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

RED RIVER VALLEY AVERAGES 2020 ANNUAL REPORT

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A special acknowledgment is due AgCentric, Minnesota State Northern Center of Excellence in Agriculture, and the North Dakota State Board for Vocational and Technical Education for cooperation in the development of the 26th annual Red River Valley Report.

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

TABLE OF CONTENTS

Introduction	
Explanatory Notes for the Farm Operators' Reports	2
Five-Year Trend of Financial measures	7
Farm Income Statement	
Inventory Changes	10
Depreciation	11
Profitability Measures	
Liquidity & Repayment Capacity Measures	13
Balance Sheet at Cost Values	14
Balance Sheet at Market Values	15
Statement of Cash Flows	16
Financial Standards Measures	17
Crop Production and Marketing Summary	18
Operator and Labor Information	19
Household and Personal Expenses	20
Financial Summary (sorted by gross farm income)	21
Financial Summary (sorted by age of operator)	22
Explanatory Notes for Crop Tables	23
Five Year Crop History of Yields and Cost of Production	
Barley on Cash Rent	.25
Beans, Navy on Cash Rent	.26
Beans, Pinto on Owned Land	
Beans, Pinto on Cash Rent	.28
Corn on Owned Land	29
Corn on Cash Rent	
Hay, Alfalfa on Cash Rent	
Soybeans on Owned Land	
Soybeans on Cash Rent	
Soybeans, Food on Owned Land	
Soybeans, Food on Cash Rent	
Soybeans, Seed on Owned Land	
Soybeans, Seed on Cash Rent	
Sugar Beets on Owned Land, Excluding Joint Venture	
Sugar Beets on Owned Land, Joint Venture	
Sugar Beets on Cash Rent, Excluding Joint Venture	
Sugar Beets on Cash Rent, Joint Venture	
Sunflowers on Cash Rent	
Wheat, Spring on Owned Land	43
Wheat Spring on Cash Rent	44

INTRODUCTION

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

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

The 2020 Red River Valley Report is based upon data generated by individual farm analysis completed by farm/ranch families enrolled in the Farm and Ranch Business Management Education programs in Minnesota and North Dakota. The tables in this report were created using FINPACK and RankEm Central copyrighted software of the Center for Farm Financial Management, University of Minnesota.

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

EXPLANATORY NOTES FOR THE FARM OPERATORS' REPORTS

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

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

Farm Income Statement

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

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

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

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

The second section of the income statement lists <u>cash</u> expenses. "Hired labor" includes only labor which was hired and paid. "Interest" includes only interest actually paid. No opportunity charges on farm equity capital or unpaid labor are included.

The difference between "Gross Cash Farm Income" and "Total cash expense" is the "Net cash farm income." This is net farm income on a <u>cash</u> basis.

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

Inventory Changes

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

Depreciation

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

Profitability Measures

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

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

Liquidity & Repayment Capacity Measures

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

Balance Sheets

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

Statement of Cash Flows

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

Financial Standards Measures

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

Liquidity

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

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

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

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

Solvency

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

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

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

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

Profitability

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

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

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

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

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

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

EBITDA: This factor stands for: <u>Earnings Before Interest, 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."

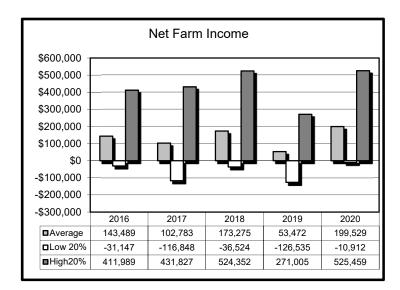
Operator and Labor Information

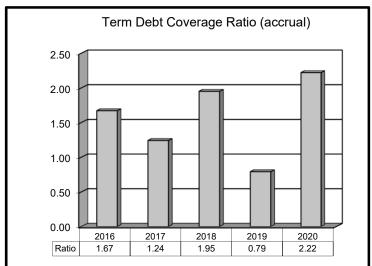
This table reports the average for the number of operators per farm, the operator's age, and the number of years farming.

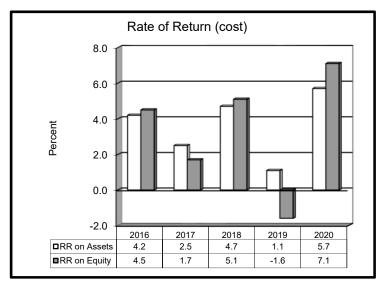
Nonfarm Summary

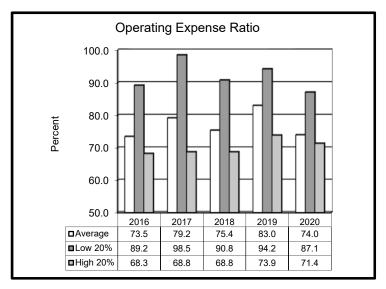
This table also reports nonfarm income. The figure reported is the average over all farms <u>not</u> just those reporting nonfarm income.

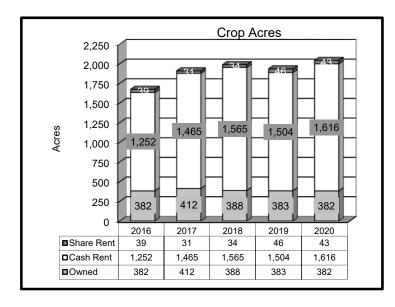
Five Year Trend of Financial Measures Red River Valley Farm Business Management Education

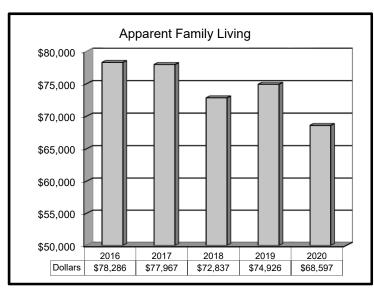












Farm Income Statement Minnesota and North Dakota Farm Business Management Education Red River Valley, 2020 (Farms Sorted By Net Farm Income)

