments Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 208.5 216.5 88.7 -31.1 -17.9 29.2	Value 456.22 530.26 173.54 7.02 13.28 11.21 -75.52 -78.68 182.22 1,219.55	Quantity 168.2 191.2 30.1 -6.6 -14.6 2.7	Value 374.51 437.27 157.12 - 4.97 17.46 -26.21 -30.40 5.03 939.75	Quantity 235.3 221.0 122.9 -67.4 -18.7 39.1	Value 527.77 550.94 191.70 10.67 13.53 3.04 -95.84 -19.14 351.92 1,534.58
Direct Expenses Protein Vit Minerals (lb.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) Hay (lb.) Other feed stuffs (lb) Veterinary Fuel & oil Repairs Operating interest Miscellaneous Total direct expenses Return over direct expense	249.6 4.2 3,968.3 947.2 2,036.9 4.9 2,977.1 2,254.0	62.51 19.50 87.98 70.01 101.05 85.16 142.76 50.30 44.29 38.95 63.53 20.61 71.01 857.67 361.87	330.2 9.5 6,420.9 1,791.6 2,939.5 4.4 3,128.1 1,000.3	79.68 36.86 142.23 129.22 169.06 105.11 184.70 45.16 42.20 64.53 116.61 28.60 75.67 1,219.63 -279.88	161.0 1.4 3,851.2 959.7 1,877.8 6.6 1,906.1 3,649.5	54.71 6.14 76.99 68.67 59.37 83.30 88.99 42.16 37.83 39.49 53.01 5.60 72.99 689.25 845.33
Overhead Expenses Farm insurance Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		18.93 36.40 64.37 63.03 182.73 1,040.40 179.15		31.35 70.41 122.34 90.79 314.88 1,534.51 -594.76		13.54 24.07 33.22 37.94 108.77 798.02 736.56
Labor & management charge Net return over lbr & mgt		128.93 50.21		194.84 -789.60		110.83 625.73
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		172.47 209.22 191.79 217.72		326.95 411.36 391.14 443.37		129.19 149.57 101.15 121.92
Est. labor hours per unit		9.95		12.75		7.43
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.		72.1 93.1 1.8 13.8 91.4 84.6 0.76 6.6 3.4 281.5 517 437 619.27 615 218.82		54.9 89.7 2.6 12.7 87.3 80.5 0.65 6.6 7.4 219.6 527 425 892.01 609 222.66		81.6 94.4 0.9 15.2 93.5 86.2 0.76 4.9 2.5 377.0 523 451 480.34 618 224.28

#### Beef Cow-Calf -- Average Per Cwt. Produced

	Avg. C All Farn		Low:	20%	High 2	20%
Number of farms		117		23	ŭ	24
Beef Calves sold (lb) Transferred out (lb) Cull sales (lb) Insurance income Government payments Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 41.93 43.53 17.83 -6.25 -3.61 5.88	Value 91.74 106.63 34.90 1.41 2.67 2.25 -15.19 -15.82 36.64 245.24	Quantity 45.09 51.25 8.06 -1.76 -3.92 0.73	Value 100.39 117.22 42.12 - 1.33 4.68 -7.03 -8.15 1.35 251.92	Quantity 44.10 41.43 23.03  -12.63 -3.51 7.33	Value 98.92 103.26 35.93 2.00 2.54 0.57 -17.96 -3.59 65.96 287.62
Direct Expenses Protein Vit Minerals (lb.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) Hay (lb.) Other feed stuffs (lb) Veterinary Fuel & oil Repairs Operating interest Miscellaneous Total direct expenses Return over direct expense	50.19 0.85 798.01 190.48 409.61 0.99 598.68 453.27	12.57 3.92 17.69 14.08 20.32 17.13 28.71 10.12 8.91 7.83 12.78 4.15 14.28 172.47	88.52 2.54 1,721.26 480.27 788.00 1.19 838.55 268.15	21.36 9.88 38.13 34.64 45.32 28.18 49.51 12.11 11.31 17.30 31.26 7.67 20.29 326.95 -75.03	30.17 0.27 721.82 179.87 351.96 1.23 357.25 684.02	10.26 1.15 14.43 12.87 11.13 15.61 16.68 7.90 7.09 7.40 9.94 1.05 13.68 129.19 158.44
Overhead Expenses Farm insurance Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		3.81 7.32 12.94 12.68 36.75 209.22 36.03		8.40 18.87 32.80 24.34 84.41 411.36 -159.44		2.54 4.51 6.23 7.11 20.39 149.57 138.05
Labor & management charge Net return over lbr & mgt		25.93 10.10		52.23 -211.67		20.77 117.28
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		172.47 209.22 191.79 217.72		326.95 411.36 391.14 443.37		129.19 149.57 101.15 121.92
Est. labor hours per unit		2.00		3.42		1.39
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.		72.1 93.1 1.8 13.8 91.4 84.6 0.76 6.6 3.4 281.5 517 437 619.27 615 218.82		54.9 89.7 2.6 12.7 87.3 80.5 0.65 6.6 7.4 219.6 527 425 892.01 609 222.66		81.6 94.4 0.9 15.2 93.5 86.2 0.76 4.9 2.5 377.0 523 451 480.34 618 224.28

### Beef Cow-Calf -- Average Per Cow -- Trend

	<i>2019</i>	2020	<u> 2021</u>	<u> 2022</u>	<u> 2023</u>
Number of farms	95	98	101	88	80
Beef Calves sold	222.43	202.55	275.23	315.43	308.29
Transferred out	379.95	392.67	419.76	447.78	709.84
Cull sales	105.68	97.41	86.56	139.56	177.16
Insurance income Government payments Other income Purchased	7.13 -66.31	105.56 12.67 -67.84	17.40 14.98 -135.93	0.53 3.69 15.75 -87.43	6.75 9.70 11.95 -65.39
Transferred in	-48.62	-56.44	-42.71	-70.61	-115.08
Inventory change	4.93	60.92	123.19	60.36	100.27
Gross margin	605.20	747.50	758.48	825.06	1,143.50
Direct Expenses Protein Vit Minerals Corn Silage	44.24 79.90	33.76 70.29	55.24 83.57	47.66 109.20	70.54 96.79
Hay, Alfalfa	61.63	73.56	78.06	84.16	53.85
Hay, Grass	102.86	71.70	84.58	81.01	87.69
Pasture	51.62	51.49	61.76	76.48	90.31
Hay	82.22	61.16	98.44	149.25	145.97
Other feed stuffs	46.55	69.36	89.34	83.66	65.91
Veterinary	35.17	31.08	34.64	37.44	43.68
Supplies	12.03	11.77	24.56	20.92	16.62
Fuel & oil	26.04	23.36	27.99	43.74	32.68
Repairs	47.08	44.08	56.59	62.15	54.25
Operating interest	24.97	24.88	12.01	14.82	29.70
Miscellaneous Total direct expenses Return over direct expense	31.69	40.15	44.40	45.41	48.63
	645.99	606.65	751.18	855.90	836.61
	-40.79	140.85	7.30	-30.84	306.90
Overhead Expenses Hired labor	16.64	11.43	8.97	11.01	22.78
Interest Mach & bldg depreciation Miscellaneous	40.00	34.57	35.63	35.23	32.52
	62.69	56.73	73.13	66.57	53.07
	62.94	59.55	63.15	67.43	66.93
Total overhead expenses	182.27	162.27	180.88	180.23	175.31
Total dir & ovhd expenses	828.25	768.92	932.06	1,036.13	1,011.91
Net return	-223.06	-21.42	-173.58	-211.07	131.59
Labor & management charge	86.67	98.51	110.07	136.09	120.56
Net return over lbr & mgt	-309.73	-119.94	-283.64	-347.16	11.03
Cost of Production Per Cwt. Produced Total direct expense per unit Total dir& ovhd expense per unit	135.02 173.12	134.16 170.05	148.38 184.11	185.65 224.74	172.70 208.88
With other revenue adjustments	187.79	148.53	185.32	214.14	202.43
With labor and management	205.90	170.32	207.07	243.66	227.32
Est. labor hours per unit	8.81	8.84	10.42	10.52	9.30
Other Information Number of cows Pregnancy percentage	83.0	79.2	61.4	67.5	73.1
	95.7	92.6	94.9	94.2	94.7
Pregnancy loss percentage Culling percentage Calving percentage	3.1	2.5	3.1	3.2	2.5
	16.2	10.9	9.8	11.3	14.0
	92.8	90.3	92.0	91.1	92.3
Weaning percentage Calves sold per cow Calf death loss percent Cow death loss percent	84.4	84.8	87.0	83.7	86.2
	0.75	0.73	0.80	0.80	0.79
	9.2	6.1	5.0	7.5	6.7
	3.1	3.0	2.8	2.6	2.9
Cows per FTE Average weaning weight Lb. weaned/exposed female	317.8	316.9	268.6	266.2	301.1
	533	529	527	537	517
	450	448	458	449	446
Feed cost per cow	469.02	431.33	550.99	631.41	611.05
Avg wgt/ Beef Calves sold	601	517	572	547	585
Avg price / cwt.	145.96	158.79	154.34	181.08	219.95

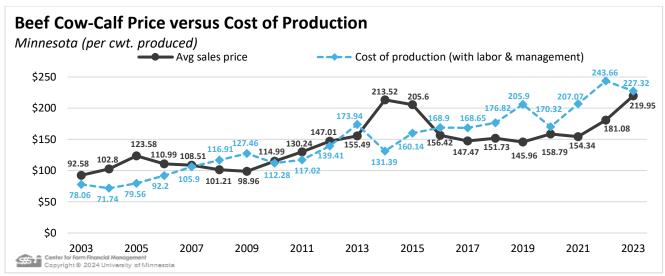


Figure 31: Beef Cow-Calf Prices versus Cost of Production Trend

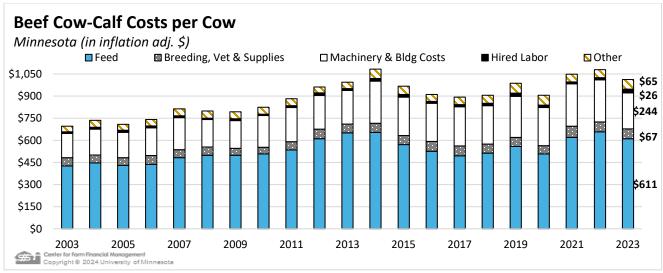


Figure 32: Major Beef Cow-Calf Input Costs Over Time

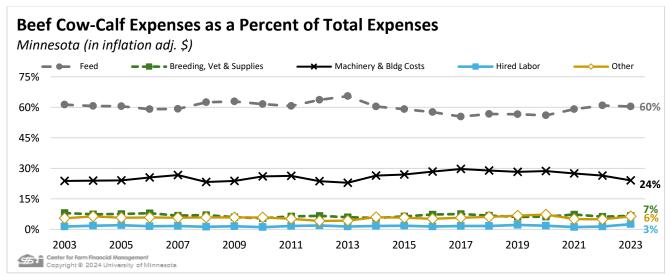


Figure 33: Major Beef Cow-Calf Input Costs as a Percent of Total Expenses Over Time

#### Beef Cow-Calf (without backgrounding) -- Average Per Cwt. Produced

	Avg. 0 All Farn		Low 2	20%	High 2	20%
Number of farms		75		15	ŭ	15
Beef Calves sold (lb) Transferred out (lb) Cull sales (lb) Insurance income Government payments Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 30.89 52.36 20.17 -5.15 -5.65 6.73	Value 68.97 131.50 36.18 1.55 2.30 2.83 -13.04 -25.22 27.29 232.35	Quantity 60.65 37.37 17.41 -3.31 -10.02 -2.78	Value 128.40 87.13 43.64 - 3.41 10.73 -9.23 -20.86 32.95 276.17	Quantity 47.93 38.58 24.57 -0.51 -4.85 -6.44	Value 110.09 100.16 26.29 2.23 1.10 0.76 -2.00 -11.65 19.69 246.67
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn Silage (lb.) Hay, Aflaffa (lb.) Hay, Grass (lb.) Pasture (aum) Hay (lb.) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Miscellaneous Total direct expenses Return over direct expense	58.03 20.74 792.86 159.31 338.74 1.14 693.45 347.32	12.74 2.40 18.53 11.73 16.99 18.20 32.08 12.77 9.67 3.61 7.49 11.88 14.11 172.20 60.15	138.35 70.35 1,532.32 464.07 798.03 1.18 834.11 467.30	31.66 15.74 35.19 31.79 39.64 24.23 55.48 21.38 12.29 12.20 18.64 37.74 20.95 356.93 -80.76	34.97 2.24 545.78 75.73 84.02 2.08 1,078.96 104.46	9.72 0.45 11.72 5.69 4.74 15.81 45.06 3.99 7.38 1.43 6.34 8.53 6.69 127.55 119.13
Overhead Expenses Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		4.30 7.00 11.88 15.49 38.67 210.87 21.48		11.43 19.46 37.27 35.77 103.93 460.86 -184.69		3.26 4.14 4.23 7.95 19.59 147.14 99.53
Labor & management charge Net return over lbr & mgt		27.15 -5.67		73.39 -258.08		17.56 81.97
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		172.20 210.87 199.71 226.86		356.93 460.86 403.61 477.01		127.55 147.14 122.10 139.66
Est. labor hours per unit		2.12		4.33		1.21
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.		66.7 93.8 1.8 14.3 92.1 86.0 0.78 6.4 3.2 267.8 518 446 619.28 584 223.27		33.5 89.7 2.0 13.1 87.8 80.1 0.66 7.2 7.0 176.2 532 426 935.53 553 211.71		60.1 96.1 0.6 12.4 95.6 90.2 0.86 4.3 3.8 405.3 568 512 554.84 591

