Minnesota and North Dakota Farm Business Management Education

Red River Valley 2023 Report



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

RED RIVER VALLEY AVERAGES 2023 ANNUAL REPORT

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Instructor

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<u>Minnesota</u>	
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Minnesota West College - Barrett	Ron Dvergsten

North Dakota

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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 29th annual Red River Valley Report.

2023 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 2023 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 and agcentric.org.

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, and CSP.

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 \$30,000 per full time operator plus 5% of gross farm income 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.

<u>Liquidity</u>

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, Taxes, 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."

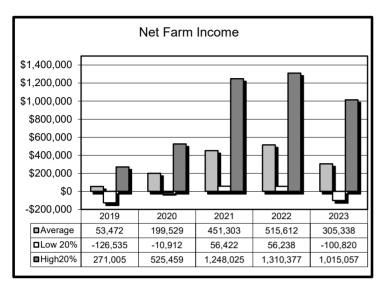
Operator and Labor Information

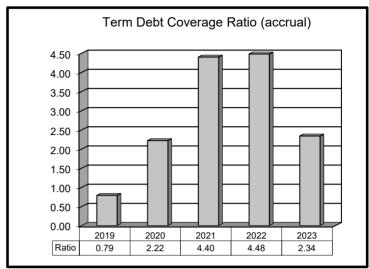
This table reports the average for the number of operators per farm, the operator's age, and the number of years farming.

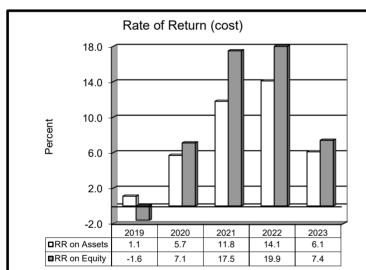
Nonfarm Summary

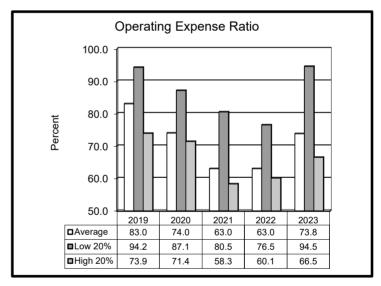
This table also reports nonfarm income. The figure reported is the average over all farms <u>not</u> just those reporting nonfarm income.

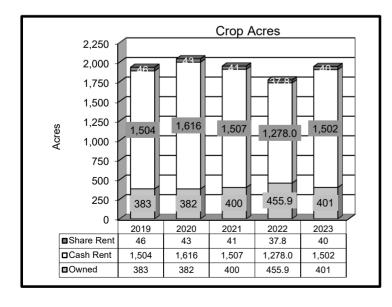
Five Year Trend of Financial Measures Red River Valley Farm Business Management Education

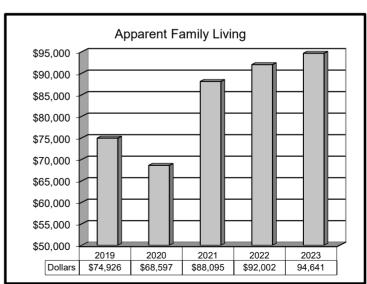












Farm Income Statement Minnesota and North Dakota Farm Business Management Education Red River Valley, 2023 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	203	40	40	41
Cash Farm Income				
Barley	5,874	3,043	8,440	6,566
Beans, Black Turtle	17,191	61,129	, =	8,418
Beans, Navy	9,786	, -	9,742	38,949
Beans, Pink	2,390	-	-	11,019
Beans, Pinto	4,159	-	-	13,038
Beans, Small Red	523	-	-	2,592
Canola	5,017	-	-	22,846
Corn	424,416	654,545	274,160	692,621
Corn Silage	7,323	18,437	8,230	1,463
Grass Seed, Fescue	2,170	11,014	-	-, 100
Hay, Alfalfa	9,378	8,992	11,604	_
Hay, Small Grain	103	0,002	11,004	_
Oats	2,083	238	2,037	7,332
Peas, Field	2,113	200	2,007	9,708
Potatoes	33,635	-	-	166,534
Radishes	3,840	954	-	100,334
	1,396	2,243	-	3,775
Rye			266 564	
Soybeans	370,977	338,695	266,561	647,681
Sugar Beets	393,647	56,212	203,608	1,057,737
Sunflowers	12,312	21,320	11,382	8,047
Wheat, Durum	979	07.000	445.000	404 770
Wheat, Spring	193,399	97,938	115,886	461,772
Hay	1,980	5,571	283	1,895
Miscellaneous crop income	10,255	4,150	7,001	2,222
Beef Cow-Calf, Beef Calves	103	-	60	453
Beef Backgrounding	1,250	2,884	2,636	805
Beef Finishing	2,710	132	704	12,434
Cull breeding livestock	98	-	428	70
Misc. livestock income	155	88	-	279
Crop government payments	744	551	86	231
CRP payments	1,179	1,135	1,427	890
Conservation govt payment	3,325	2,806	5,416	3,559
Other government payments	18,546	15,562	11,717	31,670
Custom work income	15,586	15,444	7,242	31,105
Patronage dividends, cash	24,220	20,797	12,932	46,760
Crop insurance income	27,554	20,853	18,740	48,903
Property insurance income	33	-	-	163
Sale of resale items	1,415	-	3,157	3,233
Farm rental income	21,079	27,689	15,383	38,078
Other farm income	46,200	48,668	35,724	76,019
Gross Cash Farm Income	1,679,143	1,441,089	1,034,585	3,458,869

Farm Income Statement (continued) Minnesota and North Dakota Farm Business Management Education Red River Valley, 2023 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	203	40	40	41
Cash Farm Expense				
Seed and plants	172,020	150,397	105,944	349,666
Fertilizer	213,354	229,831	151,158	399,745
Crop chemicals	120,772	96,875	67,744	249,466
Crop insurance	48,914	56,629	30,575	81,226
Drying expense	5,177	4,768	3,474	11,327
Storage	1,711	2,084	720	557
Irrigation energy	982	332	87	4,028
Packaging and supplies	246		688	126
Transaction fees	52	264	-	-
Crop miscellaneous	4,167	1,874	1,519	8,140
Consultants	4,796	4,321	4,480	7,252
Feeder livestock purchase	2,452	690	343	11,135
Purchased feed	856	114	1,403	2,507
Veterinary	68	127	123	55
Supplies	186	142	414	293
Livestock leases	84	142	414	418
Interest	59,706	70.722	40.645	109,635
Fuel & oil	64,709	61,624	39,178	133,940
	132,486	134,527	79,727	246,840
Repairs				
Custom hire	21,027	8,612	15,612	37,047
Hired labor	72,768	65,951	29,324	154,023
Land rent	241,145	234,161	164,857	494,373
Stock/quota lease	26,032	2,408	12,624	80,836
Machinery leases	17,798	14,703	9,336	27,492
Building leases	2,181	1,262	1,805	3,265
Real estate taxes	13,159	14,328	8,874	24,553
Farm insurance	23,481	23,362	17,323	41,483
Utilities	11,438	12,388	6,879	20,076
Hauling and trucking	6,238	173	3,367	17,905
Marketing	1,780	2,458	1,619	2,053
Dues & professional fees	10,268	8,332	5,655	18,993
Purchase of resale items	4,840	386	3,755	1,807
Miscellaneous	13,269	9,311	6,938	15,589
Total cash expense	1,298,164	1,213,156	816,190	2,555,849
Net cash farm income	380,979	227,933	218,395	903,020
Inventory Changes				
Prepaids and supplies	-35,070	-49,260	-3,689	-40,756
Accounts receivable	17,683	30,209	20,407	19,429
Hedging accounts	117	-28,274	3,910	25,516
Other current assets	2,774	10,812	2,915	522
Crops and feed	7,111	-142,585	-12,196	189,295
Market livestock	594	-1,834	674	4,106
Breeding livestock	105	69	76	380
Other assets	18,387	-32,643	17,883	68,219
Accounts payable	-1,001	-15,063	-15,548	-17,046
Accrued interest	-6,019	-10,637	-5,497	1,255
Total inventory change	4,680	-239,207	8,936	250,921
Net operating profit	385,659	-11,274	227,331	1,153,940
Depreciation				
Machinery and equipment	-73,235	-77,321	-47,737	-137,181
Titled vehicles	-8,326	-9,333	-9,044	-12,555
Buildings and improvements	-7,701	-4,215	-4,986	-18,879
Total depreciation	-89,262	-90,869	-61,767	-168,614
Net farm income from operations	296,397	-102,143	165,564	985,326
Gain or loss on capital sales	8,941	1,323	2,604	29,731
,	_,	-,0	_,-••	
Net farm income	305,338	-100,820	168,168	1,015,057

Inventory Changes Minnesota and North Dakota Farm Business Management Education Red River Valley, 2023 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	203	40	40	41
Net cash farm income	380,979	227,933	218,395	903,020
Crops and Feed Ending inventory Beginning inventory Inventory change	942,841	713,764	559,432	2,064,471
	935,730	856,350	571,628	1,875,176
	7,111	-142,585	-12,196	189,295
Market Livestock Ending inventory Beginning inventory Inventory change	4,273	1,060	1,949	17,475
	3,679	2,894	1,274	13,369
	594	-1,834	674	4,106
Accts Receivable Ending inventory Beginning inventory Inventory change	98,361	84,565	58,862	197,177
	80,678	54,356	38,455	177,748
	17,683	30,209	20,407	19,429
Prepaid Expenses and Supplies Ending inventory Beginning inventory Inventory change	180,037	138,745	96,125	403,418
	215,107	188,005	99,814	444,174
	-35,070	-49,260	-3,689	-40,756
Hedging Activities Ending inventory Withdrawals Beginning inventory Deposits Gain or loss	11,805	5,865	4,123	38,912
	10,135	3,510	5,441	32,101
	14,604	21,588	2,991	34,992
	7,218	16,061	2,663	10,505
	117	-28,274	3,910	25,516
Other Current Assets Ending inventory Beginning inventory Inventory change	15,387	65,571	5,482	4,318
	12,613	54,759	2,568	3,796
	2,774	10,812	2,915	522
Breeding Livestock Ending inventory Capital sales Beginning inventory Capital purchases Depreciation, capital adjust	1,211 538 1,585 58 105	1,613 2,729 4,166 108 69	819 - 555 188 76	2,941 2,561 380
Other Capital Assets Ending inventory Capital sales Beginning inventory Capital purchases Depreciation, capital adjust	418,543	186,597	232,456	1,009,534
	4,670	11,755	-	8,049
	379,139	217,422	197,977	876,635
	25,688	13,574	16,596	72,728
	18,387	-32,643	17,883	68,219
Accounts Payable Beginning inventory Ending inventory Inventory change	57,303	35,924	30,562	72,862
	58,305	50,987	46,110	89,908
	-1,001	-15,063	-15,548	-17,046
Accrued Interest Beginning inventory Ending inventory Inventory change	25,918	36,658	15,134	47,567
	31,937	47,295	20,631	46,312
	-6,019	-10,637	-5,497	1,255
Total inventory change	4,680	-239,207	8,936	250,921
Net operating profit	385,659	-11,274	227,331	1,153,940