	Avg. Of			
	All Farms	<u>Low 20%</u>	40 - 60%	High 20%
Number of farms	216	43	43	44
Cash Farm Income				
Barley	2,532	268	4,624	3,817
Beans, Black Turtle	4,839	4,165	7,648	2,132
Beans, Dark Red Kidney	1,054	5,292	-	-
Beans, Great Northern	1,094	2,436	-	-
Beans, Navy	1,573	850	982	1,507
Beans, Pink	1,863	-	-	9,148
Beans, Pinto	5,058	10,617	786	13,680
Corn	269,035	163,045	183,473	551,703
Corn Silage	1,384	-	857	-
Grass Seed, Fescue	421	-	2,112	-
Hay, Alfalfa	1,416	4,349	735	949
Hay, Mixed	3,559	559	-	5,973
Oats	81	-	240	161
Peas, Field	1,320	110	34	6,339
Potatoes	18,967	-	-	83,607
Rye	101	509	-	-
Soybeans	275,646	217,125	196,123	515,796
Soybeans Seed	21,776	2,203	17,374	52,234
Sugar Beets	158,894	103,921	70,606	421,730
Sunflowers	3,863	6,750	4,648	-
Sunflowers, Confectionary	95	-	478	-
Wheat, Durum	344	-	-	-
Wheat, Hard Red Spring	110	85	467	-
Wheat, Spring	99,228	81,152	58,031	211,486
Wheat, Hard White	215	-	-	1,057
Soybeans, Natto	297	1,492	-	-
Peas, Organic	82	411	=	-
Hemp, Seed	137	-	686	-
User Added Crop	1,030	1,464	=	-
Miscellaneous crop income	8,084	2,555	5,420	30,825
Beef Cow-Calf, Beef Calves	3,120	411	4,348	345
Beef Replacement Heifers	293	.	-	-
Beef Backgrounding	1,519	491	7,138	<u>-</u>
Beef Finishing	1,851	-	2,428	4,526
Hogs, Weaning to Finish	4,169	-	-	-
Cull breeding livestock	76	-	380	-
Misc. livestock income	26		131	-
Crop government payments	33,368	25,587	21,562	67,249
CRP payments	1,093	119	1,145	1,239
Other government payments	114,176	80,707	86,014	198,690
Conservation govt payment	4,310	3,235	4,869	7,034
Custom work income	14,955	11,614	20,088	13,453
Patronage dividends, cash	12,666	9,269	8,211	24,950
Crop insurance income	97,847	67,894	101,622	159,362
Property insurance income	237	- 4 440	308	682
Sale of resale items	288	1,116		-
Farm rental income	5,849	5,029	2,278	6,664
Other farm income	40,348	31,202	18,088	87,193
Gross Cash Farm Income	1,220,291	846,032	833,936	2,483,529

Farm Income Statement (continued) Minnesota and North Dakota Farm Business Management Education Red River Valley, 2020

(Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	216	43	43	44
Cash Farm Expense				
Seed and plants	150,952	99,456	92,099	321,292
Fertilizer	128,908	92,299	91,358	258,163
Crop chemicals	90,929	61,619	57,856	192,978
Crop insurance	33,714	29,048	25,980	61,260
Drying expense	5,151	4,544	3,226	10,830
Storage	1,637	174	615	5,384
Irrigation energy	410	-	-	1,794
Packaging and supplies	56 0.114	90	190	- 25.793
Crop miscellaneous Consultants	9,114 4,508	6,123 3,003	3,604 3,780	25,793 10,024
Feeder livestock purchase	3,889	3,003	4,913	2,230
Purchased feed	1,708	240	1,704	195
Breeding fees	90	-	228	108
Veterinary	460	94	616	74
Supplies	227	17	200	41
Livestock leases	677	-	-	-
Interest	57,139	51,216	36,908	120,723
Fuel & oil	39,431	30,660	27,813	72,156
Repairs	89,600	68,807	64,867	172,605
Custom hire	18,186	11,268	13,768	33,660
Hired labor	58,953	29,915	29,756	140,733
Land rent	211,559	155,010	143,135	438,247
Stock/quota lease	13,332	17,984	5,074	26,274
Machinery leases	15,655	14,098	13,498	27,584
Building leases	2,703	1,165	992	6,699
Real estate taxes Farm insurance	10,907 16,349	7,603 12,924	6,324 12,604	22,987 28,575
Utilities	11,998	10,254	9,182	19,482
Hauling and trucking	4,012	4,971	2,629	9,919
Marketing	1,920	623	1,916	2,819
Dues & professional fees	9,409	8,927	5,051	14,496
Purchase of resale items	9,466	7,317	4,065	18,505
Miscellaneous	10,043	7,309	10,571	16,165
Total cash expense	1,013,091	736,759	674,525	2,061,797
Net cash farm income	207,199	109,273	159,411	421,733
Inventory Changes				
Prepaids and supplies	32,921	13,737	7,258	96,949
Accounts receivable	-34,466	-45,210	-28,055	-83,716
Hedging accounts	-4,276	-17,540	407	12,438
Other current assets	-4,624	19,604	306	-42,352
Crops and feed	43,493	-48,199	22,407	192,550
Market livestock Breeding livestock	-1,684 175	250 -631	-2,356 1,415	-891
Other assets	6,244	930	922	10,447
Accounts payable	18,956	14,303	27,124	19,051
Accrued interest	2,672	-697	-50	13,240
Total inventory change	59,412	-63,452	29,378	217,715
Net operating profit	266,611	45,821	188,788	639,448
Depreciation				
Machinery and equipment	-56,468	-46,753	-38,171	-99,780
Titled vehicles	-5,823	-4,257	-4,792	-10,604
Buildings and improvements	-6,785	-5,537	-4,619	-14,421
Total depreciation	-69,076	-56,546	-47,582	-124,805
Net farm income from operations	197,535	-10,725	141,207	514,643
Gain or loss on capital sales	1,994	-187	3,140	10,816
Net farm income	199,529	-10,912	144,346	525,459

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

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	216	43	43	44
Net cash farm income	207,199	109,273	159,411	421,733
Crops and Feed	602 206	246.042	207 554	1 225 510
Ending inventory Beginning inventory	602,206 558,713	346,942 395,141	387,554 365,147	1,325,519 1,132,969
Inventory change	43,493	-48,199	22,407	192,550
Market Livestock	7.005	4.000	40.005	2.000
Ending inventory Beginning inventory	7,835 9,519	1,062 812	13,635 15,991	2,986 3,877
Inventory change	-1,684	250	-2,356	-891
Accts Receivable	00.504	50.040	00.070	450.007
Ending inventory Beginning inventory	99,531 133,997	58,846 104,056	66,876 94,932	150,387 234,103
Inventory change	-34,466	-45,210	-28,055	-83,716
Prepaid Expenses and Supplies			46	
Ending inventory Beginning inventory	101,031 68,110	62,138 48,401	46,330 39,072	238,071 141,122
Inventory change	32,921	13,737	7,258	96,949
Hedging Activities				
Ending inventory Withdrawals	12,671 5,857	4,506 8,385	3,932 1,340	49,130 18,213
Beginning inventory	7,626	10,352	2,327	18,265
Deposits	15,178	20,078	2,537	36,640
Gain or loss	-4,276	-17,540	407	12,438
Other Current Assets	22.000	402.004	744	7 470
Ending inventory Beginning inventory	23,098 27,722	103,991 84,386	741 435	7,170 49,522
Inventory change	-4,624	19,604	306	-42,352
Breeding Livestock	7 000	1 274	10.744	
Ending inventory Capital sales	7,232 345	1,374	12,744	-
Beginning inventory	6,578	1,431	10,585	-
Capital purchases Depreciation, capital adjust	823 175	574 -631	744 1,415	-
	175	-031	1,413	-
Other Capital Assets Ending inventory	331.399	266.928	167.205	697,032
Capital sales	5,244	4,630	2,205	3,589
Beginning inventory	322,864 7.535	266,484	161,863 6,624	679,499 10,676
Capital purchases Depreciation, capital adjust	7,535 6,244	4,144 930	6,624 922	10,676 10,447
Accounts Payable				
Beginning inventory	60,752	46,111	64,941	99,172
Ending inventory Inventory change	41,796 18,956	31,807 14,303	37,817 27,124	80,122 19,051
Accrued Interest				
Beginning inventory	27,988	24,247	19,064	57,094
Ending inventory Inventory change	25,316 2,672	24,945 -697	19,114 -50	43,854 13,240
Total inventory change	59,412	-63,452	29,378	217,715
	·			
Net operating profit	266,611	45,821	188,788	639,448

