Minnesota and North Dakota Farm Business Management Education **Red River Valley 2020 Report**

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

RED RIVER VALLEY AVERAGES 2020 ANNUAL REPORT

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

<u>North Dakota</u>

Instructor

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Wahpeton (NDSCS)	
Lake Region State College - Langdon	Darren Wilcox

<u>Minnesota</u>

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NCTC-Pelican Rapids	Bill Januszewski
NCTC-Red Lake Falls	
NCTC-Thief River Falls	Greg Dvergsten
	Ron Dvergsten
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A special acknowledgment is due AgCentric, Minnesota State Northern Center of Excellence in Agriculture, and the North Dakota State Board for Vocational and Technical Education for cooperation in the development of the 26th annual Red River Valley Report.

2020 Red River Valley Report Minnesota and North Dakota Farm Business Management Education

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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 2020 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."

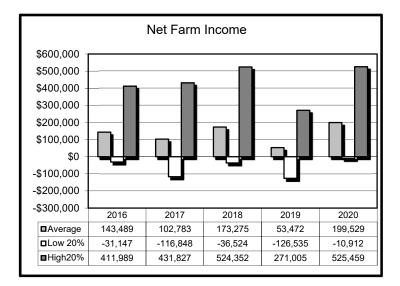
Operator and Labor Information

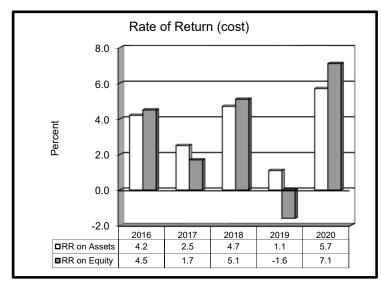
This table reports the average for the number of operators per farm, the operator's age, and the number of years farming.

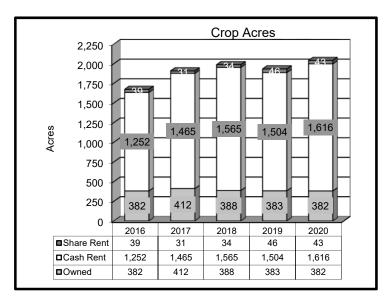
Nonfarm Summary

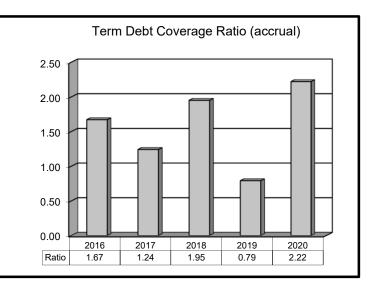
This table also reports nonfarm income. The figure reported is the average over all farms <u>not</u> just those reporting nonfarm income.

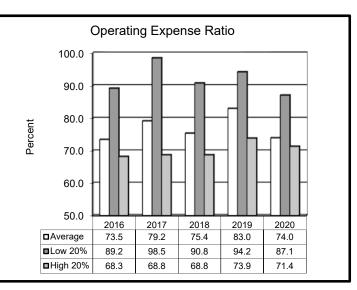
Five Year Trend of Financial Measures Red River Valley Farm Business Management Education

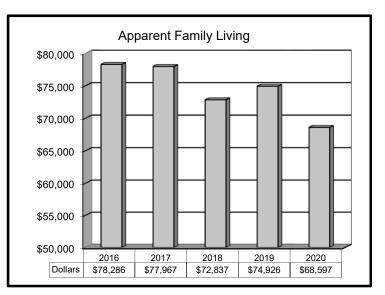












Farm Income Statement Minnesota and North Dakota Farm Business Management Education Red River Valley, 2020 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	216	43	43	44
Cash Farm Income				
Barley	2,532	268	4,624	3,817
Beans, Black Turtle	4,839	4,165	7,648	2,132
Beans, Dark Red Kidney	1,054	5,292	-	, -
Beans, Great Northern	1,094	2,436	-	-
Beans, Navy	1,573	850	982	1,507
Beans, Pink	1,863	-	-	9,148
Beans, Pinto	5,058	10,617	786	13,680
Corn	269,035	163,045	183,473	551,703
Corn Silage	1,384	-	857	-
Grass Seed, Fescue	421	-	2,112	-
Hay, Alfalfa	1,416	4,349	735	949
Hay, Mixed	3,559	559	-	5,973
Oats	81	-	240	161
Peas, Field	1,320	110	34	6,339
Potatoes	18,967	-	-	83,607
Rye	101	509	-	-
Soybeans	275,646	217,125	196,123	515,796
Soybeans Seed	21,776	2,203	17,374	52,234
Sugar Beets	158,894	103,921	70,606	421,730
Sunflowers	3,863	6,750	4,648	-
Sunflowers, Confectionary	95	-	478	-
Wheat, Durum	344	-	-	-
Wheat, Hard Red Spring	110	85	467	-
Wheat, Spring	99,228	81,152	58,031	211,486
Wheat, Hard White	215	-	-	1,057
Soybeans, Natto	297	1,492	-	-
Peas, Organic	82	411	-	-
Hemp, Seed	137	-	686	-
User Added Crop	1,030	1,464	-	-
Miscellaneous crop income	8,084	2,555	5,420	30,825
Beef Cow-Calf, Beef Calves	3,120	411	4,348	345
Beef Replacement Heifers	293	-	-	-
Beef Backgrounding	1,519	491	7,138	-
Beef Finishing	1,851	-	2,428	4,526
Hogs, Weaning to Finish	4,169	-	-	-
Cull breeding livestock	76	-	380	-
Misc. livestock income	26	-	131	-
Crop government payments	33,368	25,587	21,562	67,249
CRP payments	1,093	119	1,145	1,239
Other government payments	114,176	80,707	86,014	198,690
Conservation govt payment	4,310	3,235	4,869	7,034
Custom work income	14,955 12,666	11,614 9,269	20,088 8,211	13,453 24,950
Patronage dividends, cash Crop insurance income	97,847	67,894	101,622	159,362
	237	07,094	308	682
Property insurance income Sale of resale items	288	- 1,116	500	002
Farm rental income	5,849	5,029	- 2,278	- 6,664
Other farm income	40,348	31,202	18,088	87,193
Gross Cash Farm Income	1,220,291	846,032	833,936	2,483,529
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Farm Income Statement (continued) Minnesota and North Dakota Farm Business Management Education Red River Valley, 2020 (Farms Sorted By Net Farm Income)