Depreciation Minnesota and North Dakota Farm Business Management Education Red River Valley, 2023 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	203	40	40	41
Net operating profit	385,659	-11,274	227,331	1,153,940
Machinery and Equipment				
Ending inventory	918,053	925,499	567,083	1,938,974
Capital sales	59,801	73,292	25,791	155,526
Beginning inventory	809,203	856,818	528,101	1,661,744
Capital purchases	241,886	219,294	112,510	569,936
Depreciation, capital adjust.	-73,235	-77,321	-47,737	-137,181
Titled Vehicles				
Ending inventory	83,172	92,320	66,813	132,781
Capital sales	3,587	5,472	2,397	4,690
Beginning inventory	69,834	85,891	55,909	103,643
Capital purchases	25,251	21,235	22,345	46,382
Depreciation, capital adjust.	-8,326	-9,333	-9,044	-12,555
Buildings and Improvements				
Ending inventory	384,685	484,672	183,802	806,452
Capital sales	1,244	1,025	-	5,160
Beginning inventory	331,239	416,640	167,663	699,490
Capital purchases	62,392	73,272	21,125	131,001
Depreciation, capital adjust.	-7,701	-4,215	-4,986	-18,879
Total depreciation, capital adj.	-89,262	-90,869	-61,767	-168,614
Net farm income from operations	296,397	-102,143	165,564	985,326
Gain or loss on capital sales	8,941	1,323	2,604	29,731
Net farm income	305,338	-100,820	168,168	1,015,057

Profitability Measures Minnesota and North Dakota Farm Business Management Education Red River Valley, 2023 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	203	40	40	41
Profitability (assets valued at cost)				
Net farm income from operations	296,397	-102,143	165,564	985,326
Rate of return on assets	6.1 %	-2.7 %	5.6 %	10.7 %
Rate of return on equity	7.4 %	-9.0 %	6.2 %	14.5 %
Operating profit margin	15.0 %	-8.8 %	12.7 %	24.3 %
Asset turnover rate	40.8 %	31.2 %	43.7 %	44.1 %
Farm interest expense	65,724	81,360	46,142	108,380
Value of operator lbr and mgmt.	104,592	91,063	76,590	182,827
Return on farm assets	257,530	-111,846	135,117	910,879
Average farm assets	4,212,323	4,091,274	2,430,239	8,499,569
Return on farm equity	191,805	-193,206	88,975	802,499
Average farm equity	2,590,139	2,158,467	1,442,490	5,543,581
Value of farm production	1,717,721	1,275,328	1,062,754	3,750,738
	4 01			
	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Novel on officer	All Farms			
Number of farms		Low 20% 40	40 - 60% 40	High 20%
Profitability (assets valued at market)	All Farms 203	40	40	41
Profitability (assets valued at market) Net farm income from operations	203 359,935	40 68,144	239,099	945,219
Profitability (assets valued at market) Net farm income from operations Rate of return on assets	203 359,935 5.7 %	68,144 1.0 %	239,099 5.9 %	945,219 8.2 %
Profitability (assets valued at market) Net farm income from operations Rate of return on assets Rate of return on equity	203 359,935 5.7 % 7.6 %	68,144 1.0 % -0.7 %	239,099 5.9 % 7.8 %	945,219 8.2 % 12.1 %
Profitability (assets valued at market) Net farm income from operations Rate of return on assets Rate of return on equity Operating profit margin	203 359,935 5.7 % 7.6 % 18.7 %	68,144 1.0 % -0.7 % 4.6 %	239,099 5.9 % 7.8 % 19.6 %	945,219 8.2 % 12.1 % 23.2 %
Profitability (assets valued at market) Net farm income from operations Rate of return on assets Rate of return on equity	203 359,935 5.7 % 7.6 %	68,144 1.0 % -0.7 %	239,099 5.9 % 7.8 %	945,219 8.2 % 12.1 %
Profitability (assets valued at market) Net farm income from operations Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate Farm interest expense	203 359,935 5.7 % 7.6 % 18.7 % 30.6 %	68,144 1.0 % -0.7 % 4.6 % 22.5 %	239,099 5.9 % 7.8 % 19.6 % 30.2 %	945,219 8.2 % 12.1 % 23.2 % 35.3 %
Profitability (assets valued at market) Net farm income from operations Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate Farm interest expense Value of operator lbr and mgmt.	203 359,935 5.7 % 7.6 % 18.7 % 30.6 % 65,724 104,592	40 68,144 1.0 % -0.7 % 4.6 % 22.5 % 81,360 91,063	239,099 5.9 % 7.8 % 19.6 % 30.2 % 46,142 76,590	945,219 8.2 % 12.1 % 23.2 % 35.3 % 108,380 182,827
Profitability (assets valued at market) Net farm income from operations Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate Farm interest expense Value of operator lbr and mgmt. Return on farm assets	203 359,935 5.7 % 7.6 % 18.7 % 30.6 % 65,724 104,592 321,068	40 68,144 1.0 % -0.7 % 4.6 % 22.5 % 81,360 91,063 58,441	40 239,099 5.9 % 7.8 % 19.6 % 30.2 % 46,142 76,590 208,651	945,219 8.2 % 12.1 % 23.2 % 35.3 % 108,380 182,827 870,772
Profitability (assets valued at market) Net farm income from operations Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate Farm interest expense Value of operator lbr and mgmt. Return on farm assets Average farm assets	203 359,935 5.7 % 7.6 % 18.7 % 30.6 % 65,724 104,592 321,068 5,620,761	40 68,144 1.0 % -0.7 % 4.6 % 22.5 % 81,360 91,063 58,441 5,672,639	40 239,099 5.9 % 7.8 % 19.6 % 30.2 % 46,142 76,590 208,651 3,522,594	945,219 8.2 % 12.1 % 23.2 % 35.3 % 108,380 182,827 870,772 10,610,798
Profitability (assets valued at market) Net farm income from operations Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate Farm interest expense Value of operator lbr and mgmt. Return on farm assets Average farm assets Return on farm equity	203 359,935 5.7 % 7.6 % 18.7 % 30.6 % 65,724 104,592 321,068 5,620,761 255,343	40 68,144 1.0 % -0.7 % 4.6 % 22.5 % 81,360 91,063 58,441 5,672,639 -22,919	40 239,099 5.9 % 7.8 % 19.6 % 30.2 % 46,142 76,590 208,651 3,522,594 162,509	945,219 8.2 % 12.1 % 23.2 % 35.3 % 108,380 182,827 870,772 10,610,798 762,392
Profitability (assets valued at market) Net farm income from operations Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate Farm interest expense Value of operator lbr and mgmt. Return on farm assets Average farm assets	203 359,935 5.7 % 7.6 % 18.7 % 30.6 % 65,724 104,592 321,068 5,620,761	40 68,144 1.0 % -0.7 % 4.6 % 22.5 % 81,360 91,063 58,441 5,672,639	40 239,099 5.9 % 7.8 % 19.6 % 30.2 % 46,142 76,590 208,651 3,522,594	945,219 8.2 % 12.1 % 23.2 % 35.3 % 108,380 182,827 870,772 10,610,798

Liquidity & Repayment Capacity Measures Minnesota and North Dakota Farm Business Management Education Red River Valley, 2023

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	203	40	40	41
Liquidity				
Current ratio	2.23	1.42	2.20	2.79
Working capital	748,685	319,772	426,171	1,876,190
Change in working capital	-72,868	-337,819	-40,576	116,915
Working capital to gross revenue	43.4 %	25.1 %	39.9 %	49.8 %
Working capital to oper expense	58.7 %	26.5 %	53.6 %	74.9 %
Current assets	1,356,514	1,085,361	782,028	2,927,141
Current liabilities	607,829	765,589	355,856	1,050,952
Gross revenues (accrual)	1,725,869	1,276,518	1,068,255	3,766,188
Total operating expenses	1,274,485	1,206,432	794,782	2,503,868
Repayment capacity				
Net farm income from operations	296,397	-102,143	165,564	985,326
Depreciation	89,262	90,869	61,767	168,614
Personal income	41,886	70,353	40,993	28,348
Family living/owner withdrawals	-95,162	-96,475	-84,455	-112,631
Cash discrepancy	-267	-881	32	-65
Income taxes	-34,351	-21,520	-26,889	-56,490
Interest expense	69,076	85,259	48,707	113,217
Debt repayment capacity	366,842	25,461	205,719	1,126,321
Debt payments	170,088	193,208	109,966	319,643
Repayment margin	196,754	-167,747	95,753	806,678
Cash replacement allowance	-63,585	-72,548	-46,822	-105,880
Replacement margin	133,169	-240,295	48,931	700,797
Debt coverage ratio	2.16	0.13	1.87	3.52
Term debt coverage ratio	2.34	0.03	2.04	3.80
Replacement coverage ratio	1.57	0.10	1.31	2.65

Balance Sheet at Cost Values Minnesota and North Dakota Farm Business Management Education Red River Valley, 2023

