### SOUTHWEST MINNESOTA

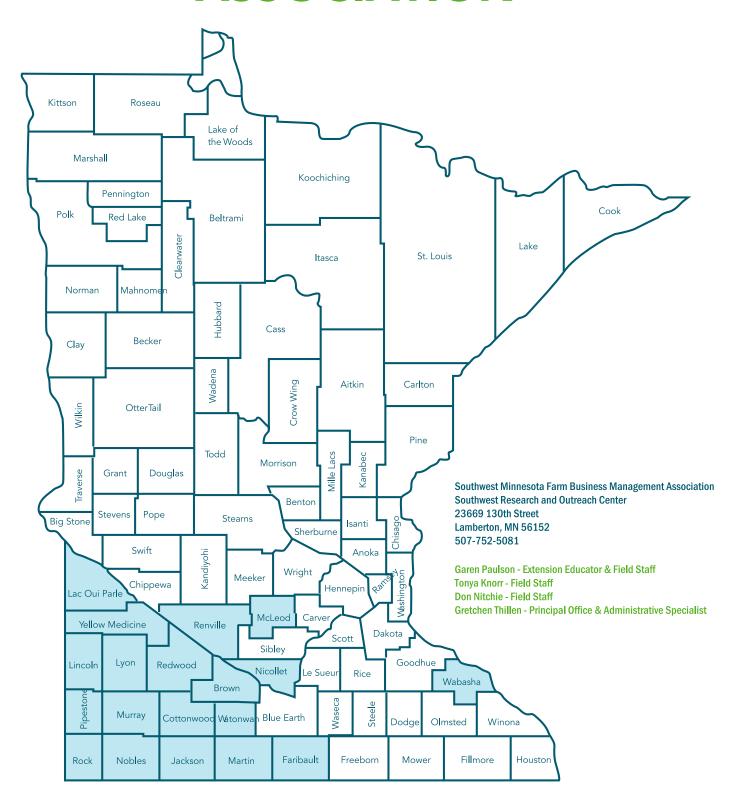
FARM BUSINESS MANAGEMENT ASSOCIATION

# 2019 ANNUAL REPORT



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Saint Paul, MN 55108
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### SOUTHWEST MINNESOTA FARM BUSINESS MANAGEMENT ASSOCIATION

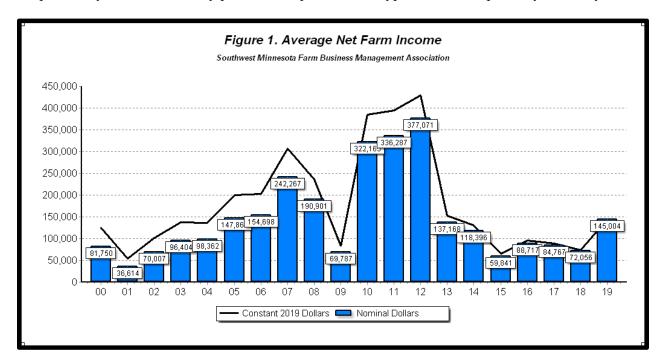


#### **Executive Summary**

### **2019 Annual Report of the Southwest Minnesota Farm Business Management Association**

by Pauline A. Van Nurden, Garen J. Paulson, Donald L. Nitchie, Tonya L. Knorr, Rachel A. Purdy, and Dale W. Nordquist

The average net farm income for the 106 farms included in the 2019 annual report of the Southwest Minnesota Farm Business Management Association showed improved margins for the year. Improved profitability of livestock enterprises coupled with government support payments provided much of the boost in profitability. The average farm earned \$145,004 in 2019, up from just over \$72,000 in 2018. Yet, earnings received in the recent past are still historically low compared to those received in the first half of the decade. Crop producers saw slightly higher net farm income for the year on average. Again, much of this was provided by the Federal farm program payments related to trade losses. The southwest area of the state experienced below trendline yields and unprecedented numbers of prevented plant acres in 2019 because of the yearlong weather challenges. Overall, crop farm operations were again challenged for the year due to weather, leading to the lowest crop yields most producers have experienced in recent years. Earnings for all types of livestock operations were up from the previous year, as commodity prices for major livestock types were all improved year over year.

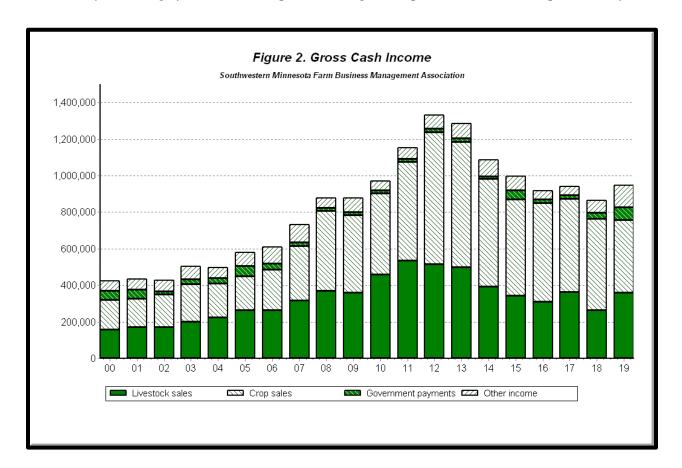


Highlights of association financial results for 2019:

- Median net farm income, or the income earned by the middle farm, was \$91,895. This value was below the average net farm income of the group, which is common. This year was like most years, where the average net farm income is skewed higher by high profits of larger operations.
- Typically, incomes vary widely around the average and this year is no exception. The average net farm income for the most profitable 20% of the farms was \$445,236 while the least

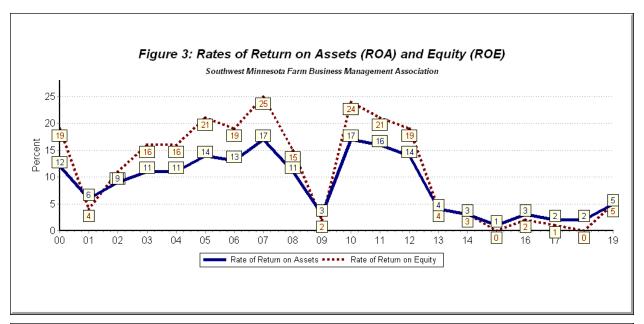
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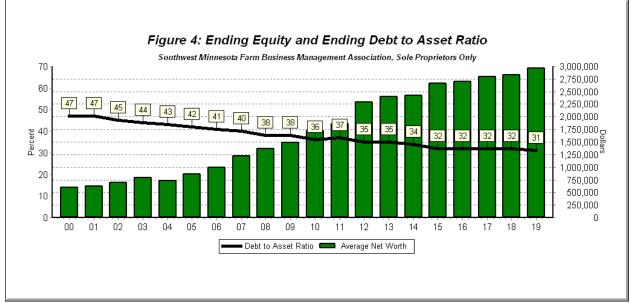
profitable 20% experienced a loss of \$28,628. While still a concern, the average loss experienced on the low end was less than the previous year. Crop insurance indemnities and payments from the Market Facilitation Program likely shielded some of the most vulnerable farms from larger losses. Farms experienced lower corn yields, which were 11% below the 10-year average yield. Prevented plant challenges also persisted for the 2019 production year.

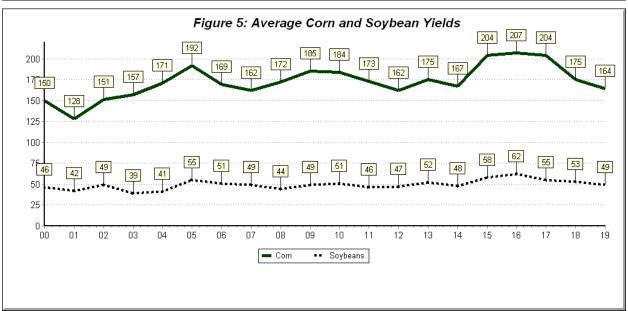


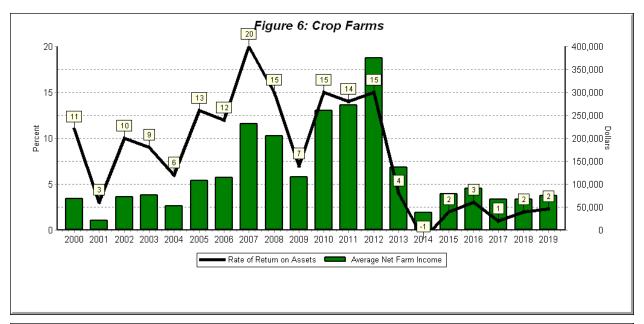
- Average gross cash income was up 9% from 2018. Total cash expenses were also up 11%, as compared to the previous year. Crop sales were down 21% in 2019. Conversely, livestock sales increased 37% from the previous year. Other types of farm income also increased year over year, this included government payment income (up 116%) and other cash income (up 69%), as compared to 2018.
- Crops accounted for 42% of gross sales while livestock sales were 38% (Figure 2). Government payments increased by 116% to \$70,944 per farm. These payments accounted for 8% of gross cash income. Payments reported are those accrued to 2018 production for the ARC and PLC program. In 2019, producers also received a second round of payments for the Market Facilitation Program (MFP). This was the USDA program for commodities directly impacted by foreign retaliatory tariffs. MFP payments comprised the bulk of the government payments received by producers, as there were limited ARC or PLC payments received on crop acres for the year.
- The average farm earned a rate of return on assets (ROA) of 5% with assets valued at adjusted cost or book value. Rates of return have remained historically low for the last 7 years but were increased from 2% in 2018. The average rate of return on equity capital (ROE) was 5%, improving from 0% from the previous year (Figure 3).

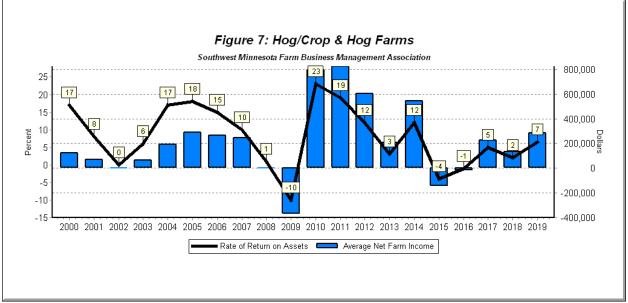
- The average farm reported net worth growth of \$206,481, of which \$148,000 resulted from farm and non-farm earnings. The remaining \$58,000 resulted from increases in the estimated market value of capital assets.
- Member balance sheets remain strong. The debt-to-asset ratio of the average sole proprietor farm decreased by 1% to 31% with assets valued at estimated market value. (Figure 4).
- The average farm's working capital improved in 2019, with an increase of \$54,000 year over year. Since 2012, working capital has eroded by over \$352,000 for the average farm. This is a loss of 46% since the end of 2012. Even with this loss of liquidity, working capital remained strong for these operations, at 42% of gross revenue. This working capital to gross revenue position remained unchanged from the previous year.
- Debt repayment capacity improved markedly to an average of 2.31:1. This was a much stronger repayment position than the previous year's 1.25:1 level. A debt repayment capacity position of 2.31:1 means the average farm generated \$2.31 in income from farm and non-farm sources for each \$1.00 of scheduled debt payments.

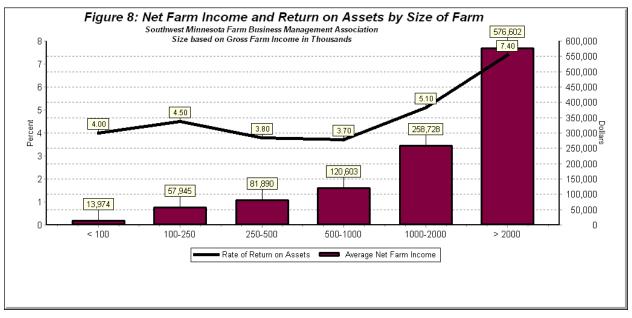












#### **Crops**

- Association members harvested a smaller corn crop again in 2019. Corn yields were down another 6% from the previous year. Corn yields averaged 164 bushels per acre, down from 175 in 2018 and 201 in 2017. By comparison, the average corn yield for the ten prior years was 184 bushels per acre. Soybean yields were also down slightly again. Soybean yields averaged 49 bushels per acre as compared to 53 in 2018 and 55 in 2017. Soybean yields for 2019 were also lower than the previous ten-year average for association members. The ten-year average soybean yield is 52 bushels per acre.
- Crop prices continue to trend below beginning of the decade levels, but the average price received for corn improved for the year. The 2019 average price received was \$3.58 per bushel. This is a 9% increase over 2018. This is the highest price received for corn sales since 2015. The price received for soybean cash sales was 8% lower than the previous year's price. The average soybean cash sale price for 2019 was \$8.46 versus \$9.20 in 2018. This price has continued to erode over the last three years. By year-end, corn prices had rallied further to \$3.80. Soybean prices also improved to \$8.90. Soybean prices have been challenged by large production and stocks nationwide and ongoing trade challenges with major export buyers.
- The cost to raise an acre of corn (with land rent) was \$720 in 2019, an increase of \$56 over 2018. The input costs for corn production have decreased over time though, decreasing 8% since 2013. The change in major expense items from the previous year was mixed. Corn seed expense remained constant and land rent expense decreased. Conversely, fertilizer expense increased by 22% and machinery expenses increased by 11% year over year. All other expenses also increased in total year over year, with an increase of 20% for all other expenses. Cash rental rates on corn and soybean acres continued to decline on average. The average cash rental rate was \$203 per acre, down over 17% from highs experienced in 2013. Crop insurance payments and the USDA Market Facilitation Program (MFP) helped keep protect corn cost of production in 2019. The MFP payment alone provided approximately \$0.50 a bushel for corn producers, thus helping profitability for association members.
- The cost to produce a bushel of corn on cash rented land increased by 3% this year to \$3.90. Lower yields were the contributor to this increased cost of production. If the bin busting yields of from 2015-2017 would have continued, cost of production would have fallen to approximately \$3.43, similar to 2017. Soybean costs per bushel increased dramatically from the previous year from \$8.15 in 2018 to \$9.38. The USDA Market Facilitation Program (MFP) helped shelter this increase as did steady production costs. But lower yields lead to an overall higher cost of production. The MFP payment was allocated on a county by county basis and equaled approximately \$1.65 per bushel for soybeans again in 2019. This decreased cost of production by approximately \$80 per acre in 2018. These costs include a charge for unpaid labor and management, but do not include a charge for equity capital.

#### **Type of Farm**

- Crop farm earnings continued to increase in 2019. Earnings went to \$79,000 for crop farmers this past year, up from \$68,000 in 2018. Gross cash farm income was down for crop farms in 2019. But lower cash farm expenses and less inventory change lead to increased earnings for the year. The difference was lower total cash farm expenses and a lower depreciation value. The value of inventories continued to decrease in 2019, an annual occurrence since 2012. The average crop farm earned a 3% rate of return on assets (Figure 6). After all costs of production, including a charge for unpaid operator labor and management, member farms lost an average of \$18 per acre on cash rented corn production and lost an average of \$27 per acre on rented soybean ground.
- Pork producers saw a more profitable year in 2019, compared to 2018. Specialized hog farms and hog/crop farms in the association (those farms with over 70% of gross income from sale of hogs or a combination of hogs and crops) made an average of \$283,238 in 2019 as compared to profits of \$132,326 in 2018. Prices for market hogs increased year over year, increasing to \$50.22 per hundred pounds of live weight in 2019 as compared to the \$49.75 received in 2018. The average pork producer made \$7 for every \$100 of assets invested (Figure 7).
- There were not enough specialized dairy or beef farms to summarize these farm types.

#### Size of Farm

- Net income increased with size of farm in 2019, as is typically the case (Figure 8). Farms with gross farm incomes over \$2 million had the highest net farm income and the highest median net farm income as well.
- Rates of return were relatively consistent across size groups, with averages ranging from 4% to 7% for producers in 2019. The highest rates of return were achieved by the largest farms, those grossing over \$2 million. These farms achieved a rate of return of 7.4%. The next highest rate of return was 5.1%, earned by farms grossing between \$1 and \$2 million. The smallest farms, those with gross income of less than \$100,000 had stronger rates of return in 2019 as well, with a rate of return on assets of 4.5%.

#### **Debt Level**

- Of the 106 farms in the report, 39 had debt-to-asset ratios above 40%, up from 38 the previous year. Only 16 of those farms had debt-to-assets of greater than 60%, up from 11 farms the previous year.
- Those farms with debt-to-assets 40% and lower had the strongest current ratio and term debt coverage ratios of the association. This is to be expected with lower debt levels and stronger solvency positions.

#### **Operator Age**

- There were 27 farms whose principle operator was 40 years of age or less among the 106 farms included in the report. The 50 farms over the age of 60 saw the highest average net farm income of the group in 2019.
- Earnings did vary by age of operator. In 2019, those producers over the age of 40 saw higher average net farm income and rates of return on assets, as compared to their younger counterparts. The younger farm operators had the largest number of crop acres. Given the challenging profitability of crop producers in 2019, it is expected that these farms would have experienced lower profitability levels for the year.

#### **Projected Profitability**

The Projected Profitability report displays actual results for association members in 2019 along with projected financial results for 2020. 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.

- **2019** All Farms Actual Average financial results for all farms in 2019. Balance sheet measures reflect the average position of association farms at the end of the year.
- **2019 Improved Margin Management** Potential impacts of small changes in farm performance. If association 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 over 50%.
- **2019 SW Association Crop Farms Actual** Average financial results for the 67 crop farms in the association for 2019.
- 2020 SW Association Crop Farms Projected Even with expected higher crop yields, the average net income for member crop farms is expected to decrease in 2020 because of reduced government payments and lower commodity prices. Government payments and other crop income (like crop insurance) are expected to see decreases in this model, as the Market Facilitation Program is not expected to provide additional payments in 2020 and crop insurance indemnity payments will be reduced with a return to trendline yields. Operating expenses are expected to decrease slightly, aided by lower fuel at this time.
- **2019 Statewide Livestock Farms Actual** Average financial results for the 629 farmers in the statewide database who received a major portion of their income from livestock and milk sales for 2019. This includes farms enrolled in Minnesota State Farm Business Management programs.
- 2020 Statewide Livestock Farms Projected Statewide livestock farm profits are projected to decrease on average in 2020. Hog producers are expected to see gains in revenue for the coming year, with higher sales prices and lower input costs. But, challenging profits for beef and dairy producers continue, with lower prices expected for both. Even with decreases in operating expenses for livestock producers, lower beef and milk prices are likely to lead to lower profitability for livestock producers during the year.

These decreased prices equate to this group of producers seeing the greatest negative change in profitability in the coming year.

The assumptions used to project these results are subjective. We offer these projections as a most likely scenario to help members consider management decisions in a period of tightening margins. Predictions at this time more challenging than usual, as the full impact of COVID-19 is not known.

#### **Full Report**

The complete report provides additional information on whole farm financial performance as well as detailed information on crop and livestock enterprise profitability. The report also includes whole-farm financial condition and performance by business size, type of farm, debt-to-asset ratio, and age of operator.

### **2019 Annual Report of the Southwest Minnesota**<sup>1</sup> **Farm Business Management Association**

by

Pauline A. Van Nurden, Garen J. Paulson, Donald L. Nitchie, Tonya L. Knorr, Rachel A. Purdy, and Dale W. Nordquist<sup>2</sup>

This report summarizes the individual farm records of the members of the Southwest Minnesota Farm Business Management Association for 2019.

Whole-farm information and enterprise costs and returns are reported. The year-end analysis of the individual farms was performed by the Association fieldstaff using the FINPACK software from the Center for Farm Financial Management. The individual analyses were summarized at the Department of Applied Economics 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 112 farms in the Southwest Association, the data for 106 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 and research programs of the University of Minnesota.

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 instances for each enterprise with the goal of providing more accurate benchmark information. Minnesota State FBM programs are distributed across the state and include over 2,150 participating farms. We thank the Minnesota State FBM program and participating producers for making this data available to be included in this report.

<sup>&</sup>lt;sup>1</sup>This report was partially funded by a Farm Business Management and Benchmarking Grant from the USDA National Institute of Food and Agriculture.

<sup>&</sup>lt;sup>2</sup>Van Nurden, Purdy, and Nordquist are Extension Economists-Center for Farm Financial Management (CFFM), University of Minnesota, Twin Cities; Paulson is an Extension Educator—Ag Business Management for the Association; Nitchie and Knorr are financial analysts for the Association. Special thanks to Rann Loppnow, Software Development, CFFM; Katie Carr, Administrative Associate, CFFM; and Gretchen Thillen, Southwest Research and Outreach Center.

