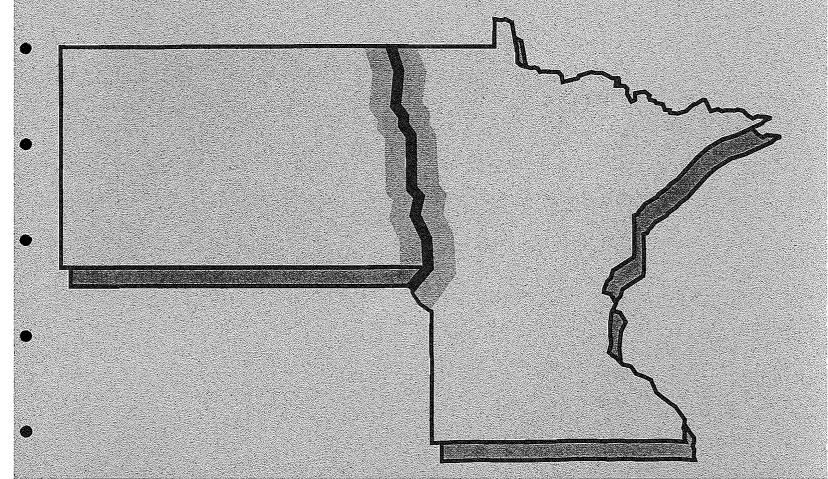
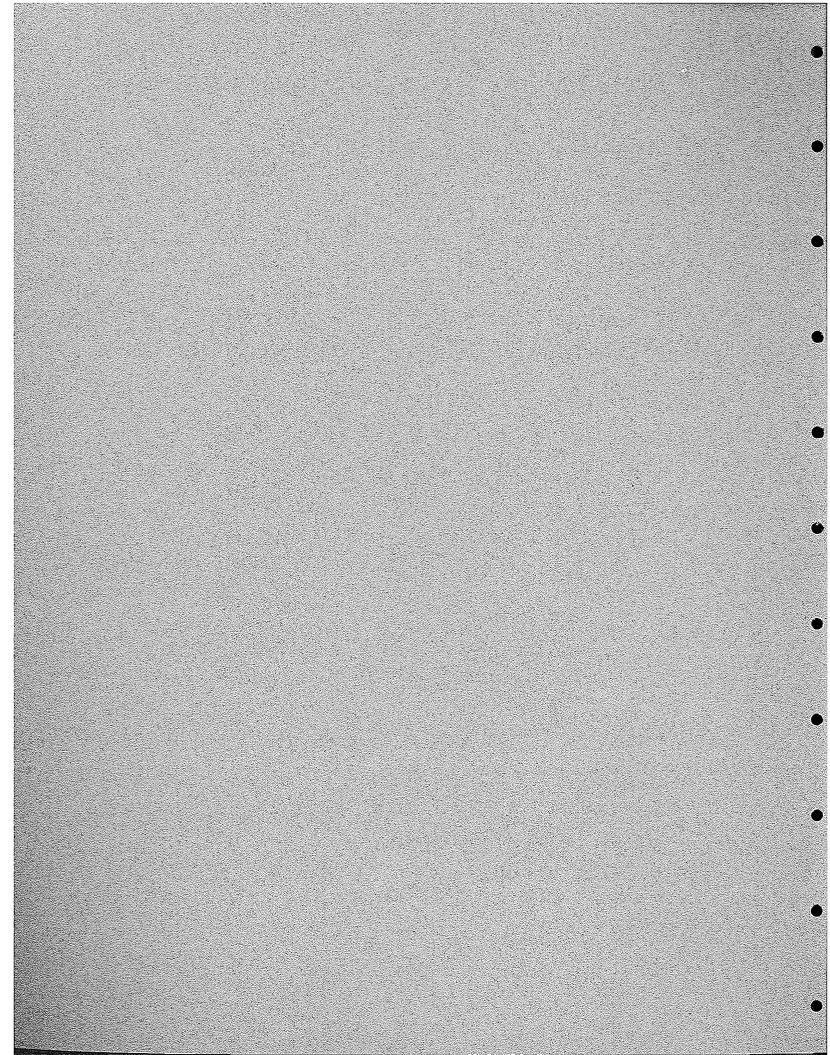
North Dakota Farm and Ranch Business Management Education



Minnesota
Farm Business
Management
Education

2000 Red River Valley Report





ND STATE BOARD FOR VOCATIONAL & TECHNICAL EDUCATION BOARD MEMBERS

Dr. Charles Brickner, Chairperson Carrington Mr. Darrel Remington, Vice Chair Belfield Ms. Maren Daley Bismarck Mr. Robert Geske Enderlin Bismarck Mr. Larry Isaak Mr. Michael Ness Bottineau Dr. Wayne Sanstead Bismarck Ms. Susan Stibbe Hunter Ms. Rita Wilhelmi Stanley

