Minnesota and North Dakota Farm Business Management Education

# Red River Valley 2018 Report

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# Minnesota Farm Business Management Education and North Dakota Farm Business Management Education

# RED RIVER VALLEY AVERAGES 2018 ANNUAL REPORT

#### ACKNOWLEDGMENTS

The Red River Valley farm business analyses were submitted by the following cooperating instructors and farm management programs:

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A special acknowledgment is due Northland Community and Technical College, Thief River Falls, Minnesota, and the North Dakota State Board for Vocational and Technical Education for cooperation in the development of the 25th annual Red River Valley Report.

# 2018 Red River Valley Report Minnesota and North Dakota Farm Business Management Education

# TABLE OF CONTENTS

Introduction	1
Explanatory Notes for the Farm Operators' Reports	
Five-Year Trend of Financial measures	
Farm Income Statement	
Inventory Changes	10
Depreciation	11
Profitability Measures	
Liquidity & Repayment Capacity Measures	13
Balance Sheet at Cost Values	
Balance Sheet at Market Values	15
Statement of Cash Flows	16
Financial Standards Measures	
Crop Production and Marketing Summary	18
Operator and Labor Information	
Nonfarm Summary	
Financial Summary (sorted by gross farm income)	
Financial Summary (sorted by age of operator)	
Explanatory Notes for Crop Tables	
Five Year Crop History of Yields and Cost of Production	24
Barley on Cash Rent	
Beans, Black Turtle on Cash Rent	26
Beans, Navy on Cash Rent	
Corn on Owned Land	28
Corn on Cash Rent	29
Hay, Alfalfa on Cash Rent	
Soybeans on Owned Land	
Soybeans on Cash Rent	
Soybeans, Seed on Owned Land	
Soybeans, Seed on Cash Rent	
Soybeans, Food on Owned Land	
Soybeans, Food on Cash Rent	
Sugar Beets on Owned Land, Excluding Joint Venture	
Sugar Beets on Owned Land, Including Joint Venture	
Sugar Beets on Cash Rent, Excluding Joint Venture	
Sugar Beets on Cash Rent, Including Joint Venture	
Sunflowers on Cash Rent	
Wheat, Spring on Owned Land	
Wheat, Spring on Cash Rent	43

# INTRODUCTION

This report summarizes the individual farm records of farms in the Red River Valley that are enrolled in Farm Management Education programs. The current financial status of farm operators and net returns from each crop enterprise is reported. In addition to the average of all farms, the averages for the high and low net income groups are also presented. To insure anonymity, only averages of five or more farms are reported. Regional averages reports can be used by producers for comparison purposes to identify and study the areas that may need management improvement. A review of the comparative information may reveal how certain aspects of the business or enterprises excel and help answer why they are profitable. The data contained in this report should also be useful to instructors, extension agents, bankers and agricultural consultants.

The Red River Valley averages reports are divided into two major categories. Explanatory notes precede the farm operators' reports and the crop reports.

The 2018 Red River Valley Report is based upon data generated by individual farm analysis completed by farm/ranch families enrolled in the Farm and Ranch Business Management Education programs in Minnesota and North Dakota. The tables in this report were created using FINPACK and RankEm Central copyrighted software of the Center for Farm Financial Management, University of Minnesota.

You may contact Ron Dvergsten, Northland Community and Technical College, Highway 1 East, Thief River Falls, MN 56701, phone: (218) 683-8747, to order a copy of this report. This report and regional reports for north central, south central and western North Dakota can be ordered for \$5 per copy from Farm Business Management, PO Box 6022, Bismarck, ND 58506-6022, phone: (701) 224-8390. A state average book for North Dakota farms is also available. The reports are available online at www.ndfarmmanagement.com.

# EXPLANATORY NOTES FOR THE FARM OPERATORS' REPORTS

The tables include the same number of farms, which were all of the farms whose records were judged to be of sufficient quality to be included in the overall report. However, the balance sheets include only sole proprietors. Partnerships and corporations are excluded because some debt is held outside of the business causing potential misinterpretations of the financial statement. The number of farms included in each of the crop tables varies because all farms do not have the same enterprises. Also, some farmers' records were complete enough to be included in the whole-farm tables, but at times, these same farmers' crop records were not complete enough to include in the respective crop and livestock tables.

Rounding of individual items for the report may have caused minor discrepancies with the printed totals which are calculated before rounding.

#### **Farm Income Statement**

This statement is a summary of income, expenses, or resultant profit or loss from farming operations during the calendar year.

The first section of the income statement is a table which lists <u>cash</u> farm income. There are several sources of cash farm income. Cash sales of crops are listed first followed by cash sales of livestock.

Government payments are categorized. "Crop government payments" are Agricultural Risk Coverage (ARC) and Price Loss Coverage (PLC) payments. "LDP payments" are loan deficiency payments that may be received on production when local prices are below the county loan rate for the crop. "Livestock government payments" include dairy MPP payments and other livestock related payments. "CRP payments" are funds received for land enrolled in the Conservation Reserve Program. "Other government payments" refers to all other government payments such as disaster payments, EQIP, CSP, and Market Facilitation Payments (MFP).

Lastly, cash income is categorized by sources such as custom work, cash patronage dividends, crop and property insurance indemnities, sale of resale items, and other.

The second section of the income statement lists <u>cash</u> expenses. "Hired labor" includes only labor which was hired and paid. "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 <u>cash</u> basis.

The last two sections of the income statement deal with the non-cash 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 final adjustment is for "Gain or loss on capital sales." The bottom line, labeled "Net farm income," represents the return to the operators and family's unpaid labor, management, and equity capital (net worth). In other words, it represents the return to all of the resources that are owned by the farm family and hence, not purchased or paid a wage. However, it does not include any debt forgiveness or asset repossessions.

#### **Inventory Changes**

This is the detailed statement of inventory changes that is summarized in the income statement. It includes beginning and ending inventories and the calculated changes.

#### Depreciation

This is the detailed statement of depreciation and other capital adjustments that is summarized in the income statement. It includes beginning and ending inventories, and capital sales and purchases.

#### **Profitability Measures**

This table shows profitability when capital assets are valued at cost. Various measures of performance are calculated. In the previous tables no opportunity costs are used. In this table, opportunity costs for labor, capital, and management <u>are</u> used. The measures and their components are described below.

"Rate of return on assets" is the "Return on farm assets" divided by "Average farm assets."

"Rate of return on equity "is the "Return of farm equity" divided by "Average farm equity."

"Operating profit margin" is the "Return on 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 accrual interest cost, usually it will be different from the cash interest expense.
- "Value of operator's labor and management" is an opportunity cost for unpaid operator's labor and management that is used in the calculation of several financial performance measures. A value of \$25,000 per full time operator plus 5% of value of farm production is used.
- "Return of farm assets" is calculated by adding "Farm interest expense" to "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.
- "Return on 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 cash farm income minus purchased feed and feeder livestock and adjusted for inventory changes in crops, market livestock, accounts receivable and breeding livestock.

#### Liquidity & Repayment Capacity Measures

The table shows several measures of liquidity and repayment capacity. Calculation of repayment capacity starts with net farm income from operations and adds back the non-cash expense of depreciation. Personal income is also added. Family living expenses, personal debt payments, income taxes paid, and interest on term debt are subtracted to determine the capital debt repayment capacity.

#### **Balance Sheets**

The ending balance sheet statements and solvency measures are for all farms; in previous Red River Valley reports they were presented for sole proprietors only. Current assets are valued at market price at the time of the inventory which is December 31. In balance sheet at cost values, intermediate and long-term assets that are depreciable are valued at cost remaining (amount remaining to be depreciated, plus salvage value). Raised breeding livestock is valued at conservative market replacement costs. Land is valued at cost or conservative market value. In balance sheet at market values, the intermediate and long term assets are listed at market value, and deferred income tax liabilities are estimated.

#### **Statement of Cash Flows**

This statement organizes cash inflows and outflows by the following three categories: Operating activities, investing activities, and financing activities.

#### **Financial Standards Measures**

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

#### Liquidity

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

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

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

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

#### Solvency

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

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

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

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

#### **Profitability**

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

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

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

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

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

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

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

#### **Repayment Capacity**

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

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

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

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

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

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

#### Efficiency

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

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

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

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

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

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

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

This table contains three sections. The first section reports averages for total acres owned, crop land by tenure and total pasture acres. The next two sections show average price received and average yields for major crops. These tables are sorted on the basis of "Net farm income."

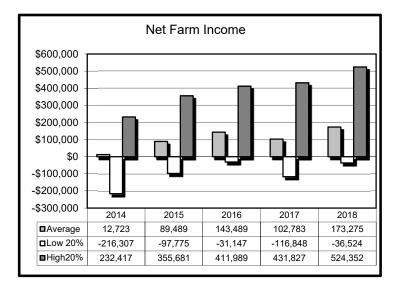
#### **Operator and Labor Information**

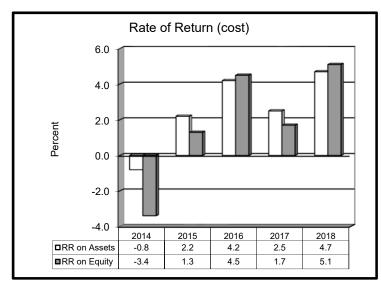
This table reports the average for the number of operators per farm, the operator's age, and the number of years farming.

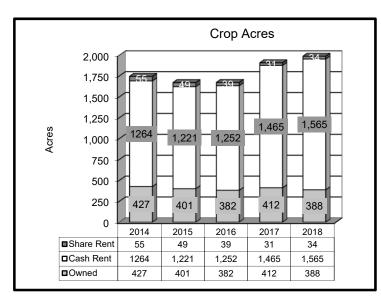
#### **Nonfarm Summary**

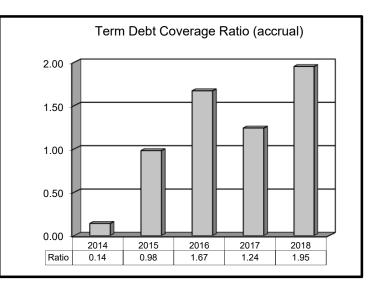
This table also reports nonfarm income. The figure reported is the average over all farms <u>not</u> just those reporting nonfarm income.