### Beef Finishing -- Average Per Head

	Avg. AII Fa		Low	20%	High	20%
Number of farms		88		17	ŭ	18
Finish Beef sold (lb) Transferred out (lb) Insurance income Government payments	Quantity 1,283.3 4.8	Value 2,256.47 7.63 0.42 0.13	Quantity 901.5 2.1	Value 1,595.21 2.57 1.97	Quantity 1,361.2 18.6	Value 2,466.87 31.81 -
Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	-530.3 -48.4 30.4	4.09 -1,191.25 -111.82 229.65 1,195.31	-288.4 -53.1 47.9	5.04 -693.69 -112.66 185.86 984.30	-549.1 -118.9 143.5	58.30 -1,117.74 -268.51 603.71 1,774.43
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) DDGS, wet (lb.) Corn snaplage (lb.) Other feed stuffs (lb) Contract production exp. Fuel & oil Repairs Marketing Operating interest Miscellaneous Total direct expenses Return over direct expense	513.3 851.9 47.3 2,429.5 687.6 244.7 1,872.1	71.72 98.51 261.52 61.25 33.07 14.50 104.89 12.66 20.69 37.17 9.90 33.30 65.49 824.67 370.64	402.7 2,038.0 26.9 1,695.5 407.1 759.2 763.3	51.94 220.54 140.72 40.90 21.52 42.75 43.28 20.88 27.84 63.91 7.61 41.34 48.38 771.63 212.67	1,747.4 93.5 64.4 3,409.3 208.2 349.7 2,968.6	111.97 34.38 340.12 80.26 10.64 22.72 90.48 33.50 17.12 30.55 52.33 35.01 60.68 919.77 854.66
Overhead Expenses Building leases Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		9.69 19.50 43.19 44.79 117.17 941.84 253.47		33.86 27.70 83.85 53.06 198.46 970.09 14.21		1.61 10.25 39.44 34.09 85.40 1,005.17 769.27
Labor & management charge Net return over lbr & mgt		49.46 204.01		43.44 -29.23		42.44 726.83
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		146.54 155.63 156.09 159.93		153.51 175.47 175.25 180.06		119.14 125.33 125.33 128.40
Est. labor hours per unit		3.00		3.50		3.97
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.		279 273 0.9 2.71 7.70 9.64 86.52 645.46 23.16 631 1,427 224.63 175.83		229 231 1.1 2.67 8.62 9.96 91.58 561.65 17.81 469 1,292 240.52 176.96		112 97 1.6 2.51 6.86 9.51 77.69 690.58 7.20 613 1,438 203.56 181.22

#### Beef Finishing -- Average Per Cwt. Produced

	Avg. All Far		Low:	20%	High 2	20%
Number of farms		88		17	-	18
Finish Beef sold (lb) Transferred out (lb) Insurance income Government payments Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 172.02 0.65 -71.09 -6.49 4.07	Value 302.47 1.02 0.06 0.02 0.55 -159.68 -14.99 30.78 160.22	Quantity 146.99 0.35 -47.03 -8.66 7.81	Value 260.11 0.42 0.32 - 0.82 -113.11 -18.37 30.31 160.50	Quantity 153.14 2.10 -61.77 -13.37 16.14	Value 277.52 3.58 - 6.56 -125.74 -30.21 67.92 199.62
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) DDGS, wet (lb.) Corn snaplage (lb.) Other feed stuffs (lb) Contract production exp. Fuel & oil Repairs Marketing Operating interest Miscellaneous Total direct expenses Return over direct expense	68.81 114.19 6.34 325.67 92.17 32.81 250.94	9.61 13.20 35.06 8.21 4.43 1.94 14.06 1.70 2.77 4.98 1.33 4.46 8.78 110.54 49.68	65.66 332.30 4.38 276.47 66.38 123.80 124.47	8.47 35.96 22.95 6.67 3.51 6.97 7.06 3.41 4.54 10.42 1.24 6.74 7.89 125.82 34.68	196.57 10.51 7.25 383.53 23.42 39.34 333.96	12.60 3.87 38.26 9.03 1.20 2.56 10.18 3.77 1.93 3.44 5.89 3.94 6.83 103.47 96.15
Overhead Expenses Building leases Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		1.30 2.61 5.79 6.00 15.71 126.25 33.98		5.52 4.52 13.67 8.65 32.36 158.18 2.32		0.18 1.15 4.44 3.84 9.61 113.08 86.54
Labor & management charge Net return over lbr & mgt		6.63 27.35		7.08 -4.77		4.77 81.77
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		146.54 155.63 156.09 159.93		153.51 175.47 175.25 180.06		119.14 125.33 125.33 128.40
Est. labor hours per unit		0.40		0.57		0.45
Other Information  No. purchased or trans in Number sold or trans out Percentage death loss Avg. daily gain (lb.) Lb. of conc / lb. of gain Lb. of feed / lb. of gain Feed cost per cwt. of gain Feed cost per head Hired labor per head Average purchase weight Avg wgt / Finish Beef sold Avg sales price / cwt.		279 273 0.9 2.71 7.70 9.64 86.52 645.46 23.16 631 1,427 224.63 175.83		229 231 1.1 2.67 8.62 9.96 91.58 561.65 17.81 469 1,292 240.52 176.96		112 97 1.6 2.51 6.86 9.51 77.69 690.58 7.20 613 1,438 203.56 181.22

# Beef Finishing -- Average Per Head -- Trend

	<i>2019</i>	<u> 2020</u>			
Number of farms	71	83	90	89	92
Finish Beef sold Transferred out Insurance income	1,648.21 11.26 -	1,457.57 5.89 -	1,975.38 3.55	1,900.37 11.09	2,397.90 8.54 0.37
Government payments Other income Purchased	15.14 -994.20	111.71 43.93 -908.64	3.39 26.72 -1,090.73 -63.36	1.39 42.17 -1,156.26 -85.64	0.12 2.96 -1,237.25 -128.75
Transferred in Inventory change Gross margin	-89.03 17.68 609.06	-86.25 13.82 638.03	-63.36 16.84 871.80	-83.64 307.65 1,020.76	135.63 1,179.51
Direct Expenses Protein Vit Minerals Complete Ration	54.54 12.55	64.40 27.21	72.43 56.42	80.13 85.65	97.47 86.82
Corn	170.57	182.34	269.18	313.28	264.04
Corn Silage	33.72	37.89	46.34	65.03	57.71
Corn, Ear	13.94	6.45	26.42	15.89	15.89
Hay, Alfalfa	17.55	16.84	16.05	28.83	14.58
DDGS	25.76	17.67	18.99	26.96	25.21
DDGS, wet	30.68	19.27	41.60	42.56	35.21
Other feed stuffs	32.83	42.10	35.97	60.68	56.09
Veterinary	16.24	18.48	16.28	17.58	19.57
Fuel & oil	12.83	10.25	13.70	22.71	19.98
Repairs Operating interest Miscellaneous	24.88	23.51	27.85	36.77	37.58
	22.84	22.42	17.92	21.89	39.65
	44.62	36.20	61.12	56.21	66.23
Total direct expenses	513.55	525.03	720.26	874.16	836.03
Return over direct expense	95.51	113.00	151.54	146.60	343.48
Overhead Expenses Interest Mach & bldg depreciation	11.48 34.79	14.40 24.62	11.80 30.91	14.55 35.40	19.55 43.73
Miscellaneous Total overhead expenses Total dir & ovhd expenses	38.87	39.06	42.50	53.75	53.53
	85.14	78.09	85.20	103.70	116.82
	598.69	603.12	805.47	977.86	952.84
Net return	10.37	34.91	66.33	42.90	226.66
Labor & management charge	37.55	31.81	40.85	52.27	48.60
Net return over lbr & mgt	-27.18	3.10	25.49	-9.37	178.06
Cost of Production Per Cwt. Produced Total direct expense per unit Total dir& ovhd expense per unit	110.85 116.88	110.91 116.70	113.83 119.08	137.29 145.21	149.33 157.82
With other revenue adjustments	116.75	106.02	117.80	142.64	158.29
With labor and management	119.41	108.38	120.32	146.63	161.82
Est. labor hours per unit	2.34	2.10	2.49	3.16	2.84
Other Information No. purchased or trans in Number sold or trans out	305	270	313	252	311
	295	253	321	230	317
Percentage death loss Avg. daily gain (lb.) Lb. of conc / lb. of gain Lb. of feed / lb. of gain	1.3	1.1	1.2	1.3	1.2
	2.71	2.66	2.51	2.63	2.66
	8.01	7.57	8.40	8.02	7.76
	9.96	10.01	10.31	10.37	9.65
Feed cost per cwt. of gain Feed cost per head Hired labor per head	55.59	58.73	80.83	97.64	87.77
	392.13	414.17	583.40	719.00	653.02
	15.24	12.18	19.46	18.78	21.47
Average purchase weight	711	727	720	698	646
Avg wgt / Finish Beef sold	1,384	1,435	1,458	1,392	1,425
Avg purch price / cwt.	149.14	139.98	149.00	175.24	223.30
Avg sales price / cwt.	117.42	108.61	121.82	145.89	174.81

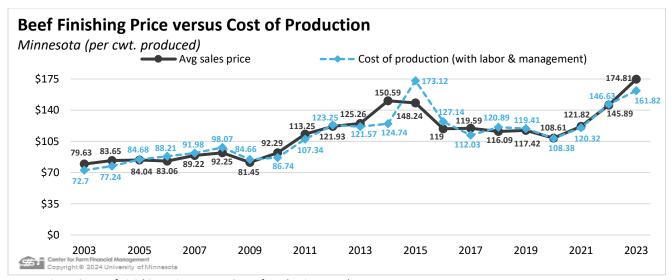


Figure 34: Beef Finishing Prices versus Cost of Production Trend

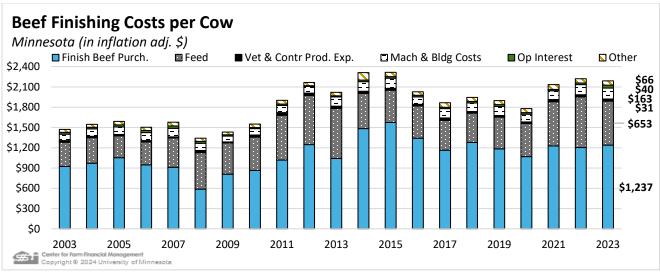


Figure 35: Major Beef Finishing Input Costs Over Time

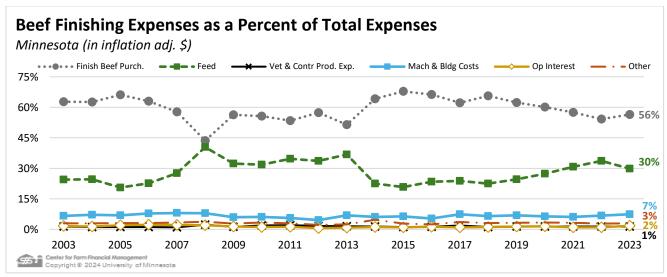


Figure 36: Major Beef Finishing Input Costs as a Percent of Total Expenses Over Time

### Dairy -- Average Per Cow

	Avg. All Far	Of ms	Low	20%	High	20%
Number of farms		258		51	•	52
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 cost Gross margin	Quantity 25,844.2 0.4 0.7 0.3 0.0 0.0	Value 4,949.29 109.97 54.49 318.61 114.00 264.10 44.50 -47.26 -116.67 51.42 -688.66 5,054.24	Quantity 24,615.7 0.3 0.7 0.3 0.0 0.0 0.3 0.0	Value 4,600.24 109.83 50.91 314.74 72.16 246.53 38.50 -32.69 -156.42 14.81 -776.67 4,482.63	Quantity 26,587.5 0.4 0.6 0.3 0.0 0.3 0.0	Value 5,411.34 118.01 78.31 348.77 81.19 378.80 45.40 -29.87 -50.49 55.25 -604.09 5,832.63
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Other feed stuffs (lb) Breeding fees Veterinary Supplies Fuel & oil Repairs Hired labor Hauling and trucking Bedding Miscellaneous Total direct expenses Return over direct expense	3,671.7 1,004.1 73.8 20,401.2 2,534.9 4,548.2	947.41 546.65 370.25 481.27 208.47 241.57 53.38 102.74 164.81 112.22 214.16 360.79 120.62 90.98 267.93 4,283.25 770.99	2,806.5 938.2 59.8 21,037.5 2,206.4 6,259.4	828.46 663.22 324.47 491.66 183.97 317.89 58.78 109.76 167.04 121.87 219.78 514.79 120.50 113.80 322.94 4,558.94 -76.30	3,628.4 728.1 75.1 18,870.9 2,655.6 4,104.2	884.69 594.33 387.29 443.33 223.73 240.09 55.67 94.46 150.62 109.19 230.56 161.88 76.96 106.55 242.49 4,001.84 1,830.79
Overhead Expenses Hired labor Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		165.79 105.11 202.67 253.64 727.22 5,010.46 43.77		114.75 115.18 217.15 235.21 682.28 5,241.22 -758.58		217.84 94.98 222.55 289.61 824.98 4,826.82 1,005.81
Labor & management charge Net return over lbr & mgt		193.52 -149.75		197.74 -956.32		293.80 712.01
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		16.50 19.30 18.95 19.70		18.45 21.21 21.73 22.54		14.95 18.03 16.55 17.65
Est. labor hours per unit		37.81		43.01		36.86
Other Information Number of cows Milk produced per cow Energy corrected milk per cow Lbs of fat & protein per cow Culling percentage Turnover rate Cows per milking unit Feed cost per cwt. of milk Feed cost per cow Hired labor per cow Avg. milk price per cwt. Milk price / feed margin		285.7 25,956 28,273 1,917 29.3 34.7 23 10.77 2,795.62 526.58 19.15 8.38		255.6 24,707 27,108 1,840 28.3 34.9 22 11.37 2,809.67 629.53 18.69 7.32		201.0 26,765 29,305 1,985 28.7 33.8 21 10.36 2,773.47 379.73 20.35 9.99