MINNESOTA STATE COLLEGES & UNIVERSITIES BOARD OF TRUSTEES

Honorable Will Antell	Bayport
Honorable Andrew Boss	Saint Paul
Honorable Nancy Brataas	Rochester
Honorable Brent Calhoun	Little Falls
Honorable Mary Choate	Bloomington
Honorable Daniel G. Coborn	Saint Cloud
Honorable Dennis Dotson	Mankato
Honorable Ivan F. Dusek	Willmar
Honorable Robert Erickson	Bloomington
Honorable Robert H. Hoffman	Waseca
Honorable Jim Luoma	Cohasset
Honorable Lew Moran	Minneapolis
Honorable Joann Splonskowski	Rochert
Honorable Joseph Swanson	Two Harbors
Honorable Michael Vekich	Saint Louis Park

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

RED RIVER VALLEY AVERAGES 2000 ANNUAL REPORT

ACKNOWLEDGMENTS

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

North Dakota	Instructor
Kindred High School	0
<u>Minnesota</u>	
NCTC-Barnesville	
NCTC-Fergus Falls	Rudy Hasbargen
	Chad Anvinson
NCTC-Hallock	
NCTC-Hawley	
NCTC-Mahnomen/Ulen	Mike Lockhart
NCTC-Moorhead	Rick Morgan
	Greg Tullis
NCTC-Red Lake Falls	0
NCTC-Thief River Falls	
INOTO THIS HIVE FAIRS . , , , , , , , , , , , , , , , , , ,	Danie Packard

This report was made possible by the farm families who cooperated with their farm management instructors in getting the farm records for 2000 closed out on a timely basis. The farm management instructors cited above generated Finpack year-end farm analyses for 2000. Andrew Swenson, NDSU Extension Service, databased the Finpack analyses of farms geographically located within the Red River Valley and generated the comparative tables for this report.

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

2000 Red River Valley Report Minnesota and North Dakota Farm Business Management Education

TABLE OF CONTENTS

Introduction
Explanatory Notes for the Farm Operators' Reports
Financial Guideline Measures
Five-Year Trend of Financial Measures 10
Table 1 - Farm Income Statement
Table 2 - Inventory Changes
Table 3 - Depreciation and Other Capital Adjustments
Table 4 - Profitability Measures
Table 5 - Liquidity Measures
Table 6 - Balance Sheet at Cost Values
Table 7 - Balance Sheet at Market Values 18
Table 8 - Statement of Cash Flows
Table 9 - Financial Standards Measures
Table 10 - Crop Production and Marketing Summary
Table 11 - Household and Personal Expenses
Table 12 - Nonfarm Income, Operator and Labor Information
Explanatory Notes for Crop Tables
Five Year Crop History of Yields and Cost of Production
Table 13 - 1 - Barley on Owned Land
Table 13 - 2 - Barley on Cash Rented Land
Table 13 - 3 - Navy Beans on Owned Land
Table 13 - 4 - Navy Beans on Cash Rented Land
Table 13 - 4 - Navy Beans on Cash Rented Land
Table 13 - 6 - Pinto Beans on Cash Rented Land
Table 13 - 7 - Canola on Cash Rented Land
Table 13 - 8 - Corn on Owned Land 33
Table 13 - 9 - Corn on Cash Rented Land
Table 13 - 10 - Corn on Share Rented Land
Table 13 - 11 - Alfalfa Hay on Owned Land
Table 13 - 12 - Alfalfa Hay on Cash Rented Land
Table 13 - 13 - Soybeans on Owned Land
Table 13 - 14 - Soybeans on Cash Rented Land 39
Table 13 - 15 - Soybeans on Share Rented Land
Table 13 - 16 - Sugar Beets on Owned Land, Excluding Joint Venture 4
Table 13 - 17 - Sugar Beets on Owned Land, Joint Venture
Table 13 - 18 - Sugar Beets on Cash Rented Land, Excluding Joint Venture
Table 13 - 19 - Sugar Beets on Cash Rented Land, Joint Venture
Table 13 - 20 - Sunflowers on Owned Land
Table 13 - 21 - Sunflowers on Cash Rented Land
Table 13 - 22 - Confectionery Sunflowers on Cash Rented Land 4
Table 13 - 23 - Spring Wheat on Owned Land 4
Table 13 - 24 - Spring Wheat on Cash Rented Land 4
Table 13 - 25 - Spring Wheat on Share Rented Land
Table 13 - 26 - CRP on Owned Land

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 three major categories. Explanatory notes precede the farm operators' reports and the crop reports. Tables 1 through 12 present whole farm information. The table 13 series provide performance information on crop enterprises.

The 2000 Red River Valley Report is based upon data generated by the Finan individual farm analysis completed by farm/ranch families enrolled in the Farm and Ranch Business Management Education programs in Minnesota and North Dakota. The FINPACK computer program, used for data processing, is a copyrighted software program from the Center for Farm Financial Management at the University of Minnesota in Saint Paul.