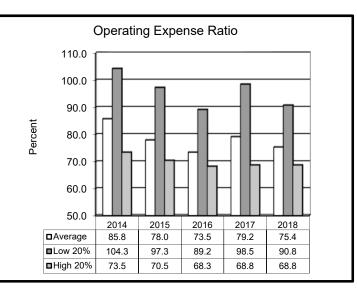
# Five Year Trend of Financial Measures Red River Valley Farm Business Management Education

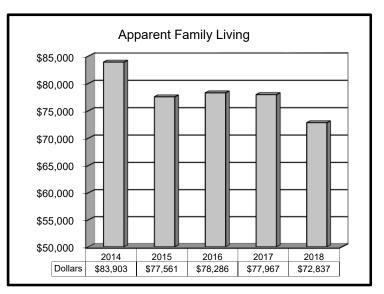












#### Farm Income Statement Minnesota and North Dakota Farm Business Management Education Red River Valley, 2018 (Farms Sorted By Net Farm Income)

	Avg. Of	1 20%	40 60%	Link 200/
	All Farms	Low 20%	40 - 60%	High 20%
Number of farms	235	47	47	47
Cash Farm Income				
Barley	4,790	780	424	4,523
Beans, Black Turtle	5,300	758	5,747	12,381
Beans, Dark Red Kidney	594	-	-	2,972
Beans, Navy	5,720	6,093	6,606	3,441
Beans, Pink	1,017	-	-	-
Beans, Pinto	6,248	12,199	8,255	8,976
Corn	293,711	193,279	238,890	528,363
Corn Silage	59	294	-	-
Hay, Alfalfa	807	383	2,977	414
Oats	29	-	-	144
Peas, Field	265	755	568	-
Potatoes	28,731	21,923	-	117,020
Rye	479	-	-	1,146
Soybeans	245,776	204,860	193,332	422,971
Soybeans Seed	13,269	19,629	1,529	28,085
Sugar Beets	206,282	165,035	137,109	467,637
Sunflowers	6,684	6,926	-	12,090
Wheat, Durum	24	-	118	-
Wheat, Spring	127,809	147,546	75,749	235,439
Soybeans, Natto	1,574	-	1,486	-
Peas, Organic	211	-	1,055	-
Нау	1,120	258	3,220	2,122
Other Crops	3,618	3,031	873	-
Miscellaneous crop income	8,933	32,395	2,271	5,559
Beef Cow-Calf, Beef Calves	1,964	9,364	56	305
Beef Finishing	5,914	5,132	-	10,820
Dairy Finishing	23	-	117	-
Hogs, Weaning to Finish	6,097	30,486	-	-
Misc. livestock income	76	-	-	-
Crop government payments	9,804	7,825	8,928	19,103
CRP payments	1,197	1,147	1,310	2,170
Other government payments	45,807	47,545	43,212	63,120
Custom work income	14,213	12,194	15,692	27,183
Patronage dividends, cash	16,409	15,076	10,660	36,478
Crop insurance income	16,160	11,602	6,717	38,556
Property insurance income	2,003	2,859	476	3,235
Sale of resale items	4,182	11	11,779	523
Other farm income	39,692	21,973	32,833	68,869
Gross Cash Farm Income	1,126,590	981,359	811,990	2,123,645

#### Farm Income Statement (continued) Minnesota and North Dakota Farm Business Management Education Red River Valley, 2018 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	235	47	47	47
Cash Farm Expense Seed and plants Fertilizer Crop chemicals Crop insurance Drying expense Storage Irrigation energy Crop miscellaneous Consultants Feeder livestock purchase Purchased feed Veterinary Interest Fuel & oil Repairs Custom hire Hired labor Land rent Stock/quota lease Machinery leases Building leases Real estate taxes Farm insurance Utilities Hauling and trucking Marketing Dues & professional fees Purchase of resale items Miscellaneous Total cash expense Net cash farm income	$\begin{array}{c} 130,209\\ 125,036\\ 80,546\\ 35,954\\ 7,966\\ 2,377\\ 464\\ 4,594\\ 4,184\\ 7,616\\ 3,507\\ 809\\ 46,685\\ 49,540\\ 78,137\\ 15,526\\ 56,095\\ 198,002\\ 13,246\\ 21,377\\ 4,249\\ 10,711\\ 15,852\\ 13,246\\ 21,377\\ 4,249\\ 10,711\\ 15,852\\ 11,604\\ 3,020\\ 1,824\\ 8,537\\ 6,735\\ 12,235\\ 956,634\\ 169,956\end{array}$	$\begin{array}{c} 96,632\\ 91,407\\ 65,664\\ 32,670\\ 4,683\\ 1,100\\ \hline\\ 7,996\\ 2,643\\ 14,182\\ 14,360\\ 3,636\\ 43,587\\ 50,119\\ 82,517\\ 13,026\\ 60,602\\ 173,781\\ 7,571\\ 13,026\\ 60,602\\ 173,781\\ 7,571\\ 13,026\\ 60,602\\ 173,781\\ 7,571\\ 13,026\\ 60,602\\ 173,781\\ 7,571\\ 13,026\\ 60,602\\ 173,781\\ 7,571\\ 13,026\\ 60,602\\ 173,781\\ 7,571\\ 13,026\\ 60,602\\ 173,781\\ 7,571\\ 13,026\\ 60,602\\ 173,781\\ 7,571\\ 13,026\\ 60,602\\ 173,781\\ 7,571\\ 13,026\\ 60,602\\ 173,781\\ 7,571\\ 13,026\\ 60,602\\ 173,781\\ 7,571\\ 13,026\\ 60,602\\ 173,781\\ 7,571\\ 10,564\\ 9,092\\ 23,382\\ 874,229\\ 107,130\\ \end{array}$	$\begin{array}{c} 101,943\\ 87,354\\ 68,775\\ 27,042\\ 5,052\\ 1,130\\ 20\\ 5,403\\ 2,639\\ 40\\ 102\\ 54\\ 31,591\\ 37,315\\ 55,918\\ 7,472\\ 46,680\\ 136,761\\ 4,979\\ 28,033\\ 1,409\\ 7,469\\ 10,016\\ 8,360\\ 270\\ 995\\ 5,593\\ 14,559\\ 6,185\\ 703,160\\ 108,830\\ \end{array}$	$\begin{array}{c} 236,146\\ 258,163\\ 141,768\\ 58,713\\ 16,329\\ 4,000\\ 2,301\\ 3,421\\ 7,994\\ 14,373\\ 2,309\\ 244\\ 78,283\\ 83,537\\ 139,363\\ 34,475\\ 98,462\\ 356,636\\ 34,012\\ 28,651\\ 10,578\\ 21,852\\ 27,833\\ 18,037\\ 8,855\\ 4,590\\ 13,471\\ 8,917\\ 15,140\\ 1,728,457\\ 395,188\\ \end{array}$
Inventory Changes Prepaids and supplies Accounts receivable Hedging accounts Other current assets Crops and feed Market livestock Breeding livestock Other assets Accounts payable Accrued interest Total inventory change Net operating profit	9,764 18,975 6,380 5,980 32,766 4,397 -267 10,228 -7,996 -2,769 77,458 247,414	-11,285 -7,016 -506 367 -60,487 7,639 -1,026 1,441 4,690 -8,607 -74,788 32,342	15,546 -14,038 1,380 -28 56,374 568 - 9,174 -9,851 - 14 59,139 167,970	46,434 88,876 26,261 28,415 59,835 11,726 -268 31,415 -26,620 -5,841 260,233 655,421
Depreciation Machinery and equipment Titled vehicles Buildings and improvements Total depreciation	-65,486 -5,041 -6,838 -77,365	-59,949 -5,562 -4,287 -69,797	-38,028 -4,971 -5,106 -48,105	-123,285 -6,374 -14,374 -144,033
Net farm income from operations Gain or loss on capital sales	170,048 3,226	-37,455 931	119,865 1,131	511,389 12,963
Net farm income	173,275	-36,524	120,995	524,352

#### Inventory Changes Minnesota and North Dakota Farm Business Management Education Red River Valley, 2018 (Farms Sorted By Net Farm Income)

	Avg. Of <u>All Farms</u>	Low 20%	<u> </u>	<u> </u>
Number of farms	235	47	47	47
Net cash farm income	169,956	107,130	108,830	395,188
<b>Crops and Feed</b> Ending inventory Beginning inventory Inventory change	661,512 628,746 32,766	469,610 530,097 -60,487	419,768 363,394 56,374	1,403,044 1,343,209 59,835
Market Livestock Ending inventory Beginning inventory Inventory change	11,242 6,845 4,397	26,235 18,596 7,639	814 247 568	15,612 3,886 11,726
Accts Receivable Ending inventory Beginning inventory Inventory change	101,881 82,905 18,975	53,051 60,067 -7,016	46,599 60,637 -14,038	233,891 145,016 88,876
Prepaid Expenses and Supplies Ending inventory Beginning inventory Inventory change	96,772 87,007 9,764	36,782 48,067 -11,285	86,479 70,934 15,546	230,886 184,452 46,434
Hedging Activities Ending inventory Withdrawals Beginning inventory Deposits Gain or loss	9,623 10,065 9,426 3,882 6,380	3,024 3,581 3,270 3,841 -506	5,960 3,714 5,576 2,718 1,380	27,541 35,422 27,423 9,279 26,261
Other Current Assets Ending inventory Beginning inventory Inventory change	13,669 7,690 5,980	1,420 1,053 367	77 105 -28	62,452 34,037 28,415
<b>Breeding Livestock</b> Ending inventory Capital sales Beginning inventory Capital purchases Depreciation, capital adjust	4,132 530 3,667 1,263 -267	16,584 1,170 13,188 5,591 -1,026	466 466 -	- - 268 -268
Other Capital Assets Ending inventory Capital sales Beginning inventory Capital purchases Depreciation, capital adjust	356,941 794 318,686 28,821 10,228	253,608 202 249,496 2,872 1,441	188,653 95 168,928 10,646 9,174	805,651 3,270 680,236 97,270 31,415
Accounts Payable Beginning inventory Ending inventory Inventory change	40,038 48,034 -7,996	50,194 45,503 4,690	25,178 35,029 -9,851	66,183 92,803 -26,620
Accrued Interest Beginning inventory Ending inventory Inventory change	19,579 22,348 -2,769	15,983 24,590 -8,607	15,967 15,952 14	30,677 36,518 -5,841
Total inventory change	77,458	-74,788	59,139	260,233
Net operating profit	247,414	32,342	167,970	655,421

#### Depreciation Minnesota and North Dakota Farm Business Management Education Red River Valley, 2018 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	235	47	47	47
Net operating profit	247,414	32,342	167,970	655,421
Machinery and Equipment				
Ending inventory	679,693	616,064	396,745	1,283,881
Capital sales	24,147	9,039	11,249	41,236
Beginning inventory	674,542	631,809	401,819	1,209,773
Capital purchases	94,784	53,242	44,202	238,629
Depreciation, capital adjust.	-65,486	-59,949	-38,028	-123,285
Titled Vehicles				
Ending inventory	46,796	51,052	43,305	78,058
Capital sales	773	345	118	2,340
Beginning inventory	43,856	51,518	42,766	63,034
Capital purchases	8,755	5,441	5,627	23,738
Depreciation, capital adjust.	-5,041	-5,562	-4,971	-6,374
Buildings and Improvements				
Ending inventory	260,328	238,090	186,707	505,471
Capital sales	94	468	-	-
Beginning inventory	247,338	229,993	181,313	490,925
Capital purchases	19,922	12,851	10,500	28,920
Depreciation, capital adjust.	-6,838	-4,287	-5,106	-14,374
Total depreciation, capital adj.	-77,365	-69,797	-48,105	-144,033
Net farm income from operations	170,048	-37,455	119,865	511,389
Gain or loss on capital sales	3,226	931	1,131	12,963
Net farm income	173,275	-36,524	120,995	524,352

#### Profitability Measures Minnesota and North Dakota Farm Business Management Education Red River Valley, 2018 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	235	47	47	47
Profitability (assets valued at cost)				
Net farm income from operations	170,048	-37,455	119,865	511,389
Rate of return on assets	4.7 %	-2.2 %	4.3 %	7.6 %
Rate of return on equity	5.1 %	-8.7 %	4.6 %	9.7 %
Operating profit margin	12.0 %	-6.0 %	9.8 %	19.8 %
Asset turnover rate	38.9 %	36.6 %	44.3 %	38.4 %
Farm interest expense	49,454	52,194	31,577	84,124
Value of operator lbr and mgmt.	77,594	67,799	68,114	131,634
Return on farm assets	141,908	-53,061	83,327	463,878
Average farm assets	3,051,273	2,414,664	1,922,537	6,103,674
Return on farm equity	92,454	-105,255	51,751	379,754
Average farm equity	1,813,949	1,207,811	1,122,765	3,922,603
Value of farm production	1,187,040	883,526	850,783	2,344,305