#### Dairy -- Average Per Cwt. Of Milk

	Avg. O All Farm		Low 2	20%	High 2	20%
Number of farms	2	258		51	•	52
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 cost Gross margin	Quantity 99.57 0.00 0.00 0.00 0.00	Value 19.07 0.42 0.21 1.23 0.44 1.02 0.17 -0.18 -0.45 0.20 -2.65 19.47	Quantity 99.63 0.00 0.00 0.00 0.00 0.00 0.00	Value 18.62 0.44 0.21 1.27 0.29 1.00 0.16 -0.13 -0.63 0.06 -3.14 18.14	Quantity 99.34 0.00 0.00 0.00 0.00 0.00 0.00	Value 20.22 0.44 0.29 1.30 0.30 1.42 0.17 -0.11 -0.19 0.21 -2.26 21.79
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Other feed stuffs (lb) Breeding fees Veterinary Supplies Fuel & oil Repairs Hired labor Hauling and trucking Bedding Miscellaneous Total direct expenses Return over direct expense	14.15 3.87 0.28 78.60 9.77 17.52	3.65 2.11 1.43 1.85 0.80 0.93 0.21 0.40 0.63 0.43 1.39 0.46 0.35 1.03 16.50 2.97	11.36 3.80 0.24 85.15 8.93 25.33	3.35 2.68 1.31 1.99 0.74 1.29 0.24 0.44 0.68 0.49 0.89 2.08 0.49 0.46 1.31 18.45 -0.31	13.56 2.72 0.28 70.51 9.92 15.33	3.31 2.22 1.45 1.66 0.84 0.90 0.21 0.35 0.56 0.41 0.86 0.60 0.29 0.40 0.91 14.95 6.84
Overhead Expenses Hired labor Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		0.64 0.40 0.78 0.98 2.80 19.30 0.17		0.46 0.47 0.88 0.95 2.76 21.21 -3.07		0.81 0.35 0.83 1.08 3.08 18.03 3.76
Labor & management charge Net return over lbr & mgt		0.75 -0.58		0.80 -3.87		1.10 2.66
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		16.50 19.30 18.95 19.70		18.45 21.21 21.73 22.54		14.95 18.03 16.55 17.65
Est. labor hours per unit		0.15		0.17		0.14
Other Information Number of cows Milk produced per cow Energy corrected milk per cow Lbs of fat & protein per cow Culling percentage Turnover rate Cows per milking unit Feed cost per cwt. of milk Feed cost per cow Hired labor per cow Avg. milk price per cwt. Milk price / feed margin		285.7 25,956 28,273 1,917 29.3 34.7 23 10.77 2,795.62 526.58 19.15 8.38		255.6 24,707 27,108 1,840 28.3 34.9 22 11.37 2,809.67 629.53 18.69 7.32		201.0 26,765 29,305 1,985 28.7 33.8 21 10.36 2,773.47 379.73 20.35 9.99

#### Dairy Replacement Heifers -- Average Per Head

	Avg. OfAII Farms		Low 20%		High 20%	
Number of farms		234	46		47	
Replacements 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 0.1 0.4 0.0 0.0 0.0 0.6 0.0	Value 36.20 602.13 10.60 0.11 0.04 0.45 -17.69 -135.08 12.30 510.31	Quantity 0.1 0.5 0.0 0.0 0.7 0.0	Value 22.52 445.49 17.85 0.38 - 0.42 -46.46 -177.61 22.40 285.00	Quantity 0.0 0.5 0.0 0.0 0.6 0.0	Value 35.31 954.54 9.31 - 0.10 -8.47 -96.74 31.68 932.60
Direct Expenses Protein Vit Minerals (lb.) Milk Replacer (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Hay (lb.) Other feed stuffs (lb) Breeding fees Veterinary Contract production exp. Repairs Hired labor Miscellaneous Total direct expenses Return over direct expense	281.2 21.8 469.4 5.0 4,547.2 764.9 706.5 465.5 1,118.4	81.31 35.35 112.07 24.56 106.43 56.38 41.97 27.90 51.23 23.02 19.87 145.25 35.96 49.13 73.82 884.26 -373.94	281.7 38.6 659.7 3.6 4,676.8 769.3 1,156.3 368.2 626.3	94.19 61.75 128.94 17.43 108.51 56.78 77.82 22.47 29.79 29.06 22.57 243.54 37.03 77.01 66.66 1,073.55 -788.56	310.2 4.7 250.1 5.9 3,897.6 1,145.0 254.4 345.8 1,210.9	65.79 13.59 62.66 29.01 93.30 78.40 11.54 21.24 66.22 25.41 24.09 161.19 34.19 27.97 81.17 795.77 136.83
Overhead Expenses Hired labor Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		27.35 19.71 36.82 42.41 126.29 1,010.55 -500.24		26.66 29.28 33.21 40.87 130.02 1,203.58 -918.58		40.31 14.14 32.11 41.86 128.42 924.19 8.40
Labor & management charge Net return over lbr & mgt		36.93 -537.17		22.53 -941.10		40.70 -32.29
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		2.78 3.12 3.12 3.22		3.44 3.80 3.80 3.86		2.36 2.71 2.71 2.82
Est. labor hours per unit		6.37		6.07		5.94
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		140 119 230 3.6 537.20 76.48 1,034.17 2,265.39 1.47 1,071.20 510.81		225 179 327 4.7 597.69 103.67 1,090.82 2,571.72 1.64 1,474.05 262.69		126 111 209 2.3 441.75 68.28 832.10 1,938.26 1.21 705.13 1,051.36

### Dairy and Repl Heifers -- Average Per Cow

	Avg. OfAII Farms		Low 20%		High 20%	
Number of farms		215	43		43	
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 25,954.3 - - - - -	Value 4,973.57 137.16 37.37 325.26 117.84 258.38 48.71 -68.02 -26.02 80.73 5,886.18	Quantity 24,492.7 - - - - -	Value 4,562.90 105.21 54.56 319.83 83.95 239.31 45.50 -43.79 -92.38 33.98 5,309.86	Quantity 26,665.3 - - - - -	Value 5,462.25 167.22 46.53 352.02 87.53 365.98 46.20 -33.31 -8.80 89.85 6,582.79
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay (lb.) Other feed stuffs (lb) Breeding fees Supplies Contract production exp. Repairs Hired labor Bedding Miscellaneous Total direct expenses Return over direct expense	3,944.4 1,051.7 79.6 24,047.2 2,964.9 1,717.5 4,290.9	1,003.44 642.65 403.38 560.62 243.12 111.57 239.94 74.78 180.01 149.43 239.97 424.93 110.29 636.54 5,020.68 865.50	3,123.8 909.8 67.2 24,901.3 2,517.5 2,441.4 5,414.3	923.13 719.52 362.52 575.96 199.84 169.88 247.03 77.66 175.74 196.00 241.61 561.53 142.42 676.96 5,269.81 40.05	3,605.5 857.4 78.5 22,011.8 3,226.8 1,789.3 4,257.8	950.28 706.49 404.28 519.50 268.32 123.59 249.50 72.68 163.13 44.01 255.57 163.86 118.34 581.85 4,621.41 1,961.39
Overhead Expenses  Hired labor Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		181.03 122.70 223.83 290.68 818.23 5,838.91 47.27		150.82 137.24 260.37 263.00 811.43 6,081.24 -771.38		249.08 108.28 261.04 325.58 943.98 5,565.39 1,017.40
Labor & management charge Net return over lbr & mgt		215.21 -167.94		203.65 -975.03		333.04 684.36
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		19.27 22.41 18.96 19.79		21.42 24.72 21.74 22.57		17.23 20.75 16.65 17.92
Est. labor hours per unit		43.50		45.95		42.39
Other Information Number of cows Milk produced per cow Energy corrected milk per cow Lbs of fat & protein per cow Culling percentage Turnover rate Cows per milking unit Feed cost per cwt. of milk Feed cost per cow Hired labor per cow Avg. milk price per cwt. Milk price / feed margin		293.5 26,054 28,506 1,937 28.9 34.4 23 12.30 3,204.72 605.96 19.16 6.86		260.5 24,597 27,202 1,856 27.6 34.6 21 13.00 3,197.88 712.35 18.63 5.63		214.2 26,825 29,706 2,022 27.3 32.7 23 12.01 3,221.97 412.95 20.48 8.47

# Dairy and Repl Heifers -- Average Per Cow -- Trend

	<i>2019</i>	<i>2020</i>	<u> 2021</u>		
Number of farms	233	245	240	208	212
Milk sold Dairy Calves sold Transferred out Cull sales Insurance income Government payments Contract Income	4,576.10 52.92 22.18 206.29 10.41 95.93	4,954.71 67.33 40.09 204.64 26.68 592.40	4,656.37 78.40 26.35 232.85 21.75 243.50	6,180.24 97.98 56.25 285.62 10.40 29.01	4,964.04 136.78 37.66 324.99 118.48 256.11 1.22
Other income Purchased Transferred in Inventory change Gross margin	35.00 -48.63 -5.11 62.71 5,007.79	26.50 -70.57 -3.16 105.33 5,943.95	44.88 -87.48 -5.38 119.37 5,330.62	-9.89 -36.38 -6.33 40.91 6,647.80	49.17 -68.67 -26.27 80.57 5,874.08
Direct Expenses Protein Vit Minerals Complete Ration Corn Corn Silage Hay, Alfalfa Other feed stuffs Breeding fees Veterinary Supplies Contract production exp. Fuel & oil Repairs Hired labor Hauling and trucking Miscellaneous Total direct expenses Return over direct expense	779,96 430.86 265.09 385.77 253.22 281.89 63.44 123.41 132.90 124.05 92.25 176.21 381.09 98.78 312.05 3,900.95 1,106.84	823.17 530.92 252.16 426.66 263.41 283.71 67.01 134.45 156.11 144.75 77.55 230.75 422.15 88.32 339.84 4,240.96 1,702.99	883.28 533.60 321.03 496.96 255.81 316.57 70.33 128.24 138.90 194.56 85.05 195.86 366.42 86.96 286.39 4,359.96 970.66	1,060.02 648.19 471.00 582.56 286.73 311.95 72.14 117.33 175.86 167.98 140.61 239.10 413.56 122.59 361.91 5,171.54	1,002.07 647.28 402.13 559.18 234.21 350.49 74.78 118.29 179.32 150.87 121.86 240.29 427.57 121.84 386.10 5,016.28 857.79
Overhead Expenses Hired labor Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return  Labor & management charge	115.29 114.88 214.56 235.03 679.76 4,580.71 427.08	126.79 107.00 216.29 261.05 711.14 4,952.10 991.85	186.46 94.99 206.50 259.34 747.29 5,107.25 223.37	150.42 107.17 238.62 261.29 757.49 5,929.03 718.77	180.78 123.76 224.78 290.21 819.54 5,835.82 38.25
Net return over lbr & mgt  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	239.54 15.78 18.53 16.86 17.61	777.81 16.77 19.58 15.75 16.59	34.02 17.18 20.12 17.52 18.27	20.17 23.12 21.36 22.23	-173.63 19.28 22.43 18.98 19.80
Est. labor hours per unit	43.91	43.99	40.39	41.57	43.45
Other Information Number of cows Milk produced per cow Energy corrected milk per cow Lbs of protein & fat per cow Culling percentage Turnover rate Cows per milking unit Feed cost per cwt. of milk Feed cost per cow Hired labor per cow Avg. milk price per cwt. Milk price / feed margin	249.0 24,726 23,720 1,468 30.5 37.2 25 9.69 2,396.79 496.38 18.63 8.93	262.9 25,286 27,059 1,766 29.2 35.5 22 10.20 2,580.02 548.94 19.70 9.50	295.1 25,383 27,651 1,818 29.4 35.7 23 11.06 2,807.24 552.88 18.43 7.37	282.4 25,643 28,401 1,873 29.9 36.8 22 13.10 3,360.44 563.99 24.24 11.13	294.8 26,015 29,157 1,935 28.9 34.4 23 12.28 3,195.36 608.36 19.16 6.87