Number of farms 216 43 43 44 Cent Farm Expense 22.92 Frilizer 128.908 92.299 91.338 228.018 129.278 129.278		Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Seed and plants 150.952 99.456 92.099 93.1382 223.85.163 Crop chemicals 90.929 61.619 57.856 192.978 Crop instrance 33.714 20.444 25.960 61.200 Dring agreeme 5.157 4.544 25.960 61.200 Dring agreeme 5.157 4.544 25.960 61.200 Dring agreeme 5.157 4.544 25.960 61.200 Compiliance inserving 1.170 1 61.774 61.774 Compiliance inserving 9.114 6.12.23 3.604 25.793 Commitorits 4.508 3.003 3.760 100.024 Purchased feed 1.708 2.40 1.704 195 Dreading flows 90 4 2280 01 44 Number 1.708 2.40 1.704 195 120.723 Purchased feed 1.708 2.40 120.723 140.734 120.723 Dreading flows 9.7139 <td< th=""><th>Number of farms</th><th>216</th><th>43</th><th>43</th><th>44</th></td<>	Number of farms	216	43	43	44
Fertilizer 128,908 92,299 91,368 258,163 Crop chemicalis 80,929 61,619 57,865 192,978 Crop insurance 33,714 29,048 25,980 61,2978 Drying openee 5,151 4,444 3,222 10,830 Bringation energy 410 0 0 1,737 Prop miscellaneous 9,114 6,123 3,804 2,573 Consultants 4,508 3,003 3,780 10,024 Feeder livestock purchase 3,889 - 4,913 2,228 108 Consultants 4,508 3,003 3,780 10,024 1,704 195 Breeding fees 90 - 228 108 128 39,089 12,723 Livestock leases 7,77 3 9,09 12,723 39,015 22,765 14,043 33,680 22,7313 72,565 14,0498 13,768 33,332 17,984 5,010 144,135 433,452 148,22 <t< td=""><td>Cash Farm Expense</td><td></td><td></td><td></td><td></td></t<>	Cash Farm Expense				
Cop chemicals 90.929 61.619 57.856 192.978 Crop insurance 33.714 29.046 25.980 61.280 Dying expense 5.151 4.544 3.226 10.830 Storage 1.637 174 615 5.384 Impation energy 416 0 100 1.704 Commutants 4.608 3.003 3.780 10.024 Commutants 4.608 3.003 3.780 10.024 Prochased feed 1.708 2.40 1.704 195 Description 6.61 74 195 10.024 Universal 3.889 - 4.913 2.230 Purchased feed 1.708 2.40 1.704 195 Universal 57.139 61.216 36.808 120.723 Purchased feed 3.9431 30.660 27.813 72.216 Repairs 89.600 68.807 64.867 127.216 Repairs 10.65.911.266 13	•	150,952	99,456	92,099	321,292
Crop insurance 33,714 29,048 25,980 61,280 Drying syennes 5,151 4,544 3,226 10,833 Storage 1,637 174 615 5,384 Irrigation energy 410 - 1,774 Packaging and supplies 56 90 100 10024 Corp miscelenous 4,648 3,003 3,760 10024 Feadori Ivestock purchase 3,889 3,003 3,760 10024 Purchased feed 1,708 240 1,774 195 Breeding foes 90 - 228 108 Veterinary 460 94 616 74 Stopplies 227 17 200 41 Livestock keases 677 - - 122726 Castom hire 18,186 11,228 13,768 33,660 Hird labor 58,53 29,915 29,756 140,733 Lowstock keases 15,655 14,098 13,488 <td>Fertilizer</td> <td>128,908</td> <td>92,299</td> <td>91,358</td> <td>258,163</td>	Fertilizer	128,908	92,299	91,358	258,163
Drying sepanse 5.151 4.544 3.226 10.830 Storage 1.537 174 615 5.334 Hrigalion energy 410 - - 1,794 Packaging and supples 56 90 190 - Corp miscellaneous 9,114 6,123 3,604 25,783 Corp miscellaneous 9,114 6,123 3,604 25,783 Corp miscellaneous 9,144 6,123 3,604 25,783 Corp miscellaneous 9,0 40 1,228 196 Breeding freis 90 - 228 196 Storage 717 200 41 1 146 Vietning freis 277 17 200 41 1 146 74 336 33,660 120,723 72,156 Repairs 89,600 68,807 64,667 142,655 140,735 140,735 140,735 140,735 140,735 140,735 140,755 140,755 140,755 <	Crop chemicals	90,929	61,619	57,856	192,978
Storage 1.637 174 615 5.384 Irrigation energy 410 - - 1.794 Packaging and supplies 56 90 190 - Crop miscolameous 9.114 6.123 3.804 25.793 Consultants 4.508 3.003 3.780 10.024 Foreder livestock purchase 3.889 - 4.913 2.230 Purchased feed 1.708 240 1.704 195 Breeding fees 90 - 226 100 Youthase 57.139 51.216 36.908 120.723 Fuel & oil 39.431 30.660 27.813 72.665 Custom hire 18.166 11.268 13.768 33.366 Land rent 21.555 14.008 13.498 22.565 Custom hire 11.378 43.32 6.699 Real estate taxes 10.07 6.22.42 22.867 Machiney leases 13.232 17.984 5.074	Crop insurance	33,714	29,048	25,980	61,260
httgalion energy 410 - - - 1,794 Packaging and supplies 56 90 190 - Corp miscellameous 9,114 6,123 3,804 25,793 Consultants 4,668 3,003 3,780 10,024 Feeder livestock purchase 3,889 - 4,913 2,230 Purchased feed 1,704 944 1,704 186 Breader livestock purchase 3,889 - 4,913 2,230 Purchased feed 1,704 944 1,704 186 Supplies 2,27 17 2,00 41 Livestock lesses 6,77,9 5,1216 36,098 120,723 Fuel & oil 3,9431 30,660 68,807 64,4867 127,2156 Repairs 6,960 68,807 64,4867 127,2156 14,048 13,768 33,860 Hired labor 12,855 29,915 29,755 144,048 227,925 140,733 458,247	Drying expense	5,151	4,544	3,226	10,830
Peckaging and supplies 56 90 190	Storage	1,637	174	615	5,384
Crop misciplemenus 9,114 6,123 3,604 25,793 Consultants 4,695 3,033 3,780 10,024 Feeder livestock purchase 3,889 - 4,913 2,230 Purchased feed 1,704 195 17,04 195 Breeding fees 90 - 228 108 Veterinary 460 94 616 74 Supples 227 17 200 41 Livestock leases 677 - - - Fuel & oil 38,89 120,723 12,165 72,165 Reparts 68,88 63,690 22,755 140,733 Lind rent 211,659 155,010 143,135 438,243 Building leases 2,703 1,165 992 6,699 Real estate taxes 10,907 7,603 6,324 22,875 Wiltities 11,998 10,224 12,604 28,575 Utilities 19,909 7,371	Irrigation energy		-	-	1,794
Consultants 4,508 3,003 3,780 10,024 Feeder fivestock purchase 3,889 - 4,913 2,230 Purchased feed 1,708 240 1,714 195 Breeding fees 90 - 223 108 Vaterinary 460 94 616 74 Supplies 227 1 - - - Interest 57,139 51,216 36,006 12,813 72,156 Repairs 89,000 66,807 64,867 172,265 130,766 130,733 Custom hire 18,186 11,208 13,766 130,735 28,756 140,733 Land rent 21,555 155,010 143,135 245,754 145,815 26,574 Minitinery lease 12,025 17,808 13,019 26,574 Maintery lease 12,034 12,194 22,197 76,574 Maintery lease 12,037 12,624 9,198 12,224 19,482	Packaging and supplies	56	90		-
Fedder livestock purchase 3,889 - 4,913 2,230 Purchased fedd 1,708 200 1,704 195 Breeding fees 90 - 228 108 Veterinary 460 94 616 74 Supplies 227 17 200 41 Livestock leases 677 - - - Interest 57,139 51,216 36,908 120,723 Fuel & oil 38,431 30,660 27,813 72,168 Repairs 89,600 66,807 64,867 172,206 Custom hire 18,186 11,288 13,768 33,660 Hird labor 25,853 29,915 29,756 140,733 Stock/quota lease 13,322 17,984 5,074 26,274 Machiney leases 16,555 14,008 13,498 22,2987 Farm insurance 10,407 7,603 6,324 22,987 Parelatsta taxes 10,007 7	Crop miscellaneous		6,123	3,604	25,793
Purchased feed 1.708 240 1.704 196 Breeding fees 90 - 228 108 Veterinary 460 94 616 74 Supplies 227 17 200 41 Livestock leases 677 - - - - Interest 57,139 51,216 36,060 27,813 72,156 Repairs 89,000 66,807 64,867 172,265 Custom hire 18,186 11,268 13,778 33,660 27,813 72,156 6140,733 Land rent 211,559 150,010 143,135 448,277 84 50,74 28,274 Machinery leases 15,655 14,038 13,498 27,854 26,399 78 26,299 78,492 29,492 29,492 29,492 29,492 29,492 29,492 29,492 29,492 29,492 29,492 29,492 29,492 29,492 29,492 29,492 29,492 29,492 <td< td=""><td>Consultants</td><td></td><td>3,003</td><td></td><td></td></td<>	Consultants		3,003		
Breeding fees 90 - 228 108 Veterinary 460 94 616 74 Supples 227 17 200 41 Livestock leases 677 - - - Interest 57,139 51,216 36,008 120,723 72,158 Repairs 89,600 66,807 64,487 172,205 74,803 33,660 Hired labor 59,953 29,915 29,766 140,733 5438,247 Stock/quota lease 13,332 17,984 5,074 26,2754 Building leases 2,703 1,165 992 6,699 Real estate laxes 10,907 7,603 6,324 22,987 Farm insurance 10,349 12,924 9,160 2,819 Dues & professional fees 9,409 6,327 5,051 14,492 Purchase foresal ferms 9,466 7,317 4,065 18,305 Marketing 1,920 6,233 1,916	Feeder livestock purchase		-		2,230
Veterinary 460 94 616 74 Supples 227 17 200 41 Livestock leases 677 - - - Interest 57,139 51,216 36,009 26,869 120,223 Fuel & cil 39,431 30,660 27,813 72,156 Repairs 88,600 66,807 64,867 172,265 Custom hire 18,186 11,268 13,768 33,860 Hired labor 29,955 29,756 140,733 Land rent 211,559 150,5010 143,135 488,247 Machinery leases 15,655 14,008 13,498 27,564 99,92 6,699 Real estate taxes 10,907 7,603 6,324 22,897 19,812 19,842 Building leases 9,409 8,927 5,051 14,496 Purchase of ressei tems 9,409 8,927 5,051 14,496 Purchase of ressei tems 9,409 8,927 5,051	Purchased feed	1,708	240		195
Supples 227 17 200 41 Livestock leases 677 - - - Interest 57,139 51,216 36,908 120,723 Fuel & oil 39,431 30,660 27,813 72,156 Custom hire 18,186 11,268 13,768 33,860 Land rent 21,1559 156,55 14,098 43,828 Stock(guota lease 13,332 17,984 5,074 26,274 Machinery leases 16,655 14,098 13,498 22,585 48,292 Real estate taxes 2,703 1,165 992 6,899 Real estate taxes 10,907 7,603 6,324 22,887 Utilities 11,998 10,224 19,842 19,845 Hauing and trucking 19,20 6,23 19,116 2,311 Markeing 19,20 6,327 5,051 14,496 Purchase of resale lems 9,409 8,927 5,051 14,496 <td< td=""><td></td><td></td><td>-</td><td></td><td></td></td<>			-		
Livestock leases 677 - - - Interest 57,139 51,216 36,008 120,723 Fuel & oil 39,431 30,660 27,813 72,156 Repairs 89,600 68,807 64,667 172,605 Custom hire 18,166 11,268 13,768 33,360 Hired labor 28,965 29,915 29,756 140,733 Stock/quota lease 13,332 17,984 5,074 26,274 Machinery leases 15,655 14,098 13,498 27,584 Building leases 2,703 1,165 992 6,699 Real estate taxes 10,907 7,603 6,324 22,987 Farm insurance 16,349 12,924 12,624 28,875 Utilities 19,997 2,629 9,919 Marketing 19,20 6,237 1,501 2,4497 Utilities 19,920 6,237 5,551 14,416 Prepaids and supplies 32,921 </td <td>Veterinary</td> <td>460</td> <td>94</td> <td></td> <td></td>	Veterinary	460	94		
Interest 57,139 51,216 36,008 120,723 Fuel & oil 39,431 30,660 27,813 72,156 Repairs 89,600 68,807 64,867 172,265 Custom hire 18,186 11,288 13,768 33,860 Hired labor 59,953 29,915 29,756 140,733 Land rent 211,559 156,55 14,098 13,448 26,274 Machiney leases 2,703 1,165 992 6,899 8,242 22,887 Rail estic taxes 10,907 7,603 6,324 22,887 19,842 19,845 19,845 19,845 12,824 12,804 28,875 19,845 18,856 </td <td></td> <td></td> <td>17</td> <td>200</td> <td>41</td>			17	200	41
Fuel & oil 33,431 30,660 27,813 72,156 Repairs 89,600 68,807 64,867 172,605 Custom hire 18,186 11,268 13,768 33,660 Hired labor 59,953 29,915 29,756 140,733 Land rent 211,559 150,10 143,135 438,247 Machinery lesses 15,655 14,098 13,428 27,584 Building leases 2,073 7,603 6,324 22,867 Farm insurance 16,349 12,224 12,604 28,675 Hauling and trucking 1,920 6,231 1,916 2,819 Marketing 1,920 6,231 1,916 2,819 Dues & professional fees 9,409 8,227 5,051 14,494 Purchase of resale items 9,466 7,317 4,065 18,605 Miscellaneous 10,043 7,309 10,571 16,655 Miscellaneous 10,043 7,309 10,571 16,655			-	-	-
Repairs 89,600 68,607 64,867 172,605 Custom hire 18,166 11,268 13,788 33,660 Hired labor 59,953 29,915 22,756 140,733 Land rent 211,555 15,010 143,135 438,247 Stock/quota lease 13,332 17,984 5,074 26,774 Machimery leases 15,555 14,098 13,498 27,834 Building leases 2,703 1,165 992 6,699 Real estate taxes 10,907 7,003 6,324 22,867 Utilities 11,988 10,254 9,182 19,482 Hauling and trucking 4,012 4,971 2,629 9,919 Marketing 1,920 6,23 1,916 2,819 Dues & professional fees 9,406 7,317 4,065 18,605 Total cash expense 1,013,091 736,759 674,525 2,061,797 Net cash farm income 207,199 109,273 159,411 421,733					-, -
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Machinery leases 15,655 14,086 13,488 27,584 Building leases 2,703 1,165 992 6,669 Real estate taxes 10,907 7,603 6,324 22,897 Farm insurance 16,349 12,924 12,604 28,575 Utilities 11,998 10,224 9,162 19,484 Hauling and trucking 4,012 4,971 2,629 9,919 Marketing 1,920 623 1,916 2,819 Dues & professional fees 9,409 8,927 5,051 14,496 Purchase of resale items 9,466 7,317 4,065 18,505 Otal cash expense 1,013,01 736,576 674,525 2,061,797 Net cash farm income 207,199 109,273 159,411 421,733 Inventory Changes - - - - Prepaids and supplies 32,921 13,737 7,258 96,949 Accounts receivable -34,466 -45,210 -28,055					
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Farm insurance 16,349 12,924 12,604 22,675 Utilities 11,998 10,254 9,182 19,482 Hauling and trucking 4,012 4,971 2,629 9,919 Marketing 1,920 623 1,916 2,819 Dues & professional fees 9,409 8,927 5,051 14,496 Purchase of resale items 9,466 7,317 4,065 18,505 Miscellaneous 10,043 7,309 10,571 16,165 Total cash expense 1,013,091 736,759 674,525 2,061,797 Net cash farm income 207,199 109,273 159,411 421,733 Inventory Changes - - - - 46,763 -48,716 - 4,735 - 24,073 192,550 -48,716 - 192,550 - 83,716 - 24,338 - 48,199 22,407 192,550 - 23,56 - - 192,550 - - 192,550	Building leases				
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Marketing 1.920 623 1.916 2.819 Dues & professional fees 9.409 8.927 5.051 14.496 Purchase of resale items 9.466 7.317 4.065 18.505 Miscellaneous 10.043 7.309 10.571 16.165 Total cash expense 1.013.091 736,759 674,525 2.061,797 Net cash farm income 207,199 109,273 159,411 421,733 Inventory Changes -					
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Net cash farm income 207,199 109,273 159,411 421,733 Inventory Changes -					
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Prepaids and supplies 32,921 13,737 7,258 96,949 Accounts receivable -34,466 -45,210 -28,055 -83,716 Hedging accounts -4,276 -17,540 407 12,438 Other current assets -4,624 19,604 306 -42,352 Crops and feed 43,493 -48,199 22,407 192,550 Market livestock -1,684 250 -2,356 -891 Breeding livestock 175 -631 1,415 - Other assets 6,244 930 922 10,447 Accounts payable 18,956 14,303 27,124 19,051 Accounts payable 18,956 14,303 27,124 19,051 Total inventory change 59,412 -63,452 29,378 217,715 Net operating profit 266,611 45,821 188,788 639,448 Depreciation -5,823 -4,257 -4,792 -10,604 Buildings and improvements -6,785 -5,537	Net cash farm income	207,199	109,273	159,411	421,733
Accounts receivable -34,466 -45,210 -28,055 -83,716 Hedging accounts -4,276 -17,540 407 12,438 Other current assets -4,624 19,604 306 -42,352 Crops and feed 43,493 -48,199 22,407 192,550 Market livestock -1,684 250 -2,356 -891 Breeding livestock 175 -631 1,415 - Other assets 6,244 930 922 10,447 Accounts payable 18,956 14,303 27,124 19,051 Accounts payable 2,672 -697 -50 13,240 Total inventory change 59,412 -63,452 29,378 217,715 Net operating profit 266,611 45,821 188,788 639,448 Depreciation - - -99,780 -10,604 Titled vehicles -5,823 -4,257 -4,792 -10,604 Buildings and improvements -6,785 -5,537 -4,619	Inventory Changes				
Hedging accounts4,276-17,54040712,438Other current assets-4,62419,604306-42,352Crops and feed43,493-48,19922,407192,550Market livestock-1,684250-2,356-891Breeding livestock175-6311,415-Other assets6,24493092210,447Accounts payable18,95614,30327,12419,051Accrued interest2,672-697-5013,240Total inventory change59,412-63,45229,378217,715Net operating profit266,61145,821188,788639,448DepreciationMachinery and equipment-56,468-46,753-38,171-99,780Titled vehicles-5,823-4,257-4,792-10,604Buildings and improvements-6,785-5,537-4,619-14,421Total depreciation-69,076-56,546-47,582-124,805Net farm income from operations197,535-10,725141,207514,643Gain or loss on capital sales1,994-1873,40-0,816	Prepaids and supplies	32,921	13,737	7,258	96,949
Other current assets -4,624 19,604 306 -42,352 Crops and feed 43,493 -48,199 22,407 192,550 Market livestock -1,684 250 -2,356 -891 Breeding livestock 175 -631 1,415 - Other assets 6,244 930 922 10,447 Accounts payable 18,956 14,303 27,124 19,051 Accrued interest 2,672 -697 -50 13,240 Total inventory change 59,412 -63,452 29,378 217,715 Net operating profit 266,611 45,821 188,788 639,448 Depreciation - - - - - Machinery and equipment -56,646 -46,753 -38,171 -99,780 Titled vehicles -5,823 -4,257 -4,619 -14,421 Total depreciation -69,076 -56,546 -47,582 -124,805 Net farm income from operations 197,535 -10,725	Accounts receivable	-34,466	-45,210	-28,055	-83,716
Crops and feed 43,493 -48,199 22,407 192,550 Market livestock -1,684 250 -2,356 -891 Breeding livestock 175 -631 1,415 - Other assets 6,244 930 922 10,447 Accounts payable 18,956 14,303 27,124 19,051 Accounts payable 2,672 -697 -50 13,240 Total inventory change 59,412 -63,452 29,378 217,715 Net operating profit 266,611 45,821 188,788 639,448 Depreciation - - - - - 192,550 Machinery and equipment -56,468 -46,753 -38,171 -99,780 - - - - 0,604 Buildings and improvements -6,785 -5,537 -4,619 -14,421 - - - 124,805 Net farm income from operations 197,535 -10,725 141,207 514,643 - 10,816 <td>Hedging accounts</td> <td>-4,276</td> <td>-17,540</td> <td>407</td> <td>12,438</td>	Hedging accounts	-4,276	-17,540	407	12,438
Market livestock -1,684 250 -2,356 -891 Breeding livestock 175 -631 1,415 - Other assets 6,244 930 922 10,447 Accounts payable 18,956 14,303 27,124 19,051 Accound interest 2,672 -697 -50 13,240 Total inventory change 59,412 -63,452 29,378 217,715 Net operating profit 266,611 45,821 188,788 639,448 Depreciation	Other current assets			306	
Breeding livestock 175 -631 1,415 - Other assets 6,244 930 922 10,447 Accounts payable 18,956 14,303 27,124 19,051 Accrued interest 2,672 -697 -50 13,240 Total inventory change 59,412 -63,452 29,378 217,715 Net operating profit 266,611 45,821 188,788 639,448 Depreciation -				,	
Other assets 6,244 930 922 10,447 Accounts payable 18,956 14,303 27,124 19,051 Accrued interest 2,672 -697 -50 13,240 Total inventory change 59,412 -63,452 29,378 217,715 Net operating profit 266,611 45,821 188,788 639,448 Depreciation					-891
Accounts payable 18,956 14,303 27,124 19,051 Accrued interest 2,672 -697 -50 13,240 Total inventory change 59,412 -63,452 29,378 217,715 Net operating profit 266,611 45,821 188,788 639,448 Depreciation	Breeding livestock				-
Accrued interest 2,672 -697 -50 13,240 Total inventory change 59,412 -63,452 29,378 217,715 Net operating profit 266,611 45,821 188,788 639,448 Depreciation	Other assets				
Total inventory change 59,412 -63,452 29,378 217,715 Net operating profit 266,611 45,821 188,788 639,448 Depreciation Machinery and equipment -56,468 -46,753 -38,171 -99,780 Titled vehicles -5,823 -4,257 -4,792 -10,604 Buildings and improvements -6,785 -5,537 -4,619 -14,421 Total depreciation -69,076 -56,546 -47,582 -124,805 Net farm income from operations 197,535 -10,725 141,207 514,643 Gain or loss on capital sales 1,994 -187 3,140 10,816	Accounts payable		14,303	27,124	
Net operating profit 266,611 45,821 188,788 639,448 Depreciation Machinery and equipment -56,468 -46,753 -38,171 -99,780 Titled vehicles -5,823 -4,257 -4,792 -10,604 Buildings and improvements -6,785 -5,537 -4,619 -14,421 Total depreciation -69,076 -56,546 -47,582 -124,805 Net farm income from operations 197,535 -10,725 141,207 514,643 Gain or loss on capital sales 1,994 -187 3,140 10,816					
Depreciation -56,468 -46,753 -38,171 -99,780 Titled vehicles -5,823 -4,257 -4,792 -10,604 Buildings and improvements -6,785 -5,537 -4,619 -14,421 Total depreciation -69,076 -56,546 -47,582 -124,805 Net farm income from operations 197,535 -10,725 141,207 514,643 Gain or loss on capital sales 1,994 -187 3,140 10,816	, ,				
Machinery and equipment-56,468-46,753-38,171-99,780Titled vehicles-5,823-4,257-4,792-10,604Buildings and improvements-6,785-5,537-4,619-14,421Total depreciation-69,076-56,546-47,582-124,805Net farm income from operations197,535-10,725141,207514,643Gain or loss on capital sales1,994-1873,14010,816	Net operating profit	266,611	45,821	188,788	639,448
Titled vehicles-5,823-4,257-4,792-10,604Buildings and improvements-6,785-5,537-4,619-14,421Total depreciation-69,076-56,546-47,582-124,805Net farm income from operations197,535-10,725141,207514,643Gain or loss on capital sales1,994-1873,14010,816		50 (00	10 750	00.474	<u> </u>
Buildings and improvements -6,785 -5,537 -4,619 -14,421 Total depreciation -69,076 -56,546 -47,582 -124,805 Net farm income from operations 197,535 -10,725 141,207 514,643 Gain or loss on capital sales 1,994 -187 3,140 10,816	2 1 1			-	,
Total depreciation -69,076 -56,546 -47,582 -124,805 Net farm income from operations Gain or loss on capital sales 197,535 -10,725 141,207 514,643 0,816 1,994 -187 3,140 10,816				-	,
Net farm income from operations 197,535 -10,725 141,207 514,643 Gain or loss on capital sales 1,994 -187 3,140 10,816					
Gain or loss on capital sales 1,994 -187 3,140 10,816		-69,076	-50,546	-47,582	-124,805
	Net farm income from operations	197,535	-10,725	141,207	514,643
Net farm income 199,529 -10,912 144,346 525,459	Gain or loss on capital sales	1,994	-187	3,140	10,816
	Net farm income	199,529	-10,912	144,346	525,459