#### Liquidity & Repayment Capacity Measures Minnesota and North Dakota Farm Business Management Education Red River Valley, 2018 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	235	47	47	47
Liquidity				
Current ratio	1.70	1.18	1.67	2.08
Working capital	403,506	94,769	247,830	1,100,646
Working capital to gross inc	33.5 %	10.3 %	28.6 %	46.4 %
Current assets	976,910	634,084	615,360	2,120,527
Current liabilities	573,404	539,314	367,529	1,019,882
Gross revenues (accrual)	1,204,898	921,160	865,485	2,369,905
Repayment capacity				
Net farm income from operations	170,048	-37,455	119,865	511,389
Depreciation	77,365	69,797	48,105	144,033
Personal income	28,899	29,673	31,258	32,676
Family living/owner withdrawals	-73,174	-62,286	-67,708	-114,074
Cash discrepancy	-77	-98	25	-196
Payments on personal debt	-5,744	-5,064	-5,485	-8,185
Income taxes paid	-20,503	-8,287	-9,452	-45,783
Interest on term debt	30,038	29,594	20,195	50,080
Capital debt repayment capacity	206,851	15,874	136,803	569,939
Scheduled term debt payments	-106,174	-100,482	-74,243	-174,651
Capital debt repayment margin	100,677	-84,608	62,560	395,288
Cash replacement allowance	-46,437	-52,357	-30,432	-90,001
Replacement margin	54,240	-136,966	32,128	305,288
Term debt coverage ratio	1.95	0.16	1.84	3.26
Replacement coverage ratio	1.36	0.10	1.31	2.15

#### Balance Sheet at Cost Values Minnesota and North Dakota Farm Business Management Education Red River Valley, 2018 (Farms Sorted By Net Farm Income)

	Avg. Of <u>All Farms</u>	Low 20%	40 - 60%	High 20%
Number of farms	235	47	47	47
Assets Current Farm Assets				
Cash and checking balance Prepaid expenses & supplies Growing crops	82,212 96,772 179	43,960 36,782 612	55,663 86,479	147,101 230,886
Accounts receivable Hedging accounts	101,881 9,623	53,051 3,024	- 46,599 5,960	- 233,891 27,541
Crops held for sale or feed Market livestock held for sale Other current assets	661,512 11,242 13,490	469,610 26,235 809	419,768 814 77	1,403,044 15,612 62,452
Total current farm assets	976,910	634,084	615,360	2,120,527
Intermediate Farm Assets Breeding livestock	4,132	16,584	466	<del>.</del>
Machinery and equipment Titled vehicles Other intermediate assets	679,693 46,796 248,953	616,064 51,052 202,016	396,745 43,305 125,935	1,283,881 78,058 528,304
Total intermediate farm assets	979,574	885,715	566,451	1,890,244
Long Term Farm Assets Farm land	820,669	594,568	563,801	1,574,207
Buildings and improvements Other long-term assets Total long-term farm assets	260,328 107,988 1,188,985	238,090 51,592 884,250	186,707 62,718 813,226	505,471 277,347 2,357,025
Total Farm Assets	3,145,469	2,404,049	1,995,036	6,367,796
Total Nonfarm Assets Total Assets	359,288 3,504,757	256,003 2,660,052	253,006 2,248,042	612,376 6,980,173
Liabilities Current Farm Liabilities				
Accrued interest Accounts payable	22,348 48,034	24,590 45,503	15,952 35,029	36,518 92,803
Current notes Principal due on term debt	427,871 75,151	403,069 66,153	267,331 49,217	767,097 123,464
Total current farm liabilities	573,404	539,314	367,529	1,019,882
Total intermediate farm liabs Total long term farm liabilities Total farm liabilities	185,425 522,795 1,281,624	178,420 519,710 1,237,445	124,289 348,804 840,622	283,421 964,246 2,267,548
Total nonfarm liabilities Total liabilities	96,388 1,378,013	74,913 1,312,357	82,366 922,988	145,406 2,412,954
Net worth (farm and nonfarm) Net worth change Percent net worth change	2,126,744 109,024 5 %	1,347,695 -80,113 -6 %	1,325,054 70,558 6 %	4,567,219 379,525 9 %
<b>Ratio Analysis</b> Current farm liabilities / assets Intermediate farm liab. / assets Long term farm liab. / assets	59 % 19 % 44 %	85 % 20 % 59 %	60 % 22 % 43 %	48 % 15 % 41 %
Total debt to asset ratio	39 %	49 %	41 %	35 %

#### Balance Sheet at Market Values Minnesota and North Dakota Farm Business Management Education Red River Valley, 2018 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	<u>        40 -  60%</u>	High 20%
Number of farms	235	47	47	47
Assets Current Farm Assets Cash and checking balance Prepaid expenses & supplies Growing crops Accounts receivable Hedging accounts Crops held for sale or feed Market livestock held for sale Other current assets Total current farm assets	82,212 96,772 179 101,881 9,623 661,512 11,242 13,490 976,910	$\begin{array}{r} 43,960\\ 36,782\\ 612\\ 53,051\\ 3,024\\ 469,610\\ 26,235\\ 809\\ 634,084\end{array}$	55,663 86,479 46,599 5,960 419,768 814 77 615,360	147,101 230,886 233,891 27,541 1,403,044 15,612 62,452 2,120,527
Intermediate Farm Assets Breeding livestock Machinery and equipment Titled vehicles Other intermediate assets Total intermediate farm assets	4,249 858,659 59,726 328,046 1,250,680	16,869 816,678 63,655 332,888 1,230,089	415 536,845 59,821 150,206 747,288	1,590,158 102,504 696,836 2,389,498
Long Term Farm Assets Farm land Buildings and improvements Other long-term assets Total long-term farm assets Total Farm Assets	1,451,433 297,873 130,280 1,879,587 4,107,177	1,083,425 259,508 61,158 1,404,091 3,268,264	1,110,925 243,042 103,239 1,457,206 2,819,853	2,742,770 550,581 327,314 3,620,664 8,130,690
Total Nonfarm Assets Total Assets	455,147 4,562,325	337,898 3,606,162	308,639 3,128,492	773,514 8,904,203
Liabilities Current Farm Liabilities Accrued interest Accounts payable Current notes Principal due on term debt Total current farm liabilities	22,348 48,034 427,871 75,151 573,404	24,590 45,503 403,069 66,153 539,314	15,952 35,029 267,331 49,217 367,529	36,518 92,803 767,097 123,464 1,019,882
Total intermediate farm liabs Total long term farm liabilities Total farm liabilities	185,425 522,795 1,281,624	178,420 519,710 1,237,445	124,289 348,804 840,622	283,421 964,246 2,267,548
Total nonfarm liabilities Total liabs excluding deferreds Total deferred liabilities Total liabilities	96,388 1,378,013 333,060 1,711,073	74,913 1,312,357 305,679 1,618,037	82,366 922,988 230,883 1,153,871	145,406 2,412,954 718,569 3,131,523
Retained earnings Market valuation equity Net worth (farm and nonfarm) Net worth excluding deferreds Net worth change Percent net worth change	2,126,744 724,508 2,851,252 3,184,312 137,648 5 %	1,347,695 640,431 1,988,126 2,293,805 -45,806 -2 %	1,325,054 649,567 1,974,621 2,205,504 79,280 4 %	4,567,219 1,205,462 5,772,680 6,491,249 387,451 7 %
Ratio Analysis Current farm liabilities / assets Intermediate farm liab. / assets Long term farm liab. / assets Total debt to asset ratio Debt to assets excl deferreds	59 % 15 % 28 % 38 % 30 %	85 % 15 % 37 % 45 % 36 %	60 % 17 % 24 % 37 % 30 %	48 % 12 % 27 % 35 % 27 %

#### Statement Of Cash Flows Minnesota and North Dakota Farm Business Management Education Red River Valley, 2018 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
				<u></u>
Number of farms	235	47	47	47
Beginning cash (farm & nonfarm)	72,522	29,799	39,689	127,148
Cash Provided By Operating Activities				
Gross cash farm income	1,126,590	981,359	811,990	2,123,645
Total cash farm expense	-956,634	-874,229	-703,160	-1,728,457
Net cash from hedging transactions	6,183	-260	996	26,143
Cash provided by operating	176,138	106,870	109,826	421,330
Cash Provided By Investing Activities				
Sale of breeding livestock	530	1,170	-	-
Sale of machinery & equipment	24,826	9,147	12,379	42,106
Sale of titled vehicles	765	452	118	2,368
Sale of farm land	5,087	2,843	-	21,852
Sale of farm buildings	94	468	-	-
Sale of other farm assets	794	202	95	3,270
Sale of nonfarm assets	6,098	1,277	2,134	17,715
Purchase of breeding livestock	-1,263	-5,591	-	-268
Purchase of machinery & equip.	-94,784	-53,242	-44,202	-238,629
Purchase of titled vehicles	-8,755	-5,441	-5,627	-23,738
Purchase of farm land	-30,264	-28,426	-34,071	-34,356
Purchase of farm buildings	-19,922	-12,851	-10,500	-28,920
Purchase of other farm assets	-28,821	-2,872	-10,646	-97,270
Purchase of nonfarm assets	-29,093	-13,610	-17,960	-66,721
Cash provided by investing	-174,708	-106,474	-108,280	-402,592
Cash Provided By Financing Activities				
Money borrowed	564,997	477,874	357,945	1,041,901
Principal payments	-482,484	-418,796	-284,847	-894,015
Personal income	28,899	29,673	31,258	32,676
Family living/owner withdrawals	-72,837	-62,286	-66,020	-114,074
Income and social security tax	-16,848	-7,279	-8,802	-40,767
Capital contributions	294	142	-	-2,837
Capital distributions	-4,127	-2,128	-	-13,466
Dividends paid	-338	-	-1,688	-
Cash gifts and inheritances	7,603	7,279	751	11,879
Gifts given	-1,873	-553	-657	-2,603
Other cash flows	-	-	-	-
Cash provided by financing	23,287	23,926	27,940	18,695
Net change in cash balance	24,717	24,322	29,486	37,434
Ending cash (farm & nonfarm)	97,162	54,023	69,200	164,386
Discrepancy	77	98	-25	196