You may contact Robert E. Bollesen, Northland Technical College, Highway 1 East, Thief River Falls, MN 56701, 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. A state average book which includes all North Dakota farms excluding the Red River Valley is also available.

EXPLANATORY NOTES FOR THE FARM OPERATORS' REPORTS

Tables 1 through 5 and 8 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. Table 6 and 7, the Comparative Financial Statement, on cost and market basis, respectively, includes 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 tables.

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

Tables 1. Detailed 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 Table 1 lists cash farm income from all sources. There are three possible sources of cash income from crops. The first is income from cash sales. The second is income from crops stored under government loan programs when the loan is treated as income for the year in which the crop was stored. If the crop value has not been entered as income when it was stored, then it would be treated as cash income in the year it was sold. The third is Net Government Sales, which refers to the difference between income credited in the year a crop was stored and the actual cash income received at the time it was sold. There are two categories of cash income from livestock sales. "Raised" steer, hogs, and lambs refer to animals raised from birth to market weight on the farm. "Finished" animals refers to those purchased as feeders and fed to market weight. "Government transition payments" are the Agricultural Market Transition Act (AMTA), Market Loss Assistance (MLA) and oilseed program payments. "Other government payments" refers to all other government payments such as loan deficiency and disaster payments but not including CRP payments.

The second section of Table 1 lists <u>cash</u> expenses. "Labor" includes only labor hired. "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 Expenses" is the "Net Cash Farm Income." This is net farm income on a <u>cash</u> basis.

The last two sections of Table 1 deal with the non-cash changes in the farm business. The "Inventory Changes" and "Depreciation and Other Capital Adjustments" 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 bottom line, labeled "Net farm Income," represents the return to the operator's and family's unpaid labor, management, and equity capital (net worth). In other words, it represents the return to all of the resources which are owned by the farm family and hence, not purchased or paid a wage. However, it does not include any debt forgiveness or asset repossessions.

(

(

Table 2. Inventory Changes

This is the detailed statement of inventory changes which is summarized in Table 1. It includes beginning and ending inventories and the calculated changes.

Table 3. Depreciation and Other Capital Adjustments

This is the detailed statement of depreciation and other capital adjustments which is summarized in Table 1. It includes beginning and ending inventories, sales, purchases, and depreciation.

<u>Table 4. Profitability Measures</u>

Two sections on profitability are provided. The first section shows profitability when capital assets are valued at cost. Capital assets are valued at market in the second section. Therefore net farm income includes the change in market value of capital assets that occurred during the year.

Various measures of performance are calculated for the farms in this report. In Tables 1through 3, no opportunity costs are used. In Table 4, opportunity costs for labor, capital, management <u>are</u> used. The measures and their components are described below.

"Labor and management earnings" equals "Net farm income" from Table 1 minus an opportunity interest cost of 6% an average farm net worth.

"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."

"Interest on farm net worth" is the "Average farm equity" multiplied by a 6% opportunity interest cost charge.

"Farm interest expense" is the accrual interest cost, usually it will be different from the cash interest expense shown on Table 1.

"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 \$12,000 per full time operator plus 5% of value of farm production.

"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.

Table 5. Liquidity Measures

Liquidity: Cash Basis

- "Family living and taxes" is calculated cash family living plus income and social security taxes.
- "Cash available for intermediate debt" on the cash basis is the sum of "Net cash farm income" and "Net nonfarm income" minus "Family living and taxes" and "Real estate principal payments."
- "Average intermediate debt" is the average of beginning and ending intermediate farm liabilities.
- "Years to turn over debt" is "Average intermediate debt" divided by "Cash available for intermediate debt." If the cash-based or accrual-based "Cash available for intermediate debt" is a negative number, debt repayment is not possible because of negative cash flow on a cash or accrual basis, respectively, and "Years to turn over intermediate debt" cannot be calculated.

Cash "Expense as a percent of income" is "Total cash expense" divided by "Gross cash farm income."

"Interest as a percent of income" is "Interest paid" divided by "Gross cash farm income"

Liquidity: Accrual Basis

"Available for intermediate debt" on the accrual basis is "Net accrual operating income" plus "Net nonfarm income" minus "Family living and taxes" and "Real estate principal payments."

Accrual "Expense as a percent of income" is "Total cash expense" adjusted by inventory changes in accounts payable, accrued expense items, prepaid expenses and growing crops divided by "Gross farm income." "Gross farm revenue" is "Gross cash farm income" adjusted by changes in inventories of crops and feed, feeder livestock and accounts receivable.

"Interest as a percent of income" is "Interest paid" adjusted by changes in accrued interest for the year, divided by "Gross farm revenue."

Tables 6 and 7. Balance Sheet

The beginning and ending net worth statements and solvency measures are presented for sole proprietors only in Tables 6 and 7. Current assets are valued at market price at the time of the inventory which is January 1, and December 31, for the beginning and ending inventories respectively. In Table 6, 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 Table 7, the intermediate and long term assets are listed at market value, and deferred income tax liabilities are estimated.