Inventory Changes Minnesota and North Dakota Farm Business Management Education Red River Valley, 2020 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	216	43	43	44
Net cash farm income	207,199	109,273	159,411	421,733
Crops and Feed Ending inventory	602,206	346,942	387,554	1,325,519
Beginning inventory Inventory change	558,713 43,493	395,141 -48,199	365,147 22,407	1,132,969 192,550
Market Livestock Ending inventory	7,835	1,062	13,635	2,986
Beginning inventory Inventory change	9,519 -1,684	812 250	15,991 -2,356	3,877 -891
Accts Receivable Ending inventory	99,531	58,846	66,876	150,387
Beginning inventory Inventory change	133,997 -34,466	104,056 -45,210	94,932 -28,055	234,103 -83,716
Prepaid Expenses and Supplies Ending inventory	101.031	62,138	46,330	238,071
Beginning inventory Inventory change	68,110 32,921	48,401 13,737	39,072 7,258	141,122 96,949
Hedging Activities Ending inventory	12,671	4,506	3,932	49.130
Withdrawals Beginning inventory	5,857 7,626	8,385 10,352	1,340 2,327	18,213 18,265
Deposits Gain or loss	15,178 -4,276	20,078 -17,540	2,537 407	36,640 12,438
Other Current Assets	22.000	402.004	744	7 470
Ending inventory Beginning inventory Inventory change	23,098 27,722 -4,624	103,991 84,386 19,604	741 435 306	7,170 49,522 -42,352
Breeding Livestock Ending inventory	7,232	1,374	12,744	-
Capital sales Beginning inventory	345 6,578	1,431	10,585	-
Capital purchases Depreciation, capital adjust	823 175	574 -631	744 1,415	-
Other Capital Assets	004.000	000.000	407.005	007.000
Ending inventory Capital sales	331,399 5,244	266,928 4,630	167,205 2,205	697,032 3,589
Beginning inventory Capital purchases	322,864 7,535	266,484 4,144	161,863 6,624	679,499 10,676
Depreciation, capital adjust	6,244	930	922	10,447
Accounts Payable Beginning inventory	60,752	46,111	64,941	99,172
Ending inventory Inventory change	41,796 18,956	31,807 14,303	37,817 27,124	80,122 19,051
Accrued Interest Beginning inventory	27,988	24.247	19.064	57,094
Ending inventory	25,316	24,945	19,114	43,854
Inventory change	2,672	-697	-50	13,240
Total inventory change	59,412	-63,452	29,378	217,715
Net operating profit	266,611	45,821	188,788	639,448

Depreciation Minnesota and North Dakota Farm Business Management Education Red River Valley, 2020 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	216	43	43	44
Net operating profit	266,611	45,821	188,788	639,448
Machinery and Equipment				
Ending inventory	658,666	557,159	414,173	1,204,624
Capital sales	19,071	21,377	9,070	24,590
Beginning inventory	635,300	547,537	400,781	1,146,659
Capital purchases	98,906	77,752	60,634	182,335
Depreciation, capital adjust.	-56,468	-46,753	-38,171	-99,780
Titled Vehicles				
Ending inventory	53,267	42,496	47,330	99,679
Capital sales	1,787	651	588	5,882
Beginning inventory	49,113	41,599	43,686	88,935
Capital purchases	11,764	5,805	9,024	27,230
Depreciation, capital adjust.	-5,823	-4,257	-4,792	-10,604
Buildings and Improvements				
Ending inventory	282,913	215,378	160,879	590,254
Capital sales	3,930	-	9,173	1,946
Beginning inventory	263,929	216,908	168,227	534,771
Capital purchases	29,699	4,007	6,444	71,850
Depreciation, capital adjust.	-6,785	-5,537	-4,619	-14,421
Total depreciation, capital adj.	-69,076	-56,546	-47,582	-124,805
Net farm income from operations	197,535	-10,725	141,207	514,643
Gain or loss on capital sales	1,994	-187	3,140	10,816
Net farm income	199,529	-10,912	144,346	525,459

Profitability Measures Minnesota and North Dakota Farm Business Management Education Red River Valley, 2020 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	
Number of farms	216	43	43	44
Profitability (assets valued at cost)				
Net farm income from operations	197,535	-10,725	141,207	514,643
Rate of return on assets	5.7 %	-1.1 %	6.4 %	8.0 %
Rate of return on equity	7.1 %	-7.8 %	8.7 %	11.0 %
Operating profit margin	14.2 %	-3.5 %	15.0 %	18.9 %
Asset turnover rate	39.7 %	32.6 %	42.9 %	42.6 %
Farm interest expense	54,467	51,913	36,958	107,483
Value of operator lbr and mgmt. Return	78,511	67,437	55,793	132,961
on farm assets	173,491	-26,249	122,371	489,165
Average farm assets	3,070,411	2,293,543	1,905,295	6,087,043
Return on farm equity	119,024	-78,162	85,413	381,682
Average farm equity	1,670,184	1,007,103	978,032	3,470,573
Value of farm production	1,218,812	747,988	818,311	2,593,576

Liquidity & Repayment Capacity Measures Minnesota and North Dakota Farm Business Management Education Red River Valley, 2020 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	
Number of farms	216	43	43	44
Liquidity				
Current ratio	1.63	1.10	1.61	1.85
Working capital	366,174	57,926	217,855	918,363
Working capital to gross inc	29.7 %	7.7 %	26.3 %	35.1 %
Current assets	943,631	639,095	574,645	2,001,537
Current liabilities	577,457	581,169	356,789	1,083,175
Gross revenues (accrual)	1,233,874	755,544	828,994	2,614,507
Repayment capacity				
Net farm income from operations	197,535	-10,725	141,207	514,643
Depreciation	69,076	56,546	47,582	124,805
Personal income	31,402	35,680	27,148	28,731
Family living/owner withdrawals	-68,597	-66,828	-60,912	-89,875
Cash discrepancy	-145	-78	-457	34
Payments on personal debt	-5,864	-5,732	-4,051	-8,024
Income taxes paid	-15,383	-9,770	-10,865	-28,352
Interest on term debt	34,877	29,400	23,775	70,232
Capital debt repayment capacity	242,901	28,494	163,427	612,193
Scheduled term debt payments	-109,634	-95,883	-77,308	-200,317
Capital debt repayment margin	133,267	-67,389	86,119	411,877
Cash replacement allowance	-47,992	-38,121	-32,288	-90,861
Replacement margin	85,275	-105,510	53,832	321,016
Term debt coverage ratio	2.22	0.30	2.11	3.06
Replacement coverage ratio	1.54	0.21	1.49	2.10

Balance Sheet at Cost Values Minnesota and North Dakota Farm Business Management Education Red River Valley, 2020 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	<u>40 - 60%</u>	High 20%
Number of farms	216	43	43	44
Assets Current Farm Assets		<u></u>		
Cash and checking balance	97,259	61,612	55,576	228,275
Prepaid expenses & supplies	101,031	62,138	46,330	238,071
Growing crops	310	173	84	1,273
Accounts receivable	99,531	58,846	66,876	150,387
Hedging accounts	12,671	4,506	3,932	49,130
Crops held for sale or feed	602,206	346,942	387,554	1,325,519
Crops under government loan Market livestock held for sale Other current assets	- 7,835 22,788	- 1,062 103,817	- 13,635 657	2,986 5,897
Total current farm assets	943,631	639,095	574,645	2,001,537
Intermediate Farm Assets Breeding livestock Machinery and equipment	7,232 658,666	1,374 557,159	12,744 414,173	1,204,624
Titled vehicles	53,267	42,496	47,330	99,679
Other intermediate assets	235,919	140,252	126,356	556,834
Total intermediate farm assets	955,084	741,282	600,603	1,861,137
Long Term Farm Assets				
Farm land	878,876	552,404	571,313	1,714,129
Buildings and improvements	282,913	215,378	160,879	590,254
Other long-term assets	95,480	126,676	40,850	140,199
Total long-term farm assets	1,257,269	894,458	773,042	2,444,581
Total Farm Assets	3,155,984	2,274,836	1,948,290	6,307,255
Total Nonfarm Assets	376,936	213,476	327,851	560,147
Total Assets	3,532,920	2,488,312	2,276,141	6,867,402
Liabilities Current Farm Liabilities				
Accrued interest	25,316	24,945	19,114	43,854
Accounts payable	41,796	31,807	37,817	80,122
Current notes	433,989	457,397	247,008	826,431
Government crop loans	-	-	-	-
Principal due on term debt	76,355	67,021	52,850	132,768
Total current farm liabilities	577,457	581,169	356,789	1,083,175
Total intermediate farm liabs	192,112	208,304	124,037	317,551
Total long term farm liabilities	648,567	508,415	446,336	1,230,618
Total farm liabilities	1,418,136	1,297,888	927,162	2,631,343
Total nonfarm liabilities	88,828	73,055	85,347	114,349
Total liabilities	1,506,964	1,370,943	1,012,509	2,745,692
Net worth (farm and nonfarm)	2,025,956	1,117,369	1,263,632	4,121,711
Net worth change	160,042	-58,261	115,342	438,649
Percent net worth change	9 %	-5 %	10 %	12 %
Ratio Analysis Current farm liabilities / assets Intermediate farm liab. / assets Long term farm liab. / assets Total debt to asset ratio	61 % 20 % 52 % 43 %	91 % 28 % 57 % 55 %	62 % 21 % 58 % 44 %	54 % 17 % 50 % 40 %