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

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

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

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

Liquidity & Repayment Capacity Measures Minnesota and North Dakota Farm Business Management Education Red River Valley, 2020

(Farms Sorted By Net Farm Income)

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

Balance Sheet at Cost Values Minnesota and North Dakota Farm Business Management Education Red River Valley, 2020

(Farms Sorted By Net Farm Income)

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

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

	Ava. Of _All Farms	Low 20%	<u>40 - 60%</u>	High 20%
Number of farms	216	43	43	44
Assets Current Farm Assets Cash and checking balance Prepaid expenses & supplies Growing crops Accounts receivable Hedging accounts Crops held for sale or feed Crops under government loan Market livestock held for sale	97.259	61.612	55.576	228.275
	101,031	62,138	46,330	238.071
	310	173	84	1.273
	99,531	58.846	66,876	150.387
	12.671	4.506	3.932	49.130
	602,206	346,942	387,554	1,325,519
Other current assets Total current farm assets	22.788	103.817	657	5.897
	943,631	639,095	574,645	2,001,537
Intermediate Farm Assets Breeding livestock Machinery and equipment Titled vehicles Other intermediate assets Total intermediate farm assets	7,982 868,247 66,289 318,135 1,260,653	1,374 747,526 55,524 262,944 1,067,368	15,205 539,119 60,912 148,911 764,147	1,560.641 120,479 698,462 2,379,582
Long Term Farm Assets Farm land Buildings and improvements Other long-term assets Total long-term farm assets Total Farm Assets	1,400,396	951,712	985,946	2,484,063
	326,787	261,808	174,883	661,940
	112,616	129,902	46,861	180,235
	1,839,799	1,343,422	1,207,690	3,326,239
	4,044,082	3,049,886	2,546,482	7,707,358
Total Nonfarm Assets	496.687	295.811	383.928	745.779
Total Assets	4,540,770	3,345,696	2,930,410	8,453,136
Liabilities Current Farm Liabilities Accrued interest Accounts payable Current notes Government crop loans Principal due on term debt Total current farm liabilities	25,316 41,796 433,989 - 76,355 577,457	24,945 31.807 457,397 - 67.021 581,169	19,114 37,817 247,008 - 52,850 356,789	43,854 80,122 826,431 132,768 1,083,175
Total intermediate farm liabs	192,112	208,304	124.037	317,551
Total long term farm liabilities	648,567	508,415	446.336	1,230,618
Total farm liabilities	1,418,136	1,297,888	927,162	2,631,343
Total nonfarm liabilities	88,828	73,055	85,347	114,349
Total liabs excluding deferreds	1,506.964	1,370.943	1,012.509	2,745.692
Total deferred liabilities	349.109	287.261	195.610	801.798
Total liabilities	1,856,073	1,658,204	1,208,119	3,547,490
Retained earnings Market valuation equity Net worth (farm and nonfarm) Net worth excluding deferreds Net worth change Percent net worth change	2,025,956	1,117,369	1,263,632	4,121,711
	658,741	570,124	458,659	783,936
	2,684,697	1,687,492	1,722,291	4,905,647
	3,033,806	1,974,753	1,917,901	5,707,445
	208,704	-9,263	172,397	382,639
	8 %	-1 %	11 %	8 %
Ratio Analysis Current farm liabilities / assets Intermediate farm liab. / assets Long term farm liab. / assets Total debt to asset ratio Debt to assets excl deferreds	61 %	91 %	62 %	54 %
	15 %	20 %	16 %	13 %
	35 %	38 %	37 %	37 %
	41 %	50 %	41 %	42 %
	33 %	41 %	35 %	32 %

Statement Of Cash Flows

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

(Farms Sorted By Net Farm Income)

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

Financial Standards Measures Minnesota and North Dakota Farm Business Management Education Red River Valley, 2020

(Farms Sorted By Net Farm Income)

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

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

	Avg. Of	Low 200/	40 609/	Uinh 200/
	All Farms	Low 20%	40 - 60%	High 20%
Number of farms	216	43	43	44
Acreage Summary				
Total acres owned	408	294	288	733
Total crop acres	2,041	1,431	1,443	3,712
Crop acres owned	382	259	223	675
Crop acres cash rented	1,616	1,157	1,157	2,983
Crop acres share rented	43	16	63	54
Total pasture acres	11	6	43	-
Percent crop acres owned	19 %	18 %	15 %	18 %
Mach invest/crop acre cost	336	389	314	342
Mach invest/crop acre market	440	521	402	442
Average Price Received (Cash Sales	Only)			
Soybeans per bushel	8.78	8.92	8.90	8.89
Wheat, Spring per bushel	4.95	4.90	4.82	4.87
Corn per bushel	3.12	3.15	3.31	3.12
Soybeans Seed per bushel	9.56	-	-	9.93
Sunflowers per cwt	18.97	-	-	-
Soybeans, Food per bushel	12.79	-	-	-
Hay, Alfalfa per ton	125.69	-	-	-
Barley per bushel	4.44	-	-	-
Beans, Navy per cwt	27.27	-	-	-
Beans, Black Turtle per cwt	29.13	-	-	-
Average Yield Per Acre	00.44	20.04	07.40	40.00
Soybeans (bushel)	38.14	33.94	37.49	40.69
Corn (bushel)	170.44	163.03	167.80	170.53
Wheat, Spring (bushel)	60.98	56.37	57.22	63.47
Sugar Beets (ton)	25.59	25.17	26.12	25.13
Soybeans Seed (bushel)	39.06	45.67	37.21	38.86
Soybeans, Food (bushel)	41.01	41.34	-	46.64
Sunflowers (cwt)	19.04	17.98	-	-
Barley (bushel)	68.75	-	-	- 00.40
Beans, Pinto (cwt)	21.36	-	-	22.43
Hay, Alfalfa (ton)	4.11	-	-	-
Beans, Navy (cwt)	17.34	-	-	-
Beans, Black Turtle (cwt)	19.21 10.50	-	-	-
Canola (cwt)	19.50	-	-	-
Corn Silage (ton)	18.68	-	-	-