### Dairy Finishing -- Average Per Head

	Avg. Of All Farms		Low 20%		High 20%	
Number of farms		92	18		-	19
Dairy Finish sold (lb) Transferred out (lb) Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 1,326.8 0.0 -347.1 -64.5 97.9	Value 2,045.88 0.04 12.31 -694.63 -104.16 424.99 1,684.43	Quantity 1,356.9 - -452.2 -27.9 34.4	Value 1,951.13 - 4.70 -868.12 -34.60 201.26 1,254.37	Quantity 1,190.0 - -150.1 -61.3 214.8	Value 2,055.33 - 14.48 -463.08 -102.33 713.77 2,218.16
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) Screenings, Heavy (lb.) DDGS, dry (lb.) Other feed stuffs (lb) Veterinary Fuel & oil Repairs Custom hire Hauling and trucking Operating interest Miscellaneous Total direct expenses Return over direct expense	720.0 465.8 94.7 1,220.0 282.0 562.1 1,788.3	150.10 85.67 477.26 28.63 21.15 31.13 83.03 35.07 23.01 44.59 19.51 25.29 32.08 59.91 1,116.42 568.00	419.0 864.3 99.3 524.6 137.7 1,197.3	118.61 178.56 499.51 11.03 - 7.62 54.38 28.02 15.22 46.11 1.62 34.27 46.60 49.51 1,091.06 163.31	526.1 346.3 70.9 2,028.6 1,187.2 1,840.5 842.7	139.31 18.88 365.34 49.25 89.04 85.48 42.56 72.02 24.65 41.82 62.65 25.40 23.44 68.20 1,108.04 1,110.11
Overhead Expenses Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		22.45 47.54 66.18 136.17 1,252.60 431.83		25.82 68.32 83.70 177.85 1,268.90 -14.54		18.55 27.78 46.97 93.30 1,201.34 1,016.81
Labor & management charge Net return over lbr & mgt		65.98 365.85		64.64 -79.18		62.94 953.88
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		111.39 121.65 121.65 126.62		131.76 144.87 144.87 149.63		79.45 87.29 87.27 92.56
Est. labor hours per unit		4.59		3.98		3.73
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.		255 214 3.7 2.50 8.23 9.16 85.87 876.97 26.48 404 1,434 808.26 154.20		350 313 4.9 2.38 8.64 8.91 95.12 869.70 21.44 466 1,388 894.08 143.80		294 218 3.9 2.51 6.70 7.77 65.69 789.87 36.99 195 1,451 600.08 172.72

### Dairy Finishing -- Average Per Cwt. Produced

	Avg. Of All Farms		Low 20%		High 20%	
Number of farms		92		18	_	19
Dairy Finish sold (lb) Transferred out (lb) Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 129.91 0.00 -33.99 -6.32 9.59	Value 200.33 0.00 1.20 -68.02 -10.20 41.61 164.93	Quantity 148.41 - -49.46 -3.05 3.76	Value 213.41 - 0.51 -94.95 -3.78 22.01 137.20	Quantity 98.96 - -12.49 -5.10 17.86	Value 170.92 - 1.20 -38.51 -8.51 59.36 184.46
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) Screenings, Heavy (lb.) DDGS, dry (lb.) Other feed stuffs (lb) Veterinary Repairs Custom hire Hauling and trucking Operating interest Miscellaneous Total direct expenses Return over direct expense	70.50 45.61 9.27 119.45 27.61 55.04 175.10	14.70 8.39 46.73 2.80 2.07 3.05 8.13 3.43 4.37 1.91 2.48 3.14 8.12 109.32 55.62	45.83 94.53 10.87 57.38 15.07 130.96	12.97 19.53 54.63 1.21 - 0.83 5.95 3.07 5.04 0.18 3.75 5.10 7.08 119.34 17.86	43.75 28.80 5.89 168.70 98.73 153.05 70.08	11.59 1.57 30.38 4.10 7.40 7.11 3.54 5.99 3.48 5.21 2.11 1.95 7.72 92.15 92.32
Overhead Expenses Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		2.20 4.66 6.48 13.33 122.65 42.28		2.82 7.47 9.16 19.45 138.79 -1.59		1.54 2.31 3.91 7.76 99.90 84.56
Labor & management charge Net return over lbr & mgt		6.46 35.82		7.07 -8.66		5.23 79.32
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		111.39 121.65 121.65 126.62		131.76 144.87 144.87 149.63		79.45 87.29 87.27 92.56
Est. labor hours per unit		0.45		0.44		0.31
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.		255 214 3.7 2.50 8.23 9.16 85.87 876.97 26.48 404 1,434 808.26 154.20		350 313 4.9 2.38 8.64 8.91 95.12 869.70 21.44 466 1,388 894.08 143.80		294 218 3.9 2.51 6.70 7.77 65.69 789.87 36.99 195 1,451 600.08 172.72

#### Sheep, Market Lamb Prod -- Average Per Ewe

	Avg. Of All Farms		
Number of farms		9	
Lambs sold (lb) Mkt Lambs sold (lb) Cull sales (lb) Government payments Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 3.8 157.8 14.6 -5.1 -1.2 5.2	Value 0.24 307.25 15.30 3.61 10.12 -20.61 -1.16 40.80 355.55	
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Other feed stuffs (lb) Repairs Hauling and trucking Bedding Miscellaneous Total direct expenses Return over direct expense	212.0 143.0 7.7 1,180.9 550.1 150.2 276.8	47.97 27.19 41.18 29.46 42.34 9.75 19.40 14.69 2.02 3.04 46.04 283.07 72.48	
Overhead Expenses Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		11.66 11.57 19.25 19.10 61.58 344.65 10.90	
Labor & management charge Net return over lbr & mgt		60.77 -49.87	
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		160.37 195.26 184.98 219.41	
Est. labor hours per unit		3.52	
Other Information Number of ewes Pregnancy percentage Pregnancy loss percentage Female turnover rate Lambs born / ewe exposed Lambs born / ewe lambing Lambs weaned/ewe exposed Lambs sold per ewe Lamb dth loss (died/born) Ewe death loss percentage Ewes per FTE Average weaning weight Lb. weaned/exposed female Feed cost per ewe Avg wgt/Mkt Lambs sold Avg price / cwt.		257.7 97.3 1.7 15.05 1.79 1.87 1.41 1.27 10.9 5.5 794.9 53 75 217.29 125 194.71	

#### Livestock Enterprise Analysis Minnesota Statewide (Farms Sorted By Net Return)

#### Sheep, Market Lamb Prod -- Average Per Cwt. Produced

	Avg. Of All Farms		
Number of farms		9	
Lambs sold (lb) Mkt Lambs sold (lb) Cull sales (lb) Government payments Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 2.14 89.40 8.30  -2.87 -0.66 2.95	Value 0.14 174.08 8.67 2.04 5.74 -11.68 -0.66 23.11 201.44	
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Other feed stuffs (lb) Veterinary Repairs Hauling and trucking Bedding Miscellaneous Total direct expenses Return over direct expense	120.09 81.00 4.38 669.06 311.64 85.12 156.84	27.18 15.40 23.33 16.69 23.99 5.52 10.99 5.35 8.32 1.14 1.72 20.73 160.37 41.07	
Overhead Expenses Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		6.56 10.91 17.43 34.89 195.26 6.18	
Labor & management charge Net return over lbr & mgt		34.43 -28.25	
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		160.37 195.26 184.98 219.41	
Est. labor hours per unit		2.00	
Other Information Number of ewes Pregnancy percentage Pregnancy loss percentage Female turnover rate Lambs born / ewe exposed Lambs born / ewe lambing Lambs weaned/ewe exposed Lambs sold per ewe Lamb dth loss (died/born) Ewe death loss percentage Ewes per FTE Average weaning weight Lb. weaned/exposed female Feed cost per ewe Avg wgt/Mkt Lambs sold Avg price / cwt.		257.7 97.3 1.7 15.05 1.79 1.87 1.41 1.27 10.9 5.5 794.9 53 75 217.29 125 194.71	

#### Livestock Enterprise Analysis Minnesota Statewide (Farms Sorted By Years)

#### Sheep, Market Lamb Prod -- Average Per Ewe -- Trend

	• •				
	<u> 2019</u>	<u> 2020</u>	<u> 2021</u>	<u> 2022</u>	<u> 2023</u>
Number of farms	5	6	9	12	12
Lambs sold	10.26	1.85	2.50	0.74	0.48
Mkt Lambs sold	305.89	225.54	379.18	347.19	321.32
Transferred out	2.76	0.24	- 2F 40	-	20.20
Cull sales Government payments	12.99	13.21 38.68	35.49 1.43	22.26 1.31	20.29 3.92
Other income	- -	0.28	0.55	2.13	7.42
Purchased	-21.61	-4.83	-0.27	-21.36	-14.20
Transferred in	-	-	-	-2.31	-0.79
Inventory change	-5.80	-28.76	31.85	-43.09	22.55
Gross margin	304.49	246.21	450.73	306.87	360.97
Direct Expenses					
Protein Vit Minerals	46.92	33.83	58.49	67.86	60.65
Complete Ration	12.45	18.73	20.76	16.98	18.53
Corn Silago	38.56	27.94	40.93 6.79	58.87 12.24	37.46 24.52
Corn Silage Hay, Alfalfa	6.64 30.56	14.91 18.65	33.34	13.26 35.55	45.88
Hay, Grass	24.13	7.34	20.14	22.58	18.15
Haylage, Alfalfa	-	18.35	1.34	-	4.95
Other feed stuffs	8.14	25.88	8.95	23.52	13.56
Supplies	14.77	11.02	13.88	13.14	8.80
Repairs	11.61	22.70	15.16	14.46	16.14
Hired labor	23.08	8.25	2.48	5.87	2.25
Miscellaneous	47.49	30.47	22.25	30.82	38.08
Total direct expenses	264.34	238.08	244.51	302.91	288.97
Return over direct expense	40.15	8.13	206.22	3.96	72.00
Overhead Expenses					
Hired labor	0.46	0.50	19.16	19.28	8.04
Mach & bldg depreciation	18.66	25.16	23.88	29.34	23.13
Miscellaneous Total overhead expenses	26.97 46.08	20.90 46.56	39.71 82.75	40.92 89.53	35.95 67.13
Total dir & ovhd expenses	310.42	284.64	327.25	392.45	356.10
Net return	-5.93	-38.43	123.48	-85.58	4.87
Labor & management charge	66.90	57.90	68.35	66.56	64.57
Net return over lbr & mgt	-72.83	-96.34	55.12	-152.14	-59.70
Cost of Production Per Cwt. Produced					
Total direct expense per unit	135.79	143.28	137.24	159.43	159.10
Total dir& ovhd expense per unit	159.46	171.30	183.69	206.55	196.06
With other revenue adjustments	166.97	144.67	158.76	212.28	186.00
With labor and management	201.34	179.51	197.13	247.31	221.55
Est. labor hours per unit	5.77	4.02	4.72	5.34	3.54
Other Information					
Number of ewes	295.8	212.0	249.7	201.5	283.5
Pregnancy percentage	97.6	95.8	97.1	96.4	97.6
Pregnancy loss percentage	1.2	0.4	0.4	0.7	1.3
Female turnover rate Lambs born / ewe exposed	18.66 1.74	14.70 1.62	21.94 1.79	14.35 1.66	21.07 1.81
Lambs born / ewe lambing	1.81	1.70	1.85	1.74	1.88
Lambs weaned/ewe exposed	1.61	1.44	1.67	1.49	1.49
Lambs sold per ewe	1.46	1.20	1.21	1.53	1.28
Lamb dth loss (died/born)	11.8	15.5	10.5	11.6	11.2
Ewe death loss percentage	6.5	10.9	6.9	5.9	6.1
Ewes per FTE	485.3	697.3	593.2	524.5	790.7
Average weaning weight	47	51	53	50	50
Lb. weaned/exposed female	76	74	89	74	74
Feed cost per ewe	167.39	165.63	190.73	238.63	223.69
Avg wgt/Mkt Lambs sold	137 155 62	134	127 246.96	116 105.51	130
Avg price / cwt.	155.63	141.12	246.86	195.51	192.29

## **Summary Tables**

### Financial Summary by Years

A better picture of the current financial performance can be seen by comparing this year to previous years in the *Summary by Years* table. All items are taken from the annual report for that year. Monetary values are left in nominal terms unadjusted for inflation. The one exception is the *Net Farm Income* (Constant \$) using the Consumer Price Index (CPI-U) from the U. S. Department of Commerce. This shows the changes in "buying power" for the farmers, compared to the current year. The CPI used is reported below.

	CPI-U		CPI-U
Year	(1982-84 = 100)	Year	(1982-84 = 100)
2000	172.2	2012	229.6
2001	177.1	2013	233.0
2002	179.9	2014	236.7
2003	184.0	2015	237.0
2004	188.9	2016	240.0
2005	195.3	2017	245.1
2006	201.6	2018	251.1
2007	207.3	2019	255.7
2008	215.3	2020	258.8
2009	214.5	2021	271.0
2010	218.1	2022	292.7
2011	224.9	2023	304.7
2008 2009 2010	215.3 214.5 218.1	2020 2021 2022	258.8 271.0 292.7

Figure 37: Consumer Price Index (CPI-U) values used for inflation adjustments.

## Financial Summary by Farm Size (Gross Farm Income)

This table summarizes whole-farm financial performance by size of farm. Farms are categorized based on gross farm income.

## Financial Summary by Farm Type

This table summarizes whole-farm financial performance by type of farm. Farm type is assigned based on greater than 70 percent of sales from that commodity or combination of commodities.