Balance Sheet at Market Values Minnesota and North Dakota Farm Business Management Education Red River Valley, 2020 (Farms Sorted By Net Farm Income)

	Ava. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	216	43	43	44
Assets Current Farm Assets Cash and checking balance Prepaid expenses & supplies Growing crops Accounts receivable Hedging accounts Crops held for sale or feed Crops under government loan Market livestock held for sale Other current assets Total current farm assets	97.259 101,031 310 99.531 12.671 602,206 7,835 22.788 943,631	61.612 62,138 173 58,846 4.506 346,942 1,062 103,817 639,095	55.576 46,330 84 66.876 3.932 387,554 13,635 657 574,645	228.275 238.071 1.273 150.387 49.130 1,325,519 - 2,986 5.897 2,001,537
Intermediate Farm Assets Breeding livestock Machinerv and equipment Titled vehicles Other intermediate assets Total intermediate farm assets	7,982 868.247 66,289 318.135 1,260,653	1,374 747,526 55,524 262,944 1,067,368	15,205 539,119 60,912 148,911 764,147	1,560.641 120,479 698.462 2,379,582
Long Term Farm Assets Farm land Buildings and improvements Other long-term assets Total long-term farm assets Total Farm Assets	1,400,396 326,787 112,616 1,839,799 4,044,082	951,712 261,808 129,902 1,343,422 3,049,886	985.946 174.883 46.861 1.207.690 2,546,482	2,484,063 661.940 180.235 3.326.239 7,707,358
Total Nonfarm Assets Total Assets	496.687 4,540,770	295.811 3,345,696	383.928 2,930,410	745.779 8,453,136
Liabilities Current Farm Liabilities Accrued interest Accounts pavable Current notes Government crop loans Principal due on term debt Total current farm liabilities	25,316 41,796 433,989 - 76,355 577,457	24,945 31.807 457,397 - 67,021 581,169	19,114 37.817 247,008 - 52.850 356,789	43,854 80,122 826,431 - 132,768 1,083,175
Total intermediate farm liabs Total long term farm liabilities Total farm liabilities	192,112 648,567 1,418,136	208,304 508,415 1,297,888	124,037 446,336 927,162	317,551 1,230,618 2,631,343
Total nonfarm liabilities Total liabs excluding deferreds Total deferred liabilities Total liabilities	88.828 1,506.964 349.109 1,856,073	73,055 1,370,943 287,261 1,658,204	85,347 1,012,509 195,610 1,208,119	114,349 2,745,692 801,798 3,547,490
Retained earnings Market valuation equity Net worth (farm and nonfarm) Net worth excluding deferreds Net worth change Percent net worth change	2,025,956 658,741 2,684,697 3,033,806 208,704 8 %	1,117,369 570,124 1,687,492 1,974,753 -9,263 -1 %	1,263,632 458,659 1,722,291 1,917,901 172,397 11 %	4,121,711 783.936 4,905,647 5,707,445 382,639 8 %
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	61 % 15 % 35 % 41 % 33 %	91 % 20 % 38 % 50 % 41 %	62 % 16 % 37 % 41 % 35 %	54 % 13 % 37 % 42 % 32 %

Statement Of Cash Flows Minnesota and North Dakota Farm Business Management Education Red River Valley, 2020 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	216	43	43	44
Beginning cash (farm & nonfarm)	87,184	75,894	61,594	158,237
Cash Provided By Operating Activities				
Gross cash farm income	1,220,291	846,032	833,936	2,483,529
Total cash farm expense	-1,013,091	-736,759	-674,525	-2,061,797
Net cash from hedging transactions	-9,321	-11,694	-1,198	-18,427
Cash provided by operating	197,879	97,580	158,213	403,306
Cash Provided By Investing Activities				
Sale of breeding livestock	345	-	-	-
Sale of machinery & equipment	19,673	21,235	8,807	28,668
Sale of titled vehicles	1,683	651	595	5,336
Sale of farm land	25,407	16,327	14,212	94,882
Sale of farm buildings	3,956	-	9,173	1,946
Sale of other farm assets	4,564	4,630	2,205	3,589
Sale of nonfarm assets	9,281	1,527	5,313	7,547
Purchase of breeding livestock	-823	-574	-744	-
Purchase of machinery & equip.	-98,906	-77,752	-60,634	-182,335
Purchase of titled vehicles	-11,764	-5,805	-9,024	-27,230
Purchase of farm land	-72,524	-41,421	-67,616	-117,281
Purchase of farm buildings	-29,699	-4,007	-6,444	-71,850
Purchase of other farm assets	-7,535	-4,144	-6,624	-10,676
Purchase of nonfarm assets	-18,681	-11,379	-26,347	-12,047
Cash provided by investing	-175,022	-100,712	-137,127	-279,450
Cash Provided By Financing Activities				
Money borrowed	824,233	679,047	395,467	1,800,722
Principal payments	-769,569	-640,513	-361,122	-1,758,068
Personal income	31,402	35,680	27,148	28,731
Family living/owner withdrawals	-68,597	-66,828	-60,912	-89,875
Income and social security tax	-15,616	-8,987	-14,121	-29,411
Capital contributions	446	-	- · · , · <u>-</u>	,
Capital distributions	-463	-	-	-
Dividends paid	-	-	-	-
Cash gifts and inheritances	1,362	594	3,166	2,367
Gifts given	-1,045	-1,505	-342	-2,687
Other cash flows	-	-	- •	_,
Cash provided by financing	2,153	-2,512	-10,717	-48,221
Net change in cash balance	25,009	-5,645	10,369	75,634
Ending cash (farm & nonfarm)	112,048	70,171	71,506	233,906
Discrepancy	145	78	457	-34

Financial Standards Measures Minnesota and North Dakota Farm Business Management Education Red River Valley, 2020 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	216	43	43	44
Liquidity Current ratio Working capital Working capital to gross inc	1.63 366,174 29.7 %	1.10 57,926 7.7 %	1.61 217,855 26.3 %	1.85 918,363 35.1 %
Solvency (market) Farm debt to asset ratio Farm equity to asset ratio Farm debt to equity ratio	43 % 57 % 0.76	52 % 48 % 1.06	44 % 56 % 0.78	44 % 56 % 0.79
Profitability (cost) Rate of return on farm assets Rate of return on farm equity Operating profit margin Net farm income EBITDA	5.7 % 7.1 % 14.2 % 199,529 321,078	-1.1 % -7.8 % -3.5 % -10,912 97,734	6.4 % 8.7 % 15.0 % 144,346 225,746	8.0 % 11.0 % 18.9 % 525,459 746,931
Repayment Capacity Capital debt repayment capacity Capital debt repayment margin Replacement margin Term debt coverage ratio Replacement coverage ratio	242,901 133,267 85,275 2.22 1.54	28,494 -67,389 -105,510 0.30 0.21	163,427 86,119 53,832 2.11 1.49	612,193 411,877 321,016 3.06 2.10
Efficiency Asset turnover rate (cost) Operating expense ratio Depreciation expense ratio Interest expense ratio Net farm income ratio	39.7 % 74.0 % 5.6 % 4.4 % 16.0 %	32.6 % 87.1 % 7.5 % 6.9 % -1.4 %	42.9 % 72.8 % 5.7 % 4.5 % 17.0 %	42.6 % 71.4 % 4.8 % 4.1 % 19.7 %

Crop Production and Marketing Summary Minnesota and North Dakota Farm Business Management Education Red River Valley, 2020 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
	All Fallis	LOW 20 //	40 - 00 //	<u> </u>
Number of farms	216	43	43	44
Acreage Summary				
Total acres owned	408	294	288	733
Total crop acres	2,041	1,431	1,443	3,712
Crop acres owned	382	259	223	675
Crop acres cash rented	1,616	1,157	1,157	2,983
Crop acres share rented	43	16	63	54
Total pasture acres	11	6	43	-
Percent crop acres owned	19 %	18 %	15 %	18 %
Mach invest/crop acre cost	336	389	314	342
Mach invest/crop acre market	440	521	402	442
Average Price Received (Cash Sal	es Only)			
Soybeans per bushel	8.78	8.92	8.90	8.89
Wheat, Spring per bushel	4.95	4.90	4.82	4.87
Corn per bushel	3.12	3.15	3.31	3.12
Soybeans Seed per bushel	9.56	-	-	9.93
Sunflowers per cwt	18.97	-	-	-
Soybeans, Food per bushel	12.79	-	-	-
Hay, Alfalfa per ton	125.69	-	-	-
Barley per bushel	4.44	-	-	-
Beans, Navy per cwt	27.27	-	-	-
Beans, Black Turtle per cwt	29.13	-	-	-
Average Yield Per Acre				
Soybeans (bushel)	38.14	33.94	37.49	40.69
Corn (bushel)	170.44	163.03	167.80	170.53
Wheat, Spring (bushel)	60.98	56.37	57.22	63.47
Sugar Beets (ton)	25.59	25.17	26.12	25.13
Soybeans Seed (bushel)	39.06	45.67	37.21	38.86
Soybeans, Food (bushel)	41.01	41.34	-	46.64
Sunflowers (cwt)	19.04	17.98	-	-
Barley (bushel)	68.75	-	-	-
Beans, Pinto (cwt)	21.36	-	-	22.43
Hay, Alfalfa (ton)	4.11	-	-	-
Beans, Navy (cwt)	17.34	-	-	-
Beans, Black Turtle (cwt)	19.21	-	-	-
Canola (cwt)	19.50	-	-	-
Corn Silage (ton)	18.68	-	-	-

Operator and Labor Information Minnesota and North Dakota Farm Business Management Education Red River Valley, 2020 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	216	43	43	44
Operator Information				
Average number of operators	1.1	1.0	1.1	1.3
Average age of operators	47.2	45.6	46.2	49.6
Average number of years farming	23.8	23.2	22.4	26.8
Results Per Operator				
Working capital	333,166	59,305	207,252	684,881
Total assets (market)	4,131,450	3,425,356	2,787,779	6,304,034
Total liabilities	1,688,761	1,697,685	1,149,317	2,645,585
Net worth (market)	2,442,689	1,727,671	1,638,462	3,658,448
Net worth excl deferred liabs	2,760,329	2,021,771	1,824,552	4,256,399
Gross farm income	1,122,649	773,534	788,645	1,949,801
Total farm expense	942,920	784,514	654,311	1,566,000
Net farm income from operations	179,729	-10,981	134,334	383,802
Net nonfarm income	28,572	36,530	25,827	21,426
Family living & tax withdrawals	76,542	78,501	68,718	88,144
Total acres owned	371.6	300.7	274.1	546.9
Total crop acres	1,857.2	1,465.1	1,373.0	2,768.5
Crop acres owned	347.6	264.8	212.4	503.5
Crop acres cash rented	1,470.7	1,184.3	1,100.3	2,224.8
Crop acres share rented	38.9	16.0	60.3	40.3
Total pasture acres	9.6	6.0	41.0	-
Labor Analysis				
Number of farms	216	43	43	44
Total unpaid labor hours	2,002	1,767	1,855	2,749
Total hired labor hours	2,123	1,295	1,042	5,331
Total labor hours per farm	4,125	3,063	2,897	8,080
Unpaid hours per operator	1,822	1,810	1,764	2,050