Operator and Labor Information Minnesota and North Dakota Farm Business Management Education Red River Valley, 2020

(Farms Sorted By Net Farm Income)

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

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

	Avg. Of All Farms	2020
Number of farms	39	39
Average family size	3.0	3.0
Family Living Expenses		
Food and meals expense	9,653	9,653
Medical care	4,551	4,551
Health insurance	5,744	5,744
Cash donations	1,594	1,594
Household supplies	3,419	3,419
Clothing	1,969	1,969
Personal care	3,334	3,334
Child / Dependent care	428	428
Alimony and child support	129	129
Gifts	1,831	1,831
Education	1,847	1,847
Recreation	4,606	4,606
Utilities (household share)	3,605	3,605
Personal vehicle operating exp	3,455	3,455
Household real estate taxes	1,038	1,038
Dwelling rent	289	289
Household repairs	3,413	3,413
Personal interest	3,568	3,568
Disability / Long term care ins	157	157
Life insurance payments	4,353	4,353
Personal property insurance	487	487
Miscellaneous	6,486	6,486
Total cash family living expense	65,955	65,955
Family living from the farm	-	-
Total family living	65,955	65,955
Other Nonfarm Expenditures		
Income taxes	17,509	17,509
Furnishing & appliance purchases	-	-
Nonfarm vehicle purchases	7,200	7,200
Nonfarm real estate purchases	-5,444	-5,444
Other nonfarm capital purchases	-3,225	-3,225
Nonfarm savings & investments	6,497	6,497
Total other nonfarm expenditures	22,538	22,538
Total cash family living		
investment & nonfarm capital purch	88,493	88,493

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

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

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

	Avg. Of All Farms	Less Than 31	31 - 40	41 - 50	51 - 60	Over 60
Number of farms	216	27	50	43	48	48
Income Statement Gross cash farm income Total cash farm expense Net cash farm income Inventory change Depreciation Net farm income from operations Gain or loss on capital sales Average net farm income Median net farm income	1,220,291	602,598	1,068,932	1,285,590	1,675,612	1,211,590
	1,013,091	532,590	861,442	1,071,924	1,389,747	1,011,981
	207,199	70,008	207,489	213,665	285,865	199,609
	59,412	61,834	5,115	101,707	64,448	71,682
	-69,076	-17,822	-50,681	-74,682	-93,043	-88,077
	197,535	114,020	161,923	240,691	257,269	183,215
	1,994	149	91	517	11,245	-2,913
	199,529	114,169	162,014	241,207	268,514	180,302
	145,314	80,475	132,101	178,963	236,708	110,293
Profitability (cost) Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	5.7 %	9.9 %	6.9 %	6.0 %	5.9 %	3.9 %
	7.1 %	21.2 %	10.3 %	8.3 %	7.1 %	4.2 %
	14.2 %	15.0 %	13.5 %	15.7 %	14.5 %	12.8 %
	39.7 %	66.3 %	50.8 %	38.4 %	40.3 %	30.5 %
Profitability (market) Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	5.2 %	9.7 %	6.6 %	4.9 %	5.2 %	4.2 %
	6.8 %	20.5 %	10.1 %	7.0 %	6.4 %	5.0 %
	16.7 %	16.0 %	14.8 %	15.6 %	17.4 %	18.8 %
	31.0 %	60.8 %	44.9 %	31.5 %	29.8 %	22.4 %
Liquidity & Repayment (end of year) Current assets Current liabilities Current ratio Working capital Change in working capital Working capital to gross inc Term debt coverage ratio Replacement coverage ratio Term debt to EBITDA	943,631	351,067	672,220	1,158,888	1,217,197	1,093,267
	577,457	207,659	480,436	710,089	741,846	603,326
	1.63	1.69	1.40	1.63	1,64	1.81
	366,174	143,408	191,784	448,799	475,351	489,941
	123,375	67,039	48,845	130,327	172,347	177,499
	29.7 %	22.6 %	17.9 %	33.7 %	28.9 %	39.6 %
	2.22	2.96	2.16	2.32	2,22	2.01
	1.54	2.87	1.72	1.68	1,46	1.24
	2.33	2.17	2.49	2.29	2,22	2.42
Solvency (end of year at cost) Number of farms Total assets Total liabilities Net worth Net worth change Farm debt to asset ratio Total debt to asset ratio Change in earned net worth %	216	27	50	43	48	48
	3,532,920	1,198,268	2,456,544	3,947,081	4,495,603	4,633,683
	1,506,964	765,353	1,288,948	1,782,478	1,861,373	1,549,995
	2,025,956	432,915	1,167,597	2,164,603	2,634,229	3,083,687
	160,042	111,872	125,971	187,577	199,548	158,454
	45 %	63 %	55 %	47 %	44 %	36 %
	43 %	64 %	52 %	45 %	41 %	33 %
	9 %	35 %	12 %	9 %	8 %	5 %
Solvency (end of year at market) Number of farms Total assets Total liabilities Net worth Total net worth change Farm debt to asset ratio Total debt to asset ratio Change in total net worth %	216	27	50	43	48	48
	4,540,770	1,318,946	2,776,411	4,801,610	6,169,710	6,328,308
	1,856,073	812,537	1,428,923	2,251,398	2,363,919	2,026,019
	2,684,697	506,409	1,347,488	2,550,212	3,805,791	4,302,289
	208,704	123,845	141,283	198,099	293,513	251,360
	43 %	62 %	54 %	49 %	41 %	35 %
	41 %	62 %	51 %	47 %	38 %	32 %
	8 %	32 %	12 %	8 %	8 %	6 %
Nonfarm Information Net nonfarm income Farms reporting living expenses Total family living expense Total living, invest, cap. purch	31,402	29,762	24,433	50,266	18,157	35,931
	39	9	5	8	5	12
	65,955	41,199	52,324	81,112	71,878	77,630
	88,493	41,371	16,774	130,418	105,328	118,753
Crop Acres Total crop acres Total crop acres owned Total crop acres cash rented Total crop acres share rented Machinery value per crop acre	2,041	1,600	1,700	2,155	2,666	1,918
	382	93	169	364	620	544
	1,616	1,464	1,488	1,757	2,015	1,311
	43	43	42	34	31	63
	440	113	328	452	464	648

EXPLANATORY NOTES FOR CROPS TABLES

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

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

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

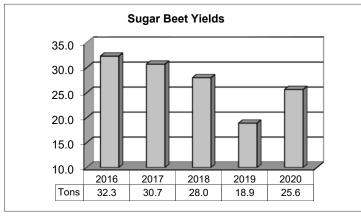
Several cost items, such as "utilities," "hired labor," and "interest paid," are listed under both "direct" and "overhead" costs because some of these costs are specific to that crop whereas others are general overhead costs of the farm. For example, "Machinery leases" as direct expense refers to machinery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

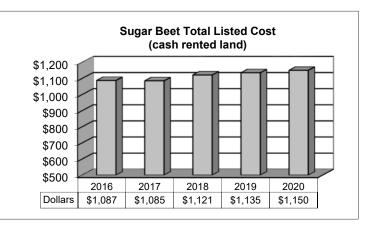
"Total direct expense per unit" and "Total dir & ovhd exp per unit" are calculated by dividing "Total direct expense per acre" and "Total dir & ovhd expenses per acre," respectively, by "Yield per acre." "With labor & management" is the breakeven yield after direct, overhead and a labor and management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

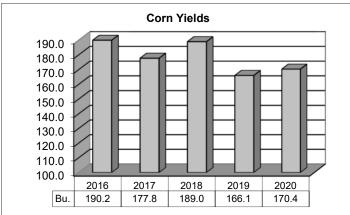
In the last section of the crop table, "machinery cost per acre" is the sum of fuel, repairs, all custom hire and machinery leases, machinery depreciation and interest on intermediate debt.