#### Financial Standards Measures Minnesota and North Dakota Farm Business Management Education Red River Valley, 2018 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	235	47	47	47
Liquidity				
Current ratio	1.70	1.18	1.67	2.08
Working capital	403,506	94,769	247,830	1,100,646
Working capital to gross inc	33.5 %	10.3 %	28.6 %	46.4 %
Solvency (market)				
Farm debt to asset ratio	39 %	47 %	38 %	36 %
Farm equity to asset ratio	61 %	53 %	62 %	64 %
Farm debt to equity ratio	0.64	0.88	0.61	0.57
Profitability (cost)				
Rate of return on farm assets	4.7 %	-2.2 %	4.3 %	7.6 %
Rate of return on farm equity	5.1 %	-8.7 %	4.6 %	9.7 %
Operating profit margin	12.0 %	-6.0 %	9.8 %	19.8 %
Net farm income	173,275	-36,524	120,995	524,352
EBITDA	296,868	84,536	199,546	739,545
Repayment Capacity				
Capital debt repayment capacity	206,851	15,874	136,803	569,939
Capital debt repayment margin	100,677	-84,608	62,560	395,288
Replacement margin	54,240	-136,966	32,128	305,288
Term debt coverage ratio	1.95	0.16	1.84	3.26
Replacement coverage ratio	1.36	0.10	1.31	2.15
Efficiency				
Asset turnover rate (cost)	38.9 %	36.6 %	44.3 %	38.4 %
Operating expense ratio	75.4 %	90.8 %	76.9 %	68.8 %
Depreciation expense ratio	6.4 %	7.6 %	5.6 %	6.1 %
Interest expense ratio	4.1 %	5.7 %	3.6 %	3.5 %
Net farm income ratio	14.4 %	-4.0 %	14.0 %	22.1 %

#### Crop Production and Marketing Summary Minnesota and North Dakota Farm Business Management Education Red River Valley, 2018 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
			40 0070	
Number of farms	235	47	47	47
Acreage Summary				
Total acres owned	450	357	351	784
Total crop acres	1,988	1,832	1,499	3,456
Crop acres owned	388	340	308	616
Crop acres cash rented	1,565	1,481	1,145	2,811
Crop acres share rented	34	11	47	29
Total pasture acres	1	4	-	-
Percent crop acres owned	20 %	19 %	21 %	18 %
Mach invest/crop acre cost	363	369	295	381
Mach invest/crop acre market	455	481	395	470
Average Price Received (Cash Sales	Only)			
Soybeans per bushel	8.74	7.99	8.93	9.00
Wheat, Spring per bushel	5.73	5.62	5.51	5.81
Corn per bushel	3.16	3.18	3.07	3.18
Soybeans Seed per bushel	10.36	-	-	10.67
Beans, Navy per cwt	23.98	-	-	-
Beans, Pinto per cwt	24.34	-	-	-
Beans, Black Turtle per cwt	26.45	-	-	-
Soybeans, Food per bushel	12.05	-	-	-
Sunflowers per cwt	19.22	-	-	-
Barley per bushel	4.64	-	-	-
Average Yield Per Acre				
Soybeans (bushel)	45.28	42.69	44.49	45.67
Wheat, Spring (bushel)	64.31	60.39	64.75	66.96
Corn (bushel)	188.95	181.54	187.55	192.20
Sugar Beets (ton)	28.02	27.49	28.96	29.92
Soybeans Seed (bushel)	45.85	47.78	-	44.49
Soybeans, Food (bushel)	36.80	-	-	35.73
Beans, Navy (cwt)	17.50	-	-	-
Barley (bushel)	78.57	-	-	-
Beans, Black Turtle (cwt)	19.37	-	-	-
Hay, Alfalfa (ton)	3.16	-	-	-
Sunflowers (cwt)	23.02	-	-	-
Beans, Pinto (cwt)	21.95	-	-	-

#### Operator and Labor Information Minnesota and North Dakota Farm Business Management Education Red River Valley, 2018 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	235	47	47	47
Operator Information				
Average number of operators	1.1	1.1	1.1	1.4
Average age of operators	47.0	51.7	40.6	49.0
Average number of years farming	23.2	27.0	17.0	27.5
Results Per Operator				
Working capital	360,822	84,120	235,314	795,852
Total assets (market)	4,079,704	3,200,937	2,970,488	6,438,424
Total liabilities	1,530,069	1,436,218	1,095,595	2,264,332
Net worth (market)	2,549,635	1,764,720	1,874,893	4,174,092
Net worth excl deferred liabs	2,847,463	2,036,050	2,094,115	4,693,673
Gross farm income	1,077,439	817,649	821,774	1,713,623
Total farm expense	925,379	850,896	707,963	1,343,850
Net farm income from operations	152,060	-33,246	113,811	369,773
Net nonfarm income	25,842	26,339	29,680	23,628
Family living & tax withdrawals	83,837	62,730	73,239	115,731
Total acres owned	402.6	317.1	333.6	566.7
Total crop acres	1,777.6	1,626.4	1,423.6	2,499.0
Crop acres owned	347.3	301.9	292.1	445.4
Crop acres cash rented	1,399.6	1,314.7	1,087.1	2,032.9
Crop acres share rented	30.7	9.9	44.4	20.7
Total pasture acres	1.1	3.4	-	-
Labor Analysis				
Number of farms	235	47	47	47
Total unpaid labor hours	1,779	1,540	1,633	2,526
Total hired labor hours	2,440	2,681	2,501	4,486
Total labor hours per farm	4,218	4,221	4,134	7,012
Unpaid hours per operator	1,590	1,367	1,551	1,826

#### Nonfarm Summary Minnesota and North Dakota Farm Business Management Education Red River Valley, 2018 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	235	47	47	47
	200			
Nonfarm Income				
Personal wages & salary	18,787	13,108	28,574	10,915
Net nonfarm business income	1,256	769	1,260	1,533
Personal rental income	714	1,911	-	348
Personal interest income	163	115	279	164
Personal cash dividends	10	4	2	0
Tax refunds	1,509	1,138	425	3,905
Other nonfarm income	6,461	12,626	718	15,811
Total nonfarm income	28,899	29,673	31,258	32,676
Gifts and inheritances	7,603	7,279	751	11,879

#### Financial Summary Minnesota and North Dakota Farm Business Management Education Red River Valley, 2018 (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	235	7	19	42	75	55	37
Income Statement							
Gross cash farm income	1,126,590	63,895	174,976	354.721	756,184	1,364,264	3,090,003
Total cash farm expense	956,634	59,653	146,238	311,318	634,460	1,169,350	2,611,858
Net cash farm income	169,956	4,242	28,738	43,403	121,724	194,914	478,145
Inventory change	77,458	28,407	24,291	62,362	58,718	116,862	110,589
Depreciation	-77,365	-4,417	-6,786	-27,827	-58,880	-102,358	-183,962
Net farm income from operations	170,048	28,232	46,243	77,938	121,562	209,419	404,773
Gain or loss on capital sales	3,226	-	188	9,122	2,683	1,734	2,023
Average net farm income	173,275	28,232	46,431	87,061	124,245	211,153	406,795
Median net farm income	111,008	32,634	46,065	87,157	121,231	163,119	352,791
Profitability (cost)							
Rate of return on assets	4.7 %	11.3 %	7.9 %	5.0 %	4.5 %	4.6 %	4.6 %
Rate of return on equity	5.1 %	27.3 %	9.8 %	5.6 %	4.7 %	5.1 %	5.0 %
Operating profit margin	12.0 %	27.3 %	14.1 %	12.9 %	12.0 %	12.6 %	11.2 %
Asset turnover rate	38.9 %	41.5 %	56.3 %	38.5 %	37.1 %	36.7 %	41.2 %
Liquidity & Repayment (end of year)							
Current assets	976,910	65,622	115,142	338,543	661,063	1,242,800	2,561,469
Current liabilities	573,404	34,701	55,187	152,615	375,570	777,428	1,516,820
Current ratio	1.70	1.89	2.09	2.22	1.76	1.60	1.69
Working capital	403,506	30,921	59,955	185,928	285,493	465,371	1,044,649
Change in working capital	52,192	12,149	18,370	45,565	53,112	54,059	80,016
Working capital to gross inc	33.5 %	33.1 %	30.0 %	44.4 % 2.37	34.9 %	31.5 %	32.6 %
Term debt coverage ratio	1.95 1.36	4.18 2.98	4.32 2.61	1.69	1.84 1.23	1.89 1.25	1.93 1.44
Replacement coverage ratio Term debt to EBITDA	2.24	2.98	0.88	2.11	2.24	2.20	2.35
TermdebildEbirbA	2.24	2.47	0.00	2.11	2.24	2.20	2.55
Solvency (end of year at cost)		_					
Number of farms	235	7	19	42	75	55	37
Total assets	3,504,757	402,663	555,988	1,458,780	2,594,574	4,417,808	8,416,060
Total liabilities	1,378,013	254,508	256,252	497,311	976,529	1,749,194	3,428,385
Net worth	2,126,744	148,155	299,736	961,469	1,618,045	2,668,614	4,987,674
Net worth change	109,024 41 %	20,263 71 %	49,581 39 %	68,287	71,224	117,865	266,063
Farm debt to asset ratio Total debt to asset ratio	39 %	63 %	39 % 46 %	37 % 34 %	40 % 38 %	41 % 40 %	42 % 41 %
Change in earned net worth %	5 %	16 %	20 %	8 %	5 %	40 %	6 %
Change in earlied het worth 76	5 78	10 78	20 /8	0 /0	5 %	5 78	0 78
Solvency (end of year at market) Number of farms	235	7	19	42	75	55	37
Total assets	4,562,325	499,723	772,725	1,968,034	3,526,076	5,692,022	10,643,030
Total liabilities	1,711,073	261,493	296,247	602,603	1,165,535	2,190,615	4,363,098
Net worth	2,851,252	238,230	476,478	1,365,431	2,360,541	3,501,406	6,279,933
Total net worth change	137,648	35,125	66,824	114,323	99,987	130,809	306,397
Farm debt to asset ratio	39 %	59 %	35 %	34 %	35 %	40 %	42 %
Total debt to asset ratio	38 %	52 %	38 %	31 %	33 %	38 %	41 %
Change in total net worth %	5 %	17 %	16 %	9 %	4 %	4 %	5 %
Nonfarm Information Net nonfarm income	28,899	23,843	31,753	33,211	34,064	16,887	30,886
	·	·		-			-
Crop Acres							
Total crop acres	1,988	192	364	826	1,456	2,628	4,606
Total crop acres owned	388	63	62	186	312	540	776
Total crop acres cash rented	1,565	130	301	573	1,115	2,054	3,798
Total crop acres share rented	34	-	-	67	29	34	32
Machinery value per crop acre	363	141	178	302	384	372	365

#### Financial Summary Minnesota and North Dakota Farm Business Management Education Red River Valley, 2018 (Farms Sorted By Age of Operator)