## Financial Summary by Debt to Asset Ratio

This table summarizes whole-farm financial performance by debt level. Farms are categorized based on total farm and non-farm debt to asset ratio.

## Financial Summary by Age of Operator

This table summarizes whole-farm financial performance based on age of the primary operator.

#### SUMMARY OF THE WHOLE FARM ANALYSIS BY YEARS

Southwest Minnesota Farm Business Management Association (Overall averages for all farms reporting)

Row	Items	2004	2005	2006	2007	2008	2009	2010	2011	2012
1 <b>N</b> ı	umber of Farms	125	107	110	107	99	95	97	107	110
Fa	arm Income Statement									
2	Gross Cash Farm Income	496,771	579,201	609,886	731,897	876,375	878,404	970,471	1,150,686	1,332,519
3	Total Cash Farm Expense	404,743	477,476	494,409	592,841	720,364	743,487	781,053	898,752	1,057,018
4	Inventory Change	31,076	74,307	66,397	135,843	70,051	-21,159	178,977	136,582	157,209
5	Depr. & Cap. Adj.	-24,741	-28,170	-27,176	-32,631	-39,437	-43,972	-48,085	-55,244	-66,085
6	Net Farm Income from Operations	98,362	147,862	154,698	242,267	186,625	69,787	320,310	333,272	366,624
7	Gain or Loss on Capital Sales	0	0	0	0	4,276	0	1,855	3,015	10,447
8	Net Farm Income	98,362	147,862	154,698	242,267	190,901	69,787	322,165	336,287	377,071
9 <b>N</b> o	et Farm Income (Constant \$)	158,660	230,689	233,812	356,096	270,170	99,133	450,086	455,610	500,407
Pı	rofitability*									
10	Rate of Return on Assets (%)	11	14	13	17	11	3	17	16	14
11	Rate of Return on Equity (%)	16	21	19	25	15	2	24	21	19
12	Operating Profit Margin (%)	23	28	28	35	26	9	36	35	30
13	Asset Turnover Rate (%)	46	51	48	50	43	37	47	46	46
14	Value of Farm Production	378,450	478,073	512,081	648,768	658,576	608,181	819,691	871,265	1,052,663
15	Farm Interest Paid	21,824	22,210	27,677	30,714	30,232	29,727	34,124	28,447	27,141
	quidity, Repayment and Efficiency									
16	Current Ratio	1.9	2.1	2.2	2.5	2.6	2.3	2.9	3.3	3.1
17	Working Capital	155,804	218,745	268,567	393,911	446,350	404,104	568,438	659,446	771,719
18	Working Capital to Gross Revenue (%)	30	34	40	46	49	45	50	52	52
19	Working Capital to Operating Expense (%)	42	49	58	72	69	54	78	78	75 4.2
20	Debt Coverage Ratio	2.0	2.7	2.7	3.6	2.7 2.9	1.1	4.6 5.1	5.0 5.4	4.3 4.5
21 22	Term Debt Coverage Ratio Operating Expense Ratio (%)	2.0 72.1	2.9 69.2	3.0 68.7	4.0 64.1	71.6	1.1 83.6	64.8	66.9	69.1
23	Interest Expense Ratio (%)	4.2	3.5	4.3	3.7	3.3	3.3	3.0	2.3	1.8
9,	olvency (Year-end, Sole Proprietors Only)*									
24	No. of Sole Proprietors	109	91	93	91	85	80	80	87	85
25	Total Assets	1,286,775	1,487,232	1,694,428	2,034,365	2,208,883	2,376,886	2,719,826	2,922,324	3,515,081
26	Total Liabilities	554,962	618,105	698,239	810,184	837,830	892,734	987,753	1,068,183	1,057,882
27	Net Worth	731,813	869,127	996,189	1,224,181	1,371,053	1,484,151	1,732,074	1,854,181	2,288,721
28	Debt to Asset Ratio (%)	43	42	41	40	38	38	36	37	35
A	creage Information									
29	Total Acres Owned	236	241	243	241	249	250	240	232	216
30	Total Crop Acres Farmed	766	792	797	825	822	831	831	791	886
31	Crop Acres Owned	193	199	197	208	222	224	221	202	205
32	Crop Acres Cash Rented	494	532	526	546	536	555	550	532	617
33	Crop Acres Share Rented	79	61	74	71	64	52	61	57	63
Cı	rop Yields									
34	Corn per acre (bu.)	171	192	169	162	172	185	184	173	162
35	Soybeans per acre (bu.)	41	55	51	49	44	49	51	46	47
	rop Prices Received (cash sales)									
36	Corn per Bushel	2.28	1.89	2.04	3.00	4.51	3.83	3.67	5.29	6.27
37	Soybeans per Bushel	7.17	5.88	5.57	7.14	10.83	10.15	9.72	11.58	13.07
	ousehold Information									
38	No. Farms Reporting HseHld Info	73	67	66	60	62	52	46	43	42
39	Average Family Size	3.4	3.4	3.3	3.1	3.0	3.3	3.0	3.0	2.9
40	Family living expense	48,371	50,608	51,569	56,229	59,939	62,182	63,848	73,704	73,904
41	Total Family Use of Cash	68,029	74,513	82,670	98,388	100,933	123,590	108,468	119,913	135,406
42 <b>N</b>	et Nonfarm Income	23,733	24,774	31,059	25,164	28,456	29,369	29,543	35,042	30,841

<sup>\*</sup> Beginning in 1993, profitability is analyzed using assets valued at adjusted cost basis while solvency is at estimated fair market value. Prior to 1993, profitability and solvency were analyzed using land valued with a conservative market value and all other assets valued at cost basis.

#### SUMMARY OF THE WHOLE FARM ANALYSIS BY YEARS (continued)

Southwest Minnesota Farm Business Management Association (Overall averages for all farms reporting)

Row	2023	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013
1	116	111	110	108	106	101	104	103	103	109	117
tatement	Farm Income St										
2	1,269,180	1,402,893	1,268,240	1,099,964	946,154	865,101	941,931	918,546	997,581	1,086,085	1,285,081
3	976,294	1,103,396	964,451	931,696	783,687	703,195	783,231	748,909	798,226	856,705	1,029,631
4	-194,542	140,788	230,258	221,729	52,089	-25,846	-7,784	-8,515	-68,430	-49,479	-53,364
5	-79,695	-86,655	-78,109	-76,433	-71,520	-68,737	-74,624	-71,987	-73,028	-70,801	-69,322
6	18,649	353,631	455,938	313,564	143,035	67,324	76,292	89,135	57,897	109,100	132,764
7	16,107	12,215	17,247	8,838	1,969	4,732	8,475	-418	1,944	9,296	4,404
8	34,756	365,846	473,185	322,402	145,004	72,056	84,767	88,717	59,841	118,396	137,168
9	34,756	380,845	532,028	379,582	172,791	87,437	105,379	112,634	76,935	152,409	179,378
fitability*	Prof										
10	0	9	14	10	5	2	2	3	1	3	4
11	-2	12	19	14	5	0	1	2	0	3	4
12	-1	26	35	28	16	6	7	8	4	10	11
13	27	36	39	36	31	29	30	31	31	34	34
14	842,143	1,160,076	1,151,305	989,072	772,867	716,296	735,601	738,186	729,443	790,270	819,449
15	46,196	36,269	31,348	40,368	43,563	37,490	35,049	30,723	27,225	26,239	27,405
Efficiency	Repayment and Ef										
16	2.6	3.3	3.4	2.4	2.1	1.9	1.8	1.9	2.2	2.6	2.7
17	626,662	907,095	837,467	601,113	419,247	364,975	367,795	395,033	455,840	562,147	646,719
18	56	60	58	46	42	42	39	42	49	54	53
19	64	87	95	69	57	52	49	53	58	68	65
20	0.7	3.8	5.7	3.8	2.0	1.2	1.2	1.4	0.9	1.4	1.7
21	0.6	4.2	6.3	4.2	2.2	1.2	1.3	1.4	0.9	1.4	1.7
22	87.1	69.0	61.0	66.8	74.0	80.1	80.1	79.0	83.0	80.0	81.4
23	4.1	2.4	2.2	3.1	4.4	4.3	3.8	3.0	3.0	2.6	2.2
rs Only)*	nd, Sole Proprietor	vency (Year-ei	Sol								
24	101	94	92	90	85	80	83	81	81	84	89
25	5,170,473	5,317,361	4,953,705	4,396,884	4,275,004	4,140,478	4,126,516	3,994,222	3,953,187	3,670,892	3,667,344
26	1,601,001	1,669,413	1,506,174	1,357,861	1,306,029	1,313,213	1,329,095	1,297,771	1,283,940	1,241,969	1,271,925
27	3,569,472	3,647,948	3,447,531	3,039,023	2,968,975	2,827,265	2,797,420	2,696,451	2,669,246	2,428,924	2,395,419
28	31	35	34	31	31	32	32	32	32	34	35
	Acreage Info										
29	281	282	276	226	235	240	226	210	210	208	211
30	855	863	883	906	940	947	940	939	940	902	845
31	230	226	222	237	233	233	233	236	226	208	203
32	575	595	625	629	659	665	661	651	661	626	592
33	50	42	36	40	48	48	46	53	53	67	50
op Yields											
34	199	198	200	201	164	175	204	207	204	167	175
35	54	53	58	58	49	53	55	62	58	48	52
20	6 17	6.06	101	2 27	2 50	2 27	2 17	2 20	2.62	4 2E	6.40
36 37	6.17 13.86	6.06 13.97	4.84 11.59	3.37 9.08	3.58 8.46	3.27 9.20	3.17 9.23	3.38 8.92	3.63 10.12	4.35 12.73	6.48 13.97
31	13.00	13.91	11.55	9.00	0.40	3.20	3.20	0.32	10.12	12.70	10.31
ormation 38	Household Info	29	35	35	39	34	45	44	32	41	32
39	3.2	2.8	2.8	2.5	2.9	2.6	2.6	3.0	3.1	2.8	3.0
40	85,495	69,517	68,562	62,504	66,585	72,096	69,964	73,384	64,621	73,073	72,592
41	202,819	163,829	148,162	100,287	99,802	110,123	116,348	125,223	158,913	140,853	159,539
42	66,243	53,971	66,037	51,952	47,034	41,141	38,552	39,590	36,083	42,073	35,723
72	00,270	00,011	00,001	01,002	17,004	11,171	00,002	55,550	55,000	12,010	55,725

## Financial Summary Southwest Minnesota Farm Business Management Association (Farms Sorted By Gross Farm Income)

	Avg. Of All Farms	100,001 - 250.000	250,001 - 500,000	500,001 - 1.000.000	1,000,001- 2.000.000	Over 2,000,000
Number of farms	116	15	23	36	30	11
Income Statement Gross cash farm income Total cash farm expense Net cash farm income	1,269,180	153,045	395,123	737,794	1,371,170	6,193,117
	976,294	122,637	265,299	531,687	900,872	5,374,785
	292,886	30,408	129,824	206,108	470,299	818,332
Inventory change Depreciation Net farm income from operations Gain or loss on capital sales Average pat form income	-194,542 -79,695 18,649 16,107	-619 -11,801 17,988 440 18,428	-56,808 -38,496 34,521 6,080 40,601	-77,635 -63,019 65,454 10,648 76,102	-249,966 -110,512 109,821 42,928 152,748	-996,115 -235,734 -413,516 4,623
Average net farm income Median net farm income	34,756 52,653	11,055	30,341	90,815	132,855	-408,893 -267,811
Profitability (cost) Rate of return on assets Rate of return on equity	-0.2 %	1.3 %	0.6 %	1.4 %	1.8 %	-3.7 %
	-2.4 %	-0.1 %	-0.5 %	0.3 %	0.7 %	-8.8 %
Operating profit margin	-0.8 %	5.6 %	2.7 %	4.5 %	6.7 %	-14.9 %
Asset turnover rate	26.5 %	23.0 %	23.4 %	30.1 %	27.3 %	24.6 %
Profitability (market) Rate of return on assets Rate of return on equity	3.2 %	2.4 %	4.4 %	4.4 %	4.8 %	-0.2 %
	3.4 %	2.3 %	5.3 %	5.4 %	6.3 %	-2.8 %
Operating profit margin Asset turnover rate	17.3 %	16.4 %	33.4 %	23.1 %	25.8 %	-1.0 %
	18.3 %	14.6 %	13.3 %	19.0 %	18.8 %	19.3 %
Liquidity & Repayment (end of year) Current assets Current liabilities	1,008,792	186,468	410,295	622,363	1,461,614	3,501,942
	382,131	34,383	89,081	201,528	427,973	1,969,219
Current ratio Working capital Change in working capital	2.64 626,662 -214,596	5.42 152,085 875	4.61 321,214 -92,964	3.09 420,834 -121,193	3.42 1,033,641 -271,267	1,532,723 -930,943
Working capital to gross revenue Working capital to oper expense Debt coverage ratio	55.8 %	95.8 %	92.6 %	62.4 %	86.7 %	28.2 %
	64.1 %	127.0 %	124.2 %	80.7 %	113.0 %	28.3 %
	0.65	1.99	1.21	1.58	1.30	-0.65
Term debt coverage ratio	0.60	2.12	1.25	1.66	1.32	-1.09
Replacement coverage ratio	0.45	1.65	0.66	1.02	0.80	-0.53
Term debt to EBITDA	4.49	4.53	2.63	2.42	3.35	76.63
Solvency (end of year at cost) Number of farms Total assets	116 3,784,759	15 1,182,671	23 1,979,704	36 2,707,741	30 5,161,314	11 11,180,463
Total liabilities Total liabilities Net worth Net worth change	1,133,124	393,932	423,918	706,964	1,445,474	4,245,902
	2,651,634	788,739	1,555,786	2,000,777	3,715,841	6,934,561
	-9,291	49,922	111,492	71,193	24,677	-699,872
Farm debt to asset ratio Total debt to asset ratio Change in earned net worth %	33 %	44 %	22 %	29 %	31 %	39 %
	30 %	33 %	21 %	26 %	28 %	38 %
	0 %	7 %	8 %	4 %	1 %	-9 %
Solvency (end of year at market) Number of farms Total assets	116 5,583,816	15 1,625,471	23 3,723,814	36 4,165,816	30 7,577,963	11 14,531,126
Totalliabilities Net worth Total net worth change	1,841,924	505,875	854,132	1,235,292	2,540,884	5,950,659
	3,741,892	1,119,596	2,869,682	2,930,525	5,037,078	8,580,466
	154,187	68,490	155,040	215,084	296,684	-305,567
Farm debt to asset ratio Total debt to asset ratio Change in total net worth %	36 %	38 %	27 %	32 %	37 %	42 %
	33 %	31 %	23 %	30 %	34 %	41 %
	4 %	7 %	6 %	8 %	6 %	-3 %
Nonfarm Information Net nonfarm income Farms reporting living expenses Total family living expense	66,243 39 85,495	75,647 7 76,347	71,494 9 88,290	76,576 10 95,463	61,214 11 83,327	27,703 2
Total living, invest, cap. purch	202,819	105,280	164,895	308,496	181,285	-
Crop Acres Total crop acres Total crop acres owned Total crop acres cash rented	855	136	416	711	1,105	2,617
	230	50	113	185	335	599
	575	86	207	457	752	1,965
Total crop acres cash reflect Total crop acres share rented Machinery value per crop acre	50 944	451	95 941	69 948	18 1,206	52 675