Table 8. Statement of Cash Flows

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

Table 9. Financial Standards Measures

This table contains the 16 measures of financial performance recommended by the Farm Financial Standards Task Force (FFSTF). The Finpack financial management program used by the North Dakota Farm Business Education in most part, but not completely, complies with the FFSTF recommendations for calculating the financial guidelines measures. The measures are calculated on an accrual basis.

Liquidity

"Current ratio" is "Total current farm assets" divided by "Total current farm liabilities."

"Working capital" is "Total current farm assets" less "Total current farm liabilities."

Solvency

"Farm debt to asset ratio" is "Total farm liabilities" divided by "Total farm assets."

"Farm equity to asset ratio" is "Total farm assets" minus "Total farm liabilities," divided by "Total farm assets."

"Farm debt to equity ratio" is "Total farm liabilities," divided by the result of "Total farm assets" minus "Total farm liabilities."

Profitability

"Rate of return on farm assets" is "Net farm income" plus "interest expense" minus "Value of operator's labor and management," divided by the average of beginning and ending "Total farm assets."

"Rate of return on farm equity" is "Net farm income" minus "Value of operator's labor and management," divided by the average of beginning and ending farm net worth.

"Operating profit margin" is "Net farm income" plus "interest expense" minus "Value of operator's labor and management," divided by "Value of farm production."

Repayment Capacity

"Term debt coverage ratio" is "Net farm income" plus "depreciation and other capital adjustments" plus "Net nonfarm income" plus scheduled interest on term debt minus "Family living and taxes," divided by scheduled term debt principal and interest payments.

"Capital replacement margin" is "Net farm income" plus "Depreciation and other capital adjustments" plus "Net nonfarm income" minus "Family living and taxes" and scheduled term debt principal payments.

Efficiency

"Asset turnover rate" is "Value of farm production" divided by the average of beginning and ending "Total farm assets."

- "Operating expense ratio" is total expense less "Farm interest expense" and "Depreciation and capital adjustment," divided by "Gross farm revenue."
- "Depreciation expense ratio" is "Depreciation and capital adjustments" divided by "Gross farm revenue."
- "Interest expense ratio" is "Farm interest expense" divided by "Gross farm revenue"
- "Net farm income ratio" is "Net farm income" divided by "Gross farm revenue."

Table 10. Crop Production and Marketing Summary

This table contains three sections. The first section reports average acreage by land use. 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."

Table 11. Household and Personal Expenses

For those farms that keep records, the household and personal expenses are summarized in Table 11. The farms are grouped in the same ranking as in Table 1. Not all farms keep these records, therefore, the numbers may be different for each group. Averages are determined by the number of farms keeping these records. Table 8 presents calculated family living and includes all farms. Income tax paid is also shown on Table 8 and includes all farms.

Table 12. Operator Information, Nonfarm Summary

Table 12 reports the average for the number of operators per farm, the operator's age, and the number of years farming. This table also reports the income from nonfarm income, but the figure reported is the average over all farms not just those reporting nonfarm income.

Financial Guideline Measures

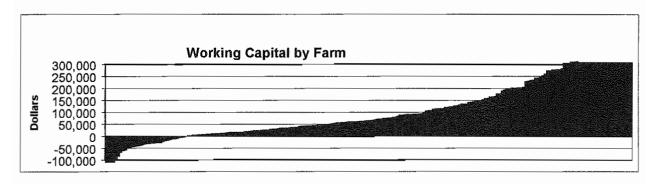
The Farm Financial Standards Task Force recommended the use of sixteen financial measures to evaluate a farms financial position and financial performance. These measures are grouped by Liquidity, Solvency, Profitability, Repayment Capacity and Efficiency.

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.

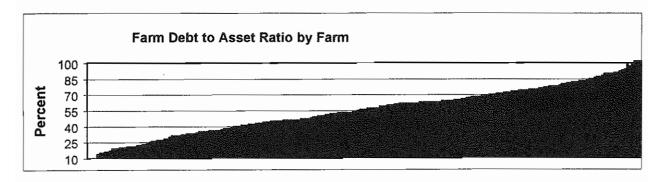
Working Capital: Working capital shows the dollar amount that current assets can or cannot cover current liabilities. It approximates the amount of capital available to purchase crop and livestock inputs and equipment necessary to produce farm products. The amount of working capital considered adequate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



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.



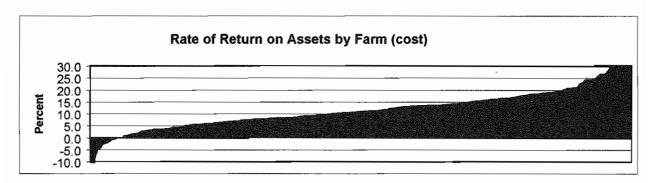
Farm Equity To Asset Ratio: The farm equity to asset ratio measures the farm equity relative to the value of the farm assets. It measures the proportion of the farm assets financed by the owner's equity whereas the debt to asset ratio measured the proportion of farm assets financed by debt.