#### **Southwest Minnesota Farm Business Management Association**

### **Distribution of Membership -- 2019**

	Number of Farm	Number of Records	
County	Units	Submitted	
Brown	1	0	
Cottonwood	15	14	
Faribault	2	2	
Jackson	16	13	
Lyon	2	2	
Martin	1	1	
Murray	17	17	
Nobles	23	21	
Pipestone	10	12	
Redwood	7	7	
Rock	5	5	
Wabasha	2	3	
Watonwan	6	4	
Others	5	5	
TOTAL	112	$1\overline{06}$	

#### **Officers and Directors**

Wesley Beck, President Ryan Gravenhof, Vice President Ian Sandager, Secretary-Treasurer

2019/2020 Southwest Minnesota Farm Business Management Association Directors: Jason Diemer, Ben Fast, Justin Keller, Russell Gundermann, Alan Vander Lugt, and John Volk.

### **Southwest Minnesota Farm Business Management Association**

### **Table of Contents**

Whole-Farm Reports	. <b></b> 5-7
Financial Summary	8
Financial Standards Measures	9
Financial Trends	10-12
Farm Income Statement	13-14
Profitability Measures	15
Liquidity and Repayment Capacity Measures	16
Balance Sheets	17-18
Statement of Cash Flows	19
Crop Production and Marketing	20
Household and Personal Expenses	21
Operator and Labor Information	22
Nonfarm Summary	23
Projected Profitability	24
Crop Reports	25
Corn	
Soybeans	30-33
Corn Silage	34
Hay, Alfalfa	35
Other: CRP and Prevented Planting	36-37
Corn and Soybean Trends	
Livestock Reports	41
Hogs, Farrow to Finish	
Hogs, Finish Feeder Pigs	44-45
Hogs, Weaning to Finish	46-47
Hogs, Finish Feeder Pigs (Contract Grower)	
Hogs, Weaning to Finish (Contract Grower)	
Beef Cow-Calf	
Beef Finishing.	52-53
Dairy	54-55
Dairy Replacement Heifers	56-57
Dairy Finishing	
Sheep, Market Lamb Production	
Summary Reports	
Financial Summary of the Whole-Farm Analysis by Years	
Financial Summary by Gross Farm Income	
Financial Summary by Farm Type	
Financial Summary by Debt to Asset Ratio	
Financial Summary by Age of Operator	
Appendices	
Appendix I – Whole Farm Analysis Procedures and Measures	
Appendix II – Crop Enterprise Analysis Procedures and Measures	
Appendix III – Livestock Enterprise Analysis Procedures and Measures	
Appendix IV – Prices Used in the Analysis Report	

### **Whole-Farm Reports**

The whole-farm reports summarize the financial performance of member farms in 2019. Each table includes the average of the 106 farms included in the report and the average 20 percent 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 on 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 at <a href="http://www.ffsc.org/index.php/order-the-guidelines/">http://www.ffsc.org/index.php/order-the-guidelines/</a>

#### **Farm Income Statement**

The Income Statement calculates the accrual Net Farm Income generated by the average farm for year 2019. 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.

#### **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 use of capital. 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 Income* measures liquidity relative to business size.

Repayment capacity measures the ability of the business to meet debt payments and replace capital assets. *Term Debt Coverage Ratio* measures the ability of the business to meet its scheduled debt payments. A 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-based table, intermediate and long-term assets are shown at depreciated value using estimated economic, rather than tax, depreciation. On the market table, they 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 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 reflect 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	106	21	22
Income Statement Gross cash farm income	946,154	672,951	1,773,565
Total cash farm expense	783,687	607,090	1,494,366
Net cash farm income Inventory change	162,466 52,089	65,861 -28,726	279,199 287,239
Depreciation	-71,520	-65,436	-124,478
Net farm income from operations	143,035	-28,302	441,959
Gain or loss on capital sales	1,969	-326	3,277
Average net farm income	145,004	-28,628	445,236
Median net farm income	91,895	-7,624	230,664
Profitability (cost)			
Rate of return on assets	4.8 %	-1.8 %	9.0 %
Rate of return on equity Operating profit margin	4.9 % 15.7 %	-9.0 % -6.4 %	11.6 % 27.4 %
Asset turnover rate	30.7 %	27.5 %	32.7 %
	30.77	21.0 %	02.17
Liquidity & Repayment (end of year) Current assets	808,635	571 <u>226</u>	1 226 127
Current liabilities	389,388	571,236 500,396	1,336,137 620,197
Current ratio	2.08	1.14	2.15
Working capital	419,247	70,840	715,939
Change in working capital	78,098	-34,527	264,482
Working capital to gross inc	42.3 %	10.8 %	35.1 %
Term debt coverage ratio Replacement coverage ratio	2.31 1.49	0.54 0.37	3.32 2.32
Term debt to EBITDA	1.94	5.10	1.59
Solvency (end of year at market) Number of farms	106	21	22
Total assets	4,344,977	2,604,691	7,372,372
Total liabilities	1,488,321	1,259,793	2,455,911
Net worth	2,856,656	1,344,897	4,916,462
Total net worth change	206,481	11,677	644,282
Farm debt to asset ratio Total debt to asset ratio	38 % 34 %	52 % 48 %	37 % 33 %
Change in total net worth %	8 %	1 %	15 %
-			
Nonfarm Information Net nonfarm income	47,034	51,022	40,840
Farms reporting living expenses	39	4	8
Total family living expense	66,585	-	67,308
Total living, invest, cap. purch	99,802	-	120,383
Crop Acres			
Total crop acres	940	678	1,323
Total crop acres owned	233	113	338
Total crop acres chare rented	659 48	551 14	909 76
Total crop acres share rented  Machinery value per crop acre	487	764	76 516
madimidity taldo pol diop dolo	401	707	310

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

	Avg. Of All Farms	Low 20%	High 20%
Number of farms	106	21	22
Liquidity			
Current ratio	2.08	1.14	2.15
Working capital	419,247	70,840	715,939
Working capital to gross inc	42.3 %	10.8 %	35.1 %
Solvency (market)			
Farm debt to asset ratio	38 %	52 %	37 %
Farm equity to asset ratio	62 %	48 %	63 %
Farm debt to equity ratio	0.61	1.08	0.59
Profitability (cost)			
Rate of return on farm assets	4.8 %	-1.8 %	9.0 %
Rate of return on farm equity	4.9 %	-9.0 %	11.6 %
Operating profit margin	15.7 %	-6.4 %	27.4 %
Net farm income	145,004	-28,628	445,236
EBITDA	258,118	80,706	641,887
Repayment Capacity			
Capital debt repayment capacity	187,647	41,031	510,429
Capital debt repayment margin	106,279	-35,512	356,481
Replacement margin	62,091	-70,555	290,397
Term debt coverage ratio	2.31	0.54	3.32
Replacement coverage ratio	1.49	0.37	2.32
Efficiency			
Asset turnover rate (cost)	30.7 %	27.5 %	32.7 %
Operating expense ratio	74.0 %	87.7 %	68.5 %
Depreciation expense ratio	7.2 %	10.0 %	6.1 %
Interest expense ratio	4.4 %	6.7 %	3.7 %
Net farm income ratio	14.4 %	-4.3 %	21.7 %

#### Financial Summary (Farms Sorted By Years)

	Avg. Of All Farms	2016	<u> 2017</u>	<u> 2018</u>	2019
Number of farms	414	103	104	101	106
Income Statement					
Gross cash farm income	918,451	918,546	941,931	865,101	946,154
Total cash farm expense	755,283	748,909	783,231	703,195	783,687
Net cash farm income	163,168	169,638	158,700	161,907	162,466
Inventory change	2,958	-8,515 71,007	-7,784 74,634	-25,846	52,089
Depreciation Net farm income from operations	-71,737 94,388	-71,987 89,136	-74,624 76,292	-68,737 67,324	-71,520 143,035
Gain or loss on capital sales	3,683	-418	8,475	4,732	1,969
Average net farm income	98,072	88,717	84,767	72,056	145,004
Median net farm income	74,719	84,823	40,096	52,423	91,895
Profitability (cost)					
Rate of return on assets	2.8 %	2.5 %	1.9 %	1.7 %	4.8 %
Rate of return on equity	2.0 %	1.8 %	0.8 %	0.3 %	4.9 %
Operating profit margin	9.2 %	8.2 %	6.5 %	5.9 %	15.7 %
Asset turnover rate	30.1 %	30.9 %	29.7 %	29.0 %	30.7 %
Profitability (market) Rate of return on assets	2.7 %	2.0 %	2.6 %	1.8 %	4.2 %
Rate of return on equity	2.7 %	1.8 %	2.7 %	1.3 %	4.8 %
Operating profit margin	13.0 %	9.7 %	12.8 %	9.2 %	19.7 %
Asset turnover rate	20.6 %	21.2 %	20.3 %	19.8 %	21.2 %
Liquidity & Repayment (end of year) Current assets	803,135	825,230	803,844	774,100	808,635
Current liabilities	416,078	430,196	436,049	409,125	389,388
Current ratio	1.93	1.92	1.84	1.89	2.08
Working capital	387,057	395,033	367,795	364,975	419,247
Change in working capital	9,097	-32,986	-11,429	734	78,098
Working capital to gross inc	41.4 %	42.1 %	39.4 %	41.9 %	42.3 %
Term debt coverage ratio	1.56	1.41	1.27	1.25	2.31
Replacement coverage ratio Term debt to EBITDA	1.02 2.27	0.93 2.22	0.84 2.44	0.80 2.65	1.49 1.94
Solvency (end of year at cost)					
Number of farms	414	103	104	101	106
Total assets	2,914,803	2,831,608	2,916,373	2,913,455	2,995,387
Total liabilities	965,463	937,759	988,053	960,176	975,256
Net worth	1,949,340	1,893,848	1,928,320	1,953,279	2,020,132
Net worth change Farm debt to asset ratio	75,442 36 %	44,834 36 %	48,138 37 %	58,396 36 %	148,214 36 %
Total debt to asset ratio	33 %	33 %	34 %	33 %	33 %
Change in earned net worth %	4 %	2 %	3 %	3 %	8 %
Solvency (end of year at market)					
Number of farms	414	103	104	101	106
Total assets	4,189,673	4,028,119	4,196,248	4,184,664	4,344,977
Total liabilities Net worth	1,477,364 2,712,309	1,435,257 2,592,862	1,505,682 2,690,566	1,479,646 2,705,017	1,488,321 2,856,656
Total net worth change	115,062	62,309	111,911	76,160	2,830,030
Farm debt to asset ratio	38 %	38 %	39 %	38 %	38 %
Total debt to asset ratio	35 %	36 %	36 %	35 %	34 %
Change in total net worth %	4 %	2 %	4 %	3 %	8 %
Nonfarm Information	A1 C1 A	20 500	20 552	A4 4 A4	47.024
Net nonfarm income Farms reporting living expenses	41,614 162	39,590 44	38,552 45	41,141 34	47,034 39
Total family living expense	70,527	73,384	69,964	72,096	66,585
Total living, invest, cap. purch	113,469	125,223	116,348	110,123	99,802
Crop Acres				_	
Total crop acres	941	939	940	947	940
Total crop acres owned	234	236	233	233	233
Total crop acres cash rented Total crop acres share rented	659 49	651 53	661 46	665 48	659 48
Machinery value per crop acre	753	769	763	747	734
riacimicity value per crop acre	733	703	703	777	757

#### Financial Standards Measures (Farms Sorted By Years)

	Avg. Of All Farms	2016	2017	2018	2019
Number of farms	414	103	104	101	106
Liquidity					
Current ratio	1.93	1.92	1.84	1.89	2.08
Working capital	387,057	395,033	367,795	364,975	419,247
Working capital to gross inc	41.4 %	42.1 %	39.4 %	41.9 %	42.3 %
Solvency (market)					
Farm debt to asset ratio	38 %	38 %	39 %	38 %	38 %
Farm equity to asset ratio	62 %	62 %	61 %	62 %	62 %
Farm debt to equity ratio	0.62	0.62	0.64	0.62	0.61
Profitability (cost)					
Rate of return on farm assets	2.8 %	2.5 %	1.9 %	1.7 %	4.8 %
Rate of return on farm equity	2.0 %	1.8 %	0.8 %	0.3 %	4.9 %
Operating profit margin	9.2 %	8.2 %	6.5 %	5.9 %	15.7 %
Net farm income	98,072	88,717	84,767	72,056	145,004
EBITDA	203,165	193,017	185,965	173,551	258,118
Repayment Capacity					
Capital debt repayment capacity	128,588	116,322	109,183	99,097	187,647
Capital debt repayment margin	46,214	33,969	23,019	19,549	106,279
Replacement margin	2,313	-8,573	-21,026	-25,293	62,091
Term debt coverage ratio	1.56	1.41	1.27	1.25	2.31
Replacement coverage ratio	1.02	0.93	0.84	0.80	1.49
Efficiency					
Asset turnover rate (cost)	30.1 %	30.9 %	29.7 %	29.0 %	30.7 %
Operating expense ratio	78.2 %	79.4 %	80.1 %	80.1 %	74.0 %
Depreciation expense ratio	7.7 %	7.7 %	8.0 %	7.9 %	7.2 %
Interest expense ratio	4.0 %	3.4 %	3.8 %	4.3 %	4.4 %
Net farm income ratio	10.1 %	9.5 %	8.2 %	7.7 %	14.4 %

### Summary Farm Income Statement (Farms Sorted By Years)

	Avg. Of All Farms	2016	2017	2018	2019
Number of farms	414	103	104	101	106
Crop sales	485,592	539,346	510,971	498,364	396,291
Crop inventory change	-9,702	18,976	-7,062	-48,444	-3,243
Gross crop income	475,891	558,323	503,909	449,920	393,049
Livestock sales	300,581	288,169	341,813	240,734	329,212
Livestock inventory change	7,943	2,159	-5,349	21,640	13,554
Gross livestock income	308,524	290,328	336,464	262,374	342,766
Government payments	36,596	22,681	18,951	32,905	70,944
Other cash farm income	95,682	68,351	70,196	93,098	149,706
Change in accounts receivable	7,831	-6,523	2,556	22,450	13,026
Gain or loss on hedging accounts	1,925	3,575	-6,947	3,297	7,720
Change in other assets	5,725	1,036	5,299	2,781	13,506
Gain or loss on breeding lyst	1,807	-269	2,304	4,229	1,029
Gross farm income	933,981	937,500	932,732	871,054	991,746
Cash operating expenses	719,475	718,186	749,677	667,269	740,838
Change in prepaids and supplies	7,943	13,474	3,483	19,733	-4,289
Change in growing crops	-9	-110	94	-538	491
Change in accounts payable	3,408	12,934	-6,487	11,039	-3,412
Depreciation	71,737	71,987	74,624	68,737	71,520
Total operating expense	802,553	816,471	821,391	766,240	805,148
Interest paid	35,808	30,723	33,554	35,925	42,849
Change in accrued interest	1,231	1,171	1,495	1,565	714
Total interest expense	37,040	31,894	35,049	37,490	43,563
Total expenses	839,593	848,365	856,440	803,731	848,711
Net farm income from operations	94,388	89,136	76,292	67,324	143,035
Gain or loss on capital sales	3,683	-418	8,475	4,732	1,969
Net farm income	98,072	88,717	84,767	72,056	145,004

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

	Avg. Of All Farms	Low 20%	High 20%
Number of farms	106	21	22
Cash Farm Income			
Corn	225,668	146,208	272,468
Corn Silage	4,495	198	17,706
Hay, All Types	4,999	3,636	14,316
Oats	892	-	-
Peas, Processing	301	-	1,452
Sorghum Silage	771	-	3,713
Soybeans	150,798	154,443	199,481
Soybeans Seed	2,742	-	-
Sweet Corn, Processing	2,716	-	13,085
Wheat, Spring	150	389	-
Barley	407	-	-
Other Crops	1,082	-	-
Miscellaneous crop income	1,176	-476	-
Beef Cow-Calf, Beef Calves	1,662	5,717	1,484
Beef Finishing	65,618	169,712	92,011
Dairy, Milk	94,244	-	418,552
Dairy, Dairy Calves	2,376	-	8,905
Dairy Replacement Heifers	3,903	-	-
Dairy Finishing	12,669	63,544	-
Hogs, Feeder Pig Prod, Feeder Pigs	758	-	-
Hogs, Finish Feeder Pigs	6,858	4,698	19,183
Sheep, Feeder Lamb Prod, Fdr Lambs	336	-	-
Sheep, Market Lamb Prod, Mkt Lambs	3,378	-	-
Hogs, Weaning to Finish	133,703	-	342,797
Cull breeding livestock	2,524	1,002	8,263
Misc. livestock income	4,261	-	1,944
Crop government payments	3,448	1,057	4,794
CRP payments	960	101	1,924
Livestock govt payments	2,200	-	8,474
Other government payments	64,336	49,565	98,390
Custom work income	19,673	4,372	58,588
Patronage dividends, cash	8,451	6,551	16,320
Crop insurance income	66,515	23,588	60,061
Property insurance income	1,492	2,883	620
Contract livestock income	26,427	22,704	51,941
Other farm income	24,167	13,061	57,096
Gross Cash Farm Income	946,154	672,951	1,773,565