#### Financial Summary Southwest Minnesota Farm Business Management Association (Farms Sorted By Farm Type)

	Avg. Of All Farms	Crop	Other
Number of farms	116	85	20
Income Statement Gross cash farm income	1,269,180	927,801	938,801
Total cash farm expense	976,294	661,398	688,967
Net cash farm income	292,886	266,403	249,834
Inventory change	-194,542	-157,054	-45,957
Depreciation	-79,695	-66,508	-103,012
Net farm income from operations	18,649	42,841	100,865
Gain or loss on capital sales	16,107	11,926	41,106
Average net farm income	34,756	54,767	141,971
Median net farm income	52,653	52,622	72,062
Profitability (cost)	0.00/	0.00/	0.4.0/
Rate of return on assets	-0.2 %	0.3 %	2.4 %
Rate of return on equity Operating profit margin	-2.4 % -0.8 %	-1.3 % 1.0 %	1.5 % 12.8 %
Asset turnover rate	26.5 %	31.1 %	18.4 %
Profitability (market) Rate of return on assets	3.2 %	4.6 %	2.8 %
Rate of return on assets	3.4 %	5.7 %	2.9 %
Operating profit margin	17.3 %	21.8 %	21.8 %
Asset turnover rate	18.3 %	20.9 %	13.0 %
Liquidity & Repayment (end of year)			
Current assets	1,008,792	926,511	1,034,358
Current liabilities	382,131	252,831	484,671
Current ratio	2.64	3.66	2.13
Working capital	626,662	673,681	549,687
Change in working capital	-214,596	-209,009	-71,947
Working capital to gross revenue Working capital to oper expense	55.8 % 64.1 %	82.8 % 100.4 %	60.7 % 85.1 %
Debt coverage ratio	0.65	0.97	1.08
Term debt coverage ratio	0.60	0.97	1.09
Replacement coverage ratio	0.45	0.61	0.77
Term debt to EBITDA	4.49	3.35	3.70
Solvency (end of year at cost)			
Number of farms	116	85	20
Total assets	3,784,759	3,197,124	4,964,295
Total liabilities	1,133,124	862,878	1,404,621
Net worth	2,651,634	2,334,245	3,559,674
Net worth change Farm debt to asset ratio	-9,291 33 %	32,710 29 %	24,915 33 %
Total debt to asset ratio	30 %	27 %	28 %
Change in earned net worth %	0 %	1 %	1 %
Solvency (end of year at market) Number of farms	116	85	20
Total assets	5,583,816	4,784,268	7,321,915
Total liabilities	1,841,924	1,537,341	2,181,420
Net worth	3,741,892	3,246,926	5,140,495
Total net worth change	154,187	240,368	-25,241
Farm debt to asset ratio	36 %	34 %	36 %
Total debt to asset ratio	33 %	32 %	30 %
Change in total net worth %	4 %	8 %	0 %
Nonfarm Information	00.040	75.004	00.044
Net nonfarm income	66,243	75,691 31	39,644
Farms reporting living expenses Total family living expense	39 85,495	31 81.766	5 104,262
Total living, invest, cap. purch	202,819	206,422	230,824
Crop Agree			
Crop Acres Total crop acres	855	931	615
Total crop acres owned	230	206	260
Total crop acres cash rented	575	666	319
Total crop acres share rented	50	59	36
Machinery value per crop acre	944	836	1,615

## Financial Summary Southwest Minnesota Farm Business Management Association (Farms Sorted By Debt to Asset Ratio)

	Avg. Of All Farms	Less than	<u> 20% - 40%</u>	40% - 60%	60% - 80%
Number of farms	116	28	44	34	7
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	1,269,180	615,528	1,242,980	2,037,584	732,913
	976,294	379,807	844,488	1,754,692	686,901
	292,886	235,720	398,492	282,891	46,012
	-194,542	-120,195	-273,661	-223,554	47,619
	-79,695	-55,369	-96,999	-84,150	-74,916
	18,649	60,157	27,832	-24,813	18,715
	16,107	6,736	13,635	9,992	105,737
	34,756	66,893	41,467	-14,821	124,452
	52,653	54,299	58,783	50,071	30,341
Profitability (cost) Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	-0.2 %	0.7 %	-0.3 %	-0.7 %	0.9 %
	-2.4 %	0.5 %	-1.6 %	-6.1 %	-17.4 %
	-0.8 %	2.7 %	-1.1 %	-2.2 %	2.0 %
	26.5 %	24.3 %	23.3 %	30.4 %	44.6 %
Profitability (market) Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	3.2 %	3.1 %	3.1 %	3.4 %	2.4 %
	3.4 %	3.7 %	3.5 %	3.2 %	-1.2 %
	17.3 %	22.5 %	19.0 %	15.0 %	7.5 %
	18.3 %	13.8 %	16.2 %	22.8 %	31.9 %
Liquidity & Repayment (end of year) Current assets Current liabilities Current ratio Working capital Change in working capital Working capital to gross revenue Working capital to oper expense Debt coverage ratio Term debt coverage ratio Replacement coverage ratio Term debt to EBITDA	1,008,792	688,798	1,137,851	1,308,116	394,131
	382,131	43,213	318,469	752,383	440,061
	2.64	15.94	3.57	1,74	0.90
	626,662	645,585	819,382	555,733	-45,931
	-214,596	-134,100	-222,297	-321,730	-33,863
	55.8 %	122.9 %	77.3 %	30.2 %	-6.1 %
	64.1 %	158.8 %	91.4 %	32.8 %	-7.7 %
	0.65	3.02	0.92	0.24	0.70
	0.60	2.97	0.91	0.04	0.70
	0.45	0.77	0.57	0.20	0.59
	4.49	0.58	4.03	7.19	6.14
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 %	116	28	44	34	7
	3,784,759	2,921,418	4,679,402	3,952,972	1,832,040
	1,133,124	131,281	1,106,699	1,928,018	1,434,216
	2,651,634	2,790,137	3,572,703	2,024,954	397,825
	-9,291	121,558	-29,791	-110,968	71,027
	33 %	4 %	26 %	50 %	82 %
	30 %	4 %	24 %	49 %	78 %
	0 %	5 %	-1 %	-5 %	22 %
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 %	116	28	44	34	7
	5,583,816	5,128,961	6,792,387	5,388,442	2,541,932
	1,841,924	740,445	1,982,853	2,653,144	1,697,010
	3,741,892	4,388,515	4,809,534	2,735,297	844,922
	154,187	172,289	196,545	104,132	115,571
	36 %	17 %	31 %	51 %	69 %
	33 %	14 %	29 %	49 %	67 %
	4 %	4 %	4 %	4 %	16 %
Nonfarm Information Net nonfarm income Farms reporting living expenses Total family living expense Total living, invest, cap. purch	66,243	59,282	82,446	55,348	43,089
	39	13	17	9	-
	85,495	81,894	86,426	88,937	-
	202,819	257,446	168,090	189,513	-
Crop Acres Total crop acres Total crop acres owned Total crop acres cash rented Total crop acres share rented Machinery value per crop acre	855	562	878	1,180	617
	230	175	316	217	43
	575	297	520	924	563
	50	89	42	40	11
	944	1,088	1,100	718	1,163

#### Financial Summary Southwest Minnesota Farm Business Management Association (Farms Sorted By Age of Operator)

	•					
	Avg. Of All Farms	Less Than 31	31 - 40	41 - 50	51 - 60	Over 60
Number of farms	116	13	16	22	15	50
Income Statement						
Gross cash farm income	1,269,180	404,137	1,144,813	866,677	1,138,995	1,750,044
Total cash farm expense	976,294	403,128	919,861	638,548	823,775	1,337,739
Net cash farm income	292,886	1,009	224,952	228,129	315,220	412,305
Inventory change Depreciation	-194,542 -79,695	57,063 -9,475	-61,608 -80,398	-18,469 -75,568	-228,304 -74,675	-369,840 -101,050
Net farm income from operations	18,649	48,596	82,946	134,091	12,241	-58,585
Gain or loss on capital sales	16,107	45	7,101	16,379	18,241	22,406
Average net farm income	34,756	48,641	90,047	150,470	30,481	-36,179
Median net farm income	52,653	19,787	41,517	84,022	52,622	52,365
Profitability (cost)	0.00/	4.4.0/	4.0.0/	4.5.0/	0.5.0/	0.4.0/
Rate of return on assets	-0.2 % -2.4 %	4.1 % 3.5 %	1.9 % 0.3 %	4.5 % 4.6 %	-0.5 % -3.1 %	-2.1 % -4.5 %
Rate of return on equity Operating profit margin	-2.4 % -0.8 %	5.8 %	5.1 %	4.6 % 15.6 %	-3.1 % -1.7 %	-4.5 % -10.2 %
Asset turnover rate	26.5 %	71.8 %	37.0 %	28.7 %	30.6 %	21.0 %
Profitability (market)						
Rate of return on assets	3.2 %	2.9 %	5.9 %	5.6 %	3.2 %	2.0 %
Rate of return on equity	3.4 % 17.3 %	0.6 % 4.3 %	8.8 % 18.1 %	7.6 % 26.7 %	3.6 % 17.5 %	1.8 % 14.9 %
Operating profit margin Asset turnover rate	18.3 %	67.8 %	32.8 %	21.0 %	18.5 %	13.7 %
Liquidity & Repayment (end of year)						
Current assets	1,008,792	255,175	1,038,948	856,889	1,033,081	1,254,634
Current liabilities	382,131	111,702	353,595	356,734	401,428	466,958
Current ratio Working capital	2.64 626,662	2.28 143,473	2.94 685,353	2.40 500,155	2.57 631,652	2.69 787,675
Change in working capital	-214,596	16,426	-239,059	-66,186	-273,769	-314,381
Working capital to gross revenue	55.8 %	30.9 %	60.9 %	59.0 %	66.6 %	53.7 %
Working capital to oper expense	64.1 %	36.9 %	75.3 %	85.1 %	77.5 %	57.3 %
Debt coverage ratio	0.65	2.98	1.03	1.67	0.02	0.02
Term debt coverage ratio	0.60	3.62	1.03	1.76	-0.11	-0.19
Replacement coverage ratio Term debt to EBITDA	0.45 4.49	2.64 3.29	0.94 4.86	1.26 3.22	0.01 3.81	0.01 6.34
Solvency (end of year at cost)						
Number of farms	116	13	16	22	15	50
Total assets	3,784,759	852,675	3,363,230	3,531,268	3,634,388	4,838,637
Total liabilities	1,133,124	518,443	1,467,884	1,279,996	1,024,991	1,153,635
Net worth Net worth change	2,651,634 -9,291	334,232 76,324	1,895,346 26,729	2,251,271 104,476	2,609,396 -37,176	3,685,002 -84,769
Farm debt to asset ratio	33 %	65 %	44 %	42 %	32 %	26 %
Total debt to asset ratio	30 %	61 %	44 %	36 %	28 %	24 %
Change in earned net worth %	0 %	30 %	1 %	5 %	-1 %	-2 %
Solvency (end of year at market)	440	40	40	00	45	50
Number of farms Total assets	116 5,583,816	13 925,795	16 3.871.629	22 4,652,759	15 5,992,355	50 7,629,906
Total liabilities	1,841,924	586,422	1,873,213	1,802,289	1,941,473	2,145,918
Net worth	3,741,892	339,373	1,998,416	2,850,470	4,050,882	5,483,988
Total net worth change	154,187	73,357	181,119	209,945	182,025	133,700
Farm debt to asset ratio	36 %	70 %	49 %	44 %	36 %	31 %
Total debt to asset ratio Change in total net worth %	33 % 4 %	63 % 28 %	48 % 10 %	39 % 8 %	32 % 5 %	28 % 2 %
Nonfarm Information						
Net nonfarm income	66,243	55,137	52,928	64,658	69,212	73,198
Farms reporting living expenses	39	2	6	9	4	18
Total family living expense	85,495	-	79,110	95,004	-	81,703
Total living, invest, cap. purch	202,819	-	228,723	149,461	-	200,195
Crop Acres Total crop acres	855	418	1,259	785	910	853
Total crop acres  Total crop acres owned	230	33	1,239	178	199	348
Total crop acres cash rented	575	371	1,026	551	711	453
Total crop acres share rented	50	13	111	55	-	52
Machinery value per crop acre	944	153	556	1,007	1,013	1,180