	Avg. Of All Farms	Low 20%	40 - 60%	_ High 20%
Number of farms	203	40	40	41
Assets				
Current Farm Assets	102 011	75 700	56 O54	201 271
Cash and checking balance Prepaid expenses & supplies	103,811 180,037	75,790 138,745	56,054 96,125	201,371 403,418
Growing crops	577	1,207	675	482
Accounts receivable	98,361	84,565	58,862	197,177
Hedging accounts	11,805	5,865	4,123	38,912
Crops held for sale or feed	942,841	713,764	559,432	2,064,471
Crops under government loan Market livestock held for sale	4,273	1,060	1,949	- 17,475
Other current assets	14,810	64,364	4,808	3,836
Total current farm assets	1,356,514	1,085,361	782,028	2,927,141
Intermediate Farm Assets				
Breeding livestock	1,211	1,613	819	2,941
Machinery and equipment Titled vehicles	918,053 83,172	925,499 92,320	567,083 66,813	1,938,974 132,781
Other intermediate assets	317,798	100,589	157,669	835,800
Total intermediate farm assets	1,320,234	1,120,020	792,383	2,910,497
Long Term Farm Assets				
Farm land	1,218,333	1,318,088	685,626	2,157,081
Buildings and improvements Other long-term assets	384,685 100,746	484,672 86,009	183,802 74,787	806,452 173,733
Total long-term farm assets	1,703,764	1,888,769	944,215	3,137,266
Total Farm Assets	4,380,512	4,094,150	2,518,626	8,974,904
Total Nonfarm Assets	459,130	486,846	301,540	891,727
Total Assets	4,839,642	4,580,996	2,820,166	9,866,631
Liabilities Current Farm Liabilities				
Accrued interest	31,937	47,295	20,631	46,312
Accounts payable	58,305	50,987	46,110	89,908
Current notes	407,306	548,476	218,328	694,225
Government crop loans	-	-	- 70.700	-
Principal due on term debt Total current farm liabilities	110,281 607,829	118,831 765,589	70,788 355,856	220,507 1,050,952
Total intermediate farm liabs	250,138	259,460	182,031	505,215
Total long term farm liabilities Total farm liabilities	840,396 1,698,363	994,286 2,019,335	500,241 1,038,128	1,488,822 3,044,988
			, ,	
Total nonfarm liabilities	124,029	125,076	93,715	239,600
Total liabilities	1,822,392	2,144,411	1,131,843	3,284,588
Net worth (farm and nonfarm)	3,017,249	2,436,585	1,688,322	6,582,043
Net worth change Percent net worth change	232,157 8 %	-137,393 -5 %	106,404 7 %	879,548 15 %
Ratio Analysis				
Current farm liabilities / assets	45 %	71 %	46 %	36 %
Intermediate farm liab. / assets	19 %	23 %	23 %	17 %
Long term farm liab. / assets	49 %	53 %	53 %	47 %
Total debt to asset ratio	38 %	47 %	40 %	33 %

Balance Sheet at Market Values Minnesota and North Dakota Farm Business Management Education Red River Valley, 2023

	Ava. Of _All Farms	Low 20%	40 - 60%	High 20%
Number of farms	203	40	40	41
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	103.811	75.790	56.054	201.371
	180,037	138.745	96,125	403,418
	577	1.207	675	482
	98,361	84.565	58.862	197.177
	11.805	5.865	4.123	38.912
	942,841	713,764	559,432	2,064,471
	-	-	-	-
	4,273	1.060	1,949	17,475
	14,810	64,364	4.808	3.836
Total current farm assets	1,356,514	1,085,361	782,028	2,927,141
Intermediate Farm Assets Breeding livestock Machinery and equipment Titled vehicles Other intermediate assets Total intermediate farm assets	1,620	2,225	896	3,268
	1,193,916	1,285,381	773,965	2,340.865
	106,430	124,518	91,206	155,406
	466,226	216,014	286,597	1.025,469
	1,768,191	1,628,138	1,152,664	3,525,008
Long Term Farm Assets Farm land Buildings and improvements Other long-term assets Total long-term farm assets Total Farm Assets	2,158,510	2,413,900	1,431,844	3,573,048
	436,348	537,085	216,790	883,681
	117,145	97,812	63,932	233,733
	2,712,003	3,048,797	1,712,567	4,690,462
	5,836,708	5,762,296	3,647,259	11,142,611
Total Nonfarm Assets	553.996	546.561	360.021	1.058.808
Total Assets	6,390,704	6,308,857	4,007,279	12,201,419
Liabilities Current Farm Liabilities Accrued interest Accounts payable Current notes Government crop loans Principal due on term debt Total current farm liabilities	31,937 58,305 407,306 - 110,281 607,829	47,295 50,987 548,476 - 118.831 765,589	20,631 46,110 218,328 70,788 355,856	46,312 89,908 694,225 220,507 1,050,952
Total intermediate farm liabs	250,138	259,460	182,031	505,215
Total long term farm liabilities	840,396	994,286	500,241	1,488,822
Total farm liabilities	1,698,363	2,019,335	1,038,128	3,044,988
Total nonfarm liabilities	124,029	125,076	93,715	239,600
Total liabs excluding deferreds	1,822,392	2,144,411	1,131.843	3.284,588
Total deferred liabilities	681,297	489,658	451.997	1.460,155
Total liabilities	2,503,689	2,634,069	1,583,840	4,744,743
Retained earnings Market valuation equity Net worth (farm and nonfarm) Net worth excluding deferreds Net worth change Percent net worth change	3,017,249	2,436,585	1,688,322	6,582,043
	869,765	1,238,202	735,116	874,633
	3,887,015	3,674,788	2,423,439	7,456,676
	4,568,312	4,164,446	2,875,436	8,916,831
	308,595	41,421	193,641	860,487
	9 %	1 %	9 %	13 %
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	45 %	71 %	46 %	36 %
	14 %	16 %	16 %	14 %
	31 %	33 %	29 %	32 %
	39 %	42 %	40 %	39 %
	29 %	34 %	28 %	27 %

Statement Of Cash Flows Minnesota and North Dakota Farm Business Management Education Red River Valley, 2023

	Avg. Of			
	All Farms	Low 20%	40 - 60%	High 20%
Number of farms	203	40	40	41
Beginning cash (farm & nonfarm)	124,827	101,696	59,373	274,449
Cash Provided By Operating Activities				
Gross cash farm income	1,679,143	1,441,089	1,034,585	3,458,869
Total cash farm expense	-1,298,164	-1,213,156	-816,190	-2,555,849
Net cash from hedging transactions	2,917	-12,551	2,778	21,597
Cash provided by operating	383,895	215,382	221,173	924,616
Cash Provided By Investing Activities				
Sale of breeding livestock	538	2,729	-	-
Sale of machinery & equipment	61,222	68,559	28,104	156,564
Sale of titled vehicles	3,961	7,574	2,689	4,968
Sale of farm land	23,068	3,936	-	53,049
Sale of farm buildings	1,551	2,583	-	5,160
Sale of other farm assets	4,759	11,755	-	8,049
Sale of nonfarm assets	6,761	9,364	7,137	9,441
Purchase of breeding livestock	-58	-108	-188	-
Purchase of machinery & equip.	-241,886	-219,294	-112,510	-569,936
Purchase of titled vehicles	-25,251	-21,235	-22,345	-46,382
Purchase of farm land	-150,102	-69,605	-56,518	-303,366
Purchase of farm buildings	-62,392	-73,272	-21,125	-131,001
Purchase of other farm assets	-25,688	-13,574	-16,596	-72,728
Purchase of nonfarm assets	-55,376	-58,763	-34,181	-129,385
Cash provided by investing	-458,893	-349,350	-225,533	-1,015,567
Cash Provided By Financing Activities				
Money borrowed	770,131	758,289	342,228	1,578,133
Principal payments	-615,007	-589,173	-265,984	-1,393,059
Personal income	41,886	70,353	40,993	28,348
Family living/owner withdrawals	-94,965	-96,475	-84,455	-112,631
Income and social security tax	-35,191	-22,775	-22,487	-54,472
Capital contributions	6,778	-	=	2,359
Capital distributions	-426	-1,038	-	-1,098
Dividends paid	-197	-	-	-
Cash gifts and inheritances	5,130	8,989	15,460	222
Gifts given	-3,726	-376	-1,691	-7,836
Other cash flows		-	-	-
Cash provided by financing	74,413	127,793	24,064	39,966
Net change in cash balance	-584	-6,175	19,704	-50,984
Ending cash (farm & nonfarm)	123,976	94,641	79,109	223,400
Discrepancy	267	881	-32	65

Financial Standards Measures Minnesota and North Dakota Farm Business Management Education Red River Valley, 2023

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	203	40	40	41
Liquidity				
Current ratio	2.23	1.42	2.20	2.79
Working capital to gross revenue	43.4 %	25.1 %	39.9 %	49.8 %
Working capital to oper expense	58.7 %	26.5 %	53.6 %	74.9 %
Solvency (market)				
Farm debt to asset ratio	40 %	43 %	41 %	40 %
Farm equity to asset ratio	60 %	57 %	59 %	60 %
Farm debt to equity ratio	0.68	0.77	0.69	0.67
Profitability (cost)				
Rate of return on farm assets	6.1 %	-2.7 %	5.6 %	10.7 %
Rate of return on farm equity	7.4 %	-9.0 %	6.2 %	14.5 %
Operating profit margin	15.0 %	-8.8 %	12.7 %	24.3 %
Asset turnover rate	40.8 %	31.2 %	43.7 %	44.1 %
Repayment Capacity				
Debt coverage ratio	2.16	0.13	1.87	3.52
Term debt coverage ratio	2.34	0.03	2.04	3.80
Replacement coverage ratio	1.57	0.10	1.31	2.65
Efficiency				
Operating expense ratio	73.8 %	94.5 %	74.4 %	66.5 %
Depreciation expense ratio	5.2 %	7.1 %	5.8 %	4.5 %
Interest expense ratio	3.8 %	6.4 %	4.3 %	2.9 %
Net farm income ratio	17.2 %	-8.0 %	15.5 %	26.2 %