	Avg. Of All Farms	Less Than 31	31 - 40	41 - 50	51 - 60	Over 60
Number of farms	235	29	55	43	64	44
Income Statement						
Gross cash farm income	1,126,590	484,228	926,118	1,214,090	1,503,164	1,167,297
Total cash farm expense	956,634	451,363	785,932	1,051,412	1,285,389	932,216
Net cash farm income	169,956	32,865	140,185	162,679	217,775	235,081
Inventory change	77,458	84,938	70,357	177,553	25,204	59,590
Depreciation	-77,365	-17,026	-59,054	-83,684 256,548	-101,004	-99,465 195,206
Net farm income from operations Gain or loss on capital sales	170,048 3,226	100,777 201	151,488 10,208	250,546	141,975 1,893	1,527
Average net farm income	173,275	100.978	161,697	256,606	143,868	196,733
Median net farm income	111,008	75,741	98,204	157,020	128,191	149,523
Profitability (cost)						
Rate of return on assets	4.7 %	8.4 %	6.9 %	6.2 %	2.8 %	4.0 %
Rate of return on equity	5.1 %	11.4 %	9.5 %	8.2 %	2.0 %	4.0 %
Operating profit margin	12.0 %	15.1 %	13.2 %	15.8 %	7.4 %	13.6 %
Asset turnover rate	38.9 %	56.0 %	52.0 %	39.3 %	37.8 %	29.6 %
Liquidity & Repayment (end of year)	976,910	274 406	674 944	1 010 974	1 010 000	1 245 420
Current assets Current liabilities	573,404	371,496 214,482	624,811 418,384	1,210,874 704,812	1,212,023 803,213	1,245,429 541,053
Current ratio	1.70	1.73	1.49	1.72	1.51	2.30
Working capital	403.506	157,015	206.427	506,061	408.810	704,377
Change in working capital	52,192	48,282	61,805	79,824	17,075	66,825
Working capital to gross inc	33.5 %	27.7 %	20.4 %	36.6 %	26.8 %	57.7 %
Term debt coverage ratio	1.95	2.60	2.17	2.58	1.32	2.16
Replacement coverage ratio Term debt to EBITDA	1.36 2.24	2.29 1.22	1.69 2.35	1.85 1.94	0.91 2.77	1.31 2.07
Solvency (end of year at cost)						
Number of farms	235	29	55	43	64	44
Total assets	3,504,757	1,212,302	2,281,513	4,017,336	4,534,661	4,545,776
Totalliabilities	1,378,013	578,186	1,134,438	1,701,557	1,803,741	1,274,208
Net worth	2,126,744 109,024	634,116 91,731	1,147,075 117,274	2,315,779 187,656	2,730,920 56,263	3,271,569 110,008
Net worth change Farm debt to asset ratio	41 %	45 %	51 %	43 %	42 %	30 %
Total debt to asset ratio	39 %	48 %	50 %	42 %	40 %	28 %
Change in earned net worth %	5 %	17 %	11 %	9 %	2 %	3 %
Solvency (end of year at market)						
Number of farms	235	29	55	43	64	44
Total assets	4,562,325	1,255,953	2,593,720	5,003,333	6,052,979	6,603,070
Total liabilities Net worth	1,711,073 2,851,252	652,212 603,740	1,278,397 1,315,323	2,141,235 2,862,098	2,265,255 3,787,723	1,723,333 4,879,737
Total net worth change	137,648	90.147	165,839	2,802,098	93,942	4,879,737 118,077
Farm debt to asset ratio	39 %	50 %	51 %	44 %	40 %	27 %
Total debt to asset ratio	38 %	52 %	49 %	43 %	37 %	26 %
Change in total net worth %	5 %	18 %	14 %	8 %	3 %	2 %
Nonfarm Information Net nonfarm income	28,899	20,639	23,347	37,901	30,701	29,867
Crop Acres						
Total crop acres	1,988	1,124	1,693	2,190	2,483	2,007
Total crop acres owned	388	87	173	421	555	582
Total crop acres cash rented	1,565	1,037	1,448	1,743	1,894	1,407
Total crop acres share rented Machinery value per crop acre	34	-	71	26	34	19 475
machinery value per crop acre	363	180	291	349	389	475

# **EXPLANATORY NOTES FOR CROPS TABLES**

The "Crop Enterprise Analysis" tables show the average physical production, gross return, direct costs, overhead costs, and net returns per acre. The "Net Return per Acre" is the "Gross Return per Acre" minus the direct and overhead costs. "Net Return" represents the return to the operators and family's unpaid labor, management, and equity. It represents the return to all of the resources which are owned by the farm family and hence, not purchased or paid a wage. Net returns are also calculated after a charge for unpaid operator labor and management and after an allocation of direct government payments. The last section of each crop table contains breakeven yield measures which provide useful standards or goals for the individual managers.

There are potentially three tables for each crop depending on the farmer's tenure on the land. The crop tables may be for (1) owned land, (2) cash rented land, and (3) share rented land. Individual farms may have data in all three tables if all three land tenure categories are represented in that farm business. When there are less than five farms with a particular crop and tenure, that table is not included in the report. Farms may be classified into the low 20%, the mid 20%, or the high 20% on the basis of <u>net return per acre</u>. The classification is done separately for each table, i.e., an individual farm may be in the low 20% for one crop, the high 20% for a second, and the middle 20% for a third crop. When there are less than 25 total farms with any particular crop and farmer's tenure, only overall averages are presented.

Market Facilitation Payments, a 2018 USDA FSA program for commodities directly impacted by retaliatory tariffs, are included under "Other crop income per acre." "Government payments" are ARC and PLC payments which are not associated with specific crop planting.

Several cost items, such as "utilities," "hired labor," and "interest paid," are listed under both "direct" and "overhead" costs because some of these costs are specific to that crop whereas others are general overhead costs of the farm. For example, "Machinery leases" as direct expense refers to machinery leased and used only in that crop enterprise; the most common example is the lease of equipment that is crop specific. However, cost of leasing machinery that is used for the entire farm operation is listed as an overhead cost. Interest payments are likewise divided into those incurred directly for a specific crop and those that are not. "Land Rent" is listed as a direct cost for each crop enterprise on cash rented land. In the case of double cropping, one-half of the rent is charged to each crop.

"Total direct expense per unit" and "Total dir & ovhd exp per unit" are calculated by dividing "Total direct expense per acre" and "Total dir & ovhd expenses per acre," respectively, by "Yield per acre." "With labor & management" is the breakeven yield after direct, overhead and a labor and management charge are considered. "Total exp less govt & oth income" is the breakeven yield after all costs (including a labor and management charge) are reduced by government payments and miscellaneous income.

In the last section of the crop table, "machinery cost per acre" is the sum of fuel, repairs, all custom hire and machinery leases, machinery depreciation and interest on intermediate debt.

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

# Five Year Crop History of Yields and Cost of Production Red River Valley Farm Business Management Education



#### Barley on Cash Rent

	Avg. Of <u>All Farms</u>
Number of farms	9
Acres	220.33
Yield per acre (bu.)	78.72
Operators share of yield %	100.00
Value per bu.	4.55
Total product return per acre	357.83
Other crop income per acre	8.75
Gross return per acre	366.58
Direct Expenses	10.00
Seed and plants	16.39
Fertilizer	55.87
Crop chemicals Crop insurance	29.68 17.14
Fuel & oil	15.33
Repairs	20.88
Custom hire	3.92
Land rent	112.01
Machinery leases	6.38
Operating interest	6.78
Miscellaneous	3.13
Total direct expenses per acre	287.50
Return over direct exp per acre	79.08
Overhead Expenses	
Hired labor	14.17
Machinery leases	0.69
Farm insurance	5.46
Utilities	4.25
Dues & professional fees	3.45
Interest	3.78
Mach & bldg depreciation	23.01
Miscellaneous	3.12
Total overhead expenses per acre	57.92
Total dir & ovhd expenses per acre	345.42
Net return per acre	21.16
Government payments	3.70
Net return with govt pmts	24.87
Labor & management charge	24.67
Net return over lbr & mgt	0.19
Cost of Production	0.05
Total direct expense per bu.	3.65
Total dir & ovhd exp per bu.	4.39
Less govt & other income With labor & management	4.23 4.54
Net value per unit	4.55
Machinery cost per acre	71.99
Est. labor hours per acre	1.35
	1.00

#### Beans, Black Turtle on Cash Rent

	Avg. Of <u>All Farms</u>
Number of farms	5
Acres Yield per acre (cwt.) Operators share of yield % Value per cwt. Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	329.72 20.15 100.00 25.48 513.31 2.07 4.64 520.01
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Land rent Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	51.32 41.38 62.73 23.27 22.29 39.52 118.14 1.10 8.10 4.70 372.55 147.47
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	$\begin{array}{c} 21.03 \\ 1.70 \\ 6.89 \\ 3.54 \\ 5.10 \\ 4.80 \\ 37.97 \\ 1.67 \\ 82.69 \\ 455.23 \\ 64.78 \end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	64.78 38.38 26.40
<b>Cost of Production</b> Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	18.49 22.60 22.26 24.17
Net value per unit Machinery cost per acre Est. labor hours per acre	25.48 101.98 2.24

#### Beans, Navy on Cash Rent

	Avg. Of <u>All Farms</u>
Number of farms	9
Acres Yield per acre (cwt.) Operators share of yield % Value per cwt. Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	273.52 17.39 100.00 23.37 406.40 9.96 0.17 416.53
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Hired labor Land rent Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	52.62 36.87 62.05 33.42 20.90 33.28 6.69 22.28 132.89 15.31 0.92 417.22 -0.69
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	7.68 12.57 1.65 7.18 6.58 3.50 4.90 23.43 22.23 89.72 506.93 -90.41
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	-90.41 23.63 -114.03
<b>Cost of Production</b> Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	23.99 29.15 28.57 29.93
Net value per unit Machinery cost per acre Est. labor hours per acre	23.37 101.32 1.85

#### Corn on Owned Land

	Avg. Of All Farms	Low 20%	<u> </u>	High 20%
Number of farms	70	14	14	14
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	$\begin{array}{c} 257.29 \\ 189.86 \\ 100.00 \\ 3.34 \\ 633.82 \\ 4.77 \\ 4.20 \\ 6.43 \\ 649.23 \end{array}$	232.60 168.63 100.00 3.30 557.02 - 2.03 5.11 564.16	213.66 187.82 100.00 3.34 626.82 0.21 16.57 643.60	213.66 206.67 100.00 3.45 712.03 11.68 4.26 6.75 734.72
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	$\begin{array}{c} 93.07\\ 108.83\\ 26.35\\ 21.38\\ 16.88\\ 1.45\\ 28.32\\ 44.83\\ 7.46\\ 5.80\\ 4.39\\ 1.06\\ 15.66\\ 3.17\\ 378.62\\ 270.61\end{array}$	89.00 112.09 22.84 24.53 10.91 32.00 51.32 11.50 23.26 1.93 0.09 18.24 1.41 399.12 165.04	$\begin{array}{c} 103.95\\ 109.16\\ 29.90\\ 20.14\\ 11.63\\ 1.12\\ 25.53\\ 41.02\\ 1.54\\ 0.77\\ 11.20\\ 0.67\\ 15.60\\ 5.71\\ 377.94\\ 265.66\end{array}$	88.40 109.56 24.65 23.02 18.92 0.00 26.08 38.65 7.67 0.57 0.57 0.01 11.72 3.62 352.86 381.86
Overhead Expenses Custom hire 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	$\begin{array}{c} 0.63\\ 25.08\\ 6.03\\ 2.80\\ 23.62\\ 8.48\\ 7.91\\ 4.30\\ 49.84\\ 50.43\\ 10.14\\ 189.25\\ 567.87\\ 81.36\end{array}$	$\begin{array}{c} 0.38\\ 11.43\\ 2.81\\ 0.20\\ 21.53\\ 7.07\\ 4.25\\ 6.55\\ 31.42\\ 36.01\\ 33.70\\ 155.35\\ 554.46\\ 9.69\end{array}$	20.02 3.86 0.39 22.33 8.07 6.54 4.31 45.77 64.62 4.76 180.68 558.62 84.98	$\begin{array}{c} 1.65\\ 28.74\\ 7.24\\ 0.94\\ 22.68\\ 7.76\\ 7.00\\ 5.47\\ 49.62\\ 52.73\\ 7.29\\ 191.12\\ 543.98\\ 190.74\end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	1.57 82.93 41.22 41.71	3.43 13.12 31.44 -18.32	1.52 86.51 56.94 29.57	0.83 191.57 39.02 152.55
<b>Cost of Production</b> Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	1.99 2.99 2.90 3.12	2.37 3.29 3.23 3.41	2.01 2.97 2.88 3.18	1.71 2.63 2.52 2.71
Net value per unit Machinery cost per acre Est. labor hours per acre	3.36 140.96 2.35	3.30 135.11 2.37	3.34 146.74 2.56	3.50 132.98 2.09