Household and Personal Expenses Minnesota and North Dakota Farm Buisness Management Education Red River Valley, 2020 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	39	6	11	6
Average family size	3.0	2.0	3.0	2.7
Family Living Expenses				
Food and meals expense	9,653	7,389	8,713	10,917
Medical care	4,551	2,274	4,293	4,201
Health insurance	5,744	2,972	5,452	13,089
Cash donations	1,594	443	2,351	2,270
Household supplies	3,419	2,931	2,667	3,949
Clothing	1,969	2,002	1,163	2,517
Personal care	3,334	368	1,475	7,829
Child / Dependent care	428	221	835	-
Alimony and child support	129	-	-	-
Gifts	1,831	211	1,396	1,933
Education	1,847	576	2,812	2,084
Recreation	4,606	2,733	3,046	9,241
Utilities (household share)	3,605	3,694	3,553	3,524
Personal vehicle operating exp	3,455	2,937	3,511	4,124
Household real estate taxes	1,038	802	1,025	2,152
Dwelling rent	289	1,882	-	-
Household repairs	3,413	1,059	2,545	8,319
Personal interest	3,568	2,440	3,705	5,052
Disability / Long term care ins	157	-	245	569
Life insurance payments	4,353	2,350	6,769	4,344
Personal property insurance	487	774	507	734
Miscellaneous	6,486	7,014	9,739	1,896
Total cash family living expense	65,955	45,070	65,803	88,744
Family living from the farm	-	-	-	-
Total family living	65,955	45,070	65,803	88,744
Other Nonfarm Expenditures				
Income taxes	17,509	3,698	34,071	31,078
Furnishing & appliance purchases	-	-	-	-
Nonfarm vehicle purchases	7,200	2,917	8,473	9,480
Nonfarm real estate purchases	-5,444	-	2,309	-
Other nonfarm capital purchases	-3,225	-	-2,934	-
Nonfarm savings & investments	6,497	-3,262	12,241	11,389
Total other nonfarm expenditures	22,538	3,354	54,160	51,946
Total cash family living				
investment & nonfarm capital purch	88,493	48,424	119,963	140,690

Financial Summary Minnesota and North Dakota Farm Buisness Management Education Red River Valley, 2020 (Farms Sorted By Gross Farm Income)

	Avg. Of All Farms	100,001 - 250,000	250,001 - 500,000	500,001 - 1,000,000	1,000,001- 2,000,000	Over 2,000,000
Number of farms	216	13	32	74	61	33
Income Statement Gross cash farm income Total cash farm expense Net cash farm income Inventory change Depreciation Net farm income from operations Gain or loss on capital sales Average net farm income Median net farm income	1,220,291 1,013,091 207,199 59,412 -69,076 197,535 1,994 199,529 145,314	$186,221 \\ 166,127 \\ 20,094 \\ 46,754 \\ -5,824 \\ 61,025 \\ 100 \\ 61,125 \\ 51,254 \\ \end{cases}$	373,191 282,486 90,705 28,213 -22,300 96,618 4,482 101,100 94,643	730,771 582,720 148,051 45,815 -45,551 148,315 -1,714 146,602 115,483	1,410,339 1,159,344 250,994 32,855 -85,751 198,098 -25 198,073 180,681	3,299,679 2,834,146 465,533 174,208 -167,338 472,403 12,555 484,959 477,645
Profitability (cost) Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	5.7 % 7.1 % 14.2 % 39.7 %	9.0 % 19.4 % 21.2 % 42.4 %	7.4 % 9.9 % 19.4 % 38.1 %	6.4 % 8.3 % 16.3 % 39.0 %	4.8 % 5.6 % 12.6 % 38.1 %	5.7 % 7.1 % 13.7 % 41.5 %
Profitability (market) Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	5.2 % 6.8 % 16.7 % 31.0 %	6.3 % 11.8 % 18.3 % 34.3 %	5.8 % 7.6 % 21.1 % 27.6 %	6.1 % 8.1 % 21.1 % 29.0 %	5.3 % 6.9 % 17.5 % 30.4 %	4.4 % 5.5 % 13.4 % 33.0 %
Liquidity & Repayment (end of year) Current assets Current liabilities Current ratio Working capital Change in working capital Working capital to gross inc Term debt coverage ratio Replacement coverage ratio Term debt to EBITDA	943,631 577,457 1.63 366,174 123,375 29.7 % 2.22 1.54 2.33	164,453 106,797 1.54 57,656 33,459 28.3 % 2.44 1.93 2.21	321,004 152,724 2.10 168,279 57,156 42.8 % 2.96 1.71 1.97	623,589 339,114 1.84 284,475 81,102 38.0 % 2.52 1.70 1.84	1,011,453 643,792 1.57 367,661 117,454 26.5 % 1.92 1.38 2.62	2,524,308 1,636,451 1.54 887,857 337,533 26.5 % 2.20 1.54 2.48
Solvency (end of year at cost) Number of farms Total assets Total liabilities Net worth Net worth change Farm debt to asset ratio Total debt to asset ratio Change in earned net worth %	216 3,532,920 1,506,964 2,025,956 160,042 45 % 43 % 9 %	13 655,625 405,430 250,194 44,903 61 % 62 % 22 %	32 1,503,464 525,984 977,480 138,678 41 % 35 % 17 %	74 2,250,227 893,062 1,357,165 114,323 42 % 40 % 9 %	61 4,036,935 1,732,949 2,303,986 145,928 45 % 43 % 7 %	33 8,854,769 3,959,278 4,895,491 362,925 47 % 45 % 8 %
Solvency (end of year at market) Number of farms Total assets Total liabilities Net worth Total net worth change Farm debt to asset ratio Total debt to asset ratio Change in total net worth %	216 4,540,770 1,856,073 2,684,697 208,704 43 % 41 % 8 %	13 802,534 453,162 349,372 41,883 58 % 56 % 14 %	32 2,085,524 653,172 1,432,351 156,395 38 % 31 % 12 %	74 3,054,895 1,116,781 1,938,114 158,714 39 % 37 % 9 %	61 5,071,027 2,040,430 3,030,597 252,498 42 % 40 % 9 %	33 11,113,119 5,030,807 6,082,312 370,148 47 % 45 % 6 %
Nonfarm Information Net nonfarm income Farms reporting living expenses Total family living expense Total living, invest, cap. purch	31,402 39 65,955 88,493	26,453 2 - -	26,601 8 49,230 43,000	37,479 12 62,816 85,271	26,624 13 74,802 112,647	30,388 2 - -
Crop Acres Total crop acres Total crop acres owned Total crop acres cash rented Total crop acres share rented Machinery value per crop acre	2,041 382 1,616 43 440	478 120 333 25 191	720 182 497 41 484	1,334 260 1,009 65 457	2,493 440 2,045 8 417	4,841 874 3,917 50 456

Financial Summary Minnesota and North Dakota Farm Buisness Management Education Red River Valley, 2020 (Farms Sorted By Age of Operator)

	Avg. Of All Farms	Less Than 31	<u> 31 - 40</u>	<u>41 - 50</u>	<u>51 - 60</u>	Over 60
Number of farms	216	27	50	43	48	48
Income Statement Gross cash farm income Total cash farm expense Net cash farm income Inventory change Depreciation Net farm income from operations Gain or loss on capital sales Average net farm income Median net farm income	$\begin{array}{c} 1,220,291\\ 1,013,091\\ 207,199\\ 59,412\\ -69,076\\ 197,535\\ 1,994\\ 199,529\\ 145,314\end{array}$	602,598 532,590 70,008 61,834 -17,822 114,020 149 114,169 80,475	1,068,932 861,442 207,489 5,115 -50,681 161,923 91 162,014 132,101	1,285,590 1,071,924 213,665 101,707 -74,682 240,691 517 241,207 178,963	1,675,612 1,389,747 285,865 64,448 -93,043 257,269 11,245 268,514 236,708	1,211,590 1,011,981 199,609 71,682 -88,077 183,215 -2,913 180,302 110,293
Profitability (cost) Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	5.7 % 7.1 % 14.2 % 39.7 %	9.9 % 21.2 % 15.0 % 66.3 %	6.9 % 10.3 % 13.5 % 50.8 %	6.0 % 8.3 % 15.7 % 38.4 %	5.9 % 7.1 % 14.5 % 40.3 %	3.9 % 4.2 % 12.8 % 30.5 %
Profitability (market) Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	5.2 % 6.8 % 16.7 % 31.0 %	9.7 % 20.5 % 16.0 % 60.8 %	6.6 % 10.1 % 14.8 % 44.9 %	4.9 % 7.0 % 15.6 % 31.5 %	5.2 % 6.4 % 17.4 % 29.8 %	4.2 % 5.0 % 18.8 % 22.4 %
Liquidity & Repayment (end of year) Current assets Current liabilities Current ratio Working capital Change in working capital Working capital to gross inc Term debt coverage ratio Replacement coverage ratio Term debt to EBITDA	943,631 577,457 1.63 366,174 123,375 29.7 % 2.22 1.54 2.33	351,067 207,659 1.69 143,408 67,039 22.6 % 2.96 2.87 2.17	672,220 480,436 1.40 191,784 48,845 17.9 % 2.16 1.72 2.49	1,158,888 710,089 1.63 448,799 130,327 33.7 % 2.32 1.68 2.29	1,217,197 741,846 1.64 475,351 172,347 28.9 % 2.22 1.46 2.22	1,093,267 603,326 1.81 489,941 177,499 39,6 % 2.01 1.24 2.42
Solvency (end of year at cost) Number of farms Total assets Total liabilities Net worth Net worth change Farm debt to asset ratio Total debt to asset ratio Change in earned net worth %	216 3,532,920 1,506,964 2,025,956 160,042 45 % 43 % 9 %	27 1,198,268 765,353 432,915 111,872 63 % 64 % 35 %	50 2,456,544 1,288,948 1,167,597 125,971 55 % 52 % 12 %	43 3,947,081 1,782,478 2,164,603 187,577 47 % 45 % 9 %	48 4,495,603 1,861,373 2,634,229 199,548 44 % 41 % 8 %	48 4,633,683 1,549,995 3,083,687 158,454 36 % 33 % 5 %
Solvency (end of year at market) Number of farms Total assets Total liabilities Net worth Total net worth change Farm debt to asset ratio Total debt to asset ratio Change in total net worth %	216 4,540,770 1,856,073 2,684,697 208,704 43 % 41 % 8 %	27 1,318,946 812,537 506,409 123,845 62 % 62 % 32 %	50 2,776,411 1,428,923 1,347,488 141,283 54 % 51 % 12 %	43 4,801,610 2,251,398 2,550,212 198,099 49 % 47 % 8 %	48 6,169,710 2,363,919 3,805,791 293,513 41 % 38 % 8 %	48 6,328,308 2,026,019 4,302,289 251,360 35 % 32 % 6 %
Nonfarm Information Net nonfarm income Farms reporting living expenses Total family living expense Total living, invest, cap. purch	31,402 39 65,955 88,493	29,762 9 41,199 41,371	24,433 5 52,324 16,774	50,266 8 81,112 130,418	18,157 5 71,878 105,328	35,931 12 77,630 118,753
Crop Acres Total crop acres Total crop acres owned Total crop acres cash rented Total crop acres share rented Machinery value per crop acre	2,041 382 1,616 43 440	1,600 93 1,464 43 113	1,700 169 1,488 42 328	2,155 364 1,757 34 452	2,666 620 2,015 31 464	1,918 544 1,311 63 648

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.

Coronavirus Food Assistance Program 2, a 2020 USDA FSA program that provides producers with financial assistance that gives them the ability to absorb some of the increased marketing costs associated with the COVID-19 pandemic, are included under "Other crop income per acre." "Government payments" are ARC and PLC payments as well as Coronavirus Food Assistance Program 1.

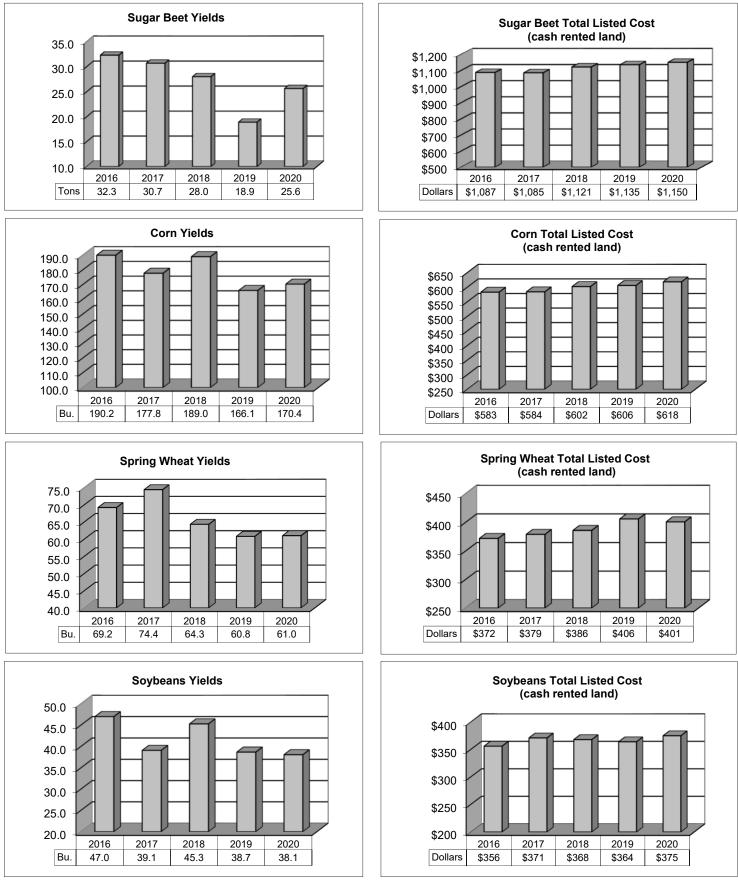
Several cost items, such as "utilities," "hired labor," and "interest paid," are listed under both "direct" and "overhead" costs because some of these costs are specific to that crop whereas others are general overhead costs of the farm. For example, "Machinery leases" as direct expense refers to machinery 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 All Farms
Number of farms	10
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	$182.42 \\ 69.13 \\ 100.00 \\ 4.43 \\ 306.15 \\ 0.76 \\ 36.88 \\ 343.79$
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drying expense 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	$\begin{array}{c} 18.41\\ 59.00\\ 26.65\\ 12.60\\ 0.25\\ 0.47\\ 15.00\\ 34.99\\ 10.79\\ 2.41\\ 116.33\\ 2.12\\ 3.32\\ 4.06\\ 306.40\\ 37.39\end{array}$
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	$18.82 \\ 3.62 \\ 0.61 \\ 6.31 \\ 5.45 \\ 4.46 \\ 2.31 \\ 21.20 \\ 4.14 \\ 66.94 \\ 373.34 \\ -29.55 \\ 1000 \\ -29.55 \\ -2$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	26.97 -2.58 27.07 -29.64
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	4.43 5.40 4.47 4.86
Net value per unit Machinery cost per acre Est. labor hours per acre	4.43 87.69 1.75