Crop Production and Marketing Summary Minnesota and North Dakota Farm Business Management Education Red River Valley, 2023 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	203	40	40	41
Acreage Summary				
Total acres owned	516	564	304	931
Total crop acres	1,943	1,854	1,290	3,620
Crop acres owned	401	420	255	702
Crop acres cash rented	1,502	1,401	1,036	2,884
Crop acres share rented	40	33	-	34
Total pasture acres	2	2	=	6
Percent crop acres owned	21 %	23 %	20 %	19 %
Mach invest/crop acre cost	474	514	419	530
Mach invest/crop acre market	620	714	584	640
Average Price Received (Cash Sale	es Only)			
Soybeans per bushel	13.37	13.46	12.93	13.55
Corn per bushel	5.72	5.36	5.73	5.92
Wheat, Spring per bushel	8.26	7.75	7.87	8.54
Soybeans Seed per bushel	14.70	-	-	-
Barley per bushel	7.36	-	-	-
Sunflowers per cwt	26.35	-	-	-
Hay, Alfalfa per ton	153.45	-	-	-
Beans, Black Turtle per cwt	39.90	-	-	-
Straw per ton	109.25	-	-	-
Oats per bushel	4.62	-	-	-
Beans, Pinto per cwt	36.81	-	-	-
Soybeans, Food per bushel	18.37	-	-	-
Average Yield Per Acre	44.70	40.00	20.40	40.07
Soybeans (bushel)	41.79	42.38	38.49	42.97
Corn (bushel)	168.46	167.25	163.72	170.73
Wheat, Spring (bushel)	71.08	65.35	73.17	73.92
Sugar Beets (ton)	29.10	- 2.07	29.51	28.92
Hay, Alfalfa (ton)	3.29	2.97	-	- 42 47
Soybeans Seed (bushel)	38.83	- 25.05	-	43.17
Soybeans, Food (bushel)	32.23	35.95	-	18.69
Corn Silage (ton)	18.95	19.50	-	10.09
Barley (bushel)	92.55 28.73	-	-	-
Sunflowers (cwt)	26.73	-	-	26.16
Beans, Navy (cwt)	24.35	-	-	20.10
Beans, Black Turtle (cwt) Potatoes (cwt)	24.35 373.71	-	-	373.71
Canola (cwt)	25.70	- -	- -	25.70
Oats (bushel)	125.50	- -	- -	25.10
Straw (ton)	1.01	- -	- -	<u>-</u>
Beans, Pinto (cwt)	17.73	- -	- -	- -
25ans, 1 mis (000)	11.10	_	_	_

Operator and Labor Information Minnesota and North Dakota Farm Business Management Education Red River Valley, 2023

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	203	40	40	41
Operator Information				
Average number of operators	1.2	1.0	1.1	1.4
Average age of operators	46.7	49.5	42.5	47.8
Average number of years farming	23.0	26.1	17.2	26.0
Results Per Operator				
Working capital	644,324	307,104	401,102	1,303,793
Total assets (market)	5,499,885	6,058,926	3,771,557	8,478,952
Total liabilities	2,154,693	2,529,718	1,490,673	3,297,194
Net worth (market)	3,345,192	3,529,208	2,280,884	5,181,758
Net worth excl deferred liabs	3,931,522	3,999,468	2,706,293	6,196,442
Gross farm income	1,485,295	1,225,947	1,005,416	2,617,181
Total farm expense	1,230,213	1,324,044	849,591	1,932,463
Net farm income from operations	255,082	-98,096	155,825	684,718
Net nonfarm income	36,048	67,565	38,582	19,700
Family living & tax withdrawals	111,690	114,167	104,764	117,570
Total acres owned	443.9	541.5	286.3	647.0
Total crop acres	1,671.7	1,780.4	1,214.4	2,515.3
Crop acres owned	345.3	403.1	239.6	487.6
Crop acres cash rented	1,292.2	1,345.2	974.8	2,004.3
Crop acres share rented	34.2	32.1	-	23.3
Total pasture acres	1.4	1.8	-	4.2
Labor Analysis				
Number of farms	202	39	40	41
Total unpaid labor hours	1,994	1,779	1,933	2,690
Total hired labor hours	2,338	2,008	1,264	5,021
Total labor hours per farm	4,332	3,788	3,196	7,712
Unpaid hours per operator	1,715	1,707	1,819	1,869
Value of farm production / hour	397.81	341.49	332.52	486.37
Net farm income / unpaid hour	149.52	-57.91	85.67	366.26
Average hourly hired labor wage	32.58	34.74	26.91	32.07
Partnerships & LLCs		_		
Number of farms	22	3	1	10
Number of operators	2.1	-	-	2.4
Owner withdrawals per farm	-	-	-	-
Withdrawals per operator	-	-	-	-
Corporations				
Number of farms	16	4	4	5
Number of operators	1.4	-	-	1.8

Household and Personal Expenses Minnesota and North Dakota Farm Business Management Education Red River Valley, 2023 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	High 20%
Number of farms	31	8	7
Average family size	2.7	2.6	2.9
Family Living Expenses			
Food and meals expense	14,500	12,198	15,507
Medical care	4,847	3,979	7,028
Health insurance	5,669	2,921	8,940
Cash donations	2,480	1,264	2,189
Household supplies	5,190	5,923	4,037
Clothing	3,467	3,388	4,213
Personal care	4,220	2,301	6,442
Child / Dependent care	495	1,025	-
Alimony and child support	3,290	-	14,571
Gifts	3,054	3,667	1,218
Education	2,244	1,604	3,113
Recreation	12,078	11,208	15,116
Utilities (household share)	3,396	3,343	4,050
Personal vehicle operating exp	4,150	4,771	4,288
Household real estate taxes	1,885	1,479	2,827
Dwelling rent	327	-	714
Household repairs	5,640	2,824	5,281
Personal interest	3,783	4,415	8,647
Disability / Long term care ins	344	-	526
Life insurance payments	5,517	1,278	5,470
Personal property insurance	1,092	879	2,110
Miscellaneous	6,973	10,762	3,688
Total cash family living expense	94,641	79,230	119,974
Family living from the farm	-	-	-
Total family living	94,641	79,230	119,974
Other Nonfarm Expenditures			
Income taxes	32,489	13,273	52,178
Furnishing & appliance purchases	372	-	1,073
Nonfarm vehicle purchases	6,704	7,288	-
Nonfarm real estate purchases	6,089	20,842	3,148
Other nonfarm capital purchases	51,365	-	172,123
Nonfarm savings & investments	12,300	691	30,729
Total other nonfarm expenditures	109,319	42,095	259,252
Total cash family living			
investment & nonfarm capital purch	203,960	121,325	379,226

Financial Summary Minnesota and North Dakota Farm Business Management Education Red River Valley, 2023 (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	203	16	27	39	58	60
Income Statement						
Gross cash farm income	1,679,143	172,730	371,487	753,004	1,406,834	3,615,304
Total cash farm expense Net cash farm income	1,298,164 380,979	120,272 52,458	293,714 77,773	581,511 171,493	1,115,045 291,789	2,769,593 845,711
Inventory change	4,680	7.370	7.867	11,707	-22.843	24.672
Depreciation	-89,262	-7,324	-14,157	-49,401	-75,315	-188,665
Net farm income from operations	296,397	52,504	71,482	133,799	193,631	681,718
Gain or loss on capital sales Average net farm income	8,941 305,338	381 52,884	1,454 72,937	2,942 136,741	24,565 218,196	3,800 685,518
Median net farm income	162,171	36,828	69,983	143,541	207,346	586,602
Profitability (cost)	0.4.0/	0.5.0/	F F 0/	5.0.0/	4.0.0/	0.0.0/
Rate of return on assets Rate of return on equity	6.1 % 7.4 %	6.5 % 8.5 %	5.5 % 6.9 %	5.0 % 5.7 %	4.6 % 4.8 %	6.9 % 8.6 %
Operating profit margin	15.0 %	23.8 %	13.0 %	13.2 %	11.6 %	16.5 %
Asset turnover rate	40.8 %	27.4 %	42.0 %	38.0 %	39.9 %	41.8 %
Profitability (market) Rate of return on assets	5.7 %	8.8 %	5.8 %	5.4 %	6.0 %	5.6 %
Rate of return on equity	7.6 %	12.6 %	8.3 %	6.9 %	8.0 %	7.5 %
Operating profit margin	18.7 %	37.4 %	20.0 %	18.4 %	19.8 %	18.0 %
Asset turnover rate	30.6 %	23.4 %	29.3 %	29.4 %	30.4 %	31.0 %
Liquidity & Repayment (end of year) Current assets	1,356,514	151,553	305,279	697,411	1,116,344	2,877,716
Current liabilities	607,829	50,219	155,400	259,415	514,833	1,304,582
Current ratio	2.23	3.02	1.96	2.69	2.17	2.21
Working capital	748,685	101,333	149,879	437,996	601,511	1,573,134
Change in working capital Working capital to gross revenue	-72,868 43.4 %	-1,148 55.6 %	-29,214 37.9 %	-28,012 56.0 %	-101,367 42.1 %	-114,353 42.3 %
Working capital to gross revenue Working capital to oper expense	58.7 %	93.1 %	51.6 %	76.2 %	54.8 %	57.9 %
Debt coverage ratio	2.16	1.80	1.68	2.10	1.52	2.50
Term debt coverage ratio	2.34	2.04	1.83	2.23	1.61	2.73
Replacement coverage ratio Term debt to EBITDA	1.57 2.21	1.56 3.03	1.33 2.90	1.41 2.06	1.16 2.82	1.79 1.98
Solvency (end of year at cost)						
Number of farms	203	16	27	39	58	60
Total assets Total liabilities	4,839,642 1,822,392	862,582 413,551	1,295,225 644,600	2,539,163 776,541	4,083,538 1.671.571	9,936,670 3,623,072
Net worth	3,017,249	449,032	650,624	1,762,622	2,411,968	6,313,599
Net worth change	232,157	22,189	46,226	92,189	150,482	552,536
Farm debt to asset ratio	39 %	50 %	53 %	34 %	42 %	37 %
Total debt to asset ratio Change in earned net worth %	38 % 8 %	48 % 5 %	50 % 8 %	31 % 6 %	41 % 7 %	36 % 10 %
	0 70	3 70	3 70	0 70	7 70	10 70
Solvency (end of year at market) Number of farms	203	16	27	39	58	60
Total assets	6,390,704	1,019,136	1,774,521	3,214,762	5,340,991	13,271,633
Total liabilities	2,503,689	437,607	807,435	1,040,277	2,176,832	5,188,486
Net worth	3,887,015	581,529 65,513	967,085	2,174,484 145,030	3,164,159	8,083,147
Total net worth change Farm debt to asset ratio	308,595 40 %	65,513 46 %	82,100 48 %	36 %	273,641 42 %	630,043 40 %
Total debt to asset ratio	39 %	43 %	46 %	32 %	41 %	39 %
Change in total net worth %	9 %	13 %	9 %	7 %	9 %	8 %
Nonfarm Information Net nonfarm income	41,886	54,702	54,309	38,106	30,360	46,433
Farms reporting living expenses	41,000	34,702	4	7	30,300 8	+0,433 8
Total family living expense	94,641	-	-	73,465	77,213	164,573
Total living, invest, cap. purch	203,960	-	-	115,258	163,835	406,154
Crop Acres Total crop acres	1,943	268	565	973	1,713	3,954
Total crop acres owned	401	105	126	197	391	765
Total crop acres cash rented	1,502	163	351	734	1,311	3,132
Total crop acres share rented Machinery value per crop acre	40 620	369	88 380	43 697	11 574	57 647