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

	Avg. Of All Farms	10 or Less	11 - 20	21 - 30	31 - 40	Over 40
Number of farms	116	26	19	10	14	47
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	1,269,180	385,217	1,251,571	1,196,968	1,245,464	1,787,727
	976,294	331,826	979,781	892,332	973,892	1,349,978
	292,886	53,391	271,791	304,636	271,572	437,749
	-194,542	14,773	-59,724	-47,878	-206,278	-392,542
	-79,695	-19,937	-94,281	-97,402	-80,905	-102,729
	18,649	48,227	117,785	159,356	-15,611	-57,522
	16,107	434	12,555	14,721	27,675	23,063
	34,756	48,660	130,340	174,078	12,065	-34,460
	52,653	20,051	96,073	69,528	22,520	52,685
Profitability (cost) Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	-0.2 %	3.4 %	2.7 %	3.8 %	-0.8 %	-2.1 %
	-2.4 %	2.7 %	1.7 %	3.3 %	-4.4 %	-4.3 %
	-0.8 %	6.5 %	7.7 %	13.4 %	-3.0 %	-10.2 %
	26.5 %	51.9 %	35.2 %	28.4 %	27.8 %	20.7 %
Profitability (market) Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	3.2 %	4.3 %	6.3 %	5.3 %	2.1 %	2.2 %
	3.4 %	5.3 %	9.2 %	7.0 %	1.5 %	2.0 %
	17.3 %	9.0 %	21.4 %	26.8 %	12.6 %	15.9 %
	18.3 %	47.7 %	29.5 %	19.6 %	16.9 %	13.6 %
Liquidity & Repayment (end of year) Current assets Current liabilities Current ratio Working capital Change in working capital Working capital to gross revenue Working capital to oper expense Debt coverage ratio Term debt coverage ratio Replacement coverage ratio Term debt to EBITDA	1,008,792	280,523	1,204,539	1,243,317	1,068,933	1,264,720
	382,131	85,517	418,361	557,025	522,521	452,538
	2.64	3.28	2.88	2.23	2.05	2.79
	626,662	195,006	786,179	686,291	546,412	812,182
	-214,596	-8,934	-205,085	-172,309	-274,868	-323,255
	55.8 %	47.9 %	63.8 %	60.2 %	51.2 %	54.6 %
	64.1 %	60.2 %	81.5 %	84.7 %	58.1 %	58.3 %
	0.65	2.80	1.18	1.48	-0.02	-0.01
	0.60	3.11	1.20	1.53	-0.22	-0.21
	0.45	2.27	0.97	1.10	-0.02	0.00
	4.49	3.31	3.79	3.50	4.90	6.45
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 %	116	26	19	10	14	47
	3,784,759	1,030,939	3,906,515	4,940,801	3,876,049	4,985,768
	1,133,124	511,136	1,503,855	1,724,831	1,262,461	1,162,913
	2,651,634	519,803	2,402,660	3,215,971	2,613,589	3,822,855
	-9,291	61,015	123,824	-24,981	-45,573	-87,851
	33 %	52 %	41 %	41 %	38 %	25 %
	30 %	50 %	38 %	35 %	33 %	23 %
	0 %	13 %	5 %	-1 %	-2 %	-2 %
Solvency (end of year at market) Number of farms Total assets Total liabilities Net worth Total net worth change Farm debt to asset ratio Total debt to asset ratio Change in total net worth %	116	26	19	10	14	47
	5,583,816	1,136,473	4,768,964	6,835,949	6,326,369	7,885,860
	1,841,924	588,941	2,050,441	2,576,311	2,173,875	2,195,639
	3,741,892	547,532	2,718,523	4,259,638	4,152,494	5,690,221
	154,187	77,970	309,993	139,818	132,800	142,793
	36 %	56 %	46 %	43 %	39 %	30 %
	33 %	52 %	43 %	38 %	34 %	28 %
	4 %	17 %	13 %	3 %	3 %	3 %
Nonfarm Information Net nonfarm income Farms reporting living expenses Total family living expense Total living, invest, cap. purch	66,243	55,115	77,826	39,122	74,476	71,034
	39	5	9	4	4	17
	85,495	63,698	89,821	-	-	80,958
	202,819	230,588	125,562	-	-	203,923
Crop Acres Total crop acres Total crop acres owned Total crop acres cash rented Total crop acres share rented Machinery value per crop acre	855	422	1,276	1,024	970	853
	230	29	146	306	240	356
	575	336	1,049	703	702	450
	50	57	81	15	28	47
	944	327	740	1,044	1,010	1,189

# Appendix I: Whole Farm Analysis Procedures and Measures

The whole-farm reports include summary financial statements and measures for all farms included in this report. Rounding of individual items may have caused minor discrepancies between those items and the printed totals which are calculated before rounding.

#### **Financial Summary**

This table summarizes key measures reported in several of the following tables.

#### **Income Statement**

This section summarizes key totals from the Income Statement table. Average Net Farm Income is the mean or average farm earnings of the group calculated on an accrual adjusted basis. Median Net Farm Income is the farm earnings of the median or middle farm in the group. If it is lower than the average, the average earnings are skewed because some farms had much higher earnings than the rest of the group. If it is higher than the average, the average earnings are skewed because some farms had much lower earnings than the rest of the group.

#### **Profitability**

See the Profitability Measures section below for an explanation of these measures.

#### Liquidity and Repayment Capacity

See the Financial Standards Measures and Liquidity Measures sections below for an explanation of these measures.

#### Solvency

This section summarizes key measures from the Balance Sheet reports.

#### Non-Farm Information

This section summarizes non-farm earnings for all farms and family living withdrawals for those sole proprietors who kept accurate family living records. More detail is included on the Household and Personal Expenses and Non-Farm Summary pages.

#### **Crop Acres**

This section summarizes acres used for cropping from the Crop Production and Marketing table.

#### **Financial Standards Measures**

This table contains the Farm Financial Standards Council's 13 financial measures for evaluating a farm's financial position and performance. This table also includes four additional ratios FFSC denotes as acceptable alternate measures of farm financial position and performance.

#### Liquidity

Current Ratio is calculated by dividing the total current farm assets by the total current farm liabilities.

Working Capital is calculated by subtracting current farm liabilities from current farm assets.

Working Capital to Gross Revenue is Working Capital divided by Gross Revenues (accrual).

Working Capital to Operating Expenses is Working Capital divided by Total Operating Expense (accrual) minus Depreciation and Amortization.

#### Solvency

Farm Debt to Asset Ratio is calculated by dividing the total farm liabilities by the total farm assets. It measures the proportion of farm assets financed by debt capital.

Farm Equity to Asset Ratio is calculated by dividing farm equity or net worth by the total farm assets. It measures the proportion of the farm assets financed by the owner's equity as opposed to debt. This is the opposite of the debt to asset ratio. These two measures always add up to 100 percent because they describe how total farm assets are financed.

Farm Debt to Equity Ratio measures farm debt relative to farm equity. It is calculated by dividing the total farm liabilities by the total farm net worth. The debt to equity ratio measures the amount of borrowed capital being employed for every dollar of equity capital.

#### **Profitability**

Rate of Return on Farm Assets can be thought of as the average interest rate being earned on all investments in the farm or ranch business. If assets are valued at market value, the rate of return on assets can be looked at as the "opportunity cost" of farming versus alternate investments. If assets are valued at cost value, the rate of return on assets more closely represents the actual return on the average dollar invested in the farm. The rate of return on farm assets is calculated as follows: Rate of Return on Assets = Return on Farm Assets ÷ Average Farm Investment, where: Return on Farm Assets = Net Farm Income + Farm Interest - Value of Operator's Labor & Management, and Average Farm Investment = (Beginning Total Farm Assets + Ending Total Farm Assets) ÷ 2.

Rate of Return on Farm Equity represents the interest rate being earned on farm net worth. If assets are valued at market value, this return can be compared to returns available if the assets were liquidated and invested in alternate investments. If assets are valued at cost value, this more closely represents the actual return on the funds that have been invested or retained in the business. The rate of return on farm equity is calculated as follows: Rate of Return on Equity = Return on Farm Equity  $\div$  Average Farm Net Worth, where: Return on Farm Equity = Net Farm Income - Value of Operator's Labor & Management, and Average Farm Net Worth = (Beginning Farm Net Worth + Ending Farm Net Worth)  $\div$  2.

Operating Profit Margin is a measure of the operating efficiency of the business. It is calculated as follows: Operating Profit Margin = Return to Farm Assets  $\div$  Value of Farm Production. If expenses are held in line relative to the value of output produced, the farm will have a healthy operating profit margin. A low net profit margin may be caused by low prices, high operating expenses, or inefficient production.

Asset Turnover Rate is a measure of efficiency in using capital. It is calculated as follows: Asset Turnover Rate = Value of Farm Production ÷ Total Farm Assets.

#### Repayment Capacity

Debt Coverage Ratio indicates whether the business generated enough income to cover current interest expense and all scheduled term debt payments. It is calculated by dividing repayment and replacement capacity by total debt repayment. Repayment and replacement capacity are the funds generated by the business for debt repayment (net cash farm income + non-farm income + interest expense - family living expense - income taxes). Total debt repayment includes the total term debt payments (annual scheduled principal and interest payments on intermediate and long term debt) plus interest expense on current debt. A ratio less than 1.0 indicates that the business did not generate sufficient cash to meet scheduled payments in the past year. A ratio greater than 1.0 indicates the business generated enough cash to pay all term debt payments.

Term Debt Coverage Ratio measures whether the business generated enough income to cover term debt payments. It is calculated by dividing the funds generated by the business for debt repayment (net cash farm income + non-farm income + interest expense - family living expense - income taxes) by total term debt payments (annual scheduled principal and interest payments on intermediate and long term debt). A ratio less than 1.0 indicates that the business did not generate sufficient cash to meet scheduled payments in the past year. A ratio greater than 1.0 indicates the business generated enough cash to pay all term debt payments.

Replacement Coverage Ratio measures whether the business generated enough income to cover scheduled term debt payments plus estimated cash capital replacement needs. A ratio less than 1.0 indicates that the business did not generate sufficient income to meet replacement needs. A ratio greater than 1.0 indicates the business generated enough income to pay all term debt payments and cover an allowance for capital replacement.

#### Financial Efficiency

These four ratios reflect the distribution of gross income to cover operating expenses and generate farm income. The sum of the operating expense ratio, depreciation expense ratio, and interest expense ratio equals the percent of gross income used to pay business expenses. The amount remaining is net farm income. Accrual gross farm income is used to calculate these ratios.

Operating Expense Ratio is calculated as (Total Farm Operating Expense - Farm Interest Expense) ÷ Gross Farm Income. This ratio indicates the percent of the gross farm income that was used to pay operating expenses. Total farm operating expense is the accrual total operating expense.

Depreciation Expense Ratio is calculated as Depreciation divided by Gross Farm Income. This ratio indicates the percentage of the gross farm income that was used to cover depreciation and other capital adjustments.

Interest Expense Ratio is calculated as Farm Interest Expense divided by Gross Farm Income. This ratio indicates the percentage of the gross farm income used for farm interest expenses. This is the same ratio as the accrual interest as a percent of income from the Liquidity table.

*Net Farm Income Ratio* is calculated as *Net Farm Income* divided by *Gross Farm Income*. This ratio indicates the percentage of the gross farm income that remained after all expenses.

#### Farm Income Statement

The Farm Income Statement is a summary of income, expenses, and resultant profit or loss from farming operations during the calendar year. The first section lists cash farm income from all sources. The second section lists cash expenses. "Interest" includes only interest actually paid. No opportunity charges on farm equity capital or unpaid labor are included. The difference between *Gross Cash Farm Income* and *Total Cash Expense* is the *Net Cash Farm Income*.

The third and fourth sections deal with noncash changes in the farm business. The *Inventory Changes* and *Depreciation* sections are used to convert the cash income statement (Net Cash Farm Income) derived from the first two sections into an accrual income statement. The resulting "Net Farm Income" represents the return to the operator's and family's unpaid labor, management, and equity capital (net worth). In other words, it represents the return to all of the resources which are owned by the farm family and, hence, not purchased or paid a wage. However, it does not include any asset appreciation, debt forgiveness or asset repossessions.