Beans, Navy on Cash Rent

	Avg. Of All Farms
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	302.55 17.40 100.00 28.53 496.37 150.73 28.53 675.63
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Hired labor Land rent Operating interest Total direct expenses per acre Return over direct exp per acre	$57.48 \\ 26.94 \\ 56.48 \\ 32.15 \\ 44.79 \\ 21.09 \\ 0.99 \\ 155.52 \\ 7.57 \\ 403.01 \\ 272.62$
Overhead Expenses Hired labor Machinery leases Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	$\begin{array}{c} 11.13\\ 2.08\\ 3.76\\ 3.83\\ 2.12\\ 4.21\\ 8.88\\ 18.73\\ 2.03\\ 56.77\\ 459.78\\ 215.85\end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	215.85 22.76 193.08
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	23.17 26.43 16.12 17.43
Net value per unit Machinery cost per acre Est. labor hours per acre	28.53 95.01 1.92

Beans, Pinto on Owned Land

	Av <u>g</u> . Of All Farms
Number of farms	6
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	146.82 21.05 100.00 29.36 618.06 2.87 36.94 657.88
Direct Expenses Seed and plants Fertilizer Crop chemicals Cover crop expense Crop insurance Fuel & oil Repairs Custom hire Operating interest Total direct expenses per acre Return over direct exp per acre	$74.20 \\ 51.41 \\ 78.85 \\ 0.15 \\ 40.06 \\ 20.26 \\ 50.76 \\ 1.21 \\ 9.43 \\ 326.33 \\ 331.55 \\$
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	$\begin{array}{r} 39.40\\ 0.74\\ 18.38\\ 7.41\\ 6.85\\ 4.80\\ 41.50\\ 50.05\\ 1.82\\ 170.95\\ 497.28\\ 160.60\end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	- 160.60 19.69 140.90
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	15.50 23.63 21.73 22.67
Net value per unit Machinery cost per acre Est. labor hours per acre	29.36 127.57 1.71

Beans, Pinto on Cash Rent

	Av <u>g</u> . Of All Farms
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	$\begin{array}{c} 214.65\\ 20.12\\ 100.00\\ 31.23\\ 628.23\\ 21.71\\ 15.51\\ 665.45\end{array}$
Direct Expenses Seed and plants Fertilizer Crop chemicals Cover crop expense Crop insurance Fuel & oil Repairs Land rent Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	$\begin{array}{c} 64.00\\ 35.00\\ 70.10\\ 1.14\\ 32.65\\ 16.48\\ 35.91\\ 91.60\\ 7.86\\ 0.11\\ 354.86\\ 310.59\end{array}$
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	$\begin{array}{c} 16.60\\ 0.28\\ 8.21\\ 3.96\\ 7.48\\ 4.23\\ 40.50\\ 3.41\\ 84.66\\ 439.52\\ 225.92\end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	225.92 30.30 195.62
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	17.64 21.85 20.00 21.50
Net value per unit Machinery cost per acre Est. labor hours per acre	31.23 96.29 1.83

Corn on Owned Land

	Ava. Of All Farms	Low 20%	<u> 40 - 60%</u>	High 20%
Number of farms	63	12	12	13
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Hedging gains/losses per acre Crop insurance per acre Other crop income per acre Gross return per acre	$\begin{array}{c} 222.54 \\ 174.65 \\ 100.00 \\ 3.95 \\ 689.73 \\ -1.46 \\ 12.61 \\ 42.11 \\ 742.99 \end{array}$	149.09 148.92 100.00 3.63 540.20 1.37 40.25 581.82	350.44 174.79 100.00 3.89 680.56 -3.41 3.29 48.98 729.42	250.39 194.24 100.00 4.28 831.79 25.65 36.31 893.75
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drving 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	$\begin{array}{c} 92.19\\ 116.51\\ 26.70\\ 21.00\\ 7.89\\ 0.43\\ 24.74\\ 54.94\\ 4.85\\ 1.63\\ 0.59\\ 0.23\\ 17.98\\ 3.65\\ 373.32\\ 369.67\end{array}$	97.25 128.69 33.62 21.15 6.86 - 21.97 66.48 1.69 - - - - - - - - - - - - - - - - - - -	$\begin{array}{c} 87.08\\ 115.91\\ 22.84\\ 22.02\\ 6.42\\ 1.30\\ 23.46\\ 59.08\\ 5.12\\ 2.96\\ 0.60\\ 0.62\\ 21.78\\ 1.96\\ 371.14\\ 358.28\end{array}$	97.37 112.13 24.70 23.25 9.81 - 24.72 48.11 8.68 1.66 0.30 - 16.58 1.26 368.57 525.18
Overhead Expenses Custom hire Hired labor Machinerv 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	$\begin{array}{c} 1.51\\ 33.90\\ 8.48\\ 1.19\\ 24.96\\ 9.74\\ 7.42\\ 4.38\\ 43.05\\ 49.91\\ 5.37\\ 189.90\\ 563.22\\ 179.77\end{array}$	$\begin{array}{c} 1.82\\ 26.39\\ 4.69\\ 0.49\\ 22.40\\ 9.96\\ 8.43\\ 5.18\\ 42.38\\ 43.86\\ 3.29\\ 168.90\\ 563.30\\ 18.52\end{array}$	$\begin{array}{r} 3.09\\ 43.85\\ 3.30\\ 2.91\\ 26.55\\ 9.88\\ 8.89\\ 3.90\\ 31.67\\ 53.06\\ 5.55\\ 192.64\\ 563.78\\ 165.64\end{array}$	$\begin{array}{c} 0.23\\ 25.20\\ 19.06\\ 0.10\\ 25.97\\ 9.81\\ 5.61\\ 4.74\\ 39.40\\ 53.94\\ 3.22\\ 187.28\\ 555.85\\ 337.90\\ \end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	32.13 211.90 46.17 165.73	33.16 51.68 53.72 -2.04	28.58 194.23 53.77 140.45	36.48 374.38 35.23 339.15
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	2.14 3.22 2.74 3.00	2.65 3.78 3.28 3.64	2.12 3.23 2.78 3.09	1.90 2.86 2.35 2.54
Net value per unit Machinery cost per acre Est. labor hours per acre	3.94 144.72 2.45	3.63 142.12 2.17	3.87 144.67 2.77	4.28 155.51 1.91

Corn on Cash Rent

	Ava. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	114	22	23	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	$528.95 \\ 169.35 \\ 100.00 \\ 3.90 \\ 659.98 \\ -5.45 \\ 16.64 \\ 44.54 \\ 715.70 \\ \end{cases}$	$\begin{array}{c} 883.58\\ 161.09\\ 100.00\\ 3.74\\ 602.65\\ -13.07\\ 8.11\\ 52.76\\ 650.45\end{array}$	474.68 172.98 100.00 3.82 661.49 -4.88 8.13 40.20 704.95	439.54 181.15 100.00 4.26 772.44 21.86 44.71 839.02
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drving 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	$\begin{array}{c} 90.41 \\ 120.94 \\ 27.45 \\ 20.25 \\ 7.62 \\ 0.37 \\ 22.72 \\ 50.87 \\ 8.46 \\ 2.69 \\ 146.11 \\ 1.39 \\ 0.41 \\ 16.04 \\ 2.76 \\ 518.49 \\ 197.22 \end{array}$	94.22 124.17 27.44 21.82 6.62 0.38 21.18 47.06 14.78 5.79 159.56 0.15 - 19.98 2.71 545.87 104.58	$\begin{array}{c} 92.48\\ 119.15\\ 26.20\\ 20.46\\ 6.96\\ 0.80\\ 22.47\\ 51.20\\ 5.51\\ 1.19\\ 130.41\\ 2.55\\ 0.38\\ 16.68\\ 2.58\\ 499.01\\ 205.94\end{array}$	$\begin{array}{c} 84.30\\ 117.88\\ 28.89\\ 19.39\\ 7.86\\ 0.38\\ 24.39\\ 48.39\\ 4.09\\ 1.57\\ 131.54\\ 0.40\\ 0.63\\ 13.79\\ 2.76\\ 486.25\\ 352.77\end{array}$
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	$\begin{array}{c} 0.55\\ 21.49\\ 9.41\\ 2.36\\ 7.61\\ 5.68\\ 3.78\\ 5.35\\ 38.84\\ 4.81\\ 99.88\\ 618.37\\ 97.33\end{array}$	$\begin{array}{c} 0.38\\ 17.93\\ 6.39\\ 5.83\\ 4.76\\ 4.65\\ 2.23\\ 6.45\\ 27.68\\ 5.28\\ 81.58\\ 627.45\\ 23.00\\ \end{array}$	$\begin{array}{c} 0.73\\ 20.88\\ 8.56\\ 0.80\\ 10.46\\ 7.41\\ 4.70\\ 7.46\\ 48.03\\ 6.19\\ 115.22\\ 614.23\\ 90.72 \end{array}$	20.80 22.75 0.65 7.50 5.02 4.02 4.33 50.77 3.57 119.41 605.66 233.35
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	30.58 127.92 41.28 86.63	29.23 52.23 28.16 24.07	29.71 120.43 46.38 74.05	35.49 268.84 50.83 218.01
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	3.06 3.65 3.14 3.39	3.39 3.89 3.42 3.59	2.88 3.55 3.13 3.40	2.68 3.34 2.78 3.06
Net value per unit Machinery cost per acre Est. labor hours per acre	3.86 135.38 2.19	3.66 122.76 1.96	3.80 143.84 2.36	4.26 153.46 2.39

Hay, Alfalfa on Cash Rent

	Avg. Of All Farms
Number of farms	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	94.81 3.92 100.00 124.98 489.50 17.60 507.09
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	$\begin{array}{c} 19.05 \\ 48.20 \\ 4.67 \\ 2.45 \\ 17.76 \\ 48.47 \\ 131.48 \\ 37.08 \\ 16.04 \\ 6.03 \\ 331.23 \\ 175.86 \end{array}$
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	$\begin{array}{c} 2.79\\ 21.81\\ 1.75\\ 0.28\\ 7.52\\ 4.87\\ 3.40\\ 2.67\\ 31.43\\ 5.44\\ 81.97\\ 413.19\\ 93.90\end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	21.67 115.57 37.20 78.37
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	84.57 105.49 95.47 104.97
Net value per unit Machinery cost per acre Est. labor hours per acre	124.98 137.28 2.05

Soybeans on Owned Land

	Avg. Of All Farms	Low 20%	<u> 40 - 60%</u>	High 20%
Number of farms	81	16	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	273.80 39.22 100.00 9.96 390.85 -2.53 14.42 27.52 430.27	366.29 30.95 100.00 9.41 291.30 - 22.73 19.59 333.62	$\begin{array}{c} 172.38 \\ 42.36 \\ 100.00 \\ 9.50 \\ 402.29 \\ -1.86 \\ 12.48 \\ 23.31 \\ 436.22 \end{array}$	314.34 46.53 100.00 10.74 499.67 -6.51 14.51 40.00 547.67
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Storage Fuel & oil Repairs Custom hire Hired labor Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	59.48 7.83 32.98 18.89 0.34 12.66 28.56 4.47 0.82 0.62 8.52 2.28 177.45 252.82	62.26 11.00 30.04 23.16 0.22 12.97 33.58 6.10 	$56.37 \\ 11.30 \\ 36.88 \\ 15.95 \\ 0.97 \\ 12.03 \\ 32.21 \\ 3.77 \\ 0.46 \\ 3.66 \\ 6.19 \\ 1.52 \\ 181.31 \\ 254.91$	57.75 2.53 32.79 13.83 12.49 26.58 5.65 2.24 7.27 1.64 162.77 384.90
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	$\begin{array}{c} 0.75\\ 13.96\\ 4.87\\ 0.96\\ 22.12\\ 7.66\\ 5.70\\ 3.92\\ 41.50\\ 29.41\\ 3.58\\ 134.43\\ 311.88\\ 118.39\end{array}$	$\begin{array}{c} 1.08\\ 14.58\\ 0.15\\ 1.12\\ 20.51\\ 8.86\\ 8.45\\ 4.64\\ 21.19\\ 31.37\\ 3.30\\ 115.26\\ 310.20\\ 23.43\end{array}$	$\begin{array}{c} 1.05\\ 13.97\\ 15.67\\ 0.08\\ 25.35\\ 6.26\\ 3.19\\ 4.35\\ 55.04\\ 22.50\\ 4.76\\ 152.24\\ 333.54\\ 102.67\end{array}$	12.66 6.67 2.37 25.86 6.98 3.60 2.29 67.27 29.02 4.11 160.84 323.60 224.07
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	28.97 147.35 30.90 116.46	29.46 52.89 41.31 11.58	24.74 127.41 26.50 100.91	32.68 256.75 26.11 230.64
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	4.52 7.95 6.21 7.00	6.30 10.02 7.70 9.04	4.28 7.87 6.49 7.11	3.50 6.95 5.22 5.78
Net value per unit Machinery cost per acre Est. labor hours per acre	9.90 82.14 1.49	9.41 83.97 2.13	9.45 93.26 1.36	10.60 83.41 1.19