Financial Summary Minnesota and North Dakota Farm Business Management Education Red River Valley, 2023 (Farms Sorted By Age of Operator)

	Avg. Of All Farms	Less Than 31	31 - 40	41 - 50	<u>51 - 60</u>	Over 60
Number of farms	203	24	58	41	29	51
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	1,679,143	494,743	1,333,110	1,957,902	2,463,115	1,960,147
	1,298,164	380,218	1,048,135	1,539,641	1,929,718	1,461,238
	380,979	114,525	284,975	418,261	533,396	498,909
	4,680	40,334	91,961	51,366	-94,439	-92,528
	-89,262	-11,309	-65,476	-102,099	-143,483	-111,844
	296,397	143,550	311,460	367,528	295,475	294,537
	8,941	2,264	1,442	4,701	45,177	3,416
	305,338	145,814	312,902	372,228	340,652	297,953
	162,171	102,867	197,301	209,560	263,053	127,443
Profitability (cost) Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	6.1 %	14.1 %	9.7 %	6.4 %	4.3 %	4.6 %
	7.4 %	25.0 %	13.5 %	8.0 %	4.5 %	4.9 %
	15.0 %	21.6 %	17.7 %	16.0 %	10.8 %	14.0 %
	40.8 %	65.4 %	54.6 %	40.1 %	40.2 %	32.8 %
Profitability (market) Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	5.7 %	14.4 %	8.8 %	7.6 %	3.8 %	3.9 %
	7.6 %	28.2 %	13.9 %	11.0 %	4.6 %	4.5 %
	18.7 %	23.2 %	18.9 %	23.9 %	13.7 %	17.1 %
	30.6 %	62.0 %	46.8 %	31.6 %	28.1 %	22.9 %
Liquidity & Repayment (end of year) Current assets Current liabilities Current ratio Working capital Change in working capital Working capital to gross revenue Working capital to oper expense Debt coverage ratio Term debt coverage ratio Replacement coverage ratio Term debt to EBITDA	1,356,514	283,589	978,510	1,688,638	1,879,551	1,726,892
	607,829	112,899	389,775	784,367	954,115	749,889
	2.23	2.51	2.51	2.15	1.97	2.30
	748,685	170,690	588,735	904,271	925,436	977,003
	-72,868	-12,282	9,467	-65,510	-284,775	-80,435
	43.4 %	31.6 %	40.4 %	44.0 %	37.7 %	51.1 %
	58.7 %	46.6 %	56.8 %	60.1 %	48.5 %	68.4 %
	2.16	3.27	2.77	2.44	1.44	1.89
	2.34	3.90	3.04	2.68	1.51	2.02
	1.57	3.09	2.19	1.85	1.08	1.21
	2.21	1.69	1.51	2.34	2.92	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 %	203 4,839,642 1,822,392 3,017,249 232,157 39 % 38 % 8 %	24 1,130,119 603,044 527,076 130,933 53 % 53 % 33 %	58 3,163,958 1,260,562 1,903,396 250,379 40 % 40 % 15 %	41 5,762,381 2,225,493 3,536,888 325,169 40 % 39 % 10 %	29 7,140,679 3,038,265 4,102,413 221,179 44 % 43 % 6 %	51 6,440,735 2,019,706 4,421,029 190,538 33 % 31 % 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 %	203	24	58	41	29	51
	6,390,704	1,213,993	3,704,108	7,329,441	9,923,583	9,118,585
	2,503,689	666,419	1,662,394	3,012,567	4,199,842	2,951,478
	3,887,015	547,574	2,041,714	4,316,874	5,723,741	6,167,107
	308,595	152,045	270,198	504,375	299,063	273,959
	40 %	57 %	46 %	42 %	44 %	34 %
	39 %	55 %	45 %	41 %	42 %	32 %
	9 %	38 %	15 %	13 %	6 %	5 %
Nonfarm Information Net nonfarm income Farms reporting living expenses Total family living expense Total living, invest, cap. purch	41,886 31 94,641 203,960	40,549 1 -	35,933 9 68,345 152,312	73,969 5 111,005 144,315	20,694 4 -	35,544 12 92,567 169,008
Crop Acres Total crop acres Total crop acres owned Total crop acres cash rented Total crop acres share rented Machinery value per crop acre	1,943	599	1,553	2,249	3,055	2,139
	401	74	130	407	706	686
	1,502	491	1,392	1,762	2,346	1,413
	40	34	32	80	2	41
	620	273	515	511	619	846

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 net return per acre. 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.

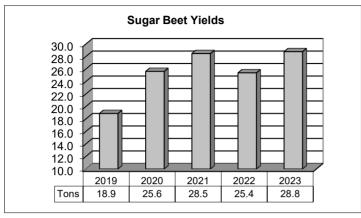
Several cost items, such as "utilities," "hired labor," and "interest paid," are listed under both "direct" and "overhead" costs because some of these costs are specific to that crop whereas others are general overhead costs of the farm. For example, "Machinery leases" as direct expense refers to machinery 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.

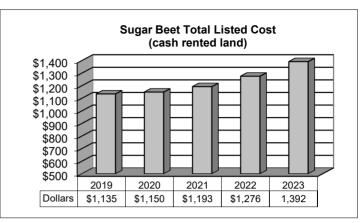
"Total direct expense per unit" and "Total dir & ovhd exp per unit" are calculated by dividing "Total direct expense per acre" and "Total dir & ovhd expenses per acre," respectively, by "Yield per acre." "With labor & management" is the breakeven yield after direct, overhead and a labor and management 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.

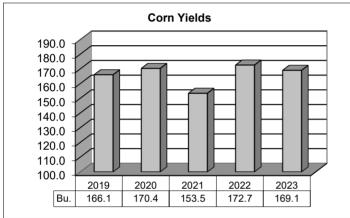
In the last section of the crop table, "machinery cost per acre" is the sum of fuel, repairs, all custom hire and machinery leases, machinery depreciation and interest on intermediate debt.

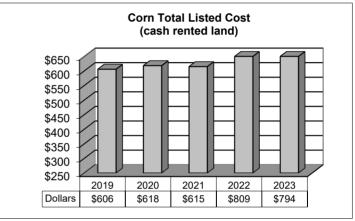
Rounding of individual items for the report may have caused minor discrepancies with the calculated totals.

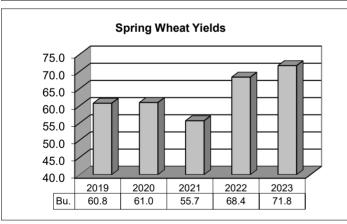
Five Year Crop History of Yields and Cost of Production Red River Valley Farm Business Management Education

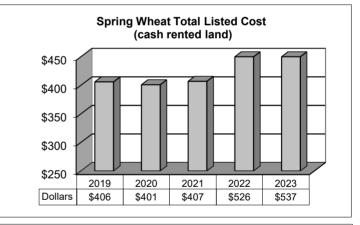


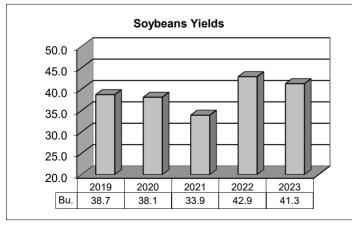


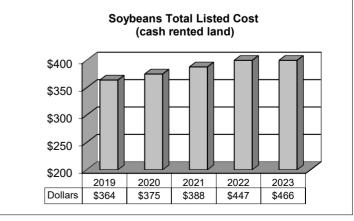












Barley on Cash Rent

	Avg. Of All Farms
Number of farms	9
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Other crop income per acre Gross return per acre	187.80 91.56 100.00 7.25 663.93 0.41 664.34
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drying expense Fuel & oil Repairs Custom hire Hired labor Land rent Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	26.33 117.21 35.02 15.77 1.18 22.63 42.52 17.80 1.05 142.27 4.03 4.41 430.22 234.12
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	18.22 2.56 0.84 8.95 4.87 4.30 3.04 21.29 2.08 66.15 496.36 167.97
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	167.97 37.07 130.90
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	4.70 5.42 5.42 5.82
Net value per unit Machinery cost per acre Est. labor hours per acre	7.25 108.97 1.73

Beans, Black Turtle on Cash Rent

	Avg. Of All Farms
Number of farms	6
Acres Yield per acre (cwt.) Operators share of yield % Value per cwt. Total product return per acre Other crop income per acre Gross return per acre	541.74 25.02 100.00 39.65 992.13 0.04 992.17
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Land rent Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	61.75 127.42 127.32 48.33 31.76 64.73 4.62 156.16 16.43 0.71 639.21 352.95
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	34.02 1.04 0.66 8.25 4.25 4.54 5.07 44.04 1.37 103.24 742.45 249.71
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	249.71 53.68 196.04
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	25.55 29.67 29.67 31.81
Net value per unit Machinery cost per acre Est. labor hours per acre	39.65 146.14 1.68