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 the farm has.

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.

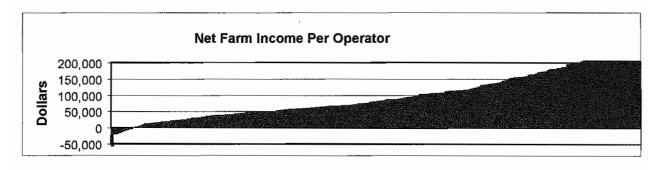
Rate of Return on Assets: Rate of return on assets is, in effect, the interest rate your farm earned in the past year on all money invested in the business. If assets are valued at market value, the rate of return on investment can be looked at as the "opportunity cost" of investing money in the farm 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 it's interest cost. This is negative financial leverage. As your debt to asset ratio increases, these relationships become more pronounced. So profitability becomes a key concern when substantial debt capital is used in the business.

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.



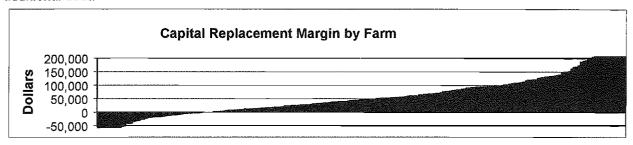
Operating Profit Margin: The operating profit margin is a measure of the profit margin from the employment of assets. It measures how effectively you are employing assets relative to the value of output produced. Low prices, high operating expenses, or production problems are all possible causes of a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

Repayment Capacity

Repayment capacity measures the ability to repay term debt (longer than one year) and to replace capital assets.

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.

Capital Replacement Margin: The capital replacement margin is the amount of money remaining from farm and non-farm income after all operating expenses, taxes, family living and debt payments have been paid. It is the amount available for acquiring capital assets, such as machinery and land, or servicing additional debt.

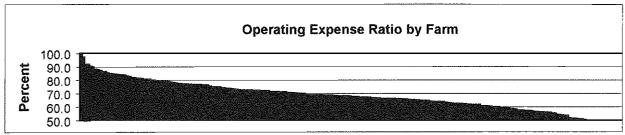


Efficiency

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.

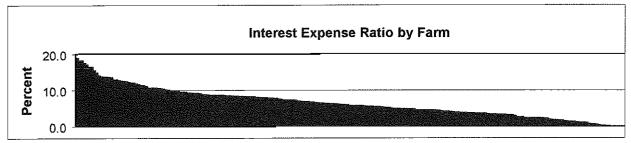
Asset Turnover: Asset turnover is a measure of how efficiently assets are used in the business. A farm with good operating profit margin and asset turnover will show a strong rate of return on farm assets. If operating profit margin is low, the asset turnover rate must be strong, or vice versa, to maintain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



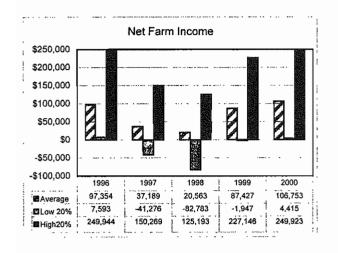
Depreciation Expense Ratio: This ratio indicates the percent of the gross farm income which is used to cover the depreciation expense.

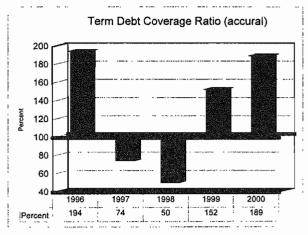
Interest Expense Ratio: This ratio indicates the percent of the gross farm income which is used to pay farm interest expenses.



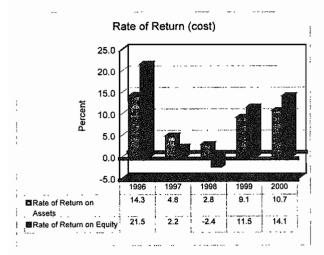
Net Farm Income Ratio: The ratio indicates the percent of the gross farm income which remains after all expenses.

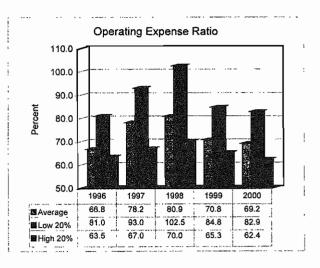
Five Year Trends Red River Valley Farm Business Management Education

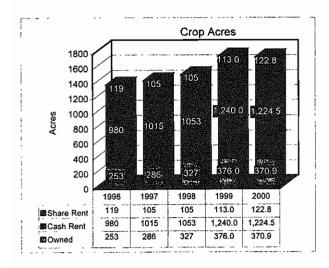


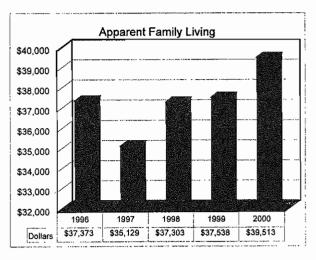


(









FARM INCOME STATEMENT, 2000

Minnesota and North Dakota Farm Business Mgmt Education Red River Valley (Farms Sorted By Net Farm Income)