#### **Profitability Measures**

Profitability is measured using assets valued first at cost and then at market. The reports include five measures of profit followed by the values used to calculate the measures.

*Net Farm Income* is repeated from the Farm Income Statement report. When assets are valued at market, it includes the change in market valuation of capital for the year.

Rate of Return on Assets is the Return to Farm Assets divided by Average Farm Assets.

Rate of Return on Equity is the Return to Farm Equity divided by Average Farm Equity.

Operating Profit Margin is the Return to Farm Assets divided by Value of Farm Production.

Asset Turnover Rate is the Value of Farm Production divided by Average Farm Assets.

Farm Interest Expense is the accrued interest cost so it will be different from the cash interest paid shown in the Farm Income Statement.

*Value of Operator's Labor and Management* is its opportunity cost. It is assigned by farm within suggested guidelines.

Return on Farm Assets is calculated by adding Farm Interest Expense and Net Farm Income and then subtracting the Value of Operator's Labor and Management.

Average Farm Assets is the average of beginning and ending total farm assets for all farms, not just those included in the Balance Sheet report.

Return to Farm Equity is calculated by subtracting the Value of Operator's Labor and Management from Net Farm Income.

Average Farm Equity is the average of beginning and ending farm net worth.

*Value of Farm Production* is gross farm income minus feeder livestock and feed purchased and adjusted for inventory changes in crops, market livestock and breeding livestock.

### Liquidity and Repayment Capacity Measures

#### Liquidity

Current Ratio is total Current Assets divided by total Current Liabilities.

Working Capital is total Current Assets minus total Current Liabilities.

Change in Working Capital is the change in Working Capital from beginning of the year to year end.

Working Capital to Gross Revenue is Working Capital divided by Gross Revenues (accrual).

Working Capital to Operating Expenses is Working Capital divided by Total Operating Expense (accrual) minus Depreciation and Amortization.

*Current Assets* are taken from the ending balance sheet and include all assets that will be sold or used up in production within one business year.

Current Liabilities are taken from the ending balance sheet and include all loans and other debt due to be repaid within one business year. Principal due within twelve months on intermediate and long-term loans is included.

*Gross Revenues (accrual)* is gross cash farm income from the income statement adjusted for inventory changes in prepaid expenses, crops and feed, market livestock, accounts receivable, hedging accounts, breeding livestock and other income related inventories.

Total Operating Expenses (accrual) is total cash farm expenses from the income statement adjusted for inventory changes in accounts payable and accrued interest.

#### Repayment Capacity

Net Farm Income from Operations is from the Income Statement.

*Depreciation* is the total depreciation from the Income Statement. It is added as a source of repayment because it is a non-cash expense that was subtracted to arrive at Net *Farm Income From Operations*.

Personal Income is the average for all farms, not including Gifts and Inheritances.

Family Living/Owner Withdrawals is the amount of owner withdrawals for family living, partnership withdrawals, and corporate dividends.

Cash Discrepancy reports any discrepancy with actual cash disappearance.

*Income Taxes Paid* are total federal, state, and social security taxes paid during the year on farm and personal earnings.

Interest Expense is the amount of interest paid on current, intermediate and long-term loans during the year. Interest is added as a source of repayment because it was previously subtracted to arrive at Net Farm Income from Operations.

Debt Repayment Capacity is Net Farm Income From Operations plus Depreciation, Personal Income, and Interest Expense minus Family Living/Owner Withdrawals, and Income Taxes Paid.

Debt Payments is the scheduled amount of interest due on current debt plus the scheduled principal and interest payments due on intermediate and long-term loans from the beginning balance sheet.

Repayment Margin is Debt Repayment Capacity minus Debt Payments. This is the amount by which earnings available for debt repayment exceeded payments due.

Cash Replacement Allowance is the estimated amount of cash needed to cover the portion of capital replacement needs that normally come from cash flow. It is estimated for each operator based on their financial structure.

Replacement Margin is Repayment Margin minus Cash Replacement Allowance. This is the amount by which earnings available for debt repayment and replacement exceed payments due and cash replacement needs.

Debt Coverage Ratio is Debt Repayment Capacity divided by Debt Payments. This is how many times all debt payments are covered by repayment capacity.

Term Debt Coverage Ratio is Debt Repayment Capacity divided by Scheduled Term Debt Payments. This is how many times all current interest and scheduled payments are covered by repayment capacity.

Replacement Coverage Ratio is Debt Repayment Capacity divided by the total of Debt Payments and the Cash Replacement Allowance. This represents how many times scheduled payments and cash replacement needs are covered by repayment capacity.

#### Balance Sheets at Cost and Market Values

These tables include all farm and personal assets and liabilities reported by these farms on their beginning and ending balance sheets. Government crop loans are treated consistently as loans on these tables, meaning that the full asset value is included as an asset and total accrued interest and outstanding principal balances are included as liabilities. Capital assets are valued at original purchase price minus economic depreciation on the Cost Value table. Assets are valued at a conservative market value on the Market Value table. Deferred liabilities are included on the Market Value table. Deferred liabilities are an estimate of the taxes that would be due if the business was liquidated on the date of the balance sheet.

## Statement of Owner's Equity

This table reports the total change in net worth for the year. It reports the *Total Change in Retained Earnings, Total Change in Contributed Capital, and Total Change in Market Valuation* for the year.

#### Statement of Cash Flows

This table reports the sources from which cash was available or obtained and where that cash was used or remains at the end of the year.

#### **Crop Production and Marketing Summary**

This table contains three sections. The first section reports average acreage by tenure and general use. The next two sections show average price received from cash sales and average yields for major crops.

#### Household and Personal Expenses

For those farms that kept records, the household and personal expenses are summarized in this table. Since not all farms keep these records, the number of farms may be different for each group. Averages are determined by the number of farms keeping these records.

### **Operator and Labor Information**

This table has four sections. The first reports the averages for the number of operators per farm, the operator's age, and the number of years farming. The second section reports various measures and results per operator compared to per farm in other reports.

The third section reports the amount of labor used and the returns to that labor. *Total Unpaid Labor Hours* and *Total Hired Labor Hours* are based on farmers' estimates of labor use. No labor records are kept for unpaid labor. *Value of Farm Production/Hour* is the *Value of Farm Production* divided by *Total Labor Hours* per Farm. Net Farm Income/Unpaid Hour is Net Farm Income divided by *Total Unpaid Labor Hours*.

The fourth section reports the number of partnerships and withdrawals in each grouping.

#### **Non-Farm Summary**

This table reports the income from non-farm sources which is included in a farmer's total net income. Not all farms have non-farm income, but the figure reported is the average over all farms, <u>not</u> just those reporting non-farm income. Also reported are the beginning and ending values for non-farm assets for all farms (not just sole proprietors).

# Appendix II: Crop Enterprise Analysis Procedures and Measures

The Crop Enterprise Analysis tables show the profitability of each crop enterprise produced by five or more farms.

Gross Return is the Average Yield multiplied by the Value Per Unit plus any other production or income related to the crop. Value Per Unit for cash crops is the average sales price for crops sold before the end of the year and the average ending inventory value for crops remaining unsold. For feed crops, it is the estimated harvest-time value. Other commodity-specific income is added to estimate the total value received for crop production.

*Direct Expenses* include expenses that are directly related to the production of the specific crop. Most direct expenses are directly assigned to production of the crop and simply divided by acres. Some, such as fuel and oil and repairs, which are difficult to assign directly to specific fields or crops, are determined by allocating the total annual expense across all enterprises using allocation factors entered for each crop.

Overhead Expenses are also determined by allocating the total annual expense across all enterprises using allocation factors entered for each crop.

Net Return per Acre is the Gross Return per Acre minus Total Direct and Overhead Expenses.

Net Return with Government Payments is Net Return per Acre plus Government Payments. Government Payments include any government payment received by the farm related to the current production year except those EQIP and CSP payments that offset annual production expenses. (Those payments are included in the Gross Return calculation.) Because direct government payments have been decoupled from actual production, these payments are generally allocated to all crops excluding vegetables and pasture. This is done for each farm by allocating the direct payments from the whole farm to these crops.

Net Return over Labor and Management is calculated by allocating the farmer's charge for unpaid labor and management across all enterprises and subtracting it from Net Return with Government Payments.

Cost of Production is calculated by dividing the total expense for each category by the yield per acre. Total Expense Less Government and Other Income is total expense minus government payments, income from secondary products, and other income, divided by yield per acre.

Machinery Cost Per Acre is the sum of fuel and oil, repairs, custom hire expense, machinery lease payments, machinery depreciation, and interest on intermediate debt divided by acres.

Estimated Labor Hours Per Acre is calculated by allocating the farmer's estimate of total operator and hired labor hours for the year across all enterprises.

Rounding of individual items for the report may have caused minor discrepancies with the calculated totals. If fewer than five farms have a certain crop enterprise, that information is not reported. If there are fewer than 25 farms, the high and low groups are not reported.

# Appendix III: Livestock Enterprise Analysis Procedures and Measures

The Livestock Enterprise Analysis tables show the profitability of each livestock enterprise produced by five or more farms.

*Gross Margin* includes product and livestock sales, cull sales, the value of offspring transferred out of the enterprise, the value of inventory change from beginning to end of year, and any other income assigned to the enterprise. Livestock purchases and the value of animals transferred in from other enterprises are subtracted.

Direct Expenses include expenses that are directly related to the specific livestock enterprise. Feed and most other direct expenses are directly assigned based on farm records. Some, such as fuel and oil and repairs, which are difficult to assign directly to enterprises, are determined by allocating the total annual expense across all enterprises using allocation factors entered for each farm.

Overhead Expenses are also determined by allocating the total annual expense across all enterprises using allocation factors entered for each farm.

Net Return is the Gross Return minus Total Direct and Overhead Expenses.

Net Return over Labor and Management is calculated by allocating the farmer's charge for unpaid labor and management across all enterprises and subtracting it from Net Return.

Estimated Labor Hours is calculated by allocating the farmer's estimate of total operator and hired labor hours for the year across all enterprises.

Cost of Production is calculated by dividing the total expense for each category by total production. For grow/finish enterprises, the Purchases and Transfers In are included in direct expense. Cull sales, other offspring sales, and any other miscellaneous income are subtracted and replacement purchases and transfers in are added to arrive at the cost with other revenue adjustments. With Labor and Management is the cost with other revenue adjustments plus the producer's charge for operator's labor and management. This is the breakeven price for the primary product to provide a return for operator labor and management.

The last section of each livestock table contains both economic and technical efficiency measures. *Lbs. of feed per lbs. of grain* is the pounds of total feed divided by total production. For grains, these pounds per bushel are used: corn, 56; oats, 32; barley, 48; grain sorghum, 56; wheat, 60; and millet, 48. For these forages, the units are converted to pounds and then adjusted by these factors: alfalfa haylage, 0.5; corn silage, 0.33; oatlage, 0.5; sorghum silage, 0.33; and small grain silage, 0.33.

The calving and weaning percentages are calculated as the number of calves which are calved and weaned, respectively, divided by the number of cows which are supposed to bear young.

Rounding of individual items for the report may have caused minor discrepancies with the calculated totals. If fewer than five farms have a certain livestock enterprise, that information is not reported. If there are fewer than 25 farms, the high and low groups are not reported.

## Appendix IV: Prices Used in the Analysis Report

	Beg. Inventory Value	Average for Year	End. Inventory Value
Item	(1/1/2023)	(Feed Fed Value)	(1/1/2024)
Corn/bu.	\$6.83	\$5.64	\$4.57
Oats/bu.	\$4.11	\$3.62	\$3.67
Wheat/bu.	\$8.98	\$7.72	\$6.58
Soybeans/bu.	\$14.82	\$13.60	\$12.60
Alfalfa Hay/ton	\$225	\$194	\$178
Alfalfa Haylage/ton	\$97	\$83	\$77
Grass/Mixed Hay/ton	\$180	\$163	\$160
Corn Silage/ton	\$55	\$45	\$37
Oat Straw – bale & ton	\$4/bale - \$150/ton	\$3.75/bale - \$125/ton	\$3.75/bale - \$125/ton
Cornstalks/ton	\$50	\$50	\$50
Oatlage/ton	\$44	\$36	\$29

#### Valuation Notes

Enterprise production (harvest price) is valued at actual selling price if sold or contracted, inventory price for balance.

All commodities are valued on an as fed moisture basis and corrected to standard test weight.

The values above are adjusted for quality based on the individual member's information.

#### Other Prices and Valuations Used

- Pasture costs \$66/acre. Adjusted for quality and carrying capacity if needed.
- Value of milk fed to calves \$1.50/gallon.

Depreciation is calculated by using a 5 percent rate for buildings, 10 percent for machinery, 20 percent for beef cattle and sheep and 33 percent for breeding hogs and dairy cows. The economic depreciation is calculated by taking the beginning cost (book) value, plus new purchases (book), less book value of sold items multiplied by the appropriate percentage rate.

Value of unpaid operator's labor is calculated by using this formula: For sole proprietors and partnerships, labor and management is valued at \$30,000 per operator plus 5 percent of the value of farm production, with a minimum of \$35,000 for a full-time farm operator. This value is used in calculating ROA, ROE and other whole farm ratios and is also allocated as an opportunity cost to crop and livestock enterprises.



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The entire report is available at z.umn.edu/2023SWReport.

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