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

	Avg. Of		
	All Farms	Low 20%	High 20%
Number of farms	106	21	22
Cash Farm Expense			
Seed and plants	64,908	50,948	110,206
Fertilizer	57,495	37,616	86,165
Crop chemicals	30,721	32,309	34,994
Non-chemical crop protect	486	-	2,341
Crop insurance Drying expense	13,326 8,689	10,423 4,610	21,050 11,415
Storage	515	4,010	620
Crop miscellaneous	1,530	1.255	4,012
Consultants	2,335	1,195	3,015
Feeder livestock purchase	101,382	118,779	209,749
Purchased feed	117,038	56,494	334,030
Breeding fees	2,057	338	8,055
Veterinary	7,746	8,890	19,006
Supplies	5,285	1,035	18,313
Contract production exp. Livestock insurance	17,524 666	-	49,567 3,211
Grazing fees	214	1,080	3,211
Interest	42.849	42,197	75,271
Fuel & oil	24,062	15,542	38,731
Repairs	45,114	32,071	71,603
Custom hire	15,787	10,579	36,746
Hired labor	24,989	9,649	57,855
Land rent	132,372	127,059	171,303
Machinery leases	15,193	5,219	33,333
Building leases	2,200 8,508	3,374 3,066	5,282 16,491
Real estate taxes Farm insurance	11,674	8,845	19,461
Utilities	10,446	4,696	21,409
Hauling and trucking	4,398	4,268	12,413
Marketing	2,391	4,416	2,108
Dues & professional fees	5,864	4,603	8,342
Purchase of resale items	458	1,932	-
Miscellaneous	5,461	4,596	8,273
Total cash expense Net cash farm income	783,687 162,466	607,090 65,861	1,494,366 279,199
	102,400	03,001	279,199
Inventory Changes	4 200	17 500	1 171
Prepaids and supplies Accounts receivable	4,289 13,026	-17,520 10,948	4,474 35,991
Hedging accounts	7,720	-13,383	19,531
Other current assets	-614	-581	106
Crops and feed	-3,243	5,769	77,827
Market livestock	13,554	-19,617	63,750
Breeding livestock	1,029	-1,184	8,371
Other assets	13,629	-149	60,651
Accounts payable	3,412	8,366	16,717
Accrued interest Total inventory change	-714 52,089	-1,374 -28,726	-179 287,239
Net operating profit	214,555	37,135	566,438
Depreciation			
Machinery and equipment	-49,211	-49,676	-82,526
Titled vehicles	-3,231	-2,482	-4,039
Buildings and improvements	-19,079	-13,278	-37,914
Total depreciation	-71,520	-65,436	-124,478
Net farm income from operations	143,035	-28,302	441,959
Gain or loss on capital sales	1,969	-326	3,277
Net farm income	145,004	-28,628	445,236
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#### 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	106	21	22
Profitability (assets valued at cost)			
Net farm income from operations	143,035	-28,302	441,959
Rate of return on assets	4.8 %	-1.8 %	9.0 %
Rate of return on equity	4.9 %	-9.0 %	11.6 %
Operating profit margin	15.7 %	-6.4 %	27.4 %
Asset turnover rate	30.7 %	27.5 %	32.7 %
Farm interest expense	43,563	43,571	75,449
Value of operator lbr and mgmt.	65,146	45,813	107,083
Return on farm assets	121,452	-30,543	410,326
Average farm assets	2,519,443	1,737,085	4,574,283
Return on farm equity	77,889	-74,115	334,876
Average farm equity	1,598,124	824,172	2,893,573
Value of farm production	772,867	477,547	1,495,907
	Ava Of		
	Avg. Of All Farms	Low 20%	High 20%
Number of farms		<u>Low 20%</u> 21	High 20%
Number of farms  Profitability (assets valued at market)	<b>All Farms</b> 106		
	<b>All Farms</b> 106		
Profitability (assets valued at market)	<b>All Farms</b> 106	21	22
Profitability (assets valued at market) Net farm income from operations Rate of return on assets	106 173,907	7,967	22 471,577
Profitability (assets valued at market) Net farm income from operations	106 173,907 4.2 %	7,967 0.2 %	22 471,577 7.3 %
Profitability (assets valued at market) Net farm income from operations Rate of return on assets Rate of return on equity	106 173,907 4.2 % 4.8 %	7,967 0.2 % -3.3 %	22 471,577 7.3 % 9.9 %
Profitability (assets valued at market) Net farm income from operations Rate of return on assets Rate of return on equity Operating profit margin	106 173,907 4.2 % 4.8 % 19.7 %	7,967 0.2 % -3.3 % 1.2 %	22 471,577 7.3 % 9.9 % 29.4 %
Profitability (assets valued at market) Net farm income from operations Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate  Farm interest expense Value of operator lbr and mgmt.	173,907 4.2 % 4.8 % 19.7 % 21.2 % 43,563 65,146	7,967 0.2 % -3.3 % 1.2 % 20.6 % 43,571 45,813	22 471,577 7.3 % 9.9 % 29.4 % 24.7 % 75,449 107,083
Profitability (assets valued at market) Net farm income from operations Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate Farm interest expense	106 173,907 4.2 % 4.8 % 19.7 % 21.2 % 43,563	7,967 0.2 % -3.3 % 1.2 % 20.6 % 43,571 45,813 5,725	22 471,577 7.3 % 9.9 % 29.4 % 24.7 % 75,449 107,083 439,944
Profitability (assets valued at market) Net farm income from operations Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate  Farm interest expense Value of operator lbr and mgmt.	173,907 4.2 % 4.8 % 19.7 % 21.2 % 43,563 65,146	7,967 0.2 % -3.3 % 1.2 % 20.6 % 43,571 45,813	22 471,577 7.3 % 9.9 % 29.4 % 24.7 % 75,449 107,083 439,944 6,053,475
Profitability (assets valued at market) Net farm income from operations Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate  Farm interest expense Value of operator lbr and mgmt. Return on farm assets	173,907 4.2 % 4.8 % 19.7 % 21.2 %  43,563 65,146 152,323	7,967 0.2 % -3.3 % 1.2 % 20.6 % 43,571 45,813 5,725	22 471,577 7.3 % 9.9 % 29.4 % 24.7 % 75,449 107,083 439,944
Profitability (assets valued at market) Net farm income from operations Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate  Farm interest expense Value of operator lbr and mgmt. Return on farm assets Average farm assets Return on farm equity Average farm equity	173,907 4.2 % 4.8 % 19.7 % 21.2 % 43,563 65,146 152,323 3,650,358	7,967 0.2 % -3.3 % 1.2 % 20.6 % 43,571 45,813 5,725 2,322,736	22 471,577 7.3 % 9.9 % 29.4 % 24.7 % 75,449 107,083 439,944 6,053,475 364,494 3,682,830
Profitability (assets valued at market) Net farm income from operations Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate  Farm interest expense Value of operator lbr and mgmt. Return on farm assets Average farm assets Return on farm equity	173,907 4.2 % 4.8 % 19.7 % 21.2 %  43,563 65,146 152,323 3,650,358 108,760	7,967 0.2 % -3.3 % 1.2 % 20.6 % 43,571 45,813 5,725 2,322,736 -37,846	22 471,577 7.3 % 9.9 % 29.4 % 24.7 % 75,449 107,083 439,944 6,053,475 364,494

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

	Avg. Of All Farms	Low 20%	High 20%
Number of farms	106	21	22
Liquidity			
Current ratio	2.08	1.14	2.15
Working capital	419,247	70,840	715,939
Working capital to gross inc	42.3 %	10.8 %	35.1 %
Current assets	808,635	571,236	1,336,137
Current liabilities	389,388	500,396	620,197
Gross revenues (accrual)	991,746	654,753	2,039,686
Repayment capacity	440.005	00.000	444.050
Net farm income from operations	143,035	-28,302	441,959
Depreciation	71,520	65,436	124,478
Personal income	47,034	51,022	40,840
Family living/owner withdrawals	-74,905	-58,729	-103,320
Cash discrepancy	-162	-84	-128
Payments on personal debt	-3,258	-3,195	-4,643
Income taxes paid	-20,948	-6,267	-39,353
Interest on term debt	25,330	21,149	50,595
Capital debt repayment capacity	187,647	41,031	510,429
Scheduled term debt payments	-81,368	-76,543	-153,948
Capital debt repayment margin	106,279	-35,512	356,481
Capital dest repayment margin	100,270	00,012	000,401
Cash replacement allowance	-44,188	-35,043	-66,084
Replacement margin	62,091	-70,555	290,397
Term debt coverage ratio	2.31	0.54	3.32
Replacement coverage ratio	1.49	0.37	2.32

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

	Avg. All Fa		Low	20%	High	20%
Number of farms		106		21		22
	Beginning	<u>Ending</u>	Beginning	<u>Ending</u>	Beginning	<u>Ending</u>
Assets						
Current Farm Assets						
Cash and checking balance	70,669	82,468	6,803	22,990	130,422	94,820
Prepaid expenses & supplies	91,439	95,729	67,943	50,423	151,579	156,054
Growing crops	513	22	0	0	0	106
Accounts receivable	55,969	68,995	11,577	22,525	158,432	194,423
Hedging accounts	6,788	12,311	11,960	12,448	4,838	17,667
Crops held for sale or feed	433,290	430,047	304,934	310,703	593,563	671,390
Crops under government loan	0	0	0	0	0	0
Market livestock held for sale	105,453	119,008	171,690	152,073	137,927	201,677
Other current assets	177	54	655	74	0	0
Total current farm assets	764,299	808,635	575,562	571,236	1,176,761	1,336,137
Intermediate Farm Assets						
Breeding livestock	49,951	52,551	33,590	34,048	145,268	170,800
Machinery and equipment	674,094	670,032	658,088	666,744	1,041,296	1,040,032
Titled vehicles	35,572	34,659	25,150	23,777	37,281	38,532
		•	46.116	,	220.436	
Other intermediate assets	73,414	84,395	-, -	41,768	-,	297,468
Total intermediate farm assets	833,030	841,638	762,945	766,337	1,444,281	1,546,831
Long Term Farm Assets	1 005 100	4 474 005	000.074	004.054	0.005.005	0.400.000
Farm land	1,385,198	1,474,365	628,971	661,251	2,025,985	2,166,880
Buildings and improvements	540,504	553,538	318,882	321,127	1,071,906	1,121,093
Other long-term assets	46,880	52,630	13,095	26,065	99,208	117,869
Total long-term farm assets	1,972,583	2,080,533	960,948	1,008,443	3,197,099	3,405,842
Total Farm Assets	3,569,912	3,730,805	2,299,455	2,346,016	5,818,141	6,288,809
Total Nonfarm Assets	546,803	614,172	238,092	258,675	941,209	1,083,563
Total Assets	4,116,715	4,344,977	2,537,547	2,604,691	6,759,350	7,372,372
Liabilities						
Current Farm Liabilities						
Accrued interest	13,884	14,598	16,026	17,400	21,893	22,072
Accounts payable	37,226	33,814	23,142	14,776	96,841	80,125
Current notes	316,001	287,057	375,634	412,905	503,215	415,010
Government crop loans	0	0	0	0	0	0
Principal due on term debt	56,038	53,918	55,394	55,315	103,353	102,990
Total current farm liabilities	423,150	389,388	470,195	500,396	725,304	620,197
Total intermediate farm liabs	108,366	107,202	147,778	132,874	177,557	191,182
Total long term farm liabilities	391,133	423,401	264,054	310,529	844,618	802,560
Total farm liabilities	922,648	919,991	882,026	943,799	1,747,479	1,613,940
Total nonfarm liabilities	53,015	55,265	35,095	29,972	63,915	78,010
Total liabs excluding deferreds	975,663	975,256	917,122	973,771	1,811,393	1,691,950
Total deferred liabilities	490,877	513,065	287,206	286,023	675,777	763,961
Total liabilities	1,466,540	1,488,321	1,204,327	1,259,793	2,487,170	2,455,911
Retained earnings	1,871,918	2,020,132	997,123	965,321	3,069,857	3,646,698
<u> </u>	778,257	836,524	336,096	379,576	1,202,323	1,269,764
Market valuation equity Net worth (farm and nonfarm)		2,856,656	,			
Net worth excluding deferreds	2,650,175	, ,	1,333,220	1,344,897	4,272,180	4,916,462
	3,141,052	3,369,721	1,620,426	1,630,920	4,947,957	5,680,422
Net worth change Percent net worth change		206,481 8 %		11,677 1 %		644,282 15 %
•						
Ratio Analysis Current farm liabilities / assets	55 %	48 %	82 %	88 %	62 %	46 %
Intermediate farm liab. / assets	13 %	13 %	19 %	17 %	12 %	12 %
	20 %	20 %	27 %	31 %	26 %	24 %
Long term farm liab. / assets						
Total debt to asset ratio	36 % 24 %	34 %	47 % 36 %	48 % 37 %	37 % 27 %	33 %
Debt to assets excl deferreds		22 %				23 %

17

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

	Avg. All Fa		Low	20%	High	20%
Number of farms		106		21		22
	Beginning	Ending	Beginning	Ending	Beginning	Ending
Assets	<u> </u>	<u>=</u>	<u> </u>	<u>=a</u>	<u> </u>	
Current Farm Assets						
Cash and checking balance	70,669	82,468	6,803	22,990	130,422	94,820
Prepaid expenses & supplies	91,439	95,729	67,943	50,423	151,579	156,054
Growing crops	513	22	0	0	0	106
Accounts receivable	55,969	68,995	11,577	22,525	158,432	194,423
Hedging accounts	6,788	12,311	11,960	12,448	4,838	17,667
Crops held for sale or feed	433,290	430,047	304,934	310,703	593,563	671,390
Crops under government loan	433,290	430,047	0	0	0	07 1,590
-		119,008	171,690	152,073		-
Market livestock held for sale	105,453	,	,	,	137,927	201,677
Other current assets	177	54	655	74	0	0
Total current farm assets	764,299	808,635	575,562	571,236	1,176,761	1,336,137
Intermediate Farm Assets		40.000	00.404	00 -01	440.074	4 <b>-0</b> 0
Breeding livestock	43,891	43,989	28,101	29,591	142,954	153,855
Machinery and equipment	456,038	443,605	515,973	501,156	712,452	701,288
Titled vehicles	21,268	19,861	16,792	14,882	22,085	22,092
Other intermediate assets	63,906	77,459	26,725	26,567	218,731	296,854
Total intermediate farm assets	585,103	584,913	587,591	572,196	1,096,222	1,174,090
Long Term Farm Assets						
Farm land	699,280	766,754	310,112	334,366	1,279,117	1,393,295
Buildings and improvements	368,915	369,300	243,472	238,300	737,036	750,198
Other long-term assets	44,208	47,480	14,174	27,160	102,696	103,014
Total long-term farm assets	1,112,403	1,183,534	567,758	599,826	2,118,848	2,246,508
Total Farm Assets	2,461,805	2,577,082	1,730,911	1,743,258	4,391,831	4,756,734
Total Nonfarm Assets	385,776	418,306	183,334	195,834	489,419	581,913
Total Assets	2,847,581	2,995,387	1,914,245	1,939,092	4,881,250	5,338,648
Liabilities						
Current Farm Liabilities						
Accrued interest	13,884	14,598	16,026	17,400	21,893	22,072
Accounts payable	37,226	33,814	23,142	14,776	96,841	80,125
Current notes	316,001	287,057	375,634	412,905	503,215	415,010
Government crop loans	0	0	0	0	0	0
Principal due on term debt	56,038	53,918	55,394	55,315	103,353	102,990
Total current farm liabilities	423,150	389,388	470,195	500,396	725,304	620,197
Total intermediate farm liabs	108,366	107,202	147,778	132,874	177,557	191,182
Total long term farm liabilities	391,133	423,401	264,054	310,529	844,618	802,560
Total farm liabilities	922,648	919,991	882,026	943,799	1,747,479	1,613,940
Total nonfarm liabilities	53,015	55,265	35,095	29,972	63,915	78,010
Total liabilities	975,663	975,256	917,122	973,771	1,811,393	1,691,950
Net worth (farm and nonfarm)	1,871,918	2,020,132	997,123	965,321	3,069,857	3,646,698
Net worth change	, ,	148,214	, -	-31,802	. ,	576,841
Percent net worth change		8 %		-3 %		19 %
Ratio Analysis						
Current farm liabilities / assets	55 %	48 %	82 %	88 %	62 %	46 %
Intermediate farm liab. / assets	19 %	18 %	25 %	23 %	16 %	16 %
Long term farm liab. / assets	35 %	36 %	47 %	52 %	40 %	36 %
Total debt to asset ratio	34 %	33 %	48 %	50 %	37 %	32 %
2019 Appual Report	31,70		.5 /0		PankEm @ Universi	

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

	Avg. Of All Farms	Low 20%	_ High 20%
Number of farms	106	21	22
Beginning cash (farm & nonfarm)	80,694	20,407	133,064
Cash Provided By Operating Activities			
Gross cash farm income	946,154	672,951	1,773,565
Total cash farm expense	-783,687	-607,090	-1,494,366
Net cash from hedging transactions	2,197	-13,871	6,702
Cash provided by operating	164,663	51,990	285,901
Cash Provided By Investing Activities	0.400	0.004	
Sale of breeding livestock	3,183	3,904	-
Sale of machinery & equipment	17,757	20,488	50,723
Sale of titled vehicles	383	-	591
Sale of farm land	1,891	-	655
Sale of farm buildings	-	-	-
Sale of other farm assets	3,505	362	267
Sale of nonfarm assets	4,512	1,464	3,865
Purchase of breeding livestock	-2,252	-6,579	-2,531
Purchase of machinery & equip.	-53,750	-55,673	-119,462
Purchase of titled vehicles	-2,288	-571	-4,637
Purchase of farm land	-68,101	-24,255	-114,187
Purchase of farm buildings	-19,463	-8,107	-51,076
Purchase of other farm assets	-6,701	-13,339	-18,058
Purchase of nonfarm assets	-16,654	-9,014	-27,831
Cash provided by investing	-137,977	-91,320	-281,683
Cash Provided By Financing Activities	500 500	444.070	0.40.005
Money borrowed	563,562	441,676	842,385
Principal payments	-566,004	-377,625	-958,153
Personal income	47,034	51,022	40,840
Family living/owner withdrawals	-74,887	-58,633	-103,320
Income and social security tax	-16,436	-6,684	-26,509
Capital diatributions	9,075	2,347	41,482
Capital distributions	-440	-	-747
Dividends paid	-19	-95 0.000	404.440
Cash gifts and inheritances	29,273	6,280	124,116
Gifts given	-3,537	=	-
Other cash flows	40.070	- 	20.005
Cash provided by financing	-12,378	58,287	-39,905
Net change in cash balance	14,307	18,956	-35,687
Ending cash (farm & nonfarm)	94,840	39,279	97,249
Discrepancy	162	84	128

# 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	106	21	22
Acreage Summary			
Total acres owned	235	133	363
Total crop acres	940	678	1,323
Crop acres owned	233	113	338
Crop acres cash rented	659	551	909
Crop acres share rented	48	14	76
Total pasture acres	11	40	-
Percent crop acres owned	25 %	17 %	26 %
Mach invest/crop acre cost	487	764	516
Mach invest/crop acre market	734	1,003	763
Average Price Received (Cash Sales C	Only)		
Soybeans per bushel	8.46	8.32	8.55
Corn per bushel	3.58	3.47	3.66
Hay per ton	110.01	-	-
Oats per bushel	2.81	=	-
Corn Silage per ton	30.90	=	-
Hay, Alfalfa per ton	97.94	-	-
Assessed Violat Box Asses			
Average Yield Per Acre	48.61	48.68	52.37
Soybeans (bushel)	164.13		
Corn (bushel)	18.02	156.45	176.90 18.16
Corn Silage (ton)		-	
Hay, Alfalfa (ton)	4.87 2.49	- 1.92	5.23
Hay, Grass (ton)	2.49 87.24	1.92	-
Oats (bushel)	01.24	-	-

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

	Avg. Of All Farms	High 20%
Number of farms	39	8
Average family size	2.9	3.4
Family Living Expenses Food and meals expense Medical care Health insurance Cash donations Household supplies Clothing Personal care Child / Dependent care Alimony and child support Gifts Education Recreation Utilities (household share) Personal vehicle operating exp Household real estate taxes Dwelling rent Household repairs Personal interest Disability / Long term care ins Life insurance payments Personal property insurance Miscellaneous Total cash family living expense Family living from the farm Total family living	8,973 4,353 6,311 4,692 6,565 2,675 1,027 815 - 4,788 858 5,022 3,310 3,832 465 76 1,795 1,238 315 2,840 985 5,418 66,354 231 66,585	9,840 6,110 8,562 6,645 7,991 1,951 1,037 71 - 1,606 1,810 6,736 3,752 2,772 625 33 2,033 1,091 106 2,079 1,418 1,040 67,308
Other Nonfarm Expenditures Income taxes Furnishing & appliance purchases Nonfarm vehicle purchases Nonfarm real estate purchases Other nonfarm capital purchases Nonfarm savings & investments Total other nonfarm expenditures	22,367 577 2,139 - 1,292 7,073 33,449	36,105 - 3,349 - -2,644 16,265 53,075
Total cash family living investment & nonfarm capital purch	99,802	120,383

#### 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	106	21	22
Operator Information			
Average number of operators	1.2	1.1	1.4
Average age of operators	53.4	49.5	53.7
Average number of years farming	29.3	22.8	31.6
Results Per Operator			
Working capital	347,189	64,680	525,022
Total assets (market)	3,598,184	2,378,196	5,406,406
Total liabilities	1,232,516	1,150,246	1,801,001
Net worth (market)	2,365,668	1,227,950	3,605,405
Net worth excl deferred liabs	2,790,550	1,489,101	4,165,643
Gross farm income	821,289	597,818	1,495,769
Total farm expense	702,839	623,658	1,171,666
Net farm income from operations	118,451	-25,841	324,104
Net nonfarm income	38,950	46,585	29,950
Family living & tax withdrawals	79,512	59,421	104,721
Total acres owned	195.0	121.4	265.9
Total crop acres	778.6	619.0	970.2
Crop acres owned	193.2	102.9	248.2
Crop acres cash rented	545.9	503.0	666.7
Crop acres share rented	39.5	13.0	55.4
Total pasture acres	9.1	36.8	-
Labor Analysis			
Number of farms	106	21	22
Total unpaid labor hours	2,144	1,635	3,151
Total hired labor hours	958	341	2,055
Total labor hours per farm	3,103	1,976	5,206
Unpaid hours per operator	1,776	1,492	2,311
Value of farm production / hour	249.10	241.71	287.32
Net farm income / unpaid hour	66.70	-17.31	140.25
Average hourly hired labor wage	26.43	26.80	26.81

#### 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	106	21	22
Nonfarm Income			
Personal wages & salary	25,763	26,381	28,665
Net nonfarm business income	2,850	8,033	1,133
Personal rental income	4,038	5,894	2,185
Personal interest income	1,188	374	556
Personal cash dividends	81	292	58
Tax refunds	918	600	353
Other nonfarm income	12,195	9,447	7,890
Total nonfarm income	47,034	51,022	40,840
Gifts and inheritances	29,273	6,280	124,116
Nonfarm Assets (market)			
Checking & savings	12,371	16,289	2,428
Stocks & bonds	45,970	17,326	16,687
Other current assets	3,085	1,138	5,078
Furniture & appliances	10,268	5,443	11,883
Nonfarm vehicles	20,846	9,679	22,775
Cash value of life ins.	20,648	10,067	19,890
Retirement accounts	164,031	69,625	181,465
Other intermediate assets	101,753	35,943	406,298
Nonfarm real estate	121,583	54,268	121,360
Personal bus. investment	60,907	- ,	258,684
Other long term assets	52,709	38,897	37,014
Total nonfarm assets	614,172	258,675	1,083,563
Nonfarm Liabilities			
Accrued interest	104	137	132
Accounts payable	891	165	463
Current notes	75	-	363
Princ due on term debt	3,231	2,817	5,023
Total current liabilities	24,117	8,629	39,066
Intermediate liabilities	4,750	7,006	6,448
Long term liabilities	26,398	14,337	32,497
Total nonfarm liabilities	55,265	29,972	78,010
Nonfarm net worth	558,907	228,703	1,005,553
Nonfarm debt to asset ratio	9 %	12 %	7 %

## Projected Profitability Southwest Minnesota Farm Business Management Association

2019 2019 2019 2020 2019 2020 SW **Improved** SW Assn **SW Assn** Statewide Statewide Assn Margin **Crop Farms Crop Farms Lvst Farms** Lvst Farms Actual Mgmt. Actual **Projected** Actual **Projected** Liquidity 2.1 2.2 2.4 2.1 Current ratio 1.6 1.5 Working capital to gross 42% 44% 61% 56% 18% 14% Solvency<sup>1</sup> Debt to asset 25% 24% 23% 23% 37% 38% Debt to equity 0.33 0.32 0.29 0.30 0.59 0.61 **Profitability** Rate of return on assets<sup>2</sup> 3% 6% 2% 0% 3% 1% Operating profit margin 16% 25% 8% -2% 12% 3% Net farm income<sup>3</sup> \$140,558 \$231,000 \$25,000 \$76,249 \$91,285 \$32,000 Repayment capacity 3.4 1.0 0.9 Term debt coverage 2.3 1.9 1.5 1.5 2.2 1.1 0.5 1.2 0.7 Replacement coverage Efficiency 21% 23% 19% 28% 24% Asset turnover rate 21% Operating expense ratio 74% 67% 75% 82% 84% 88% Net worth growth Net worth change 7% 10% 4% 2% 6% 2% 2018 2018 2019 2018 2018 2018 **Improved** SW Assn SW Assn Statewide Statewide **All Farms** Margin **Crop Farms Crop Farms Lvst Farms Lvst Farms Projected Changes** Actual Actual **Projected Projected** Mgmt. Actual Gross income +5% -10% -12% -5% -1% -7% Operating expenses 0% -1% -1% Interest rates

+5%

0%

Current assets

Noncurrent assets

-11%

0%

-10%

0%

<sup>&</sup>lt;sup>1</sup> Assets at estimated market value excluding deferred liabilities.