#### Corn on Cash Rent

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	128	25	25	26
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	$589.77 \\ 188.96 \\ 100.00 \\ 3.36 \\ 634.24 \\ 3.10 \\ 2.59 \\ 6.58 \\ 646.51 \\ $	620.77 184.58 100.00 3.33 614.45 0.50 3.28 618.23	677.96 188.29 100.00 3.34 629.32 2.88 1.59 7.79 641.59	$\begin{array}{c} 617.63\\ 196.77\\ 100.00\\ 3.43\\ 675.36\\ 7.35\\ 5.18\\ 6.60\\ 694.49\end{array}$
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drying expense Storage Fuel & oil Repairs Custom hire Hired labor Land rent Machinery leases Marketing Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	$\begin{array}{c} 90.81\\ 105.85\\ 24.28\\ 18.57\\ 17.40\\ 1.77\\ 25.55\\ 39.68\\ 6.73\\ 3.45\\ 143.79\\ 3.81\\ 0.45\\ 14.04\\ 1.88\\ 498.05\\ 148.47\end{array}$	$\begin{array}{c} 90.00\\ 101.74\\ 23.67\\ 17.23\\ 25.58\\ 0.94\\ 24.57\\ 39.14\\ 18.88\\ 11.09\\ 186.77\\ 2.64\\ 0.83\\ 19.49\\ 1.10\\ 563.67\\ 54.56\end{array}$	90.35 109.10 25.95 19.51 21.72 2.54 25.83 41.16 3.29 139.78 1.82 0.17 13.67 0.44 495.31 146.28	$\begin{array}{c} 87.46\\ 105.38\\ 21.23\\ 18.21\\ 14.17\\ 0.00\\ 26.64\\ 38.74\\ 2.14\\ 0.93\\ 124.97\\ 0.29\\ 0.01\\ 8.30\\ 1.18\\ 449.66\\ 244.84\end{array}$
Overhead Expenses Custom hire 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	$\begin{array}{c} 0.66\\ 21.44\\ 10.27\\ 2.82\\ 6.90\\ 5.99\\ 3.91\\ 4.56\\ 41.29\\ 6.48\\ 104.32\\ 602.37\\ 44.15\end{array}$	$\begin{array}{c} 10.83\\ 12.45\\ 8.41\\ 6.83\\ 5.56\\ 3.43\\ 3.78\\ 32.26\\ 11.30\\ 94.86\\ 658.53\\ -40.30\end{array}$	21.15 9.53 1.49 5.70 4.88 5.69 4.58 44.28 4.99 102.28 597.59 44.00	$\begin{array}{c} 0.25\\ 27.30\\ 8.89\\ 1.09\\ 7.25\\ 4.70\\ 3.72\\ 4.60\\ 42.95\\ 4.83\\ 105.58\\ 555.24\\ 139.25\end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	1.69 45.84 38.96 6.88	1.66 -38.64 28.19 -66.83	1.37 45.36 40.37 5.00	1.85 141.10 39.63 101.47
<b>Cost of Production</b> Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	2.64 3.19 3.11 3.32	3.05 3.57 3.54 3.69	2.63 3.17 3.10 3.32	2.29 2.82 2.72 2.92
Net value per unit Machinery cost per acre Est. labor hours per acre	3.37 129.10 2.01	3.33 132.08 1.93	3.36 125.25 1.88	3.47 121.47 1.97

#### Hay, Alfalfa on Cash Rent

	Avg. Of All Farms
Number of farms	6
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	73.67 3.01 100.00 104.12 313.53 9.11 322.64
Direct Expenses Fertilizer Crop chemicals Fuel & oil Repairs Hired labor Land rent Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	18.22 3.26 14.80 42.98 1.29 126.59 4.19 1.83 213.15 109.50
Overhead Expenses Hired labor Machinery leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	30.09 2.79 8.52 5.57 2.74 2.66 39.01 5.11 96.48 309.63 13.01
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	4.26 17.27 38.03 -20.76
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management Net value per unit Machinery cost per acre Est. labor hours per acre	70.78 102.82 98.38 111.01 104.12 97.90 2.09

#### Soybeans on Owned Land

	Avg. Of <u>All Farms</u>	Low 20%	<u> </u>	High 20%
Number of farms	111	22	22	23
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	$\begin{array}{r} 276.41 \\ 46.28 \\ 100.00 \\ 8.35 \\ 386.53 \\ 1.55 \\ 9.49 \\ 75.95 \\ 473.52 \end{array}$	289.90 35.96 100.00 8.15 293.17 - 14.64 53.05 360.87	340.35 47.59 100.00 8.35 397.46 5.58 77.30 480.33	242.82 53.40 100.00 8.70 464.45 4.43 11.18 99.04 579.10
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Storage Fuel & oil Repairs Custom hire Hired labor Machinery leases Marketing Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	$\begin{array}{c} 63.53\\ 9.21\\ 34.22\\ 19.49\\ 0.60\\ 15.21\\ 24.52\\ 4.58\\ 1.48\\ 5.85\\ 0.61\\ 7.06\\ 2.59\\ 188.94\\ 284.58\end{array}$	63.34 17.51 31.28 20.02 0.73 16.65 22.73 4.10 5.24 2.12 0.23 5.27 1.48 190.71 170.15	58.76 6.16 36.97 20.94 0.08 14.07 24.23 7.09 0.72 15.59 0.13 8.71 4.78 198.22 282.11	59.74 6.34 33.43 17.29 15.77 24.46 2.80 0.11 0.38 0.11 7.47 2.42 170.34 408.75
Overhead Expenses Custom hire 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	$\begin{array}{c} 0.36\\ 14.22\\ 2.54\\ 0.95\\ 22.01\\ 7.57\\ 5.44\\ 3.62\\ 46.15\\ 31.97\\ 3.70\\ 138.52\\ 327.46\\ 146.07\\ \end{array}$	10.14 3.29 0.23 14.55 7.95 6.47 3.08 37.62 32.81 1.78 117.92 308.63 52.23	$\begin{array}{c} 0.08\\ 14.74\\ 0.97\\ 1.69\\ 20.98\\ 7.11\\ 4.80\\ 3.22\\ 36.65\\ 25.26\\ 3.58\\ 119.10\\ 317.32\\ 163.01 \end{array}$	$\begin{array}{c} 1.74\\ 13.25\\ 4.71\\ 0.64\\ 25.71\\ 8.00\\ 5.26\\ 5.26\\ 47.37\\ 32.51\\ 4.85\\ 149.31\\ 319.65\\ 259.44\end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	2.83 148.90 28.25 120.65	3.18 55.41 26.66 28.75	2.55 165.56 26.93 138.63	1.38 260.82 30.40 230.42
<b>Cost of Production</b> Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	4.08 7.08 5.13 5.75	5.30 8.58 6.61 7.35	4.17 6.67 4.87 5.44	3.19 5.99 3.81 4.38
Net value per unit Machinery cost per acre Est. labor hours per acre	8.39 84.44 1.42	8.15 81.15 1.28	8.35 84.76 1.52	8.78 80.58 1.19

#### Soybeans on Cash Rent

	Avg. Of <u>All Farms</u>	Low 20%	<u> </u>	<u> </u>
Number of farms	175	35	35	35
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	678.89 45.26 100.00 8.40 380.01 2.36 10.11 74.13 466.61	704.96 38.19 100.00 8.27 315.94 0.10 16.63 60.63 393.30	772.73 46.57 100.00 8.24 383.70 7.04 10.45 71.93 473.12	705.65 50.45 100.00 8.73 440.61 13.31 86.53 540.46
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Storage 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	$59.45 \\ 10.77 \\ 32.40 \\ 18.98 \\ 0.47 \\ 14.65 \\ 22.82 \\ 4.20 \\ 0.72 \\ 127.65 \\ 3.95 \\ 6.51 \\ 1.91 \\ 304.48 \\ 162.12$	$\begin{array}{c} 60.79\\ 12.86\\ 32.30\\ 20.74\\ 1.42\\ 14.38\\ 24.24\\ 5.72\\ 2.10\\ 144.04\\ 2.38\\ 6.36\\ 1.11\\ 328.45\\ 64.86\end{array}$	$58.73 \\ 8.22 \\ 33.22 \\ 19.46 \\ 0.19 \\ 14.68 \\ 19.70 \\ 3.89 \\ 1.00 \\ 133.47 \\ 10.49 \\ 7.86 \\ 3.15 \\ 314.05 \\ 159.07 \\ 10.41 \\ 159.07 \\ 10.41 $	54.14 9.99 29.09 18.99 0.16 13.40 22.39 2.48 116.70 0.40 5.70 1.18 274.62 265.84
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	$\begin{array}{c} 13.06 \\ 4.42 \\ 1.32 \\ 5.82 \\ 3.92 \\ 3.61 \\ 2.81 \\ 25.35 \\ 3.10 \\ 63.42 \\ 367.90 \\ 98.70 \end{array}$	$\begin{array}{r} 8.62 \\ 4.30 \\ 2.00 \\ 4.52 \\ 3.60 \\ 2.47 \\ 3.06 \\ 22.89 \\ 1.98 \\ 53.45 \\ 381.90 \\ 11.41 \end{array}$	$\begin{array}{c} 13.75 \\ 4.00 \\ 1.01 \\ 5.13 \\ 3.18 \\ 3.89 \\ 2.21 \\ 20.16 \\ 3.83 \\ 57.15 \\ 371.20 \\ 101.92 \end{array}$	$\begin{array}{c} 16.01 \\ 7.06 \\ 0.57 \\ 6.04 \\ 3.71 \\ 4.60 \\ 2.61 \\ 27.81 \\ 2.87 \\ 71.29 \\ 345.91 \\ 194.55 \end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	2.24 100.95 25.11 75.84	2.20 13.61 22.00 -8.39	2.68 104.60 23.33 81.26	2.62 197.17 26.43 170.74
<b>Cost of Production</b> Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	6.73 8.13 6.17 6.72	8.60 10.00 7.92 8.49	6.74 7.97 5.99 6.49	5.44 6.86 4.83 5.35
Net value per unit Machinery cost per acre Est. labor hours per acre	8.45 76.35 1.35	8.28 74.11 1.28	8.39 73.03 1.34	8.73 74.90 1.43

#### Soybeans Seed on Owned Land

	Avg. Of <u>All Farms</u>
Number of farms	8
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Hedging gains/losses per acre Other crop income per acre Gross return per acre	178.19 48.92 100.00 9.12 446.42 15.09 79.08 540.58
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Machinery leases Marketing Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	$\begin{array}{c} 64.58\\ 19.35\\ 38.01\\ 18.55\\ 20.75\\ 33.82\\ 2.43\\ 3.53\\ 1.64\\ 9.23\\ 2.51\\ 214.42\\ 326.16\end{array}$
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	$\begin{array}{c} 22.20\\ 4.17\\ 2.31\\ 17.60\\ 6.66\\ 4.64\\ 5.08\\ 68.60\\ 33.50\\ 4.66\\ 169.42\\ 383.84\\ 156.74\end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	5.75 162.49 32.72 129.78
<b>Cost of Production</b> Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	4.38 7.85 5.80 6.47
Net value per unit Machinery cost per acre Est. labor hours per acre	9.43 94.51 1.93