Beans, Navy on Cash Rent

	Avg. 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 Gross return per acre	256.49 27.34 100.00 30.45 832.46 2.97 835.43
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Hired labor Land rent Hauling and trucking Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	84.37 78.36 85.41 33.91 28.53 52.38 5.94 1.53 199.34 0.59 9.08 1.31 580.75 254.67
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	38.13 8.98 1.89 13.46 4.40 5.74 6.98 24.52 1.58 105.68 686.44 148.99
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	148.99 36.22 112.76
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	21.24 25.11 25.00 26.32
Net value per unit Machinery cost per acre Est. labor hours per acre	30.45 126.50 1.96

Corn on Owned Land

	Ava. Of _All Farms	Low 20%	<u>40 - 60%</u>	_High 20%
Number of farms	79	15	16	16
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	283.84 171.46 100.00 4.55 780.15 -1.71 34.25 7.44 820.12	331.70 162.96 100.00 4.39 715.88 2.58 13.37 2.52 734.35	250.79 177.64 100.00 4.45 791.16 19.71 1.08 811.95	307.06 184.49 100.00 4.83 891.55 8.88 60.02 6.31 966.76
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drving expense Storage Fuel & oil Repairs Custom hire Hired labor Machinery leases Utilities Marketing Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	100.32 203.30 37.27 30.58 9.36 0.37 36.15 67.36 8.67 3.08 2.44 0.51 0.70 15.47 2.87 518.46 301.66	107.75 225.13 39.27 27.04 9.68 0.18 37.78 89.63 2.52 4.59 0.36 - 1.76 24.30 3.60 573.58 160.77	96.89 199.87 30.84 35.96 7.91 0.78 36.90 70.54 6.18 0.78 2.46 1.68 0.59 9.89 1.95 503.21 308.75	103.57 205.27 32.42 25.25 16.00 32.93 53.51 16.85 4.78 7.82 0.71 0.74 12.12 4.73 516.69 450.06
Overhead Expenses 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	35.68	51.93	54.50	16.48
	7.15	14.21	2.77	4.98
	0.80	0.25	1.07	1.20
	27.15	27.62	29.19	27.94
	12.68	15.86	13.57	9.55
	6.85	10.03	6.69	3.69
	5.20	5.65	7.56	2.71
	80.27	81.57	72.11	72.82
	54.18	63.05	59.98	49.00
	5.75	9.96	3.39	7.26
	235.70	280.14	250.81	195.62
	754.16	853.72	754.02	712.31
	65.96	-119.37	57.93	254.44
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	65.96	-119.37	57.93	254.44
	55.40	54.09	54.77	36.28
	10.56	-173.46	3.17	218.16
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	3.02	3.52	2.83	2.80
	4.40	5.24	4.24	3.86
	4.17	5.13	4.13	3.45
	4.49	5.46	4.44	3.65
Net value per unit	4.54	4.41	4.45	4.88
Machinerv cost per acre	175.55	204.64	179.96	166.06
Est. labor hours per acre	2.62	3.28	2.73	2.14

Corn on Cash Rent

	Ava. Of _All Farms	Low 20%	40 - 60%	_High 20%
Number of farms	134	26	27	27
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	580.99	537.97	774.81	568.40
	166.77	162.29	170.55	166.08
	100.00	100.00	100.00	100.00
	4.61	4.30	4.72	4.95
	769.08	697.97	805.36	821.86
	0.27	-0.04	-12.96	15.53
	43.02	12.08	41.33	81.50
	4.00	1.74	5.27	6.75
	816.38	711.75	839.00	925.64
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drying expense Storage Fuel & oil Repairs Custom hire Hired labor Land rent Machinery leases Marketing Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	100.93	105.12	93.74	99.66
	196.66	215.64	200.54	168.54
	38.48	44.84	39.28	34.04
	27.59	27.03	31.24	27.30
	10.12	7.91	10.43	12.51
	0.85	0.21	0.11	0.02
	35.92	41.92	34.20	31.77
	68.53	87.75	65.70	53.72
	9.68	7.67	8.56	13.01
	3.77	0.21	6.16	1.73
	164.76	161.99	181.25	159.24
	1.95	0.24	0.31	2.97
	0.98	2.03	0.09	0.94
	14.80	17.11	15.57	9.22
	2.85	2.35	1.73	4.40
	677.89	722.03	688.90	619.08
	138.49	-10.28	150.10	306.57
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	28.37	38.93	29.18	24.80
	7.37	8.38	8.38	6.89
	1.20	0.86	0.94	1.29
	11.23	15.34	11.52	7.73
	5.22	7.20	5.21	3.27
	4.60	6.85	4.39	3.18
	5.78	9.18	4.51	4.27
	46.88	50.57	54.11	43.44
	5.06	5.77	3.40	3.80
	115.71	143.07	121.65	98.67
	793.60	865.10	810.54	717.75
	22.78	-153.35	28.45	207.89
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	22.78 53.66 -30.88	-153.35 54.66 -208.01	28.45 44.56 -16.11	207.89 54.52 153.38
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	4.06	4.45	4.04	3.73
	4.76	5.33	4.75	4.32
	4.47	5.25	4.56	3.70
	4.80	5.58	4.82	4.03
Net value per unit	4.61	4.30	4.65	5.04
Machinery cost per acre	172.79	202.12	170.90	152.12
Est. labor hours per acre	2.53	2.76	2.17	2.73

Corn Silage on Owned Land

	Avg. Of All Farms
Number of farms	5
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Crop insurance per acre Gross return per acre	138.32 18.25 100.00 37.64 686.99 97.18 784.17
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drying expense Fuel & oil Repairs Hired labor Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	112.06 206.86 53.56 28.62 6.47 25.79 45.73 23.46 20.91 0.65 524.11 260.06
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	4.66 3.39 1.63 28.81 14.67 4.51 1.99 109.86 42.89 6.22 218.63 742.74 41.43
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	41.43 47.58 -6.15
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	28.72 40.70 35.37 37.98
Net value per unit Machinery cost per acre Est. labor hours per acre	37.64 122.03 2.51

Corn Silage on Cash Rent

	Avg. Of All Farms
Number of farms	11
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Crop insurance per acre Gross return per acre	262.71 19.12 100.00 37.38 714.78 71.23 786.01
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drying expense Fuel & oil Repairs Hired labor Land rent Machinery leases Marketing Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	105.93 215.72 50.05 25.71 2.89 24.68 49.17 14.64 167.47 0.07 0.11 16.95 0.78 674.19 111.83
Overhead Expenses Hired labor Machinery leases Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	11.77 5.36 1.21 13.20 4.79 3.36 6.15 38.75 5.30 89.88 764.07 21.95
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	21.95 44.51 -22.56
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management Net value per unit Machinery cost per acre	35.26 39.96 36.24 38.56 37.38
Machinery cost per acre Est. labor hours per acre	123.63 2.09

CRP on Owned Land

	Avg. Of All Farms
Number of farms	14
Acres	34.77
Gross return per acre	168.66
Direct Expenses	
Crop chemicals	1.79
Fuel & oil	5.17
Repairs	11.89
Operating interest	1.98
Total direct expenses per acre	20.83
Return over direct exp per acre	147.83
Overhead Expenses	
Hired labor	5.26
RE & pers. property taxes	25.30
Farm insurance	1.53
Utilities	0.64
Dues & professional fees	0.54
Interest	61.94
Mach & bldg depreciation	10.50
Miscellaneous	0.48
Total overhead expenses per acre	106.20
Total dir & ovhd expenses per acre	127.03
Net return per acre	41.63
Government payments	_
Net return with govt pmts	41.63
Labor & management charge	8.84
Net return over lbr & mgt	32.79
Net value per unit	1.00
Machinery cost per acre	27.37
Est. labor hours per acre	0.35

Hay, Alfalfa on Owned Land

	Avg. Of All Farms
Number of farms	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	133.93 3.11 100.00 153.19 476.93 4.80 4.04 485.77
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Packaging and supplies Fuel & oil Repairs Custom hire Hired labor Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	3.58 62.64 6.33 1.77 1.26 32.63 83.41 0.43 0.33 15.88 0.46 208.71 277.07
Overhead Expenses Hired labor Machinery leases Building leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	66.12 18.84 0.22 24.36 9.46 8.81 2.37 43.23 36.47 5.20 215.08 423.79 61.98
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	61.98 45.00 16.98
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	67.04 136.12 133.28 147.74
Net value per unit Machinery cost per acre Est. labor hours per acre	153.19 169.69 3.81

Hay, Alfalfa on Cash Rent

	Avg. Of All Farms
Number of farms	13
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	132.58 3.57 100.00 165.55 591.02 5.49 0.32 596.83
Pirect Expenses Fertilizer Crop chemicals Crop insurance Packaging and supplies Fuel & oil Repairs Custom hire Land rent Hauling and trucking Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	49.62 7.56 3.15 11.16 38.24 73.98 0.38 155.40 5.98 13.97 0.92 360.34 236.49
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	11.57 6.63 3.19 10.55 5.04 4.41 5.48 47.88 3.94 98.69 459.03 137.80
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	137.80 66.36 71.44
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	100.93 128.58 126.95 145.54
Net value per unit Machinery cost per acre Est. labor hours per acre	165.55 168.20 3.05