	Avg. Of		
	All Farms	Low 20%	High 20%
Number of farms	226	45	46
CASH FARM INCOME			
Barley	3,286	1,859	9,202
Beans, Black Turtle	124	129	482
Beans, Navy	3,227	1,127	3,644
Beans, Pinto	2,155	497	869
Canola	1,599	-	2,602
Corn	24,882	29,291	40,298
Hay, Alfalfa	803	825	-
Potatoes	1,324	-	3,339
Potatoes, Seed	490	-	-
Soybeans	69,071	65,021	88,304
Straw	619	86	-
Sugar Beets	117,685	37,907	213,635
Sunflowers	2,431	1,067	2,305
Sunflowers, Confectionary	2,008	510	1,624
Wheat, Durum	642	-	2,403
Wheat, Spring	78,032	41,997	120,748
Wheat, Winter	1,435	1	5,737
Other crops	801	-	983
Miscellaneous crop income	106	43	49
Beef Calves	138	172	-
Background Beef	456	1,234	1,031
Finish Beef Calves	1,244	~	5,928
Finish Yrlg Steers	298	••	_
Dairy, Milk	719	3,610	
Dairy Heifers	106	530	~
Hogs, Farrow to Finish	2,267	11,385	_
Hogs, Weaning to Finish	3,805		18,695
Cull breeding livestock	240	982	217
Misc. livestock income	90	21	45
Gov't transition payments	53,571	42,294	75,164
CRP payments	1,020	346	1,176
Other government payments	48,759	25,337	74,027
Custom work income	5,032	819	5,189
Patronage dividends, cash	4,304	2,211	9,487
Insurance income	28,354	13,457	58,632
Cash from hedging accts	482	-	1,189
Other farm income	13,630	5,330	19,143
Gross Cash Farm Income	475,233	288,089	766,145

TABLE 1 FARM INCOME STATEMENT, 2000 (Continued) Minnesota and North Dakota Farm Business Mgmt Education Red River Valley (Farms Sorted By Net Farm Income)

	Avg. Of		
	All Farms	Low 20%	High 20%
Number of farms	226	45	46
CASH FARM EXPENSE			
Seed	28,065	17,846	43,443
Fertilizer	37,662	26,644	56,374
Crop chemicals	55,696	30,008	91,026
Crop insurance	13,678	8,841	20,030
Drying fuel	639	302	1,110
Crop marketing	7,330	2,894	12,942
Crop miscellaneous	19,267	8,840	34,109
Feeder livestock purchase	2,498	801	10,352
Purchased feed	2,845	5,087	8,325
Breeding fees	24	122	-
Veterinary	158	241	520
Livestock expenses	255	1,085	131
Interest	32,725	20,152	44,931
Fuel & oil	19,159	11,806	29,122
Repairs	30,463	21,739	39,844
Custom hire	12,096	7,248	15,339
Hired labor	17,492	11,576	31,581
Land rent	82,148	52,608	118,717
Machinery & bldg leases	8,613	4,848	11,872
Real estate taxes	4,094	2,837	6,614
Farm insurance	6,140	4,577	8,747
Utilities	4,090	3,767	5,605
Dues & professional fees	3,389	2,488	5,225
Hedging account deposits	1,490	33	2,699
Miscellaneous	9,591	6,957	9,746
Total cash expense	399,610	253,345	608,406
Net cash farm income	75,623	34,745	157,740
INVENTORY CHANGES			
Crops and feed	30,195	-1,698	64,860
Market livestock	556	-333	1,498
Accounts receivable	12,954	-2,891	31,066
Prepaid expenses and supplies	7,002	80	18,823
Accounts payable	1,036	-6,635	
Total inventory change	51,743	-11,478	122,260
Net operating profit	127,366	23,266	280,000
DEPRECIATION AND OTHER CAPITAL ADJU	JSTMENTS		
Breeding livestock	-50	-81	-67
Machinery and equipment	-22,249	-12,659	-34,179
Buildings and improvements	-1,010	-1,923	-1,557
Other farm capital	2,696	-4,188	5,727
Total depr. and other capital adj	-20,613	-18,852	-30,077
Net farm income	106,753	4,415	249,923

TABLE 2 INVENTORY CHANGES, 2000 Minnesota and North Dakota Farm Business Mgmt Education Red River Valley (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	High 20%
Number of farms	226	45	46
Net cash farm income	75,623	34,745	157,740
CROPS AND FEED			
Ending inventory	187,823	93,776	331,232
Beginning inventory	158,471	95,474	266,372
Inventory change	30,195	-1,698	64,860
MARKET LIVESTOCK			
Ending inventory	4,029	4,937	11,912
Beginning inventory	3,473	5,270	10,414
Inventory change	556	-333	1,498
ACCTS RECEIVABLE & OTHER CURRENT	ASSETS		
Ending inventory	50,214	25,699	89,851
Beginning inventory	37,261	28,590	58,785
Inventory change	12,954	-2,891	31,066
PREPAID EXPENSES AND SUPPLIES			
Ending inventory	32,654	13,193	65,624
Beginning inventory	25,652	13,114	46,800
Inventory change	7,002	80	18,823
ACCOUNTS PAYABLE & ACCRUED EXPENS	ES		
Beginning inventory	27,006	13,671	42,235
Ending inventory	25,965	20,306	36,223
Inventory change	1,036	-6,635	6,013
Total inventory change	51,743	-11,478	122,260
Net operating profit	127,366	23,266	280,000