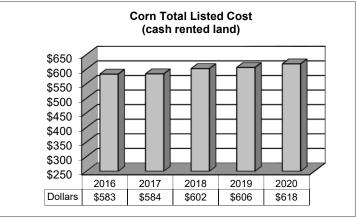
Rounding of individual items for the report may have caused minor discrepancies with the calculated totals.

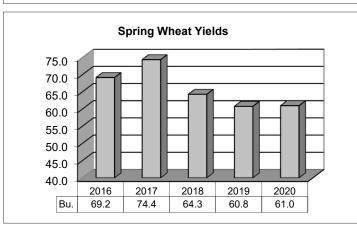
Five Year Crop History of Yields and Cost of Production Red River Valley Farm Business Management Education

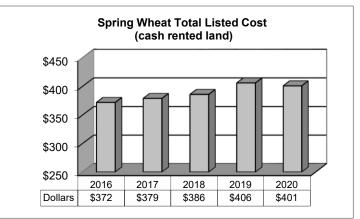


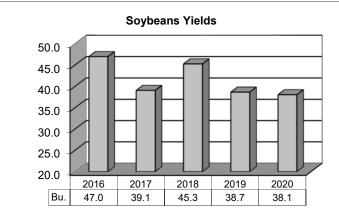


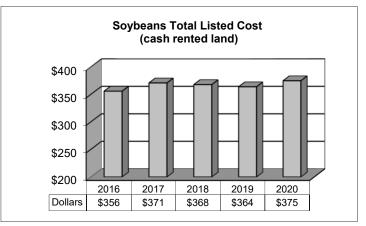












Barley on Cash Rent

	Avg. Of All Farms
Number of farms	10
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	182.42 69.13 100.00 4.43 306.15 0.76 36.88 343.79
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drying expense Storage Fuel & oil Repairs Custom hire Hired labor Land rent Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	18.41 59.00 26.65 12.60 0.25 0.47 15.00 34.99 10.79 2.41 116.33 2.12 3.32 4.06 306.40 37.39
Overhead Expenses Hired labor Machinery leases Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	18.82 3.62 0.61 6.31 5.45 4.46 2.31 21.20 4.14 66.94 373.34 -29.55
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	26.97 -2.58 27.07 -29.64
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	4.43 5.40 4.47 4.86
Net value per unit Machinery cost per acre Est. labor hours per acre	4.43 87.69 1.75

Beans, Navy on Cash Rent

	Avg. Of All Farms
Number of farms	5
Acres Yield per acre (cwt.) Operators share of yield % Value per cwt. Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	302.55 17.40 100.00 28.53 496.37 150.73 28.53 675.63
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Hired labor Land rent Operating interest Total direct expenses per acre Return over direct exp per acre	57.48 26.94 56.48 32.15 44.79 21.09 0.99 155.52 7.57 403.01 272.62
Overhead Expenses Hired labor Machinery leases Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	11.13 2.08 3.76 3.83 2.12 4.21 8.88 18.73 2.03 56.77 459.78 215.85
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	215.85 22.76 193.08
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	23.17 26.43 16.12 17.43
Net value per unit Machinery cost per acre Est. labor hours per acre	28.53 95.01 1.92

Beans, Pinto on Owned Land

	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 Other crop income per acre Gross return per acre	146.82 21.05 100.00 29.36 618.06 2.87 36.94 657.88
Direct Expenses Seed and plants Fertilizer Crop chemicals Cover crop expense Crop insurance Fuel & oil Repairs Custom hire Operating interest Total direct expenses per acre Return over direct exp per acre	74.20 51.41 78.85 0.15 40.06 20.26 50.76 1.21 9.43 326.33 331.55
Overhead Expenses Hired labor Machinery leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	39.40 0.74 18.38 7.41 6.85 4.80 41.50 50.05 1.82 170.95 497.28 160.60
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	160.60 19.69 140.90
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	15.50 23.63 21.73 22.67
Net value per unit Machinery cost per acre Est. labor hours per acre	29.36 127.57 1.71

Beans, Pinto on Cash Rent

	Avg. Of All Farms
Number of farms	5
Acres Yield per acre (cwt.) Operators share of yield % Value per cwt. Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	214.65 20.12 100.00 31.23 628.23 21.71 15.51 665.45
Direct Expenses Seed and plants Fertilizer Crop chemicals Cover crop expense Crop insurance Fuel & oil Repairs Land rent Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	64.00 35.00 70.10 1.14 32.65 16.48 35.91 91.60 7.86 0.11 354.86 310.59
Overhead Expenses Hired labor Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	16.60 0.28 8.21 3.96 7.48 4.23 40.50 3.41 84.66 439.52 225.92
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	225.92 30.30 195.62
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management Net value per unit Machinery cost per acre Est. labor hours per acre	17.64 21.85 20.00 21.50 31.23 96.29 1.83
•	-