#### Soybeans Seed on Cash Rent

	Avg. Of <u>All Farms</u>
Number of farms	18
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	492.00 45.34 100.00 9.74 441.53 14.47 4.96 74.31 535.26
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	$\begin{array}{c} 60.99\\ 18.73\\ 35.29\\ 17.65\\ 16.60\\ 27.97\\ 3.10\\ 0.69\\ 127.83\\ 2.64\\ 0.63\\ 6.53\\ 3.73\\ 322.38\\ 212.88\end{array}$
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	$\begin{array}{c} 16.74 \\ 1.30 \\ 0.81 \\ 5.69 \\ 3.50 \\ 3.57 \\ 2.36 \\ 30.50 \\ 3.07 \\ 67.54 \\ 389.92 \\ 145.34 \end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	4.63 149.97 36.09 113.89
<b>Cost of Production</b> Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	7.11 8.60 6.43 7.23
Net value per unit Machinery cost per acre Est. labor hours per acre	10.06 81.06 1.72

### Soybeans, Food on Owned Land

	Avg. Of <u>All Farms</u>
Number of farms	5
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	253.15 34.16 100.00 12.63 431.49 7.19 56.25 494.93
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Hired labor Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	$\begin{array}{c} 29.40 \\ 5.74 \\ 35.79 \\ 15.18 \\ 14.31 \\ 18.79 \\ 3.88 \\ 3.16 \\ 10.97 \\ 3.07 \\ 140.29 \\ 354.64 \end{array}$
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	$\begin{array}{r} 9.27\\ 5.26\\ 6.28\\ 25.07\\ 5.56\\ 4.81\\ 2.30\\ 103.85\\ 19.73\\ 2.81\\ 184.95\\ 325.24\\ 169.68\end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	2.74 172.43 16.56 155.87
<b>Cost of Production</b> Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	4.11 9.52 7.58 8.07
Net value per unit Machinery cost per acre Est. labor hours per acre	12.63 63.29 0.94

#### Soybeans, Food on Cash Rent

	Avg. Of <u>All Farms</u>
Number of farms	13
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	380.19 37.48 100.00 12.02 450.39 2.38 63.26 516.04
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	$\begin{array}{c} 24.37\\ 7.82\\ 44.27\\ 17.80\\ 15.64\\ 27.43\\ 3.95\\ 0.95\\ 158.39\\ 0.73\\ 9.34\\ 2.69\\ 313.38\\ 202.66\end{array}$
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	$\begin{array}{c} 11.83\\ 3.63\\ 3.38\\ 7.20\\ 4.89\\ 4.44\\ 3.06\\ 30.20\\ 3.37\\ 71.99\\ 385.37\\ 130.66\end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	3.24 133.90 27.64 106.27
<b>Cost of Production</b> Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	8.36 10.28 8.44 9.18
Net value per unit Machinery cost per acre Est. labor hours per acre	12.02 81.97 1.08

## Sugar Beets on Owned Land, Excluding Joint Venture

	Avg. Of <u>All Farms</u>	Low 20%	<u> </u>	<u> </u>
Number of farms	31	6	6	7
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	159.24 25.74 100.00 39.59 1,019.01 54.07 6.87 1,079.96	180.20 19.55 100.00 37.97 742.48 3.07 22.97 768.52	100.40 29.97 100.00 39.98 1,198.20 1.24 1,199.44	143.90 28.44 100.00 43.93 1,249.39 8.29 0.82 1,258.51
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Hired labor Machinery leases Hauling and trucking Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	$\begin{array}{c} 221.93\\ 79.83\\ 113.34\\ 30.86\\ 56.63\\ 93.27\\ 9.67\\ 36.28\\ 5.23\\ 12.44\\ 19.33\\ 3.15\\ 681.96\\ 398.00\\ \end{array}$	188.07 70.18 121.70 33.49 52.24 68.87 16.32 31.22 15.50 - - 15.45 1.17 614.20 154.31	$\begin{array}{c} 257.46\\ 78.44\\ 91.97\\ 24.29\\ 58.15\\ 119.84\\ 11.31\\ 40.78\\ 0.15\\ 12.61\\ 26.69\\ 6.51\\ 728.20\\ 471.24\end{array}$	220.38 73.13 84.99 28.97 54.10 75.18 8.30 44.28 23.49 12.46 0.97 626.26 632.25
Overhead Expenses Custom hire 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	0.14 56.83 15.20 3.45 25.91 18.96 16.90 6.82 61.35 97.33 7.89 310.78 992.74 87.22	0.65 76.63 15.24 1.96 27.02 7.29 9.47 2.37 45.07 68.49 3.46 257.66 871.87 -103.35	38.30 14.03 10.75 24.20 24.50 10.93 9.24 60.89 109.42 8.28 310.54 1,038.74 160.70	24.79 12.64 3.28 20.36 25.05 12.05 11.22 62.77 91.08 5.16 268.40 894.66 363.85
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	2.73 89.95 92.13 -2.18	1.45 -101.89 95.11 -197.01	3.67 164.37 72.23 92.14	3.51 367.36 116.26 251.10
<b>Cost of Production</b> Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	26.49 38.57 36.09 39.67	31.41 44.59 43.18 48.04	24.30 34.66 34.49 36.90	22.02 31.45 31.01 35.10
Net value per unit Machinery cost per acre Est. labor hours per acre	39.59 282.08 5.23	37.97 231.76 4.33	39.98 313.26 4.68	43.93 245.28 4.69

	Avg. Of <u>All Farms</u>
Number of farms	18
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	$\begin{array}{r} 129.91\\ 31.42\\ 100.00\\ 36.36\\ 1,142.50\\ 1.34\\ 16.60\\ 1,160.44\end{array}$
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Hired labor Stock/quota lease Machinery leases Hauling and trucking Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	$\begin{array}{c} 223.76 \\ 78.10 \\ 107.55 \\ 31.37 \\ 58.71 \\ 85.11 \\ 21.58 \\ 33.62 \\ 162.09 \\ 3.73 \\ 15.92 \\ 34.46 \\ 4.65 \\ 860.63 \\ 299.81 \end{array}$
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	41.93 13.56 7.82 24.43 12.07 12.52 5.84 92.06 108.83 5.89 324.94 1,185.58 -25.13
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	1.55 -23.59 91.98 -115.57
<b>Cost of Production</b> Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	27.39 37.74 37.11 40.04
Net value per unit Machinery cost per acre Est. labor hours per acre	36.36 299.38 4.79

# Sugar Beets on Owned Land, Including Joint Venture

## Sugar Beets on Cash Rent, Excluding Joint Venture

	Avg. Of <u>All Farms</u>	<u>Low 20%</u>	<u>40 - 60%</u>	High 20%
Number of farms	63	12	12	13
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	252.18 28.60 100.00 38.13 1,090.47 8.30 7.23 1,106.00	262.46 24.96 100.00 28.70 716.51 19.95 17.65 754.11	241.60 30.46 100.00 38.95 1,186.53 - 5.97 1,192.49	314.11 31.89 100.00 42.63 1,359.53 3.98 1,363.52
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Hired labor Land rent Machinery leases Hauling and trucking Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	$\begin{array}{c} 215.92\\ 75.05\\ 110.39\\ 26.97\\ 59.75\\ 99.21\\ 12.20\\ 37.02\\ 123.53\\ 3.99\\ 19.48\\ 18.78\\ 3.85\\ 806.14\\ 299.86\end{array}$	200.03 84.49 126.22 37.12 62.23 111.18 6.14 10.41 145.23 2.20 - - 31.73 0.71 817.68 -63.58	$\begin{array}{c} 243.14\\ 71.62\\ 103.58\\ 25.26\\ 60.19\\ 100.95\\ 24.64\\ 47.32\\ 133.04\\ 1.72\\ 26.68\\ 29.77\\ 4.56\\ 872.47\\ 320.02 \end{array}$	$\begin{array}{c} 211.99\\ 69.16\\ 108.60\\ 11.52\\ 60.76\\ 87.45\\ 12.32\\ 41.82\\ 102.53\\ 0.80\\ 22.41\\ 6.75\\ 2.61\\ 738.71\\ 624.81\end{array}$
Overhead Expenses Custom hire 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	$\begin{array}{c} 1.57\\ 60.31\\ 10.30\\ 1.94\\ 15.36\\ 12.20\\ 9.73\\ 8.31\\ 96.44\\ 15.00\\ 231.17\\ 1,037.31\\ 68.69\end{array}$	$\begin{array}{c} 7.71\\ 61.69\\ 15.92\\ 0.21\\ 10.16\\ 10.18\\ 9.93\\ 3.47\\ 80.53\\ 13.50\\ 213.29\\ 1,030.97\\ -276.86\end{array}$	58.50 8.34 2.17 13.83 12.00 9.15 13.97 89.19 30.46 237.62 1,110.10 82.40	63.55 16.37 1.18 20.52 13.42 12.09 5.31 104.54 16.61 253.59 992.30 371.22
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	3.07 71.76 106.72 -34.97	1.11 -275.75 73.37 -349.12	5.02 87.42 92.26 -4.84	4.64 375.86 128.25 247.60
<b>Cost of Production</b> Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	28.19 36.27 35.62 39.35	32.76 41.30 39.75 42.69	28.64 36.44 36.08 39.11	23.16 31.12 30.85 34.87
Net value per unit Machinery cost per acre Est. labor hours per acre	38.13 283.60 5.56	28.70 287.96 4.99	38.95 286.52 5.05	42.63 278.68 6.15

## Sugar Beets on Cash Rent, Including Joint Venture

	Avg. Of <u>All Farms</u>	Low 20%	40 - 60%	<u> </u>
Number of farms	47	9	10	10
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	284.47 27.65 100.00 39.58 1,094.39 6.99 10.71 1,112.10	317.14 20.56 100.00 38.90 799.70 19.05 11.38 830.13	221.33 29.02 100.00 40.84 1,185.17 0.61 2.80 1,188.57	204.98 31.74 100.00 40.42 1,282.80 6.85 17.08 1,306.74
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Hired labor Land rent Stock/quota lease Machinery leases Hauling and trucking Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	$\begin{array}{c} 222.53\\ 75.72\\ 108.31\\ 25.04\\ 56.79\\ 93.28\\ 18.86\\ 39.93\\ 146.50\\ 182.81\\ 2.11\\ 17.86\\ 26.43\\ 4.44\\ 1,020.59\\ 91.50\\ \end{array}$	216.90 73.05 122.67 33.97 60.39 91.67 20.29 35.27 145.86 173.89 0.98 6.10 31.31 2.48 1,014.84 -184.71	$\begin{array}{c} 228.08 \\ 74.96 \\ 116.09 \\ 23.79 \\ 46.81 \\ 71.21 \\ 25.15 \\ 46.43 \\ 148.25 \\ 192.91 \\ 2.69 \\ 42.71 \\ 13.98 \\ 4.01 \\ 1,037.06 \\ 151.50 \end{array}$	$\begin{array}{c} 226.21\\ 82.55\\ 84.74\\ 21.24\\ 56.87\\ 101.98\\ 10.36\\ 34.07\\ 123.02\\ 160.28\\ 3.74\\ 0.40\\ 25.46\\ 7.87\\ 938.81\\ 367.93\\ \end{array}$
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	40.63 18.86 3.36 12.79 9.95 6.94 11.87 85.88 8.86 199.15 1,219.74 -107.64	$\begin{array}{c} 63.25\\ 22.51\\ 2.56\\ 9.83\\ 12.01\\ 3.78\\ 9.69\\ 75.10\\ 23.92\\ 222.64\\ 1,237.49\\ -407.36\end{array}$	$\begin{array}{r} 30.90\\ 27.32\\ 4.06\\ 10.85\\ 12.21\\ 6.89\\ 9.82\\ 71.18\\ 4.25\\ 177.48\\ 1,214.55\\ -25.98\end{array}$	26.82 4.57 8.57 20.25 12.64 12.92 14.10 110.53 5.76 216.18 1,154.99 151.75
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	1.99 -105.65 92.84 -198.48	2.16 -405.20 84.82 -490.02	2.29 -23.69 107.01 -130.70	2.46 154.21 108.63 45.58
<b>Cost of Production</b> Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	36.91 44.11 43.40 46.76	49.36 60.19 58.61 62.74	35.74 41.86 41.66 45.35	29.58 36.39 35.56 38.99
Net value per unit Machinery cost per acre Est. labor hours per acre	39.58 279.29 4.47	38.90 272.69 4.24	40.84 249.35 5.17	40.42 291.32 4.83