<sup>&</sup>lt;sup>2</sup> Assets at estimated market value, returns excluding change in market valuation.

<sup>&</sup>lt;sup>3</sup> Differs from previous tables because Owner Wages and Benefits are treated as expenses. In previous tables, owner wages and benefits are moved to Value of Operator Labor and Management to improve comparative analysis.

# **Crop Reports**

The Crop Enterprise Analysis tables show the average physical production, gross return, direct costs, overhead costs, and net returns per acre. There are potentially three tables for each crop depending on the farmer's tenure on the land: owned land, cash rented land, 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, crop insurance proceeds and any disaster payments that might have been received. It does not include government payments that are decoupled from production such as ARC and PLC payments (see Net Return with Government Payments).

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.

#### Corn on Owned Land

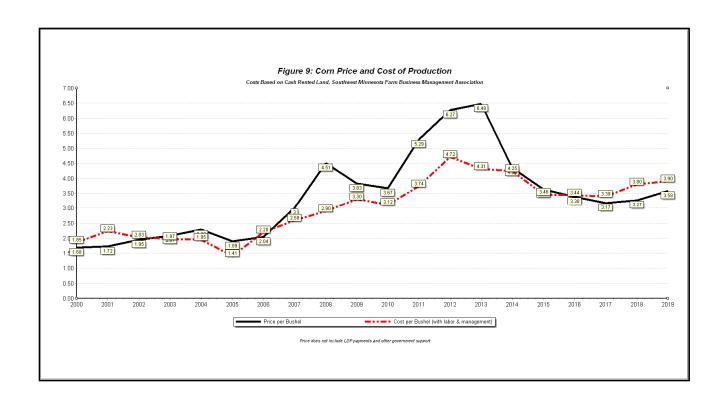
	Ava. Of _All Farms	Low 20%	_High 20%
Number of farms	56	11	12
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Hedging gains/losses per acre Crop insurance per acre Other crop income per acre Gross return per acre	164.44	124.33	171.13
	162.48	157.31	161.67
	100.00	100.00	100.00
	3.82	3.79	3.82
	620.95	595.78	617.15
	0.17	1.78	-0.44
	67.04	40.03	157.97
	75.85	71.71	81.21
	764.00	709.31	855.90
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drving 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	124.97 127.42 41.28 12.23 16.90 21.50 46.83 18.06 2.97 1.10 2.66 0.69 0.08 23.94 0.40 441.01 268.30	112.25 101.92 39.91 20.55 14.49 0.74 21.25 47.32 22.25 5.52 1.14 3.25 0.68 0.85 13.13 1.57 406.83 449.07
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	12.82	1.44
	2.88	2.69	0.02
	0.70	4.07	0.35
	29.65	30.61	26.44
	10.71	13.95	8.39
	6.45	5.77	6.84
	4.84	8.03	3.20
	73.59	100.11	53.99
	71.29	74.72	61.92
	4.16	7.43	3.01
	209.72	260.21	165.62
	608.32	701.22	572.45
	155.68	8.09	283.45
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	6.98	3.33	4.18
	162.66	11.42	287.63
	56.47	60.37	53.32
	106.19	-48.95	234.31
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	2.45	2.80	2.52
	3.74	4.46	3.54
	2.82	3.71	2.04
	3.17	4.10	2.37
Net value per unit	3.82	3.80	3.81
Machinery cost per acre	148.48	157.01	147.76
Est. labor hours per acre	2.41	3.15	2.17

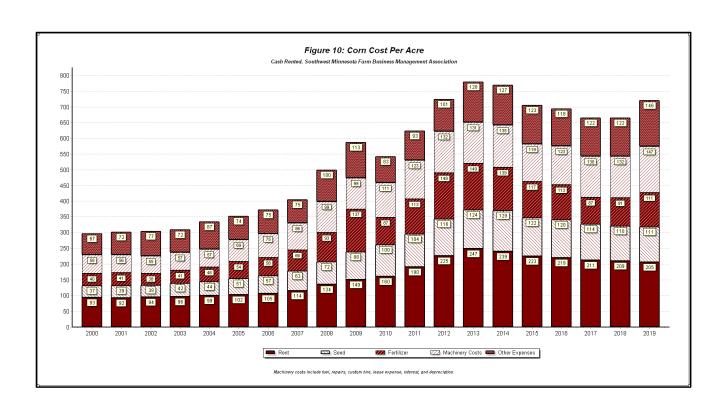
#### Corn on Cash Rent

	Ava. Of	Law 200/	Himb 200/
	_All Farms	Low 20%	<u> High 20%</u>
Number of farms	78	15	16
Acres	326.62	496.20	213.88
Yield per acre (bu.)	165.90	155.51	167.08
Operators share of yield %	100.00	100.00	100.00
Value per bu. Other product return per acre	3.80 0.09	3.79	3.83
Total product return per acre	630.03	589.52	639.58
Hedging gains/losses per acre	0.06	0.35	-
Crop insurance per acre	54.33	45.29	126.51
Other crop income per acre	72.18	57.88	79.99
Gross return per acre	756.60	693.03	846.08
Direct Expenses			
Seed and plants	110.64	115.77	104.99
Fertilizer Crop shamingle	110.66	95.75 35.52	113.29
Crop chemicals Crop insurance	33.97 18.25	35.52 15.51	36.88 22.06
Drying expense	23.97	30.07	15.71
Storage	0.60	1.64	0.71
Fuel & oil	23.69	27.36	19.71
Repairs	39.10	45.10	30.24
Custom hire	11.75	5.92	16.71
Hired labor Land rent	6.68 204.67	9.91 223.49	1.06 172.37
Machinery leases	5.37	10.92	2.18
Hauling and trucking	0.76	0.18	0.39
Marketing	1.39	1.62	3.27
Operating interest	16.49	23.06	7.73
Miscellaneous	2.91 610.89	3.65 645.48	0.71 548.00
Total direct expenses per acre Return over direct exp per acre	145.71	47.55	298.08
Overhead Expenses			
Hired labor	3.58	2.95	4.51
Machinery leases	7.36	1.01	9.00
Building leases	1.76	3.09	6.17
Farm insurance Utilities	10.51 5.87	9.94 5.40	7.92 6.28
Dues & professional fees	7.84	12.10	4.34
Interest	5.80	6.48	2.98
Mach & bldg depreciation	61.51	74.09	53.87
Miscellaneous	5.17	7.61	6.89
Total dir 8 ayld ayranga par acre	109.39	122.66	101.95
Total dir & ovhd expenses per acre Net return per acre	720.28 36.31	768.14 -75.11	649.95 196.13
·			
Government payments	4.63	2.03	1.13
Net return with govt pmts Labor & management charge	40.94 58.76	-73.08 56.30	197.26 61.92
Net return over lbr & mgt	-17.82	-129.38	135.34
Cost of Production			
Total direct expense per bu.	3.68	4.15	3.28
Total dir & ovhd exp per bu.	4.34	4.94	3.89
Less govt & other income	3.55	4.26	2.65
With labor & management	3.90	4.62	3.02
Net value per unit	3.80	3.79	3.83
Machinery cost per acre	147.08	162.28	129.10
Est. labor hours per acre	2.29	2.39	2.54
•			

# Corn on Share Rent

	Avq. Of All Farms
Number of farms	15
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	134.15 156.24 51.96 3.78 306.90 55.31 41.43 403.64
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drying expense 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	61.22 59.56 22.55 10.23 10.19 0.27 20.39 34.61 9.00 5.11 2.29 1.36 11.29 2.24 250.30 153.34
Overhead Expenses  Hired labor Machinery leases Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	7.87 0.47 2.59 6.66 4.20 3.81 4.43 53.14 5.04 88.21 338.51 65.13
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	0.81 65.94 59.17 6.77
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	3.08 4.17 2.97 3.70
Net value per unit Machinery cost per acre Est. labor hours per acre	3.78 120.24 2.21





# Soybeans on Owned Land

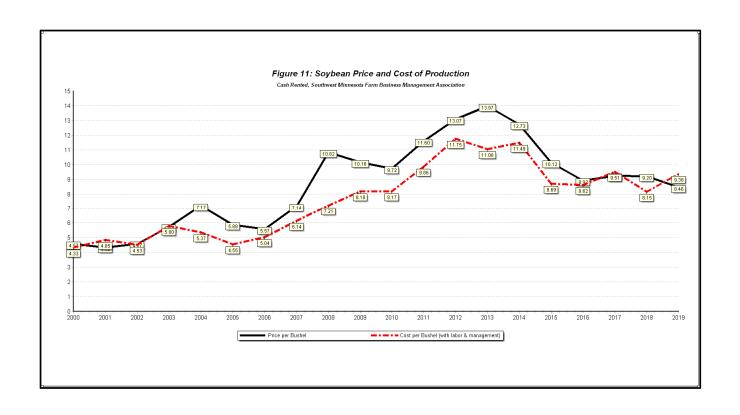
	Avq. Of All Farms	Low 20%	_High 20%
Number of farms	53	10	11
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	163.16	210.96	139.66
	49.28	43.62	55.49
	100.00	100.00	100.00
	8.87	8.82	8.87
	437.02	384.74	491.99
	11.73	9.30	6.34
	74.14	76.22	81.90
	522.90	470.27	580.23
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Storage Fuel & oil Repairs Custom hire Hired labor Machinery leases Utilities Marketing Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	54.97	54.00	51.49
	26.85	29.74	21.05
	39.03	42.51	38.68
	15.70	18.96	18.96
	0.56	-	0.05
	18.52	16.12	19.47
	41.17	55.71	43.24
	8.28	4.78	10.25
	3.84	5.05	3.10
	2.29	8.96	0.39
	0.85	-	2.75
	0.87	1.13	1.07
	9.69	18.45	4.96
	3.32	1.99	0.43
	225.94	257.40	215.90
	296.95	212.86	364.34
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	5.11	4.86	0.95
	1.36	1.70	0.05
	0.76	2.81	0.44
	25.57	23.61	18.65
	9.53	8.16	11.76
	5.13	3.83	4.75
	4.09	3.65	7.28
	65.51	116.34	17.74
	53.29	48.73	44.51
	3.72	5.45	1.74
	174.07	219.13	107.87
	400.01	476.54	323.77
	122.89	-6.27	256.47
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	4.24	6.65	5.25
	127.13	0.38	261.71
	47.40	42.75	46.64
	79.73	-42.37	215.07
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	4.58	5.90	3.89
	8.12	10.92	5.84
	6.29	8.81	4.15
	7.25	9.79	4.99
Net value per unit	8.87	8.82	8.87
Machinery cost per acre	117.99	128.00	111.20
Est. labor hours per acre	2.20	1.64	2.56

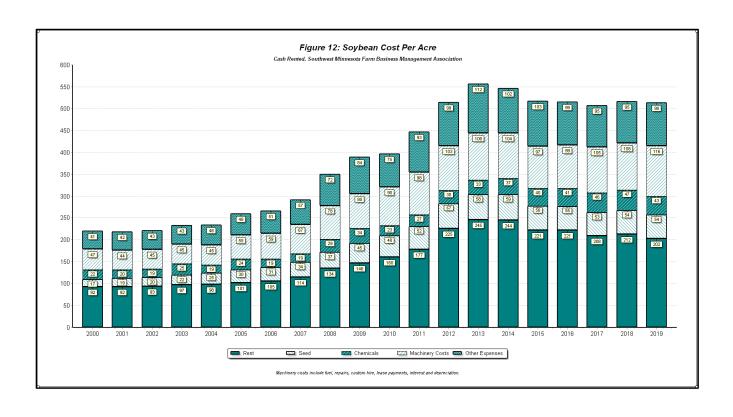
# Soybeans on Cash Rent

	Ava. Of _All Farms	Low 20%	_High 20%
Number of farms	81	16	17
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	347.65 48.36 100.00 8.83 427.19 0.04 21.72 79.57 528.52	235.49 43.63 100.00 8.89 387.91 13.50 68.74 470.16	216.56 54.03 100.00 8.93 482.60 0.34 22.52 86.63 592.09
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance 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	54.10 23.90 43.28 17.14 0.45 19.92 33.42 8.15 8.18 201.69 10.94 0.20 1.70 13.87 3.35 440.30 88.22	50.00 28.77 42.17 12.56 17.47 37.58 4.77 5.61 228.94 4.10 - 0.71 20.38 5.19 458.24 11.91	51.72 29.89 43.18 16.65 0.81 15.78 21.42 10.44 1.25 167.68 3.12 0.61 2.13 4.51 0.06 369.26 222.83
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	2.92	5.61	3.10
	4.81	2.37	1.85
	1.24	4.55	2.67
	6.97	8.52	6.97
	4.11	2.45	6.52
	4.40	2.39	2.93
	3.30	9.01	1.71
	41.63	63.74	46.50
	3.42	2.84	4.73
	72.80	101.47	76.98
	513.10	559.71	446.24
	15.42	-89.56	145.85
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	3.24	5.36	2.93
	18.66	-84.20	148.77
	45.22	44.29	55.13
	-26.56	-128.49	93.64
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	9.10	10.50	6.83
	10.61	12.83	8.26
	8.45	10.82	6.18
	9.38	11.84	7.20
Net value per unit	8.83	8.89	8.94
Machinery cost per acre	116.38	129.92	95.16
Est. labor hours per acre	1.84	1.62	2.22

# Soybeans on Share Rent

	Avg. Of All Farms
Number of farms	14
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	153.46 48.98 52.55 8.77 225.69 32.06 45.52 303.27
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	32.67 16.52 32.99 14.31 15.96 32.56 9.69 3.26 1.62 0.64 7.59 1.01 168.82 134.45
Overhead Expenses  Hired labor  Building leases  Farm insurance  Utilities  Dues & professional fees Interest  Mach & bldg depreciation  Miscellaneous  Total overhead expenses per acre  Total dir & ovhd expenses per acre  Net return per acre	6.25 2.08 5.82 3.90 2.81 3.10 42.28 3.52 69.77 238.58 64.69
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	0.89 65.57 50.89 14.69
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	6.56 9.27 6.22 8.20
Net value per unit Machinery cost per acre Est. labor hours per acre	8.77 100.92 2.18





# Corn Silage

	Owned Land	Cash Rent
Number of farms	13	9
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	135.07 17.54 100.00 32.94 577.60 98.78 71.25 747.63	77.27 18.31 100.00 32.97 603.61 73.61 65.79 743.02
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Hired labor Land rent Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	93.22 103.98 25.18 12.16 18.99 29.22 21.14 5.51 - 4.14 9.79 2.79 326.13 421.50	80.71 112.49 21.80 9.83 14.40 30.05 2.10 2.76 214.94 4.18 10.55 6.59 510.40 232.62
Overhead Expenses  Hired labor Machinery leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	2.28 6.24 31.56 4.34 3.81 3.13 51.34 73.38 2.35 178.42 504.55 243.08	2.46 18.34 5.47 7.56 1.88 3.85 69.90 2.26 111.72 622.12 120.89
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	1.70 244.78 53.71 191.07	2.69 123.58 58.10 65.48
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	18.60 28.77 18.98 22.04	27.88 33.98 26.22 29.39
Net value per unit Machinery cost per acre Est. labor hours per acre	32.94 150.47 1.76	32.97 130.37 2.23

# Hay, Alfalfa

-	Owned Land	Cash Rent
Number of farms	10	9
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Other crop income per acre Gross return per acre	64.63 5.38 100.00 140.86 758.09 71.32 829.41	65.64 4.98 100.00 133.70 665.58 68.31 733.89
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Hired labor Land rent	9.69 77.71 5.38 1.35 22.86 29.46 22.33 3.11	5.25 83.39 3.28 0.24 18.20 23.34 8.05 1.98 222.21
Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	4.69 8.70 0.82 146.10 683.31	4.89 6.41 4.13 381.35 352.54
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	3.63 4.91 1.78 40.47 9.14 6.46 3.77 106.16 94.43 2.82 188.04 334.14 495.27	0.01 0.01 6.10 5.42 2.07 5.17 71.55 3.09 93.43 474.78 259.12
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	1.57 496.85 56.92 439.93	1.31 260.43 66.71 193.72
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	27.15 62.09 48.54 59.12	76.60 95.37 81.39 94.78
Net value per unit Machinery cost per acre Est. labor hours per acre	140.86 145.15 1.88	133.70 124.40 2.10

# CRP

	Owned Land	Cash Rent
Number of farms	10	5
Acres	33.33	32.74
Gross return per acre	144.48	190.64
Direct Expenses		
Crop chemicals	1.22	9.35
Fuel & oil	2.63	2.30
Repairs	3.55	5.35
Land rent	-	104.27
Operating interest	1.47	1.18
Total direct expenses per acre	8.64	122.46
Return over direct exp per acre	135.84	68.18
Overhead Expenses		
Machinery leases	0.58	1.20
RE & pers. property taxes	23.62	-
Farm insurance	0.69	1.55
Utilities	0.76	0.73
Dues & professional fees	0.57	0.98
Interest	8.53	0.63
Mach & bldg depreciation	10.90	7.25
Miscellaneous	1.00	0.10
Total overhead expenses per acre	42.82	12.44
Total dir & ovhd expenses per acre	51.46	134.89
Net return per acre	93.02	55.75
Government payments	-	-
Net return with govt pmts	93.02	55.75
Labor & management charge	7.58	6.66
Net return over lbr & mgt	85.44	49.09
Net value per unit	1.09	2.16
Machinery cost per acre	16.10	16.02
Est. labor hours per acre	0.29	0.40