Soybeans on Owned Land

	Avg. Of _All Farms	Low 20%	40 - 60%	High 20%
Number of farms	89	17	18	18
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Hedging gains/losses per acre Crop insurance per acre Other crop income per acre Gross return per acre	264.61 41.59 100.00 12.31 512.00 0.99 16.73 4.38 534.10	175.55 34.58 100.00 11.98 414.18 8.43 35.81 3.91 462.33	297.37 40.77 100.00 12.39 505.07 - 18.27 7.08 530.42	249.95 48.10 100.00 12.38 595.54 17.25 2.40 615.19
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Storage Fuel & oil Repairs Custom hire Hired labor Machinery leases Marketing Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	64.89	70.07	69.38	66.93
	23.99	38.50	16.02	23.82
	55.05	63.29	54.78	51.69
	23.14	26.58	24.04	27.98
	0.65	0.53	0.05	1.14
	20.46	20.13	18.80	20.45
	37.10	47.21	38.62	29.12
	7.14	4.98	8.21	3.58
	2.82	15.01	0.50	0.62
	1.28	0.98	0.60	2.06
	0.92	3.91	0.21	0.00
	7.88	13.60	8.30	3.26
	3.12	2.34	3.05	2.89
	248.44	307.13	242.57	233.55
	285.66	155.19	287.85	381.64
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	16.87	12.76	19.97	14.98
	4.43	2.97	9.56	5.80
	0.53	0.80	0.26	0.28
	26.62	28.69	25.67	17.67
	8.89	12.86	7.42	9.35
	3.70	6.71	2.97	3.48
	3.79	4.42	3.84	4.68
	62.71	110.12	77.57	20.05
	29.61	40.57	21.97	31.59
	3.42	7.54	3.88	2.20
	160.57	227.44	173.10	110.08
	409.00	534.57	415.67	343.63
	125.10	-72.25	114.75	271.56
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	125.10	-72.25	114.75	271.56
	33.60	43.15	29.49	38.28
	91.49	-115.40	85.26	233.28
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	5.97	8.88	5.95	4.86
	9.84	15.46	10.20	7.14
	9.30	14.07	9.57	6.74
	10.11	15.31	10.30	7.53
Net value per unit	12.34	12.22	12.39	12.38
Machinery cost per acre	99.93	117.00	98.21	92.65
Est. labor hours per acre	1.57	2.11	1.78	1.38

Soybeans on Cash Rent

	Avg. Of All Farms	Low 20%	<u>40 - 60%</u>	High 20%
Number of farms	155	31	31	31
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	603.22	389.86	650.67	475.96
	40.94	36.27	40.26	46.76
	100.00	100.00	100.00	100.00
	12.51	12.38	12.57	12.45
	512.16	448.96	506.08	582.11
	0.45	0.13	0.05	0.61
	14.58	18.19	12.14	9.58
	3.81	3.49	2.74	2.72
	531.01	470.76	521.01	595.01
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Hired labor Land rent Machinery leases Marketing Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	64.82	76.57	58.25	65.05
	24.51	34.91	23.70	16.97
	53.35	63.96	49.40	48.72
	22.54	23.57	22.65	22.50
	20.34	22.22	21.09	15.77
	38.49	47.40	39.52	30.44
	6.67	13.56	2.47	8.82
	1.50	2.76	3.00	0.32
	152.37	158.41	166.49	129.81
	1.26	1.72	1.06	2.56
	0.81	0.67	0.35	0.57
	6.86	11.17	6.84	5.14
	3.53	4.01	3.73	2.17
	397.05	460.95	398.55	348.84
	133.96	9.81	122.46	246.17
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	17.37	16.32	14.57	14.18
	4.26	4.06	7.36	6.36
	0.59	1.34	0.67	0.43
	7.94	8.34	7.18	6.95
	3.43	3.86	2.93	2.88
	3.63	3.52	3.16	3.38
	3.10	2.39	3.07	2.50
	26.33	29.03	23.69	21.91
	2.87	3.31	2.77	3.99
	69.51	72.18	65.39	62.57
	466.56	533.13	463.94	411.41
	64.45	-62.37	57.07	183.61
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	64.45	-62.37	57.07	183.61
	32.54	35.49	30.79	34.10
	31.91	-97.86	26.27	149.50
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	9.70	12.71	9.90	7.46
	11.40	14.70	11.52	8.80
	10.94	14.10	11.15	8.52
	11.73	15.08	11.92	9.25
Net value per unit	12.52	12.38	12.57	12.46
Machinery cost per acre	98.39	118.78	95.72	85.95
Est. labor hours per acre	1.46	1.43	1.68	1.19

Soybeans on Share Rent

	Ava. Of All Farms
Number of farms	10
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	280.59 38.96 68.06 12.54 332.57 -0.14 0.79 3.11 336.32
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Storage Fuel & oil Repairs Custom hire Hired labor Marketing Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	71.45 25.10 47.73 15.75 1.05 18.73 34.48 2.91 3.36 0.42 6.05 2.00 229.03 107.30
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	10.50 11.52 0.81 7.29 2.51 5.13 2.86 18.41 2.98 62.01 291.04 45.28
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	45.28 31.47 13.81
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	8.64 10.98 10.83 12.02
Net value per unit Machinery cost per acre Est. labor hours per acre	12.54 87.07 1.98

Soybeans, Food on Cash Rent

	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	626.99 31.40 100.00 18.22 572.26 13.67 8.31 594.25
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Hired labor Land rent Hauling and trucking Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	40.68 24.46 65.25 21.06 15.39 30.94 1.75 0.70 141.48 1.37 12.55 2.03 357.66 236.59
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	6.46 1.82 6.29 2.85 1.65 2.05 26.33 3.10 50.55 408.21 186.04
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	186.04 45.29 140.75
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	11.39 13.00 12.30 13.74
Net value per unit Machinery cost per acre Est. labor hours per acre	18.22 76.13 1.33

Soybeans Seed on Owned Land

	Avg. Of All Farms
Number of farms	8
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Crop insurance per acre Gross return per acre	233.52 40.64 100.00 13.17 535.20 5.60 540.81
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drying expense Storage Fuel & oil Repairs Custom hire Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	65.31 33.03 50.88 23.40 0.10 1.88 15.99 37.90 3.15 10.76 0.75 243.15 297.66
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	22.25 4.08 20.25 6.27 3.36 4.84 74.37 12.21 3.06 150.69 393.85 146.96
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	146.96 32.59 114.37
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	5.98 9.69 9.55 10.36
Net value per unit Machinery cost per acre Est. labor hours per acre	13.17 76.63 1.16

Soybeans Seed 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	715.02 38.35 100.00 13.48 516.97 30.45 2.18 549.59
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Storage Fuel & oil Repairs Custom hire Hired labor Land rent Hauling and trucking Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	65.67 34.31 55.16 19.55 1.41 20.35 39.98 2.02 0.10 150.27 0.87 8.55 3.34 401.56 148.03
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	21.04 4.74 7.62 4.19 4.46 3.00 34.81 3.42 83.28 484.84 64.75
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	64.75 37.03 27.72
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	10.47 12.64 11.79 12.76
Net value per unit Machinery cost per acre Est. labor hours per acre	13.48 103.88 1.28

Sugar Beets on Owned Land, Excluding Joint Venture

	Avq. Of _All Farms	Low 20%	40 - 60%	High 20%
Number of farms	29	5	6	6
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	218.82	187.30	209.95	156.62
	28.91	25.37	30.84	34.61
	100.00	100.00	100.00	100.00
	83.50	69.88	73.81	88.61
	2,413.97	1,772.77	2,276.52	3,067.14
	1.53	8.51	-	-
	4.36	7.01	3.79	2.45
	2,419.86	1,788.29	2,280.31	3,069.59
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	273.20 148.64 145.09 39.50 77.80 142.32 16.68 27.74 0.28 10.84 35.00 4.40 921.48 1,498.38	258.14 118.11 142.17 36.75 71.51 160.24 46.70 33.96 - 2.98 39.55 15.09 925.20 863.09	292.42 161.98 148.51 42.30 86.71 110.67 22.86 17.77 1.35 7.72 48.08 2.60 942.97 1,337.33	261.00 144.71 154.71 34.48 88.54 166.20 16.26 24.08
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	79.92	109.63	22.90	77.42
	11.51	39.61	10.34	18.35
	1.28	1.02	2.66	2.53
	28.82	28.18	36.87	31.39
	25.02	9.79	29.65	42.85
	11.90	11.50	8.70	13.66
	15.86	7.58	6.00	44.57
	74.04	99.63	97.63	29.97
	103.98	130.54	86.85	133.85
	27.23	10.42	3.65	129.23
	379.55	447.91	305.24	523.83
	1,301.03	1,373.11	1,248.21	1,452.02
	1,118.83	415.18	1,032.10	1,617.57
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	1,118.83 125.98 992.85	415.18 102.79 312.39	1,032.10 97.99 934.11	1,617.57 173.50 1,444.07
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	31.87	36.47	30.57	26.82
	45.00	54.12	40.47	41.95
	44.80	53.51	40.35	41.88
	49.16	57.56	43.52	46.89
Net value per unit	83.50	69.88	73.81	88.61
Machinery cost per acre	352.78	429.16	323.46	424.53
Est. labor hours per acre	5.54	6.72	4.10	9.23

Sugar Beets on Owned Land, Joint Venture

	Avg. Of All Farms
Number of farms	6
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Other crop income per acre Gross return per acre	125.52 26.46 100.00 86.57 2,290.31 8.53 2,298.85
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Hired labor Stock/quota lease Hauling and trucking Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	296.00 170.62 161.69 48.35 93.58 182.98 2.49 45.16 217.16 35.39 65.32 3.67 1,322.41 976.44
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	42.86 21.77 1.31 38.23 26.67 21.41 15.14 138.75 77.60 14.91 398.65 1,721.06 577.79
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	577.79 166.78 411.01
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	49.99 65.06 64.73 71.04
Net value per unit Machinery cost per acre Est. labor hours per acre	86.57 387.37 5.44

Sugar Beets on Cash Rent, Excluding Joint Venture

	Avq. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	63	12	12	13
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	255.51 28.60 100.00 79.48 2,272.89 11.54 4.56 2,288.99	230.34 25.37 100.00 68.54 1,738.64 13.71 10.53 1,762.88	200.69 28.41 100.00 81.10 2,303.80 - 8.89 2,312.69	126.79 33.60 100.00 88.92 2,987.75 0.50 2,988.25
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Hired labor Land rent Machinery leases Utilities Hauling and trucking Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	269.66 146.99 151.19 43.26 74.14 143.38 25.41 28.09 166.76 1.25 0.17 30.24 22.96 8.10 1,111.62 1,177.37	270.22 167.05 136.15 45.26 74.19 154.93 54.78 14.84 171.55 2.23 0.59 16.12 26.41 15.38 1,149.69 613.20	277.88 132.69 154.94 48.37 91.54 161.59 18.18 39.98 149.87 0.02 60.44 19.99 9.63 1,165.14 1,147.55	291.59 124.23 131.67 43.07 72.77 117.70 13.90 51.82 173.77 26.88 25.78 2.55 1,075.73 1,912.52
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	84.65	85.05	65.46	40.42
	15.15	0.37	4.57	20.25
	3.60	0.35	1.40	4.27
	23.02	24.15	18.80	17.93
	12.48	9.56	14.43	12.03
	11.68	12.56	6.97	12.51
	12.25	13.07	13.11	26.44
	102.70	127.95	87.41	62.15
	15.18	43.03	13.99	5.99
	280.70	316.09	226.15	201.99
	1,392.32	1,465.78	1,391.29	1,277.72
	896.67	297.10	921.40	1,710.53
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	896.67	297.10	921.40	1,710.53
	132.32	131.10	127.15	160.98
	764.35	166.01	794.26	1,549.55
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	38.87	45.32	41.02	32.01
	48.69	57.78	48.98	38.02
	48.12	56.83	48.67	38.01
	52.75	62.00	53.14	42.80
Net value per unit	79.48	68.54	81.10	88.92
Machinery cost per acre	365.98	417.82	367.21	310.34
Est. labor hours per acre	5.46	5.01	4.73	4.71