Soybeans on Cash Rent

	Ava. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	143	28	28	29
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	$\begin{array}{r} 666.38\\ 37.88\\ 100.00\\ 9.86\\ 373.56\\ -2.44\\ 25.80\\ 26.73\\ 423.65\end{array}$	$\begin{array}{c} 626.87\\ 30.92\\ 100.00\\ 9.16\\ 283.33\\ -4.14\\ 23.86\\ 23.16\\ 326.20\\ \end{array}$	685.11 39.79 100.00 9.77 388.66 -8.12 15.84 37.14 433.53	$\begin{array}{c} 609.03\\ 39.87\\ 100.00\\ 10.49\\ 418.07\\ -0.56\\ 66.89\\ 25.56\\ 509.96\end{array}$
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance 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	$56.99 \\ 8.94 \\ 33.38 \\ 17.54 \\ 0.53 \\ 12.28 \\ 29.37 \\ 3.55 \\ 1.08 \\ 133.14 \\ 1.36 \\ 0.33 \\ 8.05 \\ 2.12 \\ 308.67 \\ 114.99 \\ 134.91 \\ 14.99 \\ 1000 \\ $	$57.89\\8.35\\32.10\\18.25\\0.79\\13.46\\30.32\\4.00\\0.69\\138.82\\3.88\\0.82\\13.49\\3.21\\326.06\\0.14$	$57.03 \\ 9.49 \\ 33.31 \\ 15.44 \\ 0.20 \\ 11.45 \\ 24.82 \\ 2.61 \\ 1.68 \\ 149.30 \\ 2.11 \\ 0.19 \\ 8.07 \\ 1.44 \\ 317.15 \\ 116.38 \\ 149.38 \\ 149.30 \\ 2.11 \\ 0.19 \\ 317.15 \\ 116.38 \\ 149.30 \\ 317.15 \\ 317.15 \\ 316.38 \\ 317.15 \\ 316.38 \\ 317.15 \\ 316.38 \\ 317.15 \\ 316.38 \\ 317.15 \\ 316.38 \\ 317.15 \\ 316.38 \\ 317.15 \\ 316.38 \\ 317.15 \\ 316.38 \\ 317.15 \\ 316.38 \\ 317.15 \\ 316.38 \\ 317.15 \\ 316.38 \\ 317.15 \\ 316.38 \\ 317.15 \\ 316.38 \\ 317.15 \\ 316.38 \\ 317.15 \\ 316.38 \\ 317.15 \\ 316.38 \\ 317.15 \\ 316.38 \\ 317.15 \\ 316.38 \\$	55.27 6.69 30.90 16.63 0.17 11.90 28.57 4.63 121.36 0.12 0.15 8.77 1.32 286.48 223.48
Overhead Expenses Custom hire Hired labor Machinerv 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	$\begin{array}{c} 0.26 \\ 14.77 \\ 4.39 \\ 0.93 \\ 6.35 \\ 4.27 \\ 3.95 \\ 3.52 \\ 24.93 \\ 3.27 \\ 66.65 \\ 375.32 \\ 48.34 \end{array}$	$\begin{array}{c} 0.03 \\ 12.94 \\ 2.74 \\ 0.67 \\ 6.88 \\ 4.65 \\ 4.64 \\ 5.66 \\ 29.87 \\ 4.27 \\ 72.35 \\ 398.41 \\ -72.21 \end{array}$	$\begin{array}{c} 1.01\\ 9.47\\ 3.30\\ 2.20\\ 5.06\\ 3.31\\ 2.92\\ 4.18\\ 21.46\\ 3.56\\ 56.47\\ 373.62\\ 59.91\end{array}$	$\begin{array}{c} 0.28 \\ 18.05 \\ 3.64 \\ 0.66 \\ 7.03 \\ 4.92 \\ 4.29 \\ 2.53 \\ 23.40 \\ 1.51 \\ 66.32 \\ 352.80 \\ 157.17 \end{array}$
Government pavments Net return with govt pmts Labor & management charge Net return over lbr & mgt	27.89 76.23 27.56 48.67	28.08 -44.12 27.19 -71.31	30.03 89.94 21.08 68.86	26.58 183.75 26.28 157.47
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	8.15 9.91 7.85 8.58	10.54 12.88 10.59 11.47	7.97 9.39 7.51 8.04	7.19 8.85 5.88 6.54
Net value per unit Machinery cost per acre Est. labor hours per acre	9.80 77.86 1.38	9.03 86.99 1.46	9.56 69.69 1.18	10.47 73.73 1.19

Soybeans, Food on Owned Land

	Avg. Of All Farms
Number of farms	6
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	280.00 40.99 100.00 12.39 508.02 21.26 23.98 553.27
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	$50.13 \\ 6.71 \\ 43.87 \\ 19.91 \\ 16.69 \\ 37.07 \\ 2.14 \\ 0.22 \\ 9.48 \\ 2.03 \\ 188.26 \\ 365.01 \\ \end{cases}$
Overhead Expenses Custom hire 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	$\begin{array}{c} 0.48\\ 15.80\\ 0.92\\ 31.83\\ 8.54\\ 7.58\\ 5.67\\ 29.81\\ 16.64\\ 6.42\\ 123.70\\ 311.96\\ 241.31\end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	34.83 276.14 29.39 246.74
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	4.59 7.61 5.66 6.37
Net value per unit Machinery cost per acre Est. labor hours per acre	12.39 74.00 0.97

Soybeans, Food on Cash Rent

	Avg. Of All Farms
Number of farms	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	450.32 40.60 100.00 12.44 505.06 18.37 27.09 550.52
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Land rent Machinery leases Utilities Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	$\begin{array}{r} 46.33\\ 9.85\\ 38.41\\ 16.66\\ 16.35\\ 36.34\\ 3.61\\ 158.07\\ 1.48\\ 0.33\\ 9.56\\ 3.42\\ 340.39\\ 210.13\end{array}$
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	$\begin{array}{c} 16.35\\ 0.36\\ 5.46\\ 5.90\\ 4.32\\ 1.58\\ 17.93\\ 5.32\\ 57.22\\ 397.61\\ 152.91\end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	32.91 185.83 30.45 155.38
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	8.38 9.79 7.86 8.61
Net value per unit Machinery cost per acre Est. labor hours per acre	12.44 76.61 1.04

Soybeans, Seed on Owned Land

	Ava. Of <u>All Farms</u>
Number of farms	12
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	295.34 39.39 100.00 10.93 430.67 20.38 32.04 483.09
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Storage Fuel & oil Repairs Custom hire Machinery leases Marketing Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	$56.47 \\ 9.85 \\ 32.26 \\ 25.52 \\ 0.21 \\ 12.74 \\ 29.62 \\ 3.07 \\ 2.23 \\ 0.34 \\ 10.33 \\ 3.54 \\ 186.19 \\ 296.90 \\$
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	$\begin{array}{c} 27.63\\ 2.98\\ 0.22\\ 19.10\\ 6.88\\ 4.10\\ 4.33\\ 45.34\\ 19.73\\ 3.73\\ 134.04\\ 320.23\\ 162.87\end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	26.60 189.47 20.24 169.23
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	4.73 8.13 6.12 6.64
Net value per unit Machinery cost per acre Est. labor hours per acre	10.93 68.27 1.85

Soybeans, Seed on Cash Rent

	Avg. Of All Farms
Number of farms	23
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	$\begin{array}{c} 805.97\\ 39.00\\ 100.00\\ 10.99\\ 428.55\\ 20.55\\ 26.16\\ 475.26\end{array}$
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Storage Fuel & oil Repairs Custom hire Land rent Machinery leases Hauling and trucking Marketing Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	$57.78 \\ 12.17 \\ 36.14 \\ 21.80 \\ 0.43 \\ 13.13 \\ 28.41 \\ 6.31 \\ 129.85 \\ 1.47 \\ 0.17 \\ 0.59 \\ 8.32 \\ 3.14 \\ 319.71 \\ 155.55 \\ 120.000 \\ 100000 \\ 10000 \\ 10000 \\ 10000 \\ 10000 \\ 10000 \\ 10000 \\ 10000$
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	$\begin{array}{c} 19.82 \\ 1.48 \\ 5.87 \\ 3.47 \\ 2.98 \\ 1.60 \\ 19.04 \\ 3.62 \\ 57.89 \\ 377.60 \\ 97.66 \end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	27.73 125.40 27.29 98.11
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management Net value per unit Machinery cost per acre Est. labor hours per acre	8.20 9.68 7.77 8.47 10.99 68.61 1.56

Sugar Beets on Owned Land, Excluding Joint Venture

	Ava. Of <u>All Farms</u>	Low 20%	40 - 60%	
Number of farms	32	6	7	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	141.69 25.42 100.00 39.90 1,014.29 10.17 28.21 1,052.67	144.90 20.93 100.00 31.42 657.52 22.14 22.39 702.05	168.21 26.83 100.00 40.57 1,088.45 12.73 31.67 1,132.86	87.66 28.21 100.00 51.16 1,443.31 13.27 24.41 1,481.00
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	$\begin{array}{c} 219.89\\ 77.07\\ 129.90\\ 29.05\\ 49.43\\ 102.66\\ 24.96\\ 18.15\\ 1.73\\ 10.14\\ 27.07\\ 5.57\\ 695.64\\ 357.03\\ \end{array}$	$ \begin{array}{r} 194.68 \\ 72.83 \\ 143.31 \\ 35.88 \\ 49.76 \\ 123.36 \\ 29.69 \\ 8.73 \\ 0.79 \\ 47.06 \\ 0.42 \\ 706.49 \\ -4.44 \\ \end{array} $	$\begin{array}{c} 225.48\\ 69.89\\ 116.21\\ 28.71\\ 47.61\\ 105.55\\ 54.70\\ 41.71\\ 4.02\\ 35.98\\ 24.92\\ 12.85\\ 767.63\\ 365.23\\ \end{array}$	229.9399.11109.7030.7343.92110.4311.246.525.0814.844.92666.42814.58
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	$\begin{array}{c} 0.63\\ 59.32\\ 6.29\\ 3.28\\ 27.62\\ 14.53\\ 11.82\\ 6.74\\ 65.95\\ 94.48\\ 10.22\\ 300.88\\ 996.52\\ 56.15 \end{array}$	$\begin{array}{c} 1.71\\ 35.57\\ 18.72\\ 0.09\\ 30.49\\ 15.95\\ 5.29\\ 4.86\\ 59.57\\ 85.23\\ 3.20\\ 260.69\\ 967.18\\ -265.13\end{array}$	46.10 0.96 4.53 22.30 5.76 8.16 5.37 62.08 79.99 5.40 240.63 1,008.26 124.59	68.07 4.77 5.14 28.35 18.65 16.85 7.21 48.42 90.97 22.36 310.79 977.20 503.79
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	17.24 73.39 89.19 -15.80	1.84 -263.29 71.80 -335.09	20.90 145.49 97.95 47.54	23.08 526.87 136.27 390.60
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	27.37 39.20 37.02 40.53	33.76 46.21 44.00 47.43	28.61 37.58 35.15 38.80	23.62 34.63 32.48 37.31
Net value per unit Machinery cost per acre Est. labor hours per acre	39.90 285.43 4.32	31.42 311.65 2.75	40.57 297.59 4.36	51.16 271.78 6.01

Sugar Beets on Owned Land, Joint Venture

	Avg. Of All Farms
Number of farms	12
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	175.34 27.20 100.00 42.17 1,147.01 8.90 28.14 1,184.05
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	233.99 82.89 134.86 32.38 53.52 119.38 3.79 23.01 183.93 0.11 17.80 37.64 4.28 927.58 256.47
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	$\begin{array}{r} 1.45\\ 50.67\\ 16.53\\ 0.62\\ 28.48\\ 15.20\\ 15.33\\ 9.10\\ 65.87\\ 103.25\\ 12.27\\ 318.75\\ 1,246.33\\ -62.28\end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	21.85 -40.43 84.65 -125.08
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	34.10 45.82 43.66 46.77
Net value per unit Machinery cost per acre Est. labor hours per acre	42.17 303.92 4.68