# Prevented planting

	Owned	Cash	Share
	Land	Rent	Rent
Number of farms	23	36	6
Acres Yield per acre Operators share of yield % Value per 0 Other product return per acre	78.42 257.11 100.00 1.00	258.09 304.06 100.00 1.00 1.45	45.86 258.85 56.73 1.00
Total product return per acre	257.11	305.51	146.85
Crop insurance per acre	134.10	96.61	35.86
Other crop income per acre	34.02	29.39	29.78
Gross return per acre	425.23	431.51	212.48
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance 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	12.27 13.47 6.34 15.61 12.11 19.88 5.65 6.20 - 9.83 1.08 5.47 3.44 105.24 319.99	16.62 4.03 6.44 13.71 13.01 21.73 0.84 13.51 223.66 29.29 2.81 9.16 3.59 355.02 76.49	12.89 1.54 15.52 11.68 21.71 7.45 0.62 
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	2.06 1.98 0.00 30.94 6.97 3.56 2.19 63.78 39.44 4.67 154.46 259.70 165.53	0.78 0.53 0.19 3.33 1.63 1.99 1.32 17.49 1.52 28.37 383.39 48.12	0.00 1.12 1.54 5.21 2.86 4.67 2.04 52.77 1.94 39.75 105.73 106.75
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	2.01	1.51	5.32
	167.54	49.64	112.07
	37.96	24.65	28.53
	129.59	24.98	83.53
Net value per unit	1.00	1.00	1.00
Machinery cost per acre	81.78	80.64	67.87
Est. labor hours per acre	1.61	1.07	1.23

#### Crop Enterprise Analysis (Farms Sorted By Years) Southwest Minnesota Farm Business Management Association Corn on Cash Rent

	Avg. Of All Farms	2016_	2017_	2018	2019
Number of farms	338	87	88	85	78
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	365.73	377.44	379.21	375.67	326.62
	188.67	206.92	200.58	175.62	165.90
	100.00	100.00	100.00	100.00	100.00
	3.29	3.09	3.08	3.39	3.80
	0.07	-	0.07	0.10	0.09
	620.24	638.63	617.97	595.87	630.03
	1.02	1.54	-0.59	2.93	0.06
	27.01	6.08	16.34	37.89	54.33
	22.15	10.08	9.10	8.28	72.18
	670.41	656.33	642.82	644.97	756.60
Direct Expenses	442.02	440.00	112.01	440.40	440.64
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	113.83	119.82	113.94	110.10	110.64
	99.86	113.19	87.12	90.85	110.66
	31.36	33.07	29.13	29.86	33.97
	16.38	16.28	16.26	15.10	18.25
	14.16	6.52	14.92	13.40	23.97
	0.84	0.67	1.22	0.81	0.60
	21.82	17.28	21.13	25.73	23.69
	37.14	34.88	37.11	37.94	39.10
	9.07	8.26	9.73	7.07	11.75
	3.05	0.46	0.52	5.45	6.68
	211.14	218.68	211.17	208.52	204.67
	5.96	7.30	9.01	1.88	5.37
	0.60	0.82	0.35	0.50	0.76
	1.94	2.47	2.38	1.37	1.39
	12.94	11.67	11.69	12.72	16.49
	3.30	3.92	2.71	3.59	2.91
	583.39	595.29	568.39	564.88	610.89
	87.03	61.04	74.43	80.09	145.71
Overhead Expenses  Hired labor Machinery leases Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	8.31 5.76 1.75 9.88 5.07 4.50 3.94 56.47 4.37 100.05 683.44 -13.02	9.73 2.12 2.36 9.90 4.63 3.26 2.68 58.97 3.93 97.57 692.86 -36.53	12.04 1.59 1.03 9.97 4.89 3.19 3.28 56.14 3.90 96.04 664.43 -21.61	6.73 12.59 1.85 9.26 5.06 4.48 4.46 50.23 4.67 99.34 664.22	3.58 7.36 1.76 10.51 5.87 7.84 5.80 61.51 5.17 109.39 720.28 36.31
Government payments	8.37	15.18	12.54	0.01	4.63
Net return with govt pmts	-4.65	-21.34	-9.07	-19.24	40.94
Labor & management charge	53.09	51.08	52.26	51.52	58.76
Net return over lbr & mgt	-57.75	-72.42	-61.33	-70.77	-17.82
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	3.09	2.88	2.83	3.22	3.68
	3.62	3.35	3.31	3.78	4.34
	3.31	3.19	3.13	3.50	3.55
	3.59	3.44	3.39	3.80	3.90
Net value per unit	3.29	3.09	3.08	3.41	3.80
Machinery cost per acre	132.39	123.25	130.17	132.41	147.08
Est. labor hours per acre	2.21	2.22	2.24	2.10	2.29

# Crop Enterprise Analysis (Farms Sorted By Years)

# Southwest Minnesota Farm Business Management Association Soybeans on Cash Rent

	Avg. Of All Farms	2016	<u> 2017</u>	2018	2019
Number of farms	343	87	90	85	81
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	348.46	341.85	337.77	367.32	347.65
	54.41	61.56	54.28	53.20	48.36
	100.00	100.00	100.00	100.00	100.00
	8.94	9.37	8.96	8.54	8.83
	486.57	576.68	486.28	454.57	427.19
	0.97	3.19	-1.22	1.83	0.04
	14.35	1.93	6.68	27.01	21.72
	49.09	5.60	16.98	94.28	79.57
	550.98	587.40	508.73	577.69	528.52
Seed Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Hired labor Land rent Machinery leases Hauling and trucking Marketing Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	54.03	55.00	52.76	54.27	54.10
	28.89	34.98	29.34	27.13	23.90
	44.43	41.40	46.32	46.53	43.28
	16.24	14.50	16.32	17.01	17.14
	17.64	13.41	16.70	20.54	19.92
	30.15	26.93	28.72	31.66	33.42
	7.43	7.62	7.37	6.67	8.15
	3.69	0.46	0.65	5.66	8.18
	210.88	220.90	208.02	212.41	201.69
	7.36	8.05	9.45	1.41	10.94
	0.32	0.35	0.19	0.53	0.20
	1.91	2.46	2.37	1.11	1.70
	10.54	9.20	9.22	10.09	13.87
	3.81	4.13	3.36	3.95	3.79
	437.31	439.39	430.79	438.98	440.30
	113.67	148.02	77.94	138.71	88.22
Overhead Expenses  Hired labor  Machinery leases  Building leases  Farm insurance  Utilities  Dues & professional fees  Interest  Mach & bldg depreciation  Miscellaneous  Total overhead expenses per acre  Total dir & ovhd expenses per acre  Net return per acre	6.46	8.12	9.65	4.96	2.92
	5.09	2.03	1.13	12.12	4.81
	1.38	1.81	0.92	1.55	1.24
	7.22	7.30	7.55	7.04	6.97
	3.77	3.52	3.98	3.50	4.11
	3.18	2.81	2.44	3.16	4.40
	2.80	2.09	2.51	3.29	3.30
	42.52	45.25	45.48	37.82	41.63
	3.19	3.04	2.85	3.46	3.42
	75.60	75.97	76.51	76.89	72.80
	512.91	515.36	507.30	515.88	513.10
	38.07	72.05	1.43	61.81	15.42
Government payments	7.23	15.33	10.42	0.01	3.24
Net return with govt pmts	45.30	87.38	11.85	61.82	18.66
Labor & management charge	42.11	41.14	41.56	40.76	45.22
Net return over lbr & mgt	3.19	46.23	-29.72	21.07	-26.56
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	8.04	7.14	7.94	8.25	9.10
	9.43	8.37	9.35	9.70	10.61
	8.11	7.95	8.74	7.38	8.45
	8.88	8.62	9.51	8.15	9.38
Net value per unit	8.96	9.42	8.94	8.58	8.83
Machinery cost per acre	106.91	98.90	105.00	107.84	116.38
Est. labor hours per acre	1.75	1.77	1.75	1.66	1.84

# **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 numbers farms reporting for each enterprise, providing more accurate benchmark information. Minnesota State FBM programs are distributed across the state and include over 2,150 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 change from beginning to the end of the year. The cost of livestock purchased, and the value of animals transferred in are deducted.

*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.

Rounding of individual items for the report may have caused minor discrepancies with the calculated totals. If fewer than 5 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.

# Hogs, Farrow To Finish -- Average Per Litter

	Avg All F	ı. Of arms
Number of farms		8
Raised Hogs sold (lb) Cull sales (lb) Government payments Other income Purchased (lb) Inventory change (lb) Gross margin	Quantity 2,297.9 68.9 -21.5 66.4	Value 1,095.15 20.86 33.16 44.80 -45.22 57.10 1,205.85
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Hired labor Livestock leases Operating interest Total direct expenses Return over direct expense	1,049.7 2,651.6 99.1 110.4	165.57 251.12 345.63 11.90 49.40 92.00 9.74 12.04 65.42 82.42 31.92 1,117.17 88.68
Overhead Expenses Hired labor Building leases Farm insurance Utilities Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		21.57 92.35 21.47 23.50 32.68 19.90 211.48 1,328.65 -122.80
Labor & management charge Net return over lbr & mgt		51.56 -174.35
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		67.59 80.38 78.02 81.14
Est. labor hours per unit		3.65
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 Pigs sold per litter Percent substandard hogs Lb. of feed / lb. of gain Feed cost / cwt. of gain Feed cost per litter Hired labor per sow Avg wgt/Raised Hogs sold Avg price / cwt. Average carcass weight Average price / cwt. carcass		293.6 621 2.11 10.37 10.24 9.71 20.25 8.08 2 3.89 32.06 774.22 183.90 285 47.66 209 65.86

# Hogs, Farrow To Finish -- Average Per Cwt. Carcass Sold

Avg. ( All Far	
	8
Quantity 139.01 4.17 -1.30 4.02	Value 66.25 1.26 2.01 2.71 -2.74 3.45 72.95
63.50 160.42 5.99 6.68	10.02 15.19 20.91 0.72 2.99 5.57 0.59 0.73 3.96 4.99 1.93 67.59 5.36
	1.30 5.59 1.30 1.42 1.98 1.20 12.79 80.38 -7.43
	3.12 -10.55
	67.59 80.38 78.02 81.14
	0.22
	293.6 621 2.11 10.37 10.24 9.71 20.25 8.08 2 3.89 32.06 774.22 183.90 285 47.66 209 65.86
	Quantity 139.01 4.17 -1.30 4.02 63.50 160.42 5.99

# Hogs, Finish Feeder Pigs -- Average Per Head

			Low 20	0%	High 20%	
Number of farms			5		5	
Finish Hogs 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 281.2 1.0 1.2 -39.7 -3.9 -2.9	Value 146.23 0.82 0.25 0.23 4.03 3.82 -54.59 -6.86 -0.16 93.76	Quantity 310.7 - - - -47.7 -11.3 -21.9	Value 152.26 - - 0.77 12.83 -52.93 -13.63 1.13 100.42	Quantity 246.4 - 1.8 -31.4 - 15.3	Value 137.10 - 0.35 - 5.35 0.38 -44.20 -9.32 9.19 98.85
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) Other feed stuffs (lb) Veterinary Supplies Contract production exp. Fuel & oil Custom hire Livestock leases Hauling and trucking Marketing Operating interest Total direct expenses Return over direct expense	150.2 113.3 7.5 22.0	22.14 13.91 26.52 1.70 1.24 2.48 5.98 0.61 0.84 0.40 1.83 0.59 1.56 79.83 13.93	58.0 263.6 9.3	6.29 54.10 33.15 - 0.90 2.35 - 1.69 0.13 - 1.62 1.38 6.16 107.78 -7.36	140.4 145.7 6.2 22.5	22.22 11.33 21.97 1.67 1.31 3.59 0.39 1.30 2.01 1.05 0.42 0.51 67.78 31.07
Overhead Expenses  Hired labor Building leases Farm insurance Utilities Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		1.20 4.45 0.91 0.69 2.31 1.90 11.45 91.28 2.48		3.23 5.13 2.11 1.34 5.29 2.02 19.12 126.90 -26.48		0.53 5.32 1.13 1.01 1.14 1.60 10.73 78.51 20.34
Labor & management charge Net return over lbr & mgt		2.79 -0.32		4.13 -30.61		3.23 17.11
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		67.77 73.27 69.45 70.79		74.88 83.16 77.39 79.17		61.27 67.15 64.06 65.83
Est. labor hours per unit  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		0.19  10,988 10,082 4.2 2 1.58 2.96 27.11 64.28 1.62 41 278 56.07 52.00 210		0.34  4,389 4,071 2.9 1 1.70 3.65 40.59 93.54 3.23 50 289 55.54 49.01 217		0.21  10,579 8,869 4.0 6 1.62 2.82 24.63 57.19 1.17 38 277 53.10 55.64 217

2019 Annual Report

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

	Avg. C All Farn		Low 20	9%	High 2	0%
Number of farms	25		5		5	
Finish Hogs sold (lb) Transferred out (lb) Cull sales (lb)	Quantity 135.09 0.46 0.60	Value 70.24 0.40 0.12	Quantity 134.52 -	Value 65.92 -	Quantity 135.19 - 1.01	Value 75.21 - 0.19
Insurance income Government payments Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	-19.07 -1.87 -1.40	0.11 1.93 1.83 -26.23 -3.30 -0.08 45.04	-20.65 -4.88 -9.46	0.33 5.55 -22.92 -5.90 0.49 43.48	-17.23 - 8.39	2.93 0.21 -24.25 -5.11 5.04 54.23
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) Other feed stuffs (lb) Veterinary Supplies Contract production exp. Fuel & oil Custom hire Livestock leases Hauling and trucking Marketing Operating interest Total direct expenses Return over direct expense	72.13 54.41 3.58 10.59	10.64 6.68 12.74 0.82 0.60 1.19 2.87 0.30 0.40 0.19 0.88 0.28 0.75 38.35 6.69	25.12 114.13 4.01	2.72 23.42 14.35 - 0.39 1.02 - 0.73 0.06 - 0.70 0.60 2.67 46.66 -3.19	77.00 79.94 3.38 12.36	12.19 6.21 12.05 0.92 0.72 1.97 0.21 0.72 1.10 0.58 0.23 0.28 37.18 17.04
Overhead Expenses  Hired labor  Building leases  Farm insurance  Mach & bldg depreciation  Miscellaneous  Total overhead expenses  Total dir & ovhd expenses  Net return		0.58 2.14 0.44 1.11 1.24 5.50 43.85 1.19		1.40 2.22 0.91 2.29 1.46 8.28 54.94		0.29 2.92 0.62 0.63 1.43 5.89 43.07
Labor & management charge Net return over lbr & mgt		1.34 -0.15		1.79 -13.25		1.77 9.39
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		67.77 73.27 69.45 70.79		74.88 83.16 77.39 79.17 0.15		61.27 67.15 64.06 65.83
Est. labor hours per unit  Other Information  No. purchased or trans in  Number sold or trans out  Percentage death loss		10,988 10,082 4.2		4,389 4,071 2.9		10,579 8,869 4.0
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.		2 1.58 2.96 27.11 64.28 1.62 41 278 56.07 52.00		1 1.70 3.65 40.59 93.54 3.23 50 289 55.54 49.01		6 1.62 2.82 24.63 57.19 1.17 38 277 53.10 55.64
Average carcass weight Average price / cwt. carcass		210 69.86		217 65.54		217 74.92

2019 Annual Report

# Hogs, Weaning to Finish -- Average Per Head

	Avg. Of All Farms 29		Low 20	0%	High 20%	
Number of farms			5		6	
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 267.5 1.2 1.0 -12.6 -2.7 12.1	Value 134.36 0.77 0.08 0.08 2.83 6.50 -40.38 -8.40 8.08 103.93	Quantity 274.1 - - - -8.3 -8.0 5.4	Value 132.71 - - 2.60 2.17 -27.33 -23.64 5.11 91.61	Quantity 286.6 - - -14.0 - -1.0	Value 151.04 - - 3.22 6.35 -49.69 - 10.14 121.05
Direct Expenses  Corn Distillers Grn (dry) (lb.) Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) DDGS, dry (lb.) Other feed stuffs (lb) Veterinary Supplies Contract production exp. Fuel & oil Repairs Custom hire Hired labor Hauling and trucking Total direct expenses Return over direct expense	2.3 144.8 85.0 6.8 64.9 3.4	0.16 26.58 9.25 23.29 4.51 0.60 3.09 3.26 9.03 1.06 1.67 2.27 2.02 1.43 88.22 15.71	29.8 108.9 100.9 9.2 12.5	2.02 23.21 8.03 32.64 0.85 2.68 2.62 10.03 1.72 2.97 3.04 1.45 3.00 94.28 -2.67	181.2 - 7.8 73.4 2.6	33.97 29.28 5.35 0.39 3.29 1.66 10.55 0.43 0.90 4.13 2.01 0.96 92.92 28.14
Overhead Expenses Hired labor Building leases Farm insurance Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		1.13 3.46 0.96 2.67 2.48 10.70 98.93 5.00		1.75 1.71 2.40 3.38 4.08 13.33 107.60 -16.00		0.03 2.90 0.35 1.59 2.51 7.39 100.30 20.75
Labor & management charge Net return over lbr & mgt		3.64 1.37		2.57 -18.57		2.45 18.30
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		65.17 70.59 65.84 67.68		68.90 75.46 73.13 74.40		62.74 66.24 61.73 62.89
Est. labor hours per unit  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		0.28  20,620 17,624 5.4 2 1.50 2.55 24.16 64.39 3.15 13 271 42.49 50.22 204		9,269 7,842 5.1 2 1.63 2.91 25.36 66.76 3.20 15 281 49.90 48.42 213		0.16  16,150 15,001 2.4 1 1.33 2.56 25.40 68.99 2.04 12 265 42.62 52.69 197

2019 Annual Report

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

	Avg. 0 All Fari		Low 20	0%	High 2	0%
Number of farms	29		5		6	
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 135.37 0.62 0.49 -6.39 -1.38 6.13	Value 67.99 0.39 0.04 0.04 1.43 3.29 -20.43 -4.25 4.09 52.59	Quantity 134.79 - - - -4.09 -3.95 2.67	Value 65.27 - - 1.28 1.07 -13.44 -11.63 2.51 45.05	Quantity 135.81 - - -6.64 - -0.48	Value 71.56 - 1.53 3.01 -23.54 - 4.81 57.36
Direct Expenses Corn Distillers Grn (dry) (lb.) Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) DDGS, dry (lb.) Other feed stuffs (lb) Veterinary Supplies Contract production exp. Fuel & oil Repairs Custom hire Hired labor Hauling and trucking Total direct expenses Return over direct expense	1.18 73.27 43.00 3.45 32.83 1.72	0.08 13.45 4.68 11.78 2.28 0.31 1.56 1.65 4.57 0.54 0.85 1.15 1.02 0.73 44.64 7.95	14.65 53.55 49.65 4.52 6.13	0.99 11.41 3.95 16.05 0.42 - 1.32 1.29 4.93 0.84 1.46 1.50 0.72 1.48 46.37 -1.31	85.86 - 3.70 34.77 1.22	16.09 13.87 2.54 0.18 1.56 0.79 5.00 0.20 0.43 1.96 0.95 0.46 44.03 13.33
Overhead Expenses Hired labor Building leases Farm insurance Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		0.57 1.75 0.49 1.35 1.26 5.42 50.06 2.53		0.86 0.84 1.18 1.66 2.01 6.55 52.92 -7.87		0.02 1.37 0.16 0.76 1.19 3.50 47.53 9.83
Labor & management charge Net return over lbr & mgt		1.84 0.69		1.26 -9.13		1.16 8.67
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 Est. labor hours per unit		65.17 70.59 65.84 67.68		68.90 75.46 73.13 74.40		62.74 66.24 61.73 62.89
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		20,620 17,624 5.4 2 1.50 2.55 24.16 64.39 3.15 13 271 42.49 50.22 204 67.52		9,269 7,842 5.1 2 1.63 2.91 25.36 66.76 3.20 15 281 49.90 48.42 213 64.82		16,150 15,001 2.4 1 1.33 2.56 25.40 68.99 2.04 12 265 42.62 52.69 197 71.16