Corn on Owned Land

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

Corn on Cash Rent

	Ava. Of _All Farms	Low 20%	40 - 60%	_High 20%
Number of farms	114	22	23	23
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Hedging gains/losses per acre Crop insurance per acre Other crop income per acre Gross return per acre	528.95 169.35 100.00 3.90 659.98 -5.45 16.64 44.54 715.70	883.58 161.09 100.00 3.74 602.65 -13.07 8.11 52.76 650.45	474.68 172.98 100.00 3.82 661.49 -4.88 8.13 40.20 704.95	439.54 181.15 100.00 4.26 772.44 21.86 44.71 839.02
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drving expense Storage Fuel & oil Repairs Custom hire Hired labor Land rent Machinery leases Marketing Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	90.41 120.94 27.45 20.25 7.62 0.37 22.72 50.87 8.46 2.69 146.11 1.39 0.41 16.04 2.76 518.49 197.22	94.22 124.17 27.44 21.82 6.62 0.38 21.18 47.06 14.78 5.79 159.56 0.15 	92.48 119.15 26.20 20.46 6.96 0.80 22.47 51.20 5.51 1.19 130.41 2.55 0.38 16.68 2.58 499.01 205.94	84.30 117.88 28.89 19.39 7.86 0.38 24.39 48.39 4.09 1.57 131.54 0.40 0.63 13.79 2.76 486.25 352.77
Overhead Expenses Custom hire Hired labor Machinery leases Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	0.55 21.49 9.41 2.36 7.61 5.68 3.78 5.35 38.84 4.81 99.88 618.37 97.33	0.38 17.93 6.39 5.83 4.76 4.65 2.23 6.45 27.68 5.28 81.58 627.45 23.00	0.73 20.88 8.56 0.80 10.46 7.41 4.70 7.46 48.03 6.19 115.22 614.23 90.72	20.80 22.75 0.65 7.50 5.02 4.02 4.33 50.77 3.57 119.41 605.66 233.35
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	30.58 127.92 41.28 86.63	29.23 52.23 28.16 24.07	29.71 120.43 46.38 74.05	35.49 268.84 50.83 218.01
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	3.06 3.65 3.14 3.39	3.39 3.89 3.42 3.59	2.88 3.55 3.13 3.40	2.68 3.34 2.78 3.06
Net value per unit Machinery cost per acre Est. labor hours per acre	3.86 135.38 2.19	3.66 122.76 1.96	3.80 143.84 2.36	4.26 153.46 2.39

Hay, Alfalfa on Cash Rent

	Avg. Of All Farms
Number of farms	9
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Other crop income per acre Gross return per acre	94.81 3.92 100.00 124.98 489.50 17.60 507.09
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Land rent Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	19.05 48.20 4.67 2.45 17.76 48.47 131.48 37.08 16.04 6.03 331.23 175.86
Overhead Expenses Custom hire Hired labor Machinery leases Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	2.79 21.81 1.75 0.28 7.52 4.87 3.40 2.67 31.43 5.44 81.97 413.19 93.90
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	21.67 115.57 37.20 78.37
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	84.57 105.49 95.47 104.97
Net value per unit Machinery cost per acre Est. labor hours per acre	124.98 137.28 2.05

Soybeans on Owned Land

	Avg. Of _All Farms	Low 20%	40 - 60%	High 20%
Number of farms	81	16	16	17
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Hedging gains/losses per acre Crop insurance per acre Other crop income per acre Gross return per acre	273.80 39.22 100.00 9.96 390.85 -2.53 14.42 27.52 430.27	366.29 30.95 100.00 9.41 291.30 22.73 19.59 333.62	172.38 42.36 100.00 9.50 402.29 -1.86 12.48 23.31 436.22	314.34 46.53 100.00 10.74 499.67 -6.51 14.51 40.00 547.67
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Storage Fuel & oil Repairs Custom hire Hired labor Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	59.48 7.83 32.98 18.89 0.34 12.66 28.56 4.47 0.82 0.62 8.52 2.28 177.45 252.82	62.26 11.00 30.04 23.16 0.22 12.97 33.58 6.10 0.52 12.38 2.71 194.93 138.69	56.37 11.30 36.88 15.95 0.97 12.03 32.21 3.77 0.46 3.66 6.19 1.52 181.31 254.91	57.75 2.53 32.79 13.83 12.49 26.58 5.65 2.24 7.27 1.64 162.77 384.90
Overhead Expenses Custom hire Hired labor Machinery leases Building leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldq depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	0.75 13.96 4.87 0.96 22.12 7.66 5.70 3.92 41.50 29.41 3.58 134.43 311.88 118.39	1.08 14.58 0.15 1.12 20.51 8.86 8.45 4.64 21.19 31.37 3.30 115.26 310.20 23.43	1.05 13.97 15.67 0.08 25.35 6.26 3.19 4.35 55.04 22.50 4.76 152.24 333.54 102.67	12.66 6.67 2.37 25.86 6.98 3.60 2.29 67.27 29.02 4.11 160.84 323.60 224.07
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	28.97 147.35 30.90 116.46	29.46 52.89 41.31 11.58	24.74 127.41 26.50 100.91	32.68 256.75 26.11 230.64
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	4.52 7.95 6.21 7.00	6.30 10.02 7.70 9.04	4.28 7.87 6.49 7.11	3.50 6.95 5.22 5.78
Net value per unit Machinery cost per acre Est. labor hours per acre	9.90 82.14 1.49	9.41 83.97 2.13	9.45 93.26 1.36	10.60 83.41 1.19

Soybeans on Cash Rent

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

Soybeans, Food on Owned Land

	Avg. Of All Farms
Number of farms	6
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	280.00 40.99 100.00 12.39 508.02 21.26 23.98 553.27
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Hired labor Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	50.13 6.71 43.87 19.91 16.69 37.07 2.14 0.22 9.48 2.03 188.26 365.01
Overhead Expenses Custom hire Hired labor Machinery leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	0.48 15.80 0.92 31.83 8.54 7.58 5.67 29.81 16.64 6.42 123.70 311.96 241.31
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	34.83 276.14 29.39 246.74
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	4.59 7.61 5.66 6.37
Net value per unit Machinery cost per acre Est. labor hours per acre	12.39 74.00 0.97

Soybeans, Food on Cash Rent

	Avg. Of All Farms
Number of farms	11
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	450.32 40.60 100.00 12.44 505.06 18.37 27.09 550.52
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Land rent Machinery leases Utilities Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	46.33 9.85 38.41 16.66 16.35 36.34 3.61 158.07 1.48 0.33 9.56 3.42 340.39 210.13
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	16.35 0.36 5.46 5.90 4.32 1.58 17.93 5.32 57.22 397.61 152.91
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	32.91 185.83 30.45 155.38
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	8.38 9.79 7.86 8.61
Net value per unit Machinery cost per acre Est. labor hours per acre	12.44 76.61 1.04