TABLE 3 DEPRECIATION AND OTHER CAPITAL ADJUSTMENTS, 2000 Minnesota and North Dakota Farm Business Mgmt Education Red River Valley (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	High 20%
Number of farms	226	45	46
Net operating profit	127,366	23,266	280,000
BREEDING LIVESTOCK			
Ending inventory	1,547	4,947	1,734
Capital sales	-	-	_
Beginning inventory	1,488	4,664	1,651
Capital purchases	108	363	150
Depreciation, capital adjust.	-50	-81	-67
MACHINERY AND EQUIPMENT			
Ending inventory	216,797	160,742	314,830
Capital sales	3,173	2,585	3,822
Beginning inventory	203,796	153,505	302,261
Capital purchases	38,422	22,482	50,570
Depreciation, capital adjust.	-22,249	-12,659	-34,179
BUILDINGS AND IMPROVEMENTS			
Ending inventory	41,339	66,141	55,904 ⁻
Capital sales	,	-	_
Beginning inventory	38,229	56,493	54,604
Capital purchases	4,119	11,572	2,856
Depreciation, capital adjust.	-1,010	-1,923	-1,557
OTHER CAPITAL ASSETS			
Ending inventory	174,129	53,843	324,803
Capital sales	3,480	441	8,646
Beginning inventory	172,512	57,503	322,556
Capital purchases	2,401	968	5,165
Depreciation, capital adjust.	2,696	-4,188	5,727
Total depreciation, capital adj.	-20,613	-18,852	-30,077
Net farm income	106,753	4,415	249,923

TABLE 4

PROFITABILITY MEASURES, 2000

Minnesota and North Dakota Farm Business Mgmt Education
Red River Valley

(Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	High 20%
	TILL LOUND	104 200	111911 200
Number of farms	225	44	46
Profitability (assets valued at co	st)		
Net farm income	107,721	7,038	249,923
Labor and management earnings	76,529	-11,173	189,864
Rate of return on assets	10.7 %	1.6 %	14.5 %
Rate of return on equity	14.1 %	-5.0 %	19.8 %
Operating profit margin	20.6 %	3.8 %	28.7 %
Asset turnover rate	52.2 %	42.3 %	50.5 %
Interest on farm net worth	31,192	18,211	60,058
Farm interest expense	32,730	25,444	44,607
Value of operator lbr and mgmt.	34,683	21,983	52,334
Return on farm assets	105,768	10,499	242,196
Average farm assets	984,706	647,422	1,673,916
Return on farm equity	73,038	-14,945	197,589
Average farm equity	517,015	299,549	997,586
Value of farm production	513,981	274,054	844,825
	Avg. Of		
	All Farms	Low 20%	High 20%
Number of farms	226	45	46
Profitability (assets valued at ma	rket)		
Net farm income	62,950	13,013	149,122
Labor and management earnings	. 29,299	-6,768	84,930
Rate of return on assets	5.3 %	2.2 %	7.2 %
Rate of return on equity	5.0 %	-2.9 %	9.1 %
Operating profit margin	11.9 %	5.7 %	16.7 %
Asset turnover rate	44.7 %	37.7 %	42.7 %
Interest on farm net worth	33,651	19,781	64,192
Farm interest expense	32,667	25,287	44,607
Value of operator lbr and mgmt.	34,710	22,401	52,334
Return on farm assets	60,906	15,899	141,395
Average farm assets	1,147,620	736,012	1,976,377
Return on farm equity	28,240	-9,388	96,788
Average farm equity	559,684	327,975	1,069,429
Value of farm production	513,545	277,197	844,825

TABLE 5
LIQUIDITY MEASURES, 2000
Minnesota and North Dakota Farm Business Mgmt Education
Red River Valley
(Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	High 20%
Number of farms	226	45	46
Liquidity (cash) Net cash farm income Net nonfarm income Family living and taxes Real estate principal payments Cash available for interm. debt	75,623	34,745	157,740
	14,328	16,437	8,314
	48,797	36,920	70,313
	9,947	11,442	13,125
	31,207	2,819	82,615
Average intermediate debt Years to turnover interm. debt Expense as a % of income Interest as a % of income	156,547	99,595	202,224
	5.0	35.3	2.4
	84 %	88 %	79 %
	7 %	7 %	6 %
Liquidity (accrual) Total accrual farm income Total accrual operating expense Net accrual operating income Net nonfarm income Family living and taxes Real estate principal payments Available for intermediate debt Average intermediate debt	518,938	283,166	863,569
	391,572	259,900	583,570
	127,366	23,266	280,000
	14,328	16,437	8,314
	48,797	36,920	70,313
	9,947	11,442	13,125
	82,950	-8,659	204,875
	156,547	99,595	202,224
Years to turnover interm. debt Expense as a % of income Interest as a % of income	1.9 75 % 6 %	** 92	1.0 68 % 5 %