2019 Annual Report

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

	Avg. O All Farn		Low 20	9%	High 2	0%
Number of farms	41			8		9
Transferred out (lb)	Quantity	Value 23.19	Quantity	Value 7.86	Quantity	Value 38.26
Other income	-	14.75	-	31.07	-	4.28
Gross margin		37.94		38.93		42.54
Direct Expenses						
Supplies		1.12		0.33		1.21
Contract production exp.		0.67		3.49		0.35
Fuel & oil		1.27		1.61		1.89
Repairs		3.86		5.17		2.30
Repair, machinery		0.06		-		0.25
Custom hire		0.90 1.67		2.82 3.43		0.75 2.50
Hired labor Utilities		1.67		3.43 0.91		2.50 1.34
		0.54		0.97		0.31
Operating interest Total direct expenses		11.51		18.72		10.91
Return over direct expense		26.43		20.21		31.64
Overhead Expenses						
Hired labor		0.69		0.69		0.58
Machinery leases		0.05		0.22		0.50
Building leases		0.57		1.10		0.06
RE & pers. property taxes		0.57		1.17		0.34
Farm insurance		1.98		2.63		1.68
Utilities		1.46		2.87		1.16
Dues & professional fees		0.21		0.26		0.15
Interest		4.13		6.55		1.67
Mach & bldg depreciation		7.48		9.56		6.50
Miscellaneous		0.92		0.67		0.74
Total overhead expenses		18.06		25.74		12.88
Total dir & ovhd expenses		29.57		44.46		23.78
Net return		8.37		-5.53		18.76
Labor & management charge		5.51		6.18		6.36
Net return over lbr & mgt		2.85		-11.71		12.40
Cost of Production Per Pig Space						
Total direct expense per unit		11.51		18.72		10.91
Total dir& ovhd expense per unit		29.57		44.46		23.78
Est. labor hours per unit		0.42		0.60		0.35
Other Information						
Number of pigs		7,754		6,448		8,988
Pigs per pig space (per year)		2.35		2.25		2.56
Pigs per 100 sq. ft. (per yr)		31.20		28.80		34.18
Net return per 100 sq. ft.		110.97		-70.71		250.29
Net return per labor hour		19.71		-9.16 -7.00		54.26
Square feet per pig space		7.54		7.82		7.49

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

	Avg. Of           All Farms           69		Low 20%		High 20%	
Number of farms				13		14
Transferred out (lb) Other income Gross margin	Quantity -	Value 20.38 20.06 40.44	Quantity -	Value 16.75 19.27 36.02	Quantity -	Value 30.02 13.70 43.72
Gross margin		40.44		30.02		43.72
Direct Expenses						
Supplies		1.02		1.46		0.79
Contract production exp.		1.73		0.13		1.23
Fuel & oil		1.94		2.27		1.80
Repairs		4.43 0.07		6.89		3.45 0.34
Repair, machinery Custom hire		0.07		0.98		0.34
Repair, buildings		0.73		0.96		0.46
Hired labor		2.03		3.78		2.36
Livestock leases		0.21		5.76		2.50
Utilities		1.65		2.61		1.44
Operating interest		0.42		1.30		0.15
Total direct expenses		14.32		19.42		12.38
Return over direct expense		26.12		16.60		31.34
Overhead Expenses						
Hired labor		0.71		2.21		0.15
Building leases		0.88		3.01		-
RE & pers. property taxes		0.88		1.41		0.58
Farm insurance		2.00		2.51		1.94
Utilities		1.47		1.83		1.29
Dues & professional fees		0.29		0.32		0.08
Interest		5.25		6.39		3.25
Mach & bldg depreciation		8.83		11.06		5.63
Miscellaneous		1.21		2.34		0.46
Total overhead expenses		21.52		31.08		13.37
Total dir & ovhd expenses		35.84		50.50		25.75
Net return		4.60		-14.48		17.97
Labor & management charge		6.70		7.41		7.53
Net return over lbr & mgt		-2.10		-21.88		10.44
Cost of Production Per Pig Space						
Total direct expense per unit		14.32		19.42		12.38
Total dir& ovhd expense per unit		35.84		50.50		25.75
Est. labor hours per unit		0.37		0.45		0.27
Other Information						
Number of pigs		8,141		8,348		7,617
Pigs per pig space (per year)		2.38		2.53		2.34
Pigs per 100 sq. ft. (per yr)		31.91		32.31		31.27
Net return per 100 sq. ft.		61.50		-185.15		240.55
Net return per labor hour		12.41		-31.91		65.44
Square feet per pig space		7.47		7.82		7.47

# Beef Cow-Calf -- Average Per Cow

	Avg. ( All Fari		Low 2	0%	High 2	0%
Number of farms	132		26		27	
Beef Calves sold (lb) Transferred out (lb) Cull sales (lb) Insurance income Other income Purchased (lb) Transferred in (lb)	Quantity 246.0 202.5 81.8 -24.7 -22.3	Value 349.56 294.92 101.38 0.09 7.03 -83.87 -43.21	Quantity 164.7 194.4 84.3 -76.0 -29.6	Value 224.58 241.29 103.03 - 10.77 -124.14 -38.31	Quantity 342.9 166.9 51.3 -45.1 -27.8	Value 464.22 234.81 73.82 0.38 9.00 -135.46 -34.43
Inventory change (lb) Gross margin	37.0	42.29 668.20	41.0	-52.36 364.86	101.3	251.95 864.29
Direct Expenses Protein Vit Minerals (lb.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) Hay (lb.) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Operating interest Total direct expenses Return over direct expense	208.4 4,485.6 1,003.5 2,462.5 4.1 2,481.7 1,749.0	47.88 71.87 50.89 105.63 57.34 94.75 45.22 34.29 45.35 25.70 46.46 20.77 646.16 22.05	200.6 5,199.0 2,149.0 2,844.8 0.8 1,873.2 1,431.2	49.25 82.55 105.72 102.24 12.62 131.15 62.84 40.74 67.71 42.51 72.50 35.73 805.56 -440.71	137.2 3,802.7 848.4 2,330.2 4.0 2,585.5 988.6	42.60 58.69 37.37 94.39 57.82 88.15 36.56 36.80 29.41 22.09 40.03 10.55 554.46 309.83
Overhead Expenses  Hired labor Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return  Labor & management charge		12.45 14.22 14.80 40.10 55.12 27.91 164.60 810.76 -142.55		22.11 31.78 37.11 75.86 131.34 56.71 354.91 1,160.47 -795.62		7.35 10.14 12.99 32.97 37.53 18.24 119.21 673.67 190.62
Net return over lbr & mgt  Cost of Production Per Cwt. Produced Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments		-233.07 123.81 155.34 166.37		-913.92 210.26 302.90 346.71		93.76 113.92 115.98
With labor and management  Est. labor hours per unit		183.72 8.95		377.59 15.70		130.40 8.09
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.		89.1 95.5 3.3 14.8 92.3 85.4 0.75 8.1 3.4 313.0 535 457 473.59 663 142.09		53.1 91.1 4.7 13.0 86.9 75.3 0.67 17.0 4.6 178.3 507 382 546.37 552 136.35		102.0 96.2 1.2 9.3 95.0 89.9 0.75 4.1 4.1 346.3 549 494 415.57 760 135.39

2019 Annual Report

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

	Avg. ( All Fari		Low 20	0%	High 2	0%
Number of farms	132		26		27	
Beef Calves sold (lb) Transferred out (lb) Cull sales (lb) Insurance income Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 47.14 38.80 15.67 -4.73 -4.28 7.09	Value 66.98 56.51 19.42 0.02 1.35 -16.07 -8.28 8.10 128.03	Quantity 42.99 50.74 22.01 -19.84 -7.72 10.69	Value 58.62 62.98 26.89 - 2.81 -32.40 -10.00 -13.67 95.23	Quantity 57.98 28.23 8.67  -7.63 -4.70 17.13	Value 78.50 39.71 12.48 0.06 1.52 -22.91 -5.82 42.61 146.16
Direct Expenses Protein Vit Minerals (lb.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) Hay (lb.) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Operating interest Total direct expenses Return over direct expense	39.94 0.48 859.47 192.28 471.82 0.79 475.51 334.63	9.17 1.77 13.77 9.75 20.24 10.99 18.16 6.90 6.57 8.69 4.92 8.90 3.98 123.81 4.22	52.36 1.81 1,357.02 560.91 742.53 0.20 488.92 371.76	12.85 6.43 21.55 27.59 26.69 3.29 34.23 9.98 10.63 17.67 11.10 18.92 9.33 210.26 -115.03	23.21 0.24 643.06 143.46 394.06 0.67 437.22 166.93	7.20 1.45 9.93 6.32 15.96 9.78 14.91 4.73 6.22 4.97 3.74 6.77 1.78 93.76 52.39
Overhead Expenses  Hired labor Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		2.39 2.73 2.84 7.68 10.56 5.35 31.54 155.34 -27.31		5.77 8.29 9.69 19.80 34.28 14.80 92.64 302.90 -207.67		1.24 1.71 2.20 5.58 6.35 3.09 20.16 113.92 32.23
Labor & management charge Net return over lbr & mgt		17.34 -44.66		30.88 -238.55		14.41 17.82
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		123.81 155.34 166.37 183.72		210.26 302.90 346.71 377.59		93.76 113.92 115.98 130.40
Est. labor hours per unit		1.71		4.10		1.37
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.		89.1 95.5 3.3 14.8 92.3 85.4 0.75 8.1 3.4 313.0 535 457 473.59 663 142.09		53.1 91.1 4.7 13.0 86.9 75.3 0.67 17.0 4.6 178.3 507 382 546.37 552 136.35		102.0 96.2 1.2 9.3 95.0 89.9 0.75 4.1 4.1 346.3 549 494 415.57 760 135.39

# Beef Finishing -- Average Per Head

	Avg. Of All Farms 71		Low 2	20%	High 20%	
Number of farms			14		15	
Finish Beef sold (lb) Transferred out (lb) Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 1,403.6 8.9 -666.6 -60.7 9.7	Value 1,648.21 11.26 15.14 -994.20 -89.03 17.68 609.06	Quantity 1,459.9 23.3 -571.7 -79.5 -43.2	Value 1,581.78 26.49 18.74 -805.42 -130.26 -50.82 640.52	Quantity 1,179.3 31.1 -306.6 -265.4 135.8	Value 1,344.62 40.23 56.73 -368.53 -338.56 198.01 932.52
Direct Expenses Protein Vit Minerals (lb.) Corn (bu.) Corn Silage (lb.) Corn, Ear (lb.) Hay, Alfalfa (lb.) Haylage, Alfalfa (lb.) DDGS, dry (lb.) DDGS, wet (lb.) Other feed stuffs (lb) Supplies Fuel & oil Repairs Operating interest Total direct expense Return over direct expense	507.8 51.2 2,074.8 459.2 298.6 172.6 670.1 821.7 863.4	54.54 170.57 33.72 13.94 17.55 6.24 25.76 30.68 39.14 60.86 12.83 24.88 22.84 513.55 95.51	899.8 52.8 4,473.5 1,911.8 944.3 1,237.2 - 819.3 359.7	109.62 166.52 67.72 33.46 57.86 41.49 27.86 19.07 55.55 30.10 56.82 38.24 704.32 -63.80	263.2 66.6 3,991.7 176.0 591.1 111.0 549.6 964.7	62.64 212.64 64.48 6.16 24.00 9.36 17.97 46.17 49.61 9.94 12.45 19.44 534.85 397.67
Overhead Expenses Hired labor Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return Labor & management charge		9.34 10.36 6.78 11.48 34.79 12.39 85.14 598.69 10.37		27.56 17.94 25.98 18.14 124.03 34.80 248.44 952.76 -312.24		3.73 3.90 4.19 3.61 16.65 4.92 37.01 571.86 360.66
Net return over lbr & mgt  Cost of Production Per Cwt. Produced Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management		-27.18 110.85 116.88 116.75 119.41		-368.68 112.74 129.49 129.49 133.29		339.10 81.72 84.78 84.62 86.40
Est. labor hours per unit		2.34		5.63		1.96
Other Information  No. purchased or trans in  Number sold or trans out  Percentage death loss  Avg. daily gain (lb.)  Lb. of conc / lb. of gain  Lb. of feed / lb. of gain  Feed cost per cwt. of gain  Feed cost per head  Hired labor per head  Average purchase weight  Avg wgt / Finish Beef sold  Avg purch price / cwt.  Avg sales price / cwt.		305 295 1.3 2.71 8.01 9.96 55.59 392.13 15.24 711 1,384 149.14 117.42		110 115 1.0 2.49 8.21 12.37 65.02 523.60 42.61 638 1,360 140.87 108.35		102 92 1.9 2.64 6.11 9.16 54.88 443.42 4.40 733 1,332 120.18 114.02

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

	Avg. ( All Far		Low 2	0%	High 2	20%
Number of farms		71		14		15
Finish Beef sold (lb) Transferred out (lb) Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 198.98 1.26 -94.50 -8.60 1.38	Value 233.66 1.60 2.15 -140.94 -12.62 2.51 86.34	Quantity 181.28 2.89 -71.00 -9.87 -5.36	Value 196.42 3.29 2.33 -100.01 -16.17 -6.31 79.54	Quantity 145.97 3.85 -37.95 -32.85 16.81	Value 166.43 4.98 7.02 -45.61 -41.90 24.51 115.42
Direct Expenses Protein Vit Minerals (lb.) Corn (bu.) Corn Silage (lb.) Corn, Ear (lb.) Hay, Alfalfa (lb.) Hay, Alfalfa (lb.) DDGS, dry (lb.) DDGS, wet (lb.) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Operating interest Total direct expenses Return over direct expense	71.98 7.25 294.13 65.10 42.33 24.47 94.99 116.49 122.40	7.73 24.18 4.78 1.98 2.49 0.88 3.65 4.35 5.55 2.30 6.33 1.82 3.53 3.24 72.80 13.54	111.73 6.56 555.50 237.39 117.26 153.63 - 101.74 44.67	13.61 20.68 8.41 4.15 7.19 5.15 - 3.46 2.37 1.90 5.00 3.74 7.06 4.75 87.46 -7.92	32.58 8.24 494.08 21.79 73.16 13.73 68.03 119.41	7.75 26.32 7.98 0.76 2.97 1.16 2.22 5.71 1.22 4.93 1.23 1.54 2.41 66.20 49.22
Overhead Expenses  Hired labor Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		1.32 0.96 1.63 4.93 3.22 12.07 84.87 1.47		3.42 3.23 2.25 15.40 6.55 30.85 118.31 -38.77		0.46 0.52 0.45 2.06 1.09 4.58 70.78 44.64
Labor & management charge Net return over lbr & mgt		5.32 -3.85		7.01 -45.78		2.67 41.97
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		110.85 116.88 116.75 119.41		112.74 129.49 129.49 133.29		81.72 84.78 84.62 86.40
Est. labor hours per unit		0.33		0.70		0.24
Other Information No. purchased or trans in Number sold or trans out Percentage death loss Avg. daily gain (lb.) Lb. of conc / lb. of gain Lb. of feed / lb. of gain Feed cost per cwt. of gain Feed cost per head Hired labor per head Average purchase weight Avg wgt / Finish Beef sold Avg purch price / cwt. Avg sales price / cwt.		305 295 1.3 2.71 8.01 9.96 55.59 392.13 15.24 711 1,384 149.14 117.42		110 115 1.0 2.49 8.21 12.37 65.02 523.60 42.61 638 1,360 140.87 108.35		102 92 1.9 2.64 6.11 9.16 54.88 443.42 4.40 733 1,332 120.18 114.02

# Dairy -- Average Per Cow

	Avg. All Fa		Low 2	20%	High	20%
Number of farms		280		56		56
Milk sold (hd) Dairy Calves sold (hd) Transferred out (hd) Cull sales (hd) Insurance income Government payments Other income Purchased (hd) Transferred in (hd) Inventory change (hd) Dairy repl net cost Gross margin	Quantity 24,267.0 0.3 0.7 0.3 0.0 0.0 0.4 0.0	Value 4,523.75 44.24 38.36 200.16 11.18 97.79 31.75 -43.73 -62.30 37.88 -637.10 4,241.96	Quantity 21,000.9 0.3 0.6 0.3	Value 3,776.69 85.10 21.56 210.65 9.50 105.73 30.10 -37.94 -47.61 -130.39 -690.65 3,332.74	Quantity 26,640.5 0.4 0.6 0.3	Value 5,075.95 48.30 38.58 216.34 11.16 100.96 33.63 -7.59 -86.44 33.90 -559.09 4,905.71
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Haylage, Alfalfa (lb.) Other feed stuffs (lb) Breeding fees Veterinary Supplies Fuel & oil Repairs Custom hire Hired labor Hauling and trucking Bedding Miscellaneous Total direct expenses Return over direct expense	3,569.7 1,538.4 69.9 18,921.8 2,766.8 3,252.8 2,053.8	723.43 338.04 244.62 312.78 186.41 117.56 87.91 46.80 106.41 122.94 81.19 147.52 64.43 324.37 96.02 78.21 146.94 3,225.59 1,016.37	2,005.4 1,882.3 69.1 17,837.1 3,343.5 2,925.8 1,521.4	440.12 433.34 234.66 314.32 246.79 108.49 98.29 40.43 95.13 127.78 80.13 164.85 48.42 278.06 97.58 78.11 190.68 3,077.18 255.56	3,130.5 1,959.8 62.3 19,952.8 2,411.4 3,222.5 2,334.9	695.60 445.08 214.99 326.62 152.65 111.58 91.94 50.10 120.26 115.65 87.79 158.59 85.85 396.70 114.27 74.87 144.95 3,387.48 1,518.23
Overhead Expenses  Hired labor Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		115.64 64.28 100.21 186.98 145.58 612.69 3,838.28 403.68		124.89 53.19 116.82 195.39 160.38 650.67 3,727.84 -395.11		87.25 64.94 54.96 207.78 141.98 556.90 3,944.38 961.33
Labor & management charge Net return over lbr & mgt		170.17 233.51		194.88 -589.99		180.76 780.57
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 Est. labor hours per unit		13.21 15.72 16.95 17.65		14.58 17.66 19.82 20.74 38.65		12.66 14.74 15.43 16.11
Other Information Number of cows Milk produced per cow Lb. of milk sold per FTE Culling percentage Turnover rate Cow death loss percent 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		236.3 24,414 1,805,389 30.6 37.2 6.3 24 8.24 2,010.76 440.00 18.64 10.41		151.5 21,110 1,521,442 31.7 40.2 8.0 18 8.89 1,876.01 402.95 17.98 9.10		280.4 26,760 1,859,694 31.3 36.4 4.9 27 7.62 2,038.46 483.94 19.05 11.44
2019 Annual Report		10.71		5.10	RankEm © Universi	

# Dairy -- Average Per Cwt. Of Milk

	Avg. C All Farn		Low 20	0%	High	20%
Number of farms	2	80		56		56
Milk sold (hd) Dairy Calves sold (hd) Transferred out (hd) Cull sales (hd) Insurance income Government payments Other income Purchased (hd) Transferred in (hd) Inventory change (hd) Dairy repl net cost Gross margin	Quantity 99.40 0.00 0.00 0.00 0.00	Value 18.53 0.18 0.16 0.82 0.05 0.40 0.13 -0.18 -0.26 0.16 -2.61	Quantity 99.48 0.00 0.00 0.00 0.00	Value 17.89 0.40 0.10 1.00 0.04 0.50 0.14 -0.18 -0.23 -0.62 -3.27 15.79	Quantity 99.55 0.00 0.00 0.00 0.00 0.00 0.00	Value 18.97 0.18 0.14 0.81 0.04 0.38 0.13 -0.03 -0.32 0.13 -2.09 18.33
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Haylage, Alfalfa (lb.) Other feed stuffs (lb) Breeding fees Veterinary Supplies Fuel & oil Repairs Custom hire Hired labor Hauling and trucking Bedding Miscellaneous Total direct expenses Return over direct expense	14.62 6.30 0.29 77.51 11.33 13.32 8.41	2.96 1.38 1.00 1.28 0.76 0.48 0.36 0.19 0.44 0.50 0.33 0.60 0.26 1.33 0.39 0.32 0.60 13.21 4.16	9.50 8.92 0.33 84.49 15.84 13.86 7.21	2.08 2.05 1.11 1.49 1.17 0.51 0.47 0.19 0.45 0.61 0.38 0.78 0.23 1.32 0.46 0.37 0.90 14.58 1.21	11.70 7.32 0.23 74.56 9.01 12.04 8.73	2.60 1.66 0.80 1.22 0.57 0.42 0.34 0.19 0.45 0.43 0.33 0.59 0.32 1.48 0.43 0.28 0.54 12.66 5.67
Overhead Expenses  Hired labor Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		0.47 0.41 0.77 0.86 2.51 15.72 1.65		0.59 0.55 0.93 1.01 3.08 17.66 -1.87		0.33 0.21 0.78 0.77 2.08 14.74 3.59
Labor & management charge Net return over lbr & mgt		0.70 0.96		0.92 -2.79		0.68 2.92
Cost of Production Per Cwt. Of Milk Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management		13.21 15.72 16.95 17.65		14.58 17.66 19.82 20.74		12.66 14.74 15.43 16.11
Est. labor hours per unit  Other Information  Number of cows  Milk produced per cow  Lb. of milk sold per FTE  Culling percentage  Turnover rate  Cow death loss percent  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		236.3 24,414 1,805,389 30.6 37.2 6.3 24 8.24 2,010.76 440.00 18.64 10.41		0.18 151.5 21,110 1,521,442 31.7 40.2 8.0 18 8.89 1,876.01 402.95 17.98 9.10		280.4 26,760 1,859,694 31.3 36.4 4.9 27 7.62 2,038.46 483.94 19.05 11.44