Sugar Beets on Cash Rent, Excluding Joint Venture

	Avg. Of <u>All Farms</u>	Low 20%	40 - 60%	
Number of farms	50	10	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	262.07 24.39 100.00 38.65 942.80 26.97 28.25 998.02	312.34 21.47 100.00 29.54 634.12 1.92 21.21 657.24	205.69 26.76 100.00 36.32 971.94 2.30 22.08 996.32	204.61 30.17 100.00 47.32 1,427.60 42.92 24.34 1,494.86
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	$\begin{array}{c} 220.38\\ 79.67\\ 118.21\\ 32.75\\ 48.84\\ 111.32\\ 10.33\\ 26.73\\ 140.31\\ 2.38\\ 22.71\\ 19.86\\ 4.78\\ 838.27\\ 159.75\end{array}$	$\begin{array}{c} 214.00\\ 82.40\\ 122.70\\ 30.72\\ 50.83\\ 102.48\\ 11.17\\ 34.53\\ 154.48\\ 0.57\\ 29.72\\ 29.94\\ 3.22\\ 866.75\\ -209.51\end{array}$	$\begin{array}{c} 222.89\\ 69.25\\ 134.98\\ 41.43\\ 48.92\\ 122.57\\ 6.80\\ 24.08\\ 136.18\\ 1.61\\ 24.26\\ 17.67\\ 6.17\\ 856.81\\ 139.51\end{array}$	$\begin{array}{c} 227.30\\ 86.88\\ 110.83\\ 23.80\\ 49.96\\ 82.36\\ 2.70\\ 30.32\\ 130.29\\ 0.31\\ 10.33\\ 16.88\\ 2.26\\ 774.22\\ 720.64\end{array}$
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	$\begin{array}{c} 2.19\\ 72.96\\ 13.29\\ 1.31\\ 15.13\\ 11.54\\ 7.76\\ 9.75\\ 75.74\\ 11.72\\ 221.38\\ 1,059.65\\ -61.63\end{array}$	95.14 16.23 2.32 10.95 6.73 4.77 7.09 69.43 9.01 221.67 1,088.42 -431.17	$\begin{array}{c} 10.04\\ 57.77\\ 6.97\\ 0.36\\ 11.69\\ 14.52\\ 5.17\\ 8.27\\ 84.03\\ 23.26\\ 222.09\\ 1,078.90\\ -82.58\end{array}$	88.42 17.80 3.27 18.88 15.82 16.88 17.87 91.16 13.75 283.86 1,058.08 436.78
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	18.47 -43.16 98.87 -142.02	10.43 -420.74 72.09 -492.83	19.92 -62.67 111.61 -174.27	32.53 469.31 121.66 347.64
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	34.36 43.44 40.42 44.47	40.37 50.70 49.14 52.49	32.02 40.32 38.66 42.83	25.66 35.07 31.76 35.79
Net value per unit Machinery cost per acre Est. labor hours per acre	38.65 266.60 5.43	29.54 246.71 6.63	36.32 281.28 5.23	47.32 256.74 5.76

Sugar Beets on Cash Rent, Joint Venture

	Avg. Of <u>All Farms</u>	Low 20%	<u> </u>	High 20%
Number of farms	39	7	8	8
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	$\begin{array}{r} 310.30\\ 26.63\\ 100.00\\ 41.35\\ 1,101.15\\ 30.25\\ 26.45\\ 1,157.85\end{array}$	419.40 25.36 100.00 39.32 997.06 32.15 26.70 1,055.91	226.66 25.91 100.00 41.40 1,072.50 19.65 17.98 1,110.13	$\begin{array}{c} 233.60\\ 29.22\\ 100.00\\ 50.50\\ 1,475.49\\ 23.75\\ 27.41\\ 1,526.65\end{array}$
Direct Expenses Seed and plants Fertilizer Crop chemicals Cover crop expense 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	$\begin{array}{c} 229.08\\ 81.02\\ 124.31\\ 0.13\\ 30.54\\ 45.65\\ 95.20\\ 19.73\\ 25.95\\ 147.55\\ 192.15\\ 1.82\\ 27.48\\ 30.55\\ 4.78\\ 1,055.92\\ 101.93\end{array}$	$\begin{array}{c} 234.11\\72.03\\126.70\\ \\ 31.05\\46.06\\91.43\\51.09\\36.47\\172.60\\227.12\\6.34\\57.51\\40.30\\10.13\\1.202.95\\-147.03\end{array}$	$\begin{array}{c} 230.45\\ 100.80\\ 117.45\\ \hline \\ 22.61\\ 50.67\\ 84.62\\ 23.68\\ 14.88\\ 136.12\\ 186.47\\ 0.10\\ 8.69\\ 26.71\\ 2.00\\ 1,005.23\\ 104.90\\ \end{array}$	$\begin{array}{c} 227.53\\ 86.10\\ 97.85\\ 0.86\\ 28.84\\ 43.52\\ 87.22\\ 2.37\\ 21.48\\ 105.32\\ 278.51\\ 1.04\\ 39.69\\ 15.34\\ 2.39\\ 1,038.07\\ 488.59\end{array}$
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	$56.87 \\ 14.27 \\ 2.24 \\ 12.04 \\ 12.19 \\ 8.83 \\ 10.09 \\ 65.21 \\ 9.79 \\ 191.53 \\ 1,247.45 \\ -89.60$	$\begin{array}{r} 31.04\\ 8.62\\ 1.92\\ 6.60\\ 7.20\\ 5.73\\ 13.46\\ 60.82\\ 11.47\\ 146.84\\ 1,349.79\\ -293.88\end{array}$	$54.80 \\ 5.69 \\ 1.58 \\ 14.63 \\ 9.01 \\ 10.00 \\ 9.30 \\ 88.18 \\ 4.33 \\ 197.52 \\ 1,202.75 \\ -92.62$	$78.46 \\ 6.22 \\ 0.86 \\ 15.53 \\ 20.34 \\ 14.22 \\ 6.49 \\ 76.26 \\ 6.14 \\ 224.53 \\ 1,262.59 \\ 264.06 \\ \end{cases}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	19.45 -70.15 93.74 -163.89	16.49 -277.39 89.64 -367.03	19.01 -73.60 96.74 -170.34	21.26 285.32 123.23 162.09
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	39.65 46.84 43.98 47.50	47.44 53.23 50.26 53.79	38.80 46.43 44.24 47.97	35.53 43.21 40.74 44.95
Net value per unit Machinery cost per acre Est. labor hours per acre	41.35 245.48 4.20	39.32 271.55 3.58	41.40 253.22 4.18	50.50 211.84 4.97

Sunflowers on Cash Rent

	Avg. Of <u>All Farms</u>
Number of farms	11
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	206.89 19.03 100.00 19.85 377.75 13.63 24.89 416.27
Direct Expenses Seed and plants Fertilizer Crop chemicals Cover crop expense Crop insurance Drving expense Fuel & oil Repairs Custom hire Hired labor Land rent Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	$\begin{array}{r} 41.49\\ 44.56\\ 25.71\\ 3.12\\ 15.69\\ 1.18\\ 14.35\\ 35.32\\ 20.80\\ 2.54\\ 106.43\\ 6.92\\ 1.69\\ 319.80\\ 96.46\end{array}$
Overhead Expenses Custom hire 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	$\begin{array}{c} 0.20\\ 8.56\\ 2.00\\ 7.26\\ 8.68\\ 5.27\\ 4.70\\ 32.77\\ 4.71\\ 74.15\\ 393.96\\ 22.31\end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	23.59 45.90 39.36 6.54
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	16.81 20.71 17.44 19.51
Net value per unit Machinery cost per acre Est. labor hours per acre	19.85 108.12 1.95

Wheat, Spring on Owned Land

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	60	12	12	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	$\begin{array}{c} 262.94\\ 63.04\\ 100.00\\ 5.54\\ 349.35\\ -0.42\\ 11.28\\ 34.59\\ 394.79\end{array}$	261.11 58.73 100.00 5.29 310.89 - 2.68 25.01 338.57	243.81 60.20 100.00 5.58 336.20 - - 8.30 37.67 382.17	$\begin{array}{r} 305.25\\73.53\\100.00\\5.67\\417.17\\-1.81\\10.48\\40.86\\466.70\end{array}$
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drying expense Fuel & oil Repairs Custom hire Hired labor Machinery leases Marketing Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	$\begin{array}{c} 23.87\\ 80.68\\ 31.71\\ 15.29\\ 0.49\\ 13.20\\ 26.70\\ 9.69\\ 0.26\\ 0.74\\ 1.82\\ 6.55\\ 2.71\\ 213.73\\ 181.06\end{array}$	24.62 83.16 31.66 13.87 0.11 13.16 33.57 20.98 - 2.81 3.75 8.98 7.03 243.71 94.87	23.54 84.26 32.43 18.53 0.52 12.61 25.06 2.57 - - 7.36 2.06 208.93 173.24	23.6871.2632.2714.970.1613.9826.332.731.140.065.711.36193.65273.05
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	$\begin{array}{c} 17.14\\ 2.76\\ 1.19\\ 21.44\\ 7.56\\ 5.17\\ 4.64\\ 40.21\\ 27.10\\ 4.64\\ 131.86\\ 345.59\\ 49.21 \end{array}$	$\begin{array}{c} 17.86\\ 1.96\\ 1.83\\ 19.99\\ 8.98\\ 7.27\\ 4.79\\ 40.03\\ 31.06\\ 4.21\\ 137.98\\ 381.68\\ -43.11\end{array}$	$\begin{array}{c} 23.18\\ 2.62\\ 2.29\\ 19.90\\ 6.62\\ 3.51\\ 3.62\\ 33.22\\ 21.98\\ 4.78\\ 121.72\\ 330.65\\ 51.52\end{array}$	$\begin{array}{c} 15.62\\ 6.68\\ 1.08\\ 27.85\\ 6.82\\ 3.93\\ 3.61\\ 62.90\\ 22.16\\ 2.74\\ 153.39\\ 347.03\\ 119.67\end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	28.88 78.09 29.59 48.50	26.00 -17.11 41.75 -58.86	28.62 80.14 19.13 61.01	35.36 155.03 21.82 133.21
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	3.39 5.48 4.30 4.77	4.15 6.50 5.59 6.30	3.47 5.49 4.25 4.57	2.63 4.72 3.57 3.86
Net value per unit Machinery cost per acre Est. labor hours per acre	5.54 80.17 1.60	5.29 101.59 2.01	5.58 65.31 1.39	5.65 73.19 1.53

Wheat, Spring on Cash Rent

	Ava. Of All Farms	Low 20%	<u> </u>	High 20%
Number of farms	108	21	21	22
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	$\begin{array}{r} 484.07\\ 60.14\\ 100.00\\ 5.57\\ 335.10\\ 0.05\\ 16.72\\ 34.71\\ 386.58\end{array}$	371.97 50.52 100.00 5.31 268.41 -1.01 19.11 27.13 313.64	371.00 59.35 100.00 5.47 324.40 5.93 38.77 369.11	579.80 66.22 100.00 5.77 381.88 24.32 38.78 444.98
Direct Expenses Seed and plants Fertilizer Crop chemicals Cover crop expense Crop insurance Drving expense 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	$\begin{array}{c} 23.62 \\ 81.01 \\ 32.51 \\ 0.20 \\ 14.11 \\ 0.60 \\ 12.96 \\ 27.17 \\ 6.54 \\ 0.13 \\ 125.88 \\ 1.28 \\ 0.35 \\ 6.62 \\ 3.43 \\ 336.41 \\ 50.17 \end{array}$	$\begin{array}{c} 22.53\\ 81.90\\ 28.28\\ 0.96\\ 16.17\\ 0.48\\ 12.64\\ 31.20\\ 8.94\\ 0.10\\ 146.07\\ 3.32\\ 0.50\\ 10.59\\ 4.33\\ 368.02\\ -54.39 \end{array}$	$\begin{array}{c} 25.13\\ 80.59\\ 32.62\\ \\ 10.95\\ 0.19\\ 12.74\\ 21.99\\ 4.91\\ 0.55\\ 121.79\\ 1.26\\ 0.25\\ 8.56\\ 1.52\\ 323.05\\ 46.05\end{array}$	$\begin{array}{c} 21.01\\ 74.89\\ 30.93\\ \\ 11.98\\ 0.96\\ 14.76\\ 29.38\\ 4.31\\ 0.09\\ 115.12\\ \\ 0.30\\ 4.30\\ 3.31\\ 311.33\\ 133.65\\ \end{array}$
Overhead Expenses Hired labor Machinerv leases Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	$15.42 \\ 3.63 \\ 0.97 \\ 7.15 \\ 4.30 \\ 4.00 \\ 3.22 \\ 22.63 \\ 3.29 \\ 64.61 \\ 401.03 \\ -14.45 \\ \end{cases}$	$12.36 \\ 0.76 \\ 0.83 \\ 7.56 \\ 4.41 \\ 4.91 \\ 4.34 \\ 23.88 \\ 3.34 \\ 62.39 \\ 430.41 \\ -116.78$	12.62 2.26 2.02 6.07 3.49 4.23 2.12 18.01 3.09 53.91 376.97 -7.86	$\begin{array}{c} 17.64\\ 2.11\\ 0.38\\ 6.55\\ 4.19\\ 4.17\\ 2.18\\ 26.72\\ 3.34\\ 67.28\\ 378.62\\ 66.36\end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	28.88 14.43 28.48 -14.05	28.50 -88.27 27.02 -115.29	25.10 17.24 26.88 -9.64	36.91 103.28 30.01 73.27
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	5.59 6.67 5.33 5.81	7.29 8.52 7.06 7.60	5.44 6.35 5.18 5.63	4.70 5.72 4.21 4.66
Net value per unit Machinery cost per acre Est. labor hours per acre	5.57 75.34 1.38	5.29 81.88 1.41	5.47 60.95 1.23	5.77 77.16 1.57

Farm Finance Scorecard

Year _____