Soybeans, Seed on Owned Land

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

Soybeans, Seed on Cash Rent

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

Sugar Beets on Owned Land, Excluding Joint Venture

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	32	6	7	7
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	141.69	144.90	168.21	87.66
	25.42	20.93	26.83	28.21
	100.00	100.00	100.00	100.00
	39.90	31.42	40.57	51.16
	1,014.29	657.52	1,088.45	1,443.31
	10.17	22.14	12.73	13.27
	28.21	22.39	31.67	24.41
	1,052.67	702.05	1,132.86	1,481.00
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Hired labor Machinery leases Hauling and trucking Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	219.89 77.07 129.90 29.05 49.43 102.66 24.96 18.15 1.73 10.14 27.07 5.57 695.64 357.03	194.68 72.83 143.31 35.88 49.76 123.36 29.69 8.73 0.79 47.06 0.42 706.49 -4.44	225.48 69.89 116.21 28.71 47.61 105.55 54.70 41.71 4.02 35.98 24.92 12.85 767.63 365.23	229.93 99.11 109.70 30.73 43.92 110.43 11.24 6.52 5.08 14.84 4.92 666.42 814.58
Overhead Expenses Custom hire Hired labor Machinery leases Building leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	0.63 59.32 6.29 3.28 27.62 14.53 11.82 6.74 65.95 94.48 10.22 300.88 996.52 56.15	1.71 35.57 18.72 0.09 30.49 15.95 5.29 4.86 59.57 85.23 3.20 260.69 967.18 -265.13	46.10 0.96 4.53 22.30 5.76 8.16 5.37 62.08 79.99 5.40 240.63 1,008.26 124.59	68.07 4.77 5.14 28.35 18.65 16.85 7.21 48.42 90.97 22.36 310.79 977.20 503.79
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	17.24	1.84	20.90	23.08
	73.39	-263.29	145.49	526.87
	89.19	71.80	97.95	136.27
	-15.80	-335.09	47.54	390.60
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	27.37	33.76	28.61	23.62
	39.20	46.21	37.58	34.63
	37.02	44.00	35.15	32.48
	40.53	47.43	38.80	37.31
Net value per unit	39.90	31.42	40.57	51.16
Machinery cost per acre	285.43	311.65	297.59	271.78
Est. labor hours per acre	4.32	2.75	4.36	6.01

Sugar Beets on Owned Land, Joint Venture

	Avg. Of All Farms
Number of farms	12
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	175.34 27.20 100.00 42.17 1,147.01 8.90 28.14 1,184.05
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Hired labor Stock/quota lease Machinery leases Hauling and trucking Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	233.99 82.89 134.86 32.38 53.52 119.38 3.79 23.01 183.93 0.11 17.80 37.64 4.28 927.58 256.47
Overhead Expenses Custom hire Hired labor Machinery leases Building leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	1.45 50.67 16.53 0.62 28.48 15.20 15.33 9.10 65.87 103.25 12.27 318.75 1,246.33 -62.28
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	21.85 -40.43 84.65 -125.08
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	34.10 45.82 43.66 46.77
Net value per unit Machinery cost per acre Est. labor hours per acre	42.17 303.92 4.68

Sugar Beets on Cash Rent, Excluding Joint Venture

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	50	10	10	10
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	262.07	312.34	205.69	204.61
	24.39	21.47	26.76	30.17
	100.00	100.00	100.00	100.00
	38.65	29.54	36.32	47.32
	942.80	634.12	971.94	1,427.60
	26.97	1.92	2.30	42.92
	28.25	21.21	22.08	24.34
	998.02	657.24	996.32	1,494.86
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Hired labor Land rent Machinery leases Hauling and trucking Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	220.38	214.00	222.89	227.30
	79.67	82.40	69.25	86.88
	118.21	122.70	134.98	110.83
	32.75	30.72	41.43	23.80
	48.84	50.83	48.92	49.96
	111.32	102.48	122.57	82.36
	10.33	11.17	6.80	2.70
	26.73	34.53	24.08	30.32
	140.31	154.48	136.18	130.29
	2.38	0.57	1.61	0.31
	22.71	29.72	24.26	10.33
	19.86	29.94	17.67	16.88
	4.78	3.22	6.17	2.26
	838.27	866.75	856.81	774.22
	159.75	-209.51	139.51	720.64
Overhead Expenses Custom hire Hired labor Machinery leases Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	2.19 72.96 13.29 1.31 15.13 11.54 7.76 9.75 75.74 11.72 221.38 1,059.65 -61.63	95.14 16.23 2.32 10.95 6.73 4.77 7.09 69.43 9.01 221.67 1,088.42 -431.17	10.04 57.77 6.97 0.36 11.69 14.52 5.17 8.27 84.03 23.26 222.09 1,078.90 -82.58	88.42 17.80 3.27 18.88 15.82 16.88 17.87 91.16 13.75 283.86 1,058.08 436.78
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	18.47	10.43	19.92	32.53
	-43.16	-420.74	-62.67	469.31
	98.87	72.09	111.61	121.66
	-142.02	-492.83	-174.27	347.64
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	34.36	40.37	32.02	25.66
	43.44	50.70	40.32	35.07
	40.42	49.14	38.66	31.76
	44.47	52.49	42.83	35.79
Net value per unit	38.65	29.54	36.32	47.32
Machinery cost per acre	266.60	246.71	281.28	256.74
Est. labor hours per acre	5.43	6.63	5.23	5.76

Sugar Beets on Cash Rent, Joint Venture

	Avq. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	39	7	8	8
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	310.30	419.40	226.66	233.60
	26.63	25.36	25.91	29.22
	100.00	100.00	100.00	100.00
	41.35	39.32	41.40	50.50
	1,101.15	997.06	1,072.50	1,475.49
	30.25	32.15	19.65	23.75
	26.45	26.70	17.98	27.41
	1,157.85	1,055.91	1,110.13	1,526.65
Direct Expenses Seed and plants Fertilizer Crop chemicals Cover crop expense Crop insurance Fuel & oil Repairs Custom hire Hired labor Land rent Stock/quota lease Machinery leases Hauling and trucking Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	229.08 81.02 124.31 0.13 30.54 45.65 95.20 19.73 25.95 147.55 192.15 1.82 27.48 30.55 4.78 1,055.92 101.93	234.11 72.03 126.70 - 31.05 46.06 91.43 51.09 36.47 172.60 227.12 6.34 57.51 40.30 10.13 1,202.95 -147.03	230.45 100.80 117.45 22.61 50.67 84.62 23.68 14.88 136.12 186.47 0.10 8.69 26.71 2.00 1,005.23 104.90	227.53 86.10 97.85 0.86 28.84 43.52 87.22 2.37 21.48 105.32 278.51 1.04 39.69 15.34 2.39 1,038.07 488.59
Overhead Expenses Hired labor Machinery leases Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	56.87	31.04	54.80	78.46
	14.27	8.62	5.69	6.22
	2.24	1.92	1.58	0.86
	12.04	6.60	14.63	15.53
	12.19	7.20	9.01	20.34
	8.83	5.73	10.00	14.22
	10.09	13.46	9.30	6.49
	65.21	60.82	88.18	76.26
	9.79	11.47	4.33	6.14
	191.53	146.84	197.52	224.53
	1,247.45	1,349.79	1,202.75	1,262.59
	-89.60	-293.88	-92.62	264.06
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	19.45	16.49	19.01	21.26
	-70.15	-277.39	-73.60	285.32
	93.74	89.64	96.74	123.23
	-163.89	-367.03	-170.34	162.09
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	39.65	47.44	38.80	35.53
	46.84	53.23	46.43	43.21
	43.98	50.26	44.24	40.74
	47.50	53.79	47.97	44.95
Net value per unit	41.35	39.32	41.40	50.50
Machinery cost per acre	245.48	271.55	253.22	211.84
Est. labor hours per acre	4.20	3.58	4.18	4.97