# Dairy Replacement Heifers -- Average Per Head

	Avg. ( All Fari		Low 20	0%	High 2	20%
Number of farms	2	273		54		55
Replacements sold (hd) Transferred out (hd) Cull sales (hd) Other income Purchased (hd) Transferred in (hd) Inventory change (hd) Gross margin	Quantity 0.1 0.4 0.0 0.0 0.0 0.0 0.6 0.0	Value 32.99 539.56 5.03 0.69 -6.62 -104.02 2.34 469.96	Quantity 0.3 0.4 0.0 0.0 0.7 -0.1	Value 30.12 335.64 10.38 0.84 -5.17 -103.00 -78.70 190.11	Quantity 0.1 0.4 0.0 0.0 0.0 0.5 0.0	Value 56.05 708.01 0.96 0.07 -12.61 -95.84 42.20 698.83
Direct Expenses Protein Vit Minerals (lb.) Milk Replacer (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Haylage, Alfalfa (lb.) Hay, Mixed, Organic (lb.) Other feed stuffs (lb) Breeding fees Veterinary Supplies Contract production exp. Repairs Hired labor Bedding Total direct expenses Return over direct expense	399.7 16.9 328.3 5.8 4,812.2 1,046.4 606.4 719.6 48.9 1,249.4	83.09 21.58 62.89 19.37 77.27 68.51 27.06 24.94 3.03 52.84 16.88 19.22 36.52 98.73 24.73 37.61 18.88 693.17 -223.21	791.7 7.6 323.1 6.2 4,941.0 1,253.4 701.1 623.9 331.3 2,744.6	151.84 12.48 54.92 21.02 78.32 79.76 34.18 23.77 21.14 128.71 20.01 15.53 41.50 104.70 27.97 31.08 19.55 866.48 -676.37	184.0 23.6 238.9 3.6 4,425.5 709.7 567.2 316.2 21.2 922.7	45.21 30.00 55.80 12.75 71.73 43.14 26.45 7.62 1.02 30.90 18.16 18.28 34.10 167.80 25.56 29.65 15.66 633.85 64.98
Overhead Expenses Hired labor Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		21.98 17.17 32.32 34.89 106.36 799.53 -329.57		30.77 18.04 33.41 37.34 119.56 986.04 -795.93		18.28 17.04 26.08 32.21 93.60 727.45 -28.62
Labor & management charge Net return over lbr & mgt		31.36 -360.93		38.09 -834.02		26.87 -55.50
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		2.18 2.47 2.47 2.56		2.86 3.18 3.18 3.29		1.92 2.17 2.17 2.25
Est. labor hours per unit		6.02		5.52		6.19
Other Information No. purchased or trans in Number sold or trans out Average number of head Percentage death loss Feed cost per average head Hired labor per average head Feed cost/head sold/trans Total cost/head sold/trans Feed cost per head per day Avg. purchase weight Avg. purch price / head Avg. wgt / Replacements sold Avg. sales price / head		121 110 205 3.8 440.60 59.59 823.50 1,744.73 1.21 29 505.77 23 346.30		91 94 136 4.9 606.14 61.85 877.78 1,737.45 1.66		148 132 262 3.4 324.63 47.93 645.67 1,630.06 0.89 39 333.36 128 877.40

# Dairy and Repl Heifers -- Average Per Cow

	Avg. All Fa		Low 2	20%	High	20%
Number of farms		230		46	-	46
Milk sold (hd) Dairy Calves sold (hd) Transferred out (hd) Cull sales (hd) Insurance income Government payments Other income Purchased (hd) Transferred in (hd) Inventory change (hd) Gross margin	Quantity 24,598.1 - - - -	Value 4,580.61 52.86 22.20 206.04 10.45 95.91 34.76 -48.85 -5.13 63.64 5,012.50	Quantity 21,003.1 - - - -	Value 3,804.79 41.73 18.81 235.08 8.71 106.39 35.68 -21.07 -8.27 -96.33 4,125.53	Quantity 27,076.4 - - - -	Value 5,125.44 60.13 11.24 221.21 9.60 96.55 37.70 -8.73 -1.55 47.88 5,599.47
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Haylage, Alfalfa (lb.) Other feed stuffs (lb) Breeding fees Veterinary Supplies Contract production exp. Fuel & oil Repairs Hired labor Hauling and trucking Bedding Miscellaneous Total direct expenses Return over direct expense	4,535.7 1,962.0 75.7 23,331.3 3,770.9 3,497.6 3,340.3	781.91 430.40 265.77 385.95 252.05 125.11 156.16 63.56 123.74 133.01 124.60 92.37 166.47 382.34 98.94 98.15 223.74 3,904.26 1,108.24	5,214.0 2,144.5 78.0 22,689.2 5,047.4 3,481.1 2,474.1	480.00 507.37 266.31 398.64 347.95 128.18 139.97 53.19 110.50 138.37 96.50 95.17 194.85 283.47 93.83 105.14 257.17 3,696.61 428.91	3,616.4 2,620.1 61.2 22,820.1 3,342.2 3,521.6 3,311.3	710.09 603.51 213.81 374.62 222.96 119.54 139.77 66.55 136.00 124.09 132.86 101.27 177.41 455.96 118.24 89.87 245.81 4,032.37 1,567.11
Overhead Expenses  Hired labor Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		115.75 115.21 214.77 235.14 680.87 4,585.13 427.37		161.15 138.93 209.61 241.74 751.43 4,448.04 -322.51		71.22 53.60 235.97 219.79 580.58 4,612.94 986.53
Labor & management charge Net return over lbr & mgt		186.75 240.62		215.42 -537.93		197.86 788.66
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 Est. labor hours per unit		15.77 18.52 16.85 17.61 43.91		17.49 21.05 19.60 20.62 45.40		14.82 16.95 15.27 16.00 44.93
Other Information Number of cows Milk produced per cow Lb. of milk sold per FTE Culling percentage Turnover rate Cow death loss percent 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		251.2 24,755 1,568,712 30.5 37.1 6.3 25 9.68 2,397.34 498.09 18.62 8.94		158.3 21,134 1,295,440 32.7 41.3 8.0 17 10.73 2,268.42 444.62 18.12 7.38		278.8 27,212 1,687,262 31.2 35.9 4.5 27 8.76 2,384.31 527.18 18.93 10.17

2019 Annual Report

# Dairy Finishing -- Average Per Head

	Avg. All Far		Low 2	20%	High 2	20%
Number of farms		93		18	_	19
Dairy Finish sold (lb) Transferred out (lb) Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 1,401.1 - -393.4 -26.5 -0.5	Value 1,341.53 1.00 13.78 -419.96 -32.34 28.94 932.94	Quantity 1,682.5 - -402.7 -24.3 -253.3	Value 1,609.62 8.07 25.99 -354.83 -30.41 -306.20 952.24	Quantity 1,553.4 - -282.3 -65.8 -169.6	Value 1,500.04 - 8.81 -272.50 -74.86 -81.65 1,079.84
Direct Expenses Protein Vit Minerals (lb.) Milk Replacer (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) DDGS, wet (lb.) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Bedding Operating interest Total direct expenses Return over direct expense	814.8 5.5 191.2 104.9 1,883.8 717.9 1,036.9	146.68 7.20 23.94 354.07 37.16 21.02 55.04 20.22 56.75 15.11 23.74 13.59 30.58 805.12 127.82	1,726.7 26.7 395.1 127.4 1,995.3 407.9 1,331.2	224.48 38.32 36.58 428.75 29.93 23.25 65.14 29.15 55.05 22.73 46.04 29.81 45.12 1,074.35 -122.10	468.3 0.3 17.1 82.7 2,335.5 665.3 568.5	95.01 0.50 3.90 275.91 73.00 24.17 38.75 8.21 48.93 8.25 19.22 10.14 12.01 618.00 461.84
Overhead Expenses  Hired labor Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		13.19 10.71 10.03 15.07 39.71 12.54 101.26 906.38 26.56		26.68 16.76 16.10 17.80 73.72 35.04 186.10 1,260.45 -308.20		22.49 8.41 11.85 10.28 16.34 10.09 79.47 697.47 382.37
Labor & management charge Net return over lbr & mgt		49.96 -23.40		57.45 -365.65		31.01 351.35
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		87.06 94.28 93.92 97.49		103.40 114.47 114.47 117.88		66.84 71.95 71.95 73.95
Est. labor hours per unit		4.36		6.14		3.38
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 sales price / cwt.		222 197 3.2 2.35 7.91 9.26 65.17 645.11 22.35 448 1,415 477.85 95.75		150 147 5.7 1.97 9.83 11.18 82.04 846.46 36.52 401 1,473 353.50 95.67		159 156 2.5 2.54 5.62 6.83 49.00 511.23 23.03 488 1,427 470.72 96.57

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

	Avg. 0 All Fari	Of ms	Low 2	0%	High 2	0%
Number of farms		93		18		19
Dairy Finish sold (lb) Transferred out (lb) Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 141.53 - -39.74 -2.68 -0.05	Value 135.52 0.10 1.39 -42.42 -3.27 2.92 94.24	Quantity 163.08 - -39.03 -2.36 -24.55	Value 156.01 0.78 2.52 -34.39 -2.95 -29.68 92.30	Quantity 148.87 - -27.06 -6.30 -16.26	Value 143.76 - 0.84 -26.12 -7.17 -7.82 103.49
Direct Expenses Protein Vit Minerals (lb.) Milk Replacer (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) DDGS, wet (lb.) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Bedding Operating interest Total direct expenses Return over direct expense	82.31 0.56 19.32 10.60 190.30 72.52 104.74	14.82 0.73 2.42 35.77 3.75 2.12 5.56 2.04 5.73 1.53 2.40 1.37 3.09 81.33 12.91	167.35 2.58 38.29 12.35 193.40 39.54 129.03	21.76 3.71 3.55 41.56 2.90 2.25 6.31 2.83 5.34 2.20 4.46 2.89 4.37 104.13 -11.83	44.88 0.03 1.63 7.93 223.84 63.76 54.48	9.11 0.05 0.37 26.44 7.00 2.32 3.71 0.79 4.69 0.79 1.84 0.97 1.15 59.23 44.26
Overhead Expenses Hired labor Farm insurance Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		1.33 1.08 1.52 4.01 2.28 10.23 91.56 2.68		2.59 1.62 1.73 7.15 4.96 18.04 122.17 -29.87		2.16 0.81 0.99 1.57 2.10 7.62 66.85 36.65
Labor & management charge Net return over lbr & mgt		5.05 -2.36		5.57 -35.44		2.97 33.67
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		87.06 94.28 93.92 97.49		103.40 114.47 114.47 117.88		66.84 71.95 71.95 73.95
Est. labor hours per unit		0.44		0.59		0.32
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.		222 197 3.2 2.35 7.91 9.26 65.17 645.11 22.35 448 1,415 477.85 95.75		150 147 5.7 1.97 9.83 11.18 82.04 846.46 36.52 401 1,473 353.50 95.67		159 156 2.5 2.54 5.62 6.83 49.00 511.23 23.03 488 1,427 470.72 96.57

# Sheep, Market Lamb Prod -- Average Per Ewe

	Avg. ( All Far	
Number of farms		5
Lambs sold (lb) Mkt Lambs sold (lb) Transferred out (lb) Cull sales (lb) Purchased (lb) Inventory change (lb) Gross margin	Quantity 14.3 196.5 1.1 11.9 -6.0 -8.9	Value 10.26 305.89 2.76 12.99 -21.61 -5.80 304.49
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Hay (lb.) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Hired labor Operating interest Miscellaneous Total direct expenses Return over direct expense	376.0 99.9 10.8 453.7 420.6 424.6 44.6 7.7	46.92 12.45 38.56 6.64 30.56 24.13 2.34 5.79 11.36 14.77 8.55 11.61 23.08 2.75 24.84 264.34 40.15
Overhead Expenses Utilities Dues & professional fees Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		5.95 5.60 18.66 15.87 46.08 310.42 -5.93
Labor & management charge Net return over lbr & mgt		66.90 -72.83
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		135.79 159.46 166.97 201.34
Est. labor hours per unit		5.77
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.		295.8 97.6 1.2 18.66 1.74 1.81 1.61 1.46 11.8 6.5 485.3 47 76 167.39 137 155.63

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

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

	Avg. Of All Farms		
Number of farms		5	
Lambs sold (lb) Mkt Lambs sold (lb) Transferred out (lb) Cull sales (lb) Purchased (lb) Inventory change (lb) Gross margin	Quantity 7.34 100.96 0.56 6.12 -3.08 -4.56	Value 5.27 157.13 1.42 6.67 -11.10 -2.98 156.42	
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Hay (lb.) Other feed stuffs (lb) Veterinary Supplies Repairs Hired labor Operating interest Miscellaneous Total direct expenses Return over direct expense	193.15 51.30 5.56 233.05 216.03 218.12 22.92 3.96	24.10 6.39 19.81 3.41 15.70 12.39 1.20 2.98 5.84 7.59 5.96 11.86 1.41 17.15 135.79 20.63	
Overhead Expenses Utilities Dues & professional fees Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		3.06 2.88 9.58 8.15 23.67 159.46 -3.05	
Labor & management charge Net return over lbr & mgt		34.37 -37.41	
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		135.79 159.46 166.97 201.34	
Est. labor hours per unit		2.96	
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.		295.8 97.6 1.2 18.66 1.74 1.81 1.61 1.46 11.8 6.5 485.3 47 76 167.39 137 155.63	

# **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
<b>Year</b>	<u>1982-84=100</u>	<u>Year</u>	<u>1982-84=100</u>
1999	166.6	2010	218.1
2000	172.2	2011	224.9
2001	177.1	2012	229.6
2002	179.9	2013	233.0
2003	184.0	2014	236.7
2004	188.9	2015	237.0
2005	195.3	2016	240.0
2006	201.6	2017	245.1
2007	207.3	2018	251.1
2008	215.3	2019	255.7
2009	214.5		

#### 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	2000	2001	2002	2003	2004	2005	2006	2007	2008
1 Nu	umber of Farms	212	207	188	175	125	107	110	107	99
Ea	arm Income Statement									
2	Gross Cash Farm Income	422,897	433,698	428,084	504,022	496,771	579,201	609,886	731,897	876,375
3	Total Cash Farm Expense	348,711	358,506	352,995	400,605	404,743	477,476	494,409	592,841	720,364
4	Inventory Change	25,296	-17,297	19,571	18,977	31,076	74,307	66,397	135,843	70,051
5	Depr. & Cap. Adj.	-17,731	-21,280	-24,654	-25,990	-24,741	-28,170	-27,176	-32,631	-39,437
6	Net Farm Income from Operations	81,750	36,614	70,007	96,404	98,362	147,862	154,698	242,267	186,625
7	Gain or Loss on Capital Sales	0	0	0	0	0	0	0	0	4,276
8	Net Farm Income	81,750	36,614	70,007	96,404	98,362	147,862	154,698	242,267	190,901
9 Ne	et Farm Income (Constant \$)	125,471	54,368	101,077	137,023	136,691	200,150	202,541	307,280	235,472
Pr	rofitability*									
10	Rate of Return on Assets (%)	12	6	9	11	11	14	13	17	11
11	Rate of Return on Equity (%)	19	4	11	16	16	21	19	25	15
12	Operating Profit Margin (%)	27	14	20	24	23	28	28	35	26
13	Asset Turnover Rate (%)	45	39	44	44	46	51	48	50	43
13	Value of Farm Production	313,232	282,583	345,743	379,505	378,450	478,073	512,081	648,768	658,576
15	Farm Interest Paid	27,002	27,203	26,739	25,262	21,824	22,210	27,677	30,714	30,232
10	r ann morest r aid	27,002	21,200	20,700	20,202	21,024	22,210	27,077	00,714	00,202
	quidity, Repayment and Efficiency	4.7	4.5	4.0	4.7	4.0	0.4	0.0	2.5	0.0
16	Current Ratio	1.7	1.5	1.6	1.7	1.9	2.1	2.2	2.5	2.6
17	Working Capital	112,896	83,500	117,135	143,632	155,804	218,745	268,567	393,911	446,350
18	Working Capital to Gross Revenue (%)	25	20	25	28	30	34	40	46	49
19	Term Debt Coverage Ratio	2.3	1.0	1.6	2.2	2.1	3.0	3.1	4.1	2.9
20	Operating Expense Ratio (%)	71.4	79.5	73.6	71.5	72.1	69.2	68.7	64.1	71.6
21	Interest Expense Ratio (%)	6.2	6.6	5.8	4.8	4.2	3.5	4.3	3.7	3.3
Sc	olvency (Year-end, Sole Proprietors Only)*									
22	No. of Sole Proprietors	181	178	161	149	109	91	93	91	85
23	Total Assets	1,150,838	1,158,071	1,277,823	1,407,919	1,286,775	1,487,232	1,694,428	2,034,365	2,208,883
24	Total Liabilities	545,689	539,918	578,253	619,279	554,962	618,105	698,239	810,184	837,830
25	Net Worth	605,149	618,197	699,570	788,640	731,813	869,127	996,189	1,224,181	1,371,053
26	Debt to Asset Ratio (%)	47	47	45	44	43	42	41	40	38
Ac	creage Information									
27	Total Acres Owned	250	252	265	263	236	241	243	241	249
	Total Crop Acres Farmed	730	759	784	794	766	792	797	825	822
28 29	Crop Acres Owned	730 214	759 214	764 226	239	193	199	197	208	222
	Crop Acres Owned Crop Acres Cash Rented	445	468	490	489	494	532	526	546	536
30 31	Crop Acres Cash Rented Crop Acres Share Rented	70	468 77	490 68	489 67	494 79	532 61	526 74	546 71	64
	•									
	rop Yields									.=-
32	Corn per acre (bu.)	150	128	151	157	171	192	169	162	172
33	Soybeans per acre (bu.)	46	42	49	39	41	55	51	49	44
Cr	rop Prices Received (cash sales)									
34	Corn per Bushel	1.68	1.72	1.95	2.07	2.28	1.89	2.04	3.00	4.51
35	Soybeans per Bushel	4.57	4.32	4.57	5.73	7.17	5.88	5.57	7.14	10.83
Но	ousehold Information									
36	No. Farms Reporting HseHld Info	120	124	108	102	73	67	66	60	62
37	Average Family Size	3.5	3.5	3.6	3.4	3.4	3.4	3.3	3.1	3.0
38	Family living expense	38,932	39,793	41,882	43,383	48,371	50,608	51,569	56,229	59,939
39	Total Family Use of Cash	62,349	63,980	51,826	68,470	68,029	74,513	82,670	98,388	100,933
00	. S.a. I diffiny Goo of Gaoif	02,040								
40 Ne	et Nonfarm Income	21,436	20,082	20,846	22,480	23,733	24,774	31,059	25,164	28,456

<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)