Sugar Beets on Cash Rent, Joint Venture

	Ava. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	43	8	8	9
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	267.25 29.31 100.00 86.57 2,536.98 1.53 5.07 2,543.58	392.59 27.17 100.00 86.29 2,344.37 1.01 3.26 2,348.64	237.04 30.12 100.00 86.00 2,590.24 4.89	225.70 29.46 100.00 92.08 2,712.81 11.82 2,724.63
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Hired labor Land rent Stock/quota lease Machinery leases Hauling and trucking Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	274.18 141.27 151.81 45.25 77.33 141.81 16.14 40.86 158.28 363.79 0.75 44.19 26.20 5.65 1,487.51 1,056.07	277.49 137.46 152.86 41.60 90.54 177.30 23.71 40.65 159.42 469.35 0.40 64.14 42.93 6.36 1,684.21 664.43	271.99 140.61 166.66 41.03 78.88 155.85 10.86 49.59 170.04 335.71 11.26 37.92 4.53 1,474.94 1,120.19	260.83 135.70 140.94 56.95 63.31 106.98 14.75 36.93 128.00 198.44 3.64 46.21 13.63 5.08 1,211.37 1,513.26
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	60.65	65.75	61.94	33.40
	15.45	7.70	25.79	0.01
	2.80	1.31	0.06	0.22
	17.70	20.70	23.27	13.17
	10.18	12.01	9.26	7.23
	10.79	14.52	10.56	3.99
	13.65	18.66	17.80	12.38
	94.93	102.32	69.36	109.00
	10.02	11.42	5.71	10.61
	236.17	254.40	223.76	190.01
	1,723.68	1,938.61	1,698.70	1,401.38
	819.90	410.03	896.43	1,323.25
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	819.90	410.03	896.43	1,323.25
	151.00	147.07	177.06	144.72
	668.90	262.96	719.37	1,178.53
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	50.76	61.99	48.97	41.12
	58.82	71.35	56.40	47.57
	58.59	71.20	56.24	47.17
	63.74	76.61	62.11	52.08
Net value per unit	86.57	86.29	86.00	92.08
Machinery cost per acre	352.18	411.26	355.26	303.00
Est. labor hours per acre	5.13	4.65	5.98	4.62

Sunflowers 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 Other crop income per acre Gross return per acre	316.67 28.89 100.00 19.13 552.80 1.05 553.85
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Storage Fuel & oil Repairs Custom hire Hired labor Land rent Machinery leases Hauling and trucking Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	37.36 87.41 48.75 28.96 1.05 16.08 47.22 16.36 12.98 140.59 0.88 0.82 10.76 1.99 451.21 102.64
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	14.61 3.07 11.93 3.41 4.49 2.77 37.83 7.34 85.45 536.66 17.20
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	17.20 52.48 -35.29
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	15.62 18.57 18.54 20.35
Net value per unit Machinery cost per acre Est. labor hours per acre	19.13 123.89 2.17

Wheat, Spring on Owned Land

	Ava. Of <u>All Farms</u>	Low 20%	<u>40 - 60%</u>	_High 20%
Number of farms	56	11	11	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	240.50	219.15	246.00	234.22
	72.37	60.56	73.53	80.23
	100.00	100.00	100.00	100.00
	7.27	7.07	7.10	7.47
	526.50	428.41	522.16	599.40
	4.60	14.63	5.73	0.38
	7.59	2.97	5.78	10.65
	538.68	446.01	533.67	610.42
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drying expense Storage Fuel & oil Repairs Custom hire Hired labor Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	31.24 154.09 42.21 22.17 0.47 1.34 20.51 38.96 6.10 0.92 8.35 3.38 329.73 208.95	27.68 154.03 40.32 17.09 0.62 20.24 41.83 2.28 1.44 9.27 1.63 316.43 129.58	37.79 155.45 47.11 19.84 0.66 19.87 35.21 4.29 7.12 1.32 328.66 205.00	29.14 144.24 40.82 22.60 1.20 20.13 32.54 5.92 0.28 6.47 2.97 306.30 304.12
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	21.35	20.33	19.40	19.97
	4.35	8.09	6.68	1.19
	0.38	0.06	0.53	0.08
	25.74	35.09	31.20	20.28
	10.16	7.27	8.67	10.08
	4.04	3.11	3.80	2.85
	4.59	3.79	4.66	5.35
	67.97	131.55	62.21	50.53
	29.42	24.75	28.61	22.81
	2.32	2.54	2.94	2.20
	170.31	236.58	168.70	135.33
	500.04	553.02	497.36	441.63
	38.64	-107.00	36.31	168.79
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	38.64	-107.00	36.31	168.79
	34.24	27.31	37.73	44.74
	4.41	-134.31	-1.43	124.05
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	4.56	5.23	4.47	3.82
	6.91	9.13	6.76	5.50
	6.74	8.84	6.61	5.37
	7.21	9.29	7.12	5.92
Net value per unit	7.27	7.07	7.10	7.47
Machinery cost per acre	98.56	97.41	94.18	82.49
Est. labor hours per acre	1.53	1.51	1.39	1.35

Wheat, Spring on Cash Rent

	Ava. Of _All Farms	Low 20%	40 - 60%	_High 20%
Number of farms	116	23	23	24
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Other product return per acre Total product return per acre Hedding gains/losses per acre Crop insurance per acre Other crop income per acre Gross return per acre	502.85 71.13 100.00 7.30 0.09 519.54 2.45 7.01 3.96 532.96	315.66 53.20 100.00 7.13 379.10 2.07 10.31 2.47 393.94	550.92 70.55 100.00 7.15 504.49 7.11 10.65 3.95 526.20	506.52 82.98 100.00 7.57 628.27 2.16 6.18 6.81 6.81 643.42
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drving expense Storage Fuel & oil Repairs Custom hire Hired labor Land rent Machinerv leases Hauling and trucking Marketing Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	31.11 152.16 41.06 18.80 0.80 1.03 20.69 37.86 7.03 0.53 143.25 0.80 0.16 0.84 5.46 2.78 464.36 68.60	29.23 154.21 36.85 16.31 1.19 0.44 21.13 44.63 3.38 2.97 161.29 0.15 	30.83 151.82 38.07 20.20 0.23 2.62 19.72 37.35 3.99 0.01 137.38 2.40 0.64 0.25 6.19 3.31 455.02 71.18	30.30 146.41 44.30 19.05 0.64 0.57 21.24 32.41 6.42 0.07 141.63 0.35 2.02 4.23 3.35 452.99 190.43
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	19.32 3.59 0.66 7.84 3.83 3.76 3.06 27.33 2.80 72.19 536.55 -3.59	19.33 12.44 0.94 7.47 4.15 3.96 2.59 28.84 3.62 83.34 566.21 -172.27	25.84 1.22 0.05 7.88 4.50 2.70 2.60 29.95 2.55 77.29 532.31 -6.11	12.34 2.78 0.96 6.57 3.52 3.92 3.45 22.37 2.06 57.97 510.96 132.46
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	-3.59 33.17 -36.76	-172.27 29.65 -201.92	-6.11 30.53 -36.63	132.46 31.76 100.70
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	6.53 7.54 7.35 7.82 7.34 98.25	9.08 10.64 10.36 10.92 7.16 111.46	6.45 7.54 7.24 7.67 7.25 94.36	5.46 6.16 5.97 6.36 7.60 87.01
Est. labor hours per acre	1.41	1.64	1.24	1.32

Wheat, Spring on Share Rent

	Avg. Of All Farms
Number of farms	8
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Other crop income per acre Gross return per acre	251.34 70.91 67.24 7.07 337.28 4.14 341.42
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Storage Fuel & oil Repairs Custom hire Hired labor Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	34.44 156.05 36.66 15.49 0.59 20.74 38.52 1.52 3.19 6.66 3.49 317.34 24.08
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	10.06 14.45 1.32 7.36 2.62 4.18 2.27 18.50 2.89 63.64 380.98 -39.56
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	-39.56 33.50 -73.06
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	6.66 7.99 7.90 8.61
Net value per unit Machinery cost per acre Est. labor hours per acre	7.07 94.63 2.03

Farm Financial Scorecard

Using Recommended Measures from the Farm Financial Standards Council (FFSC)

Desired Your Farm: **Trend** Liquidity Vulnerable Strong 2.0 1.3 Current Ratio 10% 30% Working Capital as % of % Gross Revenue 20% 40% Working Capital as % of % Operating Expense* Solvency Vulnerable 60% 30% Strong % Debt-to-Asset Ratio 40% 70% % Equity-to-Asset Ratio* 1.5 0.43 Debt-to-Equity Ratio* **Profitability** Vulnerable 4% 8% Strong % Rate of Return on Assets 3% 10% % Rate of Return on Equity 15% 25% % Operating Profit Margin Ratio 30% 45% % Asset Turnover Ratio Vulnerable **Repayment Capacity** 1.25 1.75 Strong Debt Coverage Ratio 1.1 1.5 Replacement Coverage Ratio 1.25 1.75 Term Debt & Finance Lease Coverage Ratio* Financial Efficiency Vulnerable 80% 60% Strong % Operating Expense Ratio 10% 5% % Depreciation Expense Ratio 10% 5% % Interest Expense Ratio 10% 20% % Net Farm Income Ratio



Year: **20**

^{*} Denotes Acceptable Alternate Measures of the FFSC (https://ffsc.org/)