Sunflowers on Cash Rent

	Ava. Of All Farms
Number of farms	11
Acres Yield per acre (cwt.) Operators share of yield % Value per cwt. Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	206.89 19.03 100.00 19.85 377.75 13.63 24.89 416.27
Seed and plants Fertilizer Crop chemicals Cover crop expense 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	41.49 44.56 25.71 3.12 15.69 1.18 14.35 35.32 20.80 2.54 106.43 6.92 1.69 319.80 96.46
Overhead Expenses Custom hire Hired labor Machinery leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	0.20 8.56 2.00 7.26 8.68 5.27 4.70 32.77 4.71 74.15 393.96 22.31
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	23.59 45.90 39.36 6.54
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	16.81 20.71 17.44 19.51
Net value per unit Machinery cost per acre Est. labor hours per acre	19.85 108.12 1.95

Wheat, Spring on Owned Land

	Avq. Of _All Farms	Low 20%	40 - 60%	_High 20%
Number of farms	60	12	12	12
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Hedging gains/losses per acre Crop insurance per acre Other crop income per acre Gross return per acre	262.94	261.11	243.81	305.25
	63.04	58.73	60.20	73.53
	100.00	100.00	100.00	100.00
	5.54	5.29	5.58	5.67
	349.35	310.89	336.20	417.17
	-0.42	-	-	-1.81
	11.28	2.68	8.30	10.48
	34.59	25.01	37.67	40.86
	394.79	338.57	382.17	466.70
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drying expense Fuel & oil Repairs Custom hire Hired labor Machinery leases Marketing Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	23.87 80.68 31.71 15.29 0.49 13.20 26.70 9.69 0.26 0.74 1.82 6.55 2.71 213.73 181.06	24.62 83.16 31.66 13.87 0.11 13.16 33.57 20.98 - 2.81 3.75 8.98 7.03 243.71 94.87	23.54 84.26 32.43 18.53 0.52 12.61 25.06 2.57 - 7.36 2.06 208.93 173.24	23.68 71.26 32.27 14.97 0.16 13.98 26.33 2.73 1.14 0.06 5.71 1.36 193.65 273.05
Overhead Expenses Hired labor Machinery leases Building leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	17.14	17.86	23.18	15.62
	2.76	1.96	2.62	6.68
	1.19	1.83	2.29	1.08
	21.44	19.99	19.90	27.85
	7.56	8.98	6.62	6.82
	5.17	7.27	3.51	3.93
	4.64	4.79	3.62	3.61
	40.21	40.03	33.22	62.90
	27.10	31.06	21.98	22.16
	4.64	4.21	4.78	2.74
	131.86	137.98	121.72	153.39
	345.59	381.68	330.65	347.03
	49.21	-43.11	51.52	119.67
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	28.88	26.00	28.62	35.36
	78.09	-17.11	80.14	155.03
	29.59	41.75	19.13	21.82
	48.50	-58.86	61.01	133.21
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	3.39	4.15	3.47	2.63
	5.48	6.50	5.49	4.72
	4.30	5.59	4.25	3.57
	4.77	6.30	4.57	3.86
Net value per unit	5.54	5.29	5.58	5.65
Machinery cost per acre	80.17	101.59	65.31	73.19
Est. labor hours per acre	1.60	2.01	1.39	1.53

Wheat, Spring on Cash Rent

	Ava. Of _All Farms	Low 20%	40 - 60%	_High 20%
Number of farms	108	21	21	22
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Hedging gains/losses per acre Crop insurance per acre Other crop income per acre Gross return per acre	484.07 60.14 100.00 5.57 335.10 0.05 16.72 34.71 386.58	371.97 50.52 100.00 5.31 268.41 -1.01 19.11 27.13 313.64	371.00 59.35 100.00 5.47 324.40 5.93 38.77 369.11	579.80 66.22 100.00 5.77 381.88 24.32 38.78 444.98
Direct Expenses Seed and plants Fertilizer Crop chemicals Cover crop expense Crop insurance Drving expense Fuel & oil Repairs Custom hire Hired labor Land rent Machinery leases Marketing Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	23.62 81.01 32.51 0.20 14.11 0.60 12.96 27.17 6.54 0.13 125.88 1.28 0.35 6.62 3.43 336.41 50.17	22.53 81.90 28.28 0.96 16.17 0.48 12.64 31.20 8.94 0.10 146.07 3.32 0.50 10.59 4.33 368.02 -54.39	25.13 80.59 32.62 10.95 0.19 12.74 21.99 4.91 0.55 121.79 1.26 0.25 8.56 1.52 323.05 46.05	21.01 74.89 30.93 11.98 0.96 14.76 29.38 4.31 0.09 115.12 0.30 4.30 3.31 311.33 133.65
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	15.42	12.36	12.62	17.64
	3.63	0.76	2.26	2.11
	0.97	0.83	2.02	0.38
	7.15	7.56	6.07	6.55
	4.30	4.41	3.49	4.19
	4.00	4.91	4.23	4.17
	3.22	4.34	2.12	2.18
	22.63	23.88	18.01	26.72
	3.29	3.34	3.09	3.34
	64.61	62.39	53.91	67.28
	401.03	430.41	376.97	378.62
	-14.45	-116.78	-7.86	66.36
Government payments	28.88	28.50	25.10	36.91
Net return with govt pmts	14.43	-88.27	17.24	103.28
Labor & management charge	28.48	27.02	26.88	30.01
Net return over lbr & mgt	-14.05	-115.29	-9.64	73.27
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	5.59	7.29	5.44	4.70
	6.67	8.52	6.35	5.72
	5.33	7.06	5.18	4.21
	5.81	7.60	5.63	4.66
Net value per unit	5.57	5.29	5.47	5.77
Machinery cost per acre	75.34	81.88	60.95	77.16
Est. labor hours per acre	1.38	1.41	1.23	1.57

Farm Finance Scorecard

Year _____

Liquidity Vulnerable Strong 1.3 2.0 1. Current ratio \$ 2. Working capital 10% 30% % 3. Working capital to gross revenues Solvency 60% 30% % 4. Farm debt-to-asset ratio 40% 70% 5. Farm equity-to-asset ratio 0.43 1.5 6. Farm debt-to-equity ratio **Profitability** 7. Net farm income 4% 8% % 8. Rate of return on farm assets 3% 10% % 9. Rate of return on farm equity 15% 25% % 10. Operating profit margin 11. EBITDA Repayment capacity 12. Capital debt repayment capacity 13. Capital debt repayment margin 14. Replacement margin 15. Term-debt coverage ratio 1.50 16. Replacement margin coverage ratio ___ · _ Financial efficiency 30% 45% 17. Asset-turnover rate 80% 60% 18. Operating-expense ratio % 19. Depreciation-expense ratio

%

%

20. Interest-expense ratio

21. Net farm income ratio

10%

5%

20%