## Sunflowers on Cash Rent

	Avg. Of <u>All Farms</u>
Number of farms	5
Acres Yield per acre (cwt.) Operators share of yield % Value per cwt. Total product return per acre Other crop income per acre Gross return per acre	445.83 23.18 100.00 19.19 444.64 6.70 451.34
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Storage Fuel & oil Repairs Custom hire Land rent Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	$\begin{array}{r} 34.89\\ 40.98\\ 39.86\\ 14.56\\ 1.58\\ 19.14\\ 26.27\\ 6.36\\ 118.51\\ 6.72\\ 1.01\\ 309.88\\ 141.47\end{array}$
Overhead Expenses Custom hire 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	$\begin{array}{c} 2.16\\ 9.19\\ 0.22\\ 3.34\\ 6.26\\ 5.34\\ 3.46\\ 5.34\\ 25.58\\ 3.50\\ 64.40\\ 374.28\\ 77.07\end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	2.47 79.54 23.15 56.39
<b>Cost of Production</b> Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	13.37 16.15 15.75 16.75
Net value per unit Machinery cost per acre Est. labor hours per acre	19.19 80.16 1.71

# Wheat, Spring on Owned Land

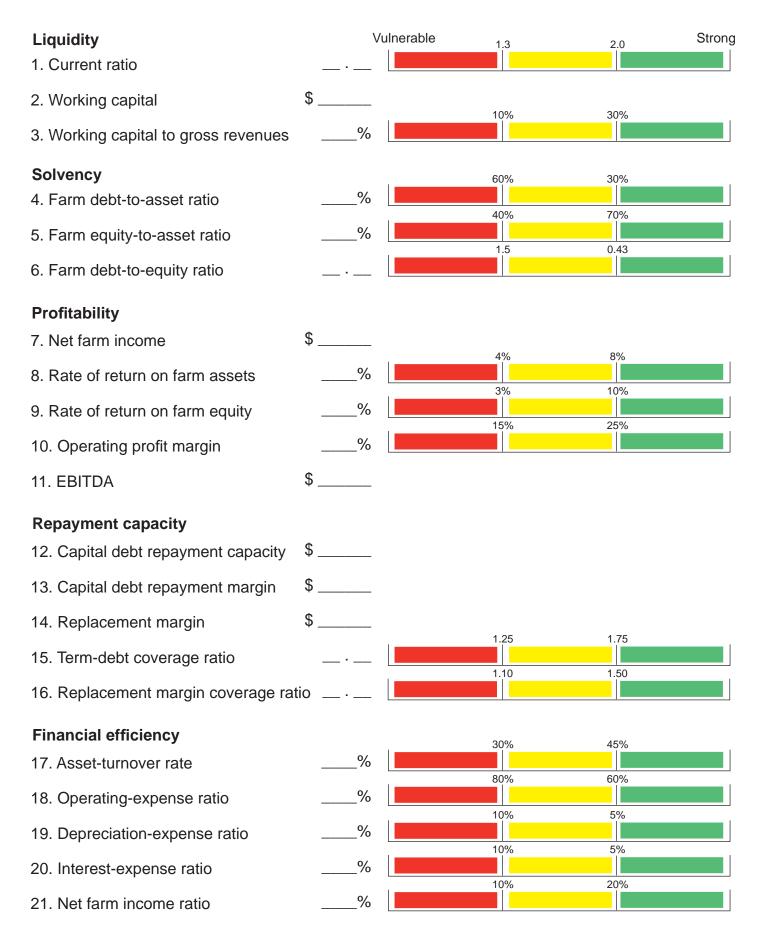
	Avg. Of <u>All Farms</u>	Low 20%	40 - 60%	<u> </u>
Number of farms	75	15	15	15
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Hedging gains/losses per acre Crop insurance per acre Other crop income per acre Gross return per acre	$\begin{array}{c} 244.75\\ 63.74\\ 100.00\\ 5.59\\ 356.17\\ 0.67\\ 6.51\\ 16.54\\ 379.89\end{array}$	256.03 54.96 100.00 5.56 305.68 - 6.30 11.30 323.27	307.98 64.27 100.00 5.56 357.20 - 16.08 13.01 386.30	226.20 72.03 100.00 5.71 411.34 3.46 3.71 29.41 447.93
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Hired labor Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	$\begin{array}{c} 21.00\\ 79.75\\ 33.30\\ 14.55\\ 15.94\\ 25.01\\ 6.42\\ 4.44\\ 1.95\\ 7.09\\ 3.90\\ 213.35\\ 166.53\end{array}$	$19.21 \\ 80.25 \\ 41.55 \\ 16.18 \\ 14.38 \\ 25.74 \\ 3.98 \\ 10.91 \\ 0.24 \\ 6.90 \\ 2.56 \\ 221.91 \\ 101.36 \\$	$\begin{array}{c} 20.25\\ 84.53\\ 35.27\\ 16.15\\ 15.25\\ 24.23\\ 8.61\\ 3.25\\ 0.03\\ 6.19\\ 3.01\\ 216.77\\ 169.52\end{array}$	23.66 80.95 32.97 12.73 16.17 22.94 3.36 2.81 6.18 3.19 204.96 242.97
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	$\begin{array}{c} 13.89\\ 1.85\\ 1.34\\ 20.27\\ 7.56\\ 4.27\\ 3.90\\ 38.79\\ 32.64\\ 4.77\\ 129.28\\ 342.63\\ 37.25\end{array}$	12.79 1.58 0.05 15.00 8.17 5.70 5.10 23.98 40.09 6.77 119.23 341.14 -17.87	$19.47 \\ 0.55 \\ 2.69 \\ 18.16 \\ 8.45 \\ 3.96 \\ 3.79 \\ 30.03 \\ 32.53 \\ 4.01 \\ 123.63 \\ 340.40 \\ 45.89 \\ 19.45 \\ 19.45 \\ 10.45 \\ $	$\begin{array}{r} 9.30 \\ 4.08 \\ 0.87 \\ 24.95 \\ 8.79 \\ 5.08 \\ 4.15 \\ 46.40 \\ 27.63 \\ 2.52 \\ 133.77 \\ 338.72 \\ 109.20 \end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	4.38 41.63 26.84 14.79	6.22 -11.65 27.25 -38.90	5.56 51.45 26.49 24.97	6.65 115.85 27.29 88.56
<b>Cost of Production</b> Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	3.35 5.38 4.93 5.36	4.04 6.21 5.77 6.27	3.37 5.30 4.76 5.17	2.85 4.70 4.10 4.48
Net value per unit Machinery cost per acre Est. labor hours per acre	5.60 83.12 1.47	5.56 85.39 1.40	5.56 80.18 1.64	5.76 74.61 1.37

# Wheat, Spring on Cash Rent

	Avg. Of All Farms	Low 20%	<u> </u>	<u> </u>
Number of farms	139	27	28	28
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	523.42 64.66 100.00 5.62 363.52 2.12 6.25 15.35 387.24	$\begin{array}{r} 420.74\\ 56.06\\ 100.00\\ 5.49\\ 307.96\\ 0.57\\ 1.95\\ 16.06\\ 326.54\end{array}$	539.13 65.37 100.00 5.61 366.89 - 4.61 14.50 386.00	665.50 70.85 100.00 5.80 410.77 4.13 12.14 17.24 444.28
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	$\begin{array}{c} 19.99 \\ 78.28 \\ 30.07 \\ 13.72 \\ 15.37 \\ 24.56 \\ 6.77 \\ 2.15 \\ 118.04 \\ 2.62 \\ 5.95 \\ 3.85 \\ 321.38 \\ 65.86 \end{array}$	$\begin{array}{c} 21.19\\ 77.73\\ 29.81\\ 13.51\\ 15.27\\ 24.69\\ 8.89\\ 5.57\\ 139.53\\ 0.88\\ 8.17\\ 4.15\\ 349.39\\ -22.85\end{array}$	$\begin{array}{c} 20.66\\ 77.75\\ 28.25\\ 14.35\\ 16.03\\ 25.69\\ 9.51\\ 2.72\\ 128.93\\ 1.80\\ 6.61\\ 4.36\\ 336.66\\ 49.34 \end{array}$	18.34 78.40 30.67 13.20 15.36 25.29 3.60 0.38 93.09 2.16 3.33 3.30 287.13 157.15
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	$\begin{array}{c} 12.53\\ 3.21\\ 1.37\\ 6.62\\ 3.65\\ 3.58\\ 3.13\\ 26.69\\ 3.79\\ 64.57\\ 385.94\\ 1.29\end{array}$	$\begin{array}{c} 15.38\\ 2.20\\ 1.98\\ 6.40\\ 3.70\\ 2.89\\ 3.34\\ 23.10\\ 7.87\\ 66.84\\ 416.23\\ -89.69\end{array}$	$\begin{array}{c} 11.59\\ 2.60\\ 1.69\\ 6.60\\ 3.72\\ 4.56\\ 3.09\\ 29.21\\ 2.32\\ 65.38\\ 402.04\\ -16.04\end{array}$	$\begin{array}{c} 12.77 \\ 4.87 \\ 0.13 \\ 6.03 \\ 3.80 \\ 3.50 \\ 2.53 \\ 29.36 \\ 4.56 \\ 67.55 \\ 354.68 \\ 89.60 \end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	4.20 5.49 27.41 -21.91	3.13 -86.56 24.55 -111.12	2.98 -13.06 28.84 -41.90	5.70 95.30 32.31 62.99
<b>Cost of Production</b> Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	4.97 5.97 5.54 5.96	6.23 7.42 7.04 7.48	5.15 6.15 5.81 6.25	4.05 5.01 4.45 4.91
Net value per unit Machinery cost per acre Est. labor hours per acre	5.65 80.03 1.42	5.50 76.30 1.35	5.61 85.97 1.40	5.86 79.77 1.43

# **Farm Finance Scorecard**

Year



Developed by: University of Vermont Extension and Center for Farm Financial Management, University of Minnesota