			,	-	· ·	-,					
2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Row
95	97	107	110	117	109	103	103	104	101	106	1
	0.				.00	.00	.00				
878,404	970,471	1,150,686	1,332,519	1,285,081	1,086,085	997,581	918,546	941,931	865,101	946,154	2
743,487	781,053	898,752	1,057,018	1,029,631	856,705	798,226	748,909	783,231	703,195	783,687	3
-21,159	178,977	136,582	157,209	-53,364	-49,479	-68,430	-8,515	-7,784	-25,846	52,089	4
-43,972	-48,085	-55,244	-66,085	-69,322	-70,801	-73,028	-71,987	-74,624	-68,737	-71,520	5
69,787	320,310	333,272	366,624	132,764	109,100	57,897	89,135	76,292	67,324	143,035	6
0	1,855	3,015	10,447	4,404	9,296	1,944	-418	8,475	4,732	1,969	7
69,787	322,165	336,287	377,071	137,168	118,396	59,841	88,717	84,767	72,056	145,004	8
82,882	384,045	394,262	428,711	152,761	129,931	64,644	95,717	88,433	73,376	145,004	9
3	17	16	14	4	3	1	3	2	2	5	10
2	24	21	19	4	3	0	2	1	0	5	11
9	36	35	30	11	10	4	8	7	6	16	12
37	47	46	46	34	34	31	31	30	29	31	13
608,181	819,691	871,265	1,052,663	819,449	790,270	729,443	738,186	735,601	716,296	772,867	14
29,727	34,124	28,447	27,141	27,405	26,239	27,225	30,723	35,049	37,490	43,563	15
2.3	2.9	3.3	3.1	2.7	2.6	2.2	1.9	1.8	1.9	2.1	16
404,104	568,438	659,446	771,719	646,719	562,147	455,840	395,033	367,795	364,975	419,247	17
45	50	52	52	52	54	49	42	39	42	42	18
1.1	5.2	5.6	4.6	1.8	1.4	0.9	1.4	1.3	1.3	2.3	19
83.6	64.8	66.9	69.1	81.4	80.0	83.0	79.0	80.1	80.1	74.0	20
3.3	3.0	2.3	1,8	2.2	2.6	3.0	3.0	3.8	4.3	4.4	21
			·								
80	80	87	85	89	84	81	81	83	80	85	22
2,376,886	2,719,826	2,922,324	3,515,081	3,667,344	3,670,892	3,953,187	3,994,222	4,126,516	4,140,478	4,275,004	23
892,734	987,753	1,068,183	1,057,882	1,271,925	1,241,969	1,283,940	1,297,771	1,329,095	1,313,213	1,306,029	24
1,484,151	1,732,074	1,854,181	2,288,721	2,395,419	2,428,924	2,669,246	2,696,451	2,797,420	2,827,265	2,968,975	25
38	36	37	35	35	34	32	32	32	32	31	26
250	240	232	216	211	208	210	210	226	240	235	27
831	831	791	886	845	902	940	939	940	947	940	28
224	221	202	205	203	208	226	236	233	233	233	29
555	550	532	617	592	626	661	651	661	665	659	30
52	61	57	63	50	67	53	53	46	48	48	31
185	184	173	162	175	167	204	207	204	175	164	32
49	51	46	47	52	48	58	62	55	53	49	33
49	51	40	47	52	40	50	02	55	55	49	33
3.83	3.67	5.29	6.27	6.48	4.35	3.63	3.38	3.17	3.27	3.58	34
10.15	9.72	11.58	13.07	13.97	12.73	10.12	8.92	9.23	9.20	8.46	35
	52	11.00	10.01	10.01	.2	.02	0.02	0.20	0.20	0.10	00
52	46	43	42	32	41	32	44	45	34	39	36
3.3	3.0	3.0	2.9	3.0	2.8	3.1	3.0	2.6	2.6	2.9	37
62,182	63,848	73,704	73,904	72,592	73,073	64,621	73,384	69,964	72,096	66,585	38
123,590	108,468	119,913	135,406	159,539	140,853	158,913	125,223	116,348	110,123	99,802	39
29,369	29,543	35,042	30,841	35,723	42,073	36,083	39,590	38,552	41,141	47,034	40

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

	Avg. Of All Farms	Less than 100,000	100,001 - 250,000	250,001 - 500,000	500,001 - 1,000,000	1,000,001- 2,000,000	Over 2,000,000
Number of farms	106	9	11	23	42	14	7
Income Statement Gross cash farm income	946,154	76,625	193,976	381,956	706,796	1,321,914	5,784,525
Total cash farm expense Net cash farm income	783,687 162,466	70,121 6,504	130,135 63,841	252,394 129,562	505,467 201,329	1,089,597 232,317	5,531,320 253,205
Inventory change Depreciation	52,089 -71,520	13,264 -6,341	10,539 -16,646	-397 -47,273	-16,670 -66,130	164,217 -145,977	528,046 -204,648
Net farm income from operations Gain or loss on capital sales	143,035 1,969	13,427 547	57,734 211	81,892 -1	118,530 2,073	250,558 8,170	576,602 -
Average net farm income Median net farm income	145,004 91,895	13,974 20,271	57,945 64,345	81,890 80,999	120,603 124,784	258,728 179,339	576,602 280,514
Profitability (cost) Rate of return on assets	4.8 %	4.0 %	4.5 %	3.8 %	3.7 %	5.1 %	7.4 %
Rate of return on equity	4.9 %	2.3 %	4.6 %	3.6 %	3.2 %	5.6 %	10.2 %
Operating profit margin Asset turnover rate	15.7 % 30.7 %	9.7 % 41.2 %	17.4 % 26.0 %	15.0 % 25.3 %	14.0 % 26.3 %	17.4 % 29.5 %	16.8 % 44.1 %
Liquidity & Repayment (end of		00.004	000 007	000 000	700.040	4 044 404	0.470.045
Current assets Current liabilities	808,635 389,388	63,221 28,126	260,967 50,351	363,982 162,494	793,219 245,567	1,314,181 867,778	3,170,045 2,038,287
Current ratio Working capital	2.08 419,247	2.25 35,095	5.18 210,616	2.24 201,487	3.23 547,652	1.51 446,403	1.56 1,131,758
Change in working capital Working capital to gross inc	78,098 42.3 %	22,640 39.4 %	32,349 100.6 %	24,557 51.6 %	55,900 78.6 %	90,755 30.6 %	505,084 18.3 %
Term debt coverage ratio	2.31	2.49	6.97	2.26	2.20	2.12	2.46
Replacement coverage ratio Term debt to EBITDA	1.49 1.94	2.19 1.56	2.54 0.43	1.39 1.76	1.14 2.07	1.62 1.84	1.99 2.13
Solvency (end of year at marker Number of farms	t) 106	0	11	23	42	14	7
Total assets	4,344,977	9 571,577	2,079,090	3,314,187	4,675,755	6,210,025	10,429,282
Total liabilities	1,488,321	257,830	402,798	842,397	1,412,424	2,554,730	5,221,083
Net worth Total net worth change	2,856,656 206,481	313,747 64,600	1,676,292 38,257	2,471,791 141,275	3,263,330 199,803	3,655,295 314,634	5,208,199 691,258
Farm debt to asset ratio	38 %	49 %	21 %	31 %	33 %	44 %	51 %
Total debt to asset ratio	34 %	45 %	19 %	25 %	30 %	41 %	50 %
Change in total net worth %	8 %	26 %	2 %	6 %	7 %	9 %	15 %
Nonfarm Information Net nonfarm income	47.024	66,662	56 76 <b>5</b>	61,029	12 206	21 044	12 502
Farms reporting living expenses	47,034 39	3	56,765 7	10	43,386 15	31,944 4	12,593 -
Total family living expense	66,585	-	65,630	64,179	71,217	_	_
Total living, invest, cap. purch	99,802	-	80,847	77,440	128,497	-	-
Crop Acres	0.40	404	074	504	000	4.500	2 207
Total crop acres Total crop acres owned	940 233	131 8	271 82	524 150	893 319	1,589 340	3,387 307
Total crop acres cash rented	659	113	133	298	543	1,157	3,080
Total crop acres share rented	48	10	57	76	31	91	-
Machinery value per crop acre	487	243	365	468	527	692	269

2019 Annual Report

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

	Avg. Of All Farms	Сгор	Crop and Beef	Other
Number of farms	106	67	6	18
Income Statement				
Gross cash farm income	946,154	667,771	666,283	699,682
Total cash farm expense	783,687	505,169	511,780	520,639
Net cash farm income	162,466	162,602	154,503	179,042
Inventory change	52,089	-29,151	7,987	119,517
Depreciation	-71,520	-57,587	-56,143	-76,635
Net farm income from operations	143,035	75,864	106,346	221,924
Gain or loss on capital sales	1,969	2,890	3,531	-341
Average net farm income	145,004	78,754	109,877	221,583
Median net farm income	91,895	80,999	122,360	89,704
Profitability (cost)				
Rate of return on assets	4.8 %	2.5 %	3.5 %	7.1 %
Rate of return on equity	4.9 %	1.3 %	3.2 %	8.3 %
Operating profit margin	15.7 %	7.7 %	17.2 %	29.5 %
Asset turnover rate	30.7 %	32.1 %	20.1 %	23.9 %
Liquidity & Repayment (end of year)				
Current assets	808,635	671,399	790,004	646,071
Current liabilities	389,388	282,962	265,194	378,875
Current ratio	2.08	2.37	2.98	1.71
Working capital	419,247	388,437	524,810	267,196
Change in working capital	78,098	21,125	75,493	94,472
Working capital to gross inc	42.3 %	61.2 %	77.9 %	32.8 %
Term debt coverage ratio	2.31	1.89	2.96	2.37
Replacement coverage ratio	1.49	1.05	1.81	1.83
Term debt to EBITDA	1.94	2.11	1.44	1.99
Solvency (end of year at market)				
Number of farms	106	67	6	18
Total assets	4,344,977	3,478,304	3,729,200	5,256,766
Total liabilities	1,488,321	1,202,377	1,016,925	1,651,652
Net worth	2,856,656	2,275,927	2,712,275	3,605,114
Total net worth change	206,481	96,485	156,258	374,145
Farm debt to asset ratio	38 %	37 %	28 %	36 %
Total debt to asset ratio	34 %	35 %	27 %	31 %
Change in total net worth %	8 %	4 %	6 %	12 %
Nonfarm Information				
Net nonfarm income	47,034	53,282	48,677	27,767
Farms reporting living expenses	39	24	3	7
Total family living expense	66,585	65,365	-	71,891
Total living, invest, cap. purch	99,802	90,659	-	135,477
Crop Acres				
Total crop acres	940	997	717	683
Total crop acres owned	233	205	351	272
Total crop acres cash rented	659	737	292	371
Total crop acres share rented	48	56	73	40
Machinery value per crop acre	487	442	580	552

2019 Annual Report

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

	Avg. Of All Farms	Less than 20%	20% - 40%	40% - 60%	60% - 80%	Over 80%
Number of farms	106	23	44	23	9	7
Income Statement						
Gross cash farm income	946,154	467,922	957,594	1,306,033	1,364,929	724,684
Total cash farm expense	783,687	280,393	781,626	1,074,907	1,435,534	655,371
Net cash farm income	162,466	187,529	175,968	231,126	-70,606	69,313
Inventory change	52,089	-25,183	102,751	-29,408	218,836	40,913
Depreciation	-71,520	-55,314	-75,345	-76,649	-84,597	-67,062
Net farm income from operations	143,035	107,033	203,374	125,070	63,634	43,164
Gain or loss on capital sales	1,969	-361	2,028	612	11,123	1,933
Average net farm income	145,004	106,672	205,403	125,682	74,757	45,097
Median net farm income	91,895	100,668	87,233	130,430	15,826	21,243
Profitability (cost)						
Rate of return on assets	4.8 %	3.5 %	6.1 %	4.3 %	3.4 %	1.9 %
Rate of return on equity	4.9 %	3.5 %	6.8 %	3.2 %	-1.0 %	-31.3 %
Operating profit margin	15.7 %	16.7 %	21.4 %	11.5 %	10.2 %	3.4 %
Asset turnover rate	30.7 %	21.1 %	28.5 %	37.0 %	33.2 %	57.9 %
Liquidity & Repayment (end of y	ear)					
Current assets	808,635	697,622	786,195	943,610	1,103,991	491,202
Current liabilities	389,388	31,081	309,498	562,883	1,054,515	643,619
Current ratio	2.08	22.44	2.54	1.68	1.05	0.76
Working capital	419,247	666,541	476,697	380,727	49,476	-152,418
Change in working capital	78,098	60,966	85,417	81,933	101,282	45,973
Working capital to gross inc	42.3 %	152.5 %	45.3 %	29.5 %	3.3 %	-19.7 %
Term debt coverage ratio	2.31	6.31	3.08	1.68	1.17	0.63
Replacement coverage ratio Term debt to EBITDA	1.49 1.94	1.78 0.40	1.84 1.50	1.25 2.98	0.93 3.76	0.62 2.77
Column v. (and of v. o. o. o. wardes)						
Solvency (end of year at market) Number of farms	) 106	23	44	23	9	7
Total assets	4,344,977	4,771,823	4,781,741	3,973,565	4,122,269	1,703,795
Total liabilities	1,488,321	708,917	1,386,535	2,014,897	2,674,719	1,433,469
Net worth	2,856,656	4,062,906	3,395,207	1,958,668	1,447,550	270,327
Total net worth change	206,481	273,168	254,724	132,856	142,652	8,098
Farm debt to asset ratio	38 %	17 %	31 %	53 %	67 %	85 %
Total debt to asset ratio	34 %	15 %	29 %	51 %	65 %	84 %
Change in total net worth %	8 %	7 %	8 %	7 %	11 %	3 %
Nonfarm Information						
Net nonfarm income	47,034	47,494	53,114	38,562	57,440	21,764
Farms reporting living expenses	39	12	19	7	1	· -
Total family living expense	66,585	59,190	75,957	53,712	-	-
Total living, invest, cap. purch	99,802	109,480	107,083	68,154	-	-
Crop Acres						
Total crop acres	940	528	876	1,440	1,154	783
Total crop acres owned	233	211	307	184	228	10
Total crop acres cash rented	659	296	497	1,208	918	737
Total crop acres share rented	48	21	72	48	8	36
Machinery value per crop acre	487	595	531	332	638	596

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# 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	106	7	20	12	17	50
In come Statement						
Income Statement Gross cash farm income Total cash farm expense Net cash farm income	946,154 783,687 162,466	1,217,059 1,032,006 185,053	631,442 497,833 133,609	1,365,434 1,214,976 150,458	700,376 558,826 141,549	1,017,049 836,208 180,841
Inventory change Depreciation	52,089 -71,520	-128,642 -18,371	54,380 -60,808	76,734 -72,523	25,956 -74,666	79,445 -81,935
Net farm income from operations Gain or loss on capital sales	143,035 1,969 145,004	38,040 153 38,193	127,181 279 127,460	154,669 12,129 166,798	92,839 2,364 95,203	178,350 326 178,676
Average net farm income Median net farm income	91,895	21,243	106,571	95,923	97,279	96,929
Profitability (cost) Rate of return on assets	4.8 %	1.5 %	6.2 %	5.3 %	2.9 %	5.3 %
Rate of return on equity Operating profit margin	4.9 % 15.7 %	-3.4 % 2.7 %	8.0 % 16.4 %	5.3 % 13.0 %	2.0 % 11.3 %	5.6 % 20.0 %
Asset turnover rate	30.7 %	54.1 %	38.1 %	40.5 %	25.7 %	26.3 %
Liquidity & Repayment (end of y Current assets	<b>ear)</b> 808,635	742,878	505,060	1,029,149	776,305	897,339
Current liabilities	389,388	324,479	256,302	566,537	387,208	409,934
Current ratio	2.08	2.29	1.97	1.82	2.00	2.19
Working capital	419,247	418,399	248,758	462,612	389,097	487,405
Change in working capital	78,098 42.3 %	-2,901 42.0 %	102,102 36.5 %	105,713 31.9 %	37,953	86,858 44.2 %
Working capital to gross inc Term debt coverage ratio	42.3 % 2.31	42.0 % 1.56	36.5 % 2.19	1.68	55.0 % 1.77	2.78
Replacement coverage ratio	1.49	1.36	1.73	1.32	0.97	1.64
Term debt to EBITDA	1.94	4.52	2.40	1.85	1.96	1.68
Solvency (end of year at market)		_				
Number of farms	106	7	20	12	17	50
Total assets Total liabilities	4,344,977	2,271,194	2,505,972	3,786,525 1,718,503	4,691,171	5,387,230
Net worth	1,488,321 2,856,656	1,265,704 1,005,490	1,117,987 1,387,985	2,068,022	1,479,286 3,211,885	1,615,449 3,771,781
Total net worth change	206,481	108,376	196,655	182,334	192,807	234,591
Farm debt to asset ratio	38 %	56 %	52 %	48 %	35 %	33 %
Total debt to asset ratio	34 %	56 %	45 %	45 %	32 %	30 %
Change in total net worth %	8 %	12 %	17 %	10 %	6 %	7 %
Nonfarm Information	47.004	00.770	50.040	00.500	00 700	E0 000
Net nonfarm income	47,034	68,779	52,610	33,593	29,730	50,869
Farms reporting living expenses Total family living expense	39 66,585	1	10 63,540	4	6 67,171	18 71,708
Total living, invest, cap. purch	99,802	-	91,590	-	104,396	106,996
Crop Acres Total crop acres	940	1,973	773	1,085	865	853
Total crop acres  Total crop acres owned	233	1,973	80	188	261	314
Total crop acres cash rented	659	1,870	623	847	573	488
Total crop acres share rented	48	-	70	49	30	51
Machinery value per crop acre	487	53	497	443	704	563

2019 Annual Report

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# 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

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 21 financial measures for evaluating a farm's 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 Income is Working Capital divided by Gross Revenues (accrual).

### 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% 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 ÷ 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) ÷ 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 ÷ 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.

*Net Farm Income* represents the returns to unpaid labor, management, and equity capital invested in the business.

EBITDA is Earnings Before Interest, Taxes, Depreciation and Amortization. It is Net Farm Income from Operations from the income statement plus interest expense and depreciation expense. This measure is common in commercial financial analysis but is not commonly used in agriculture.

### Repayment Capacity

Capital Debt Repayment Capacity is Net Farm Income From Operations plus Depreciation, Personal Income, and Interest on Term Debt minus Family Living/Owner Withdrawals, Payments on Personal Debt and Income Taxes Paid. This represents total earnings available for debt repayment and cash capital replacement.

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

Replacement Margin is Capital Debt 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.

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.

#### **Efficiency**

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.

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

*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 ÷ Gross Farm Income. This ratio indicates the percent of the gross farm income that was used to cover depreciation and other capital adjustments.

Interest Expense Ratio is calculated as Farm Interest Expense ÷ Gross Farm Income. This ratio indicates the percent 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 ÷ Gross Farm Income. This ratio indicates the percent 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*. This is net farm income on a *cash* basis.

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**

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

Working Capital is total Current Assets minus total Current Liabilities.

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

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 crops and feed, market livestock, accounts receivable, hedging accounts, breeding livestock and other income related inventories.

*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. Reported withdrawals are adjusted to include any discrepancy with actual cash disappearance.

Payments on personal debt is the total principal payments made during the year on all non-farm loans.

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

Interest on Term Debt is the amount of interest paid on 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.

Capital Debt Repayment Capacity is Net Farm Income From Operations plus Depreciation, Personal Income, and Interest on Term Debt minus Family Living/Owner Withdrawals, Payments on Personal Debt and Income Taxes Paid. This represents total earnings available for debt repayment and cash capital replacement.

Scheduled Term Debt Payments is the scheduled amount of principal and interest payments due on farm intermediate and long-term loans from the beginning balance sheet.

Capital Debt Repayment Margin is Capital Debt Repayment Capacity minus Scheduled Term 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 Capital Debt 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.

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

Replacement Coverage Ratio is Capital Debt Repayment Capacity divided by the total of Scheduled Term 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 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. LDP payments and other commodity-specific income are 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 includes only direct payments and counter-cyclical payments. Payments that are directly attached to production of the crop, such as LDP and disaster payments are included in Gross Return. 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 5 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. feed per lb. of gain* 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 5 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

	Beginning		Ending
Item	Inventory	Feed	Inventory
All Corn/bu.	\$3.39	\$3.65	\$3.80
Oats/bu.	2.64	2.97	2.74
All Wheat/bu.	5.12	5.04	5.14
Soybeans/bu.	8.08	8.15	8.90
Alfalfa hay/t. (avg quality)	\$140	\$145	\$150
Alfalfa haylage/t	60	62	65
Grass/Mixed hay/r	120	125	125
Corn silage/t.	27	29	30
Oats straw/bale/ton	\$3.75/125	\$3.75/125	\$3.75/125
Cornstalks/t.	30	30	30
Oatlage/t.	22	23	24

Enterprise production valued at actual selling price if sold or contracted, inventory price for balance. All feeds are valued on an as fed moisture basis.

#### **Other Prices Used:**

Pasture: \$50.00/acre (adjusted for quality and carrying capacity)

Value of milk fed calves \$ 1.50/gallon

Depreciation is calculated by using a 5% rate for buildings, 10% for machinery, 20% for beef cattle and sheep and 33% for breeding hogs and dairy cows. The economic depreciation is calculated by taking the beginning cost (book) value, plus new purchases (boot), 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 \$25,000 per operator plus 5% of the value of farm production, with a minimum of \$30,000 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/2019SWReport

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