^{**} Income insufficient to meet debt servicing requirements

TABLE 6 BALANCE SHEET AT COST VALUES, 2000 Minnesota and North Dakota Farm Business Mgmt Education Red River Valley (Farms Sorted By Not Farm Income)

(Farms Sorted By Net Farm Income)

Avg. Of All Farms Low 20% High 20% 188 40 33 Number of farms Beginning Ending Beginning Ending Ending Beginning ASSETS Current Farm Assets Cash and checking balance 14,558 15,079 13,404 6,646 24,911 23,375 28,230 21,460 12,420 12,366 36,317 Prepaid expenses & supplies 51,123 56 22 n Λ 182 n Growing crops 28,712 42,736 24,390 25,968 54,102 90,403 Accounts receivable 1,578 Hedging accounts 1,451 3,469 200 1,824 3,187 93,400 89,035 Crops held for sale or feed 135,622 158,707 211,717 259,953 2,509 2,100 443 1,575 4,225 Crops under government loan 3,468 Market livestock held for sale 2,721 3,123 5,929 5,554 6,289 7,406 1,948 2,259 1,851 400 1,027 Other current assets n 209,475 253,299 155,403 141,743 340,594 438,915 Total current farm assets Intermediate Farm Assets 1,238 1,356 3,005 3,548 2,302 Breeding livestock 2,417 Machinery and equipment 176,339 187,486 144,247 148,239 243,829 255,618 124,670 125,833 40,678 41,179 205,354 Other intermediate assets 202,230 187,930 192,965 Total intermediate farm assets 302,246 314,675 451,485 460,265 Long Term Farm Assets 261,370 271,233 216,892 218,383 494.582 510,925 Farm land 35,336 Buildings and improvements 39,253 53,300 64,222 41,725 44,110 20,553 21,282 9,023 9,445 75,665 77,618 Other long-term assets 331,767 279,214 292,050 611,972 Total long-term farm assets 317,260 632,653 828,981 899,742 622,547 626,759 1,404,051 1,531,833 Total Farm Assets 141,771 151,659 85,554 97,390 189,608 203,322 Total Nonfarm Assets Total Assets 970,751 1,051,401 708,101 724,148 1,593,659 1,735,155 LIABILITIES Current Farm Liabilities 10,156 10,625 7,699 13,551 11,828 11,399 Accrued interest 10,495 6,505 17,965 13,764 11,550 6,436 Accounts payable 100,228 110,794 93,214 107,669 178,433 132,304 Current notes Government crop loans 1,951 1,507 0 0 3,599 3,401 23,273 27,860 52,206 50,780 34,414 33,851 Principal due on term debt 167,273 135,278 150,928 264,032 211,648 158,300 Total current farm liabilities 115,654 Total intermediate farm liabs 119,184 76,440 71,560 161,302 163,590 160,711 139,643 137,693 262,495 269,323 Total long term farm liabilities 156,551 434,035 443,638 351,361 360,182 687,829 644,561 Total farm liabilities 22,589 25,978 Total nonfarm liabilities 24,261 26,099 29,679 31,679 458,296 469,738 373,950 386,160 717,507 676,239 Total liabilities NET WORTH (farm and nonfarm) 581,663 334,150 337,988 876,152 1,058,915 512,456 69,207 3,837 182,764 Net worth change RATIO ANALYSIS 87 % 106 % 78 % 48 % 76 % 66 % Current farm liabilities / assets Curr. & interm farm liab. / asset 54 % 50 % 62 % 66 % 54 % 42 % Long term farm liab. / assets 49 % 48 % 50 % 47 % 43 % 43 %

53 %

53 %

45 %

47 %

Total debt to asset ratio

45 %

39 %

TABLE 7 BALANCE SHEET AT MARKET VALUES, 2000 Minnesota and North Dakota Farm Business Mgmt Education Red River Valley (Farms Sorted By Net Farm Income)

Avg. Of

		Farms	Low	20%	Hig	gh 20%
Number of farms		188		40		33
	Beginning	Ending	Beginning	Ending	Beginning	Ending
ASSETS						
Current Farm Assets	4/ 550	45 070	47 /0/		2/ 044	22 776
Cash and checking balance	14,558	15,079	13,404	6,646	24,911	23,375
Prepaid expenses & supplies Growing crops	21,460 56	28,230 22	12,420 0	12,366 0	36,317 182	51,123 0
Accounts receivable	28,712	42,736	24,390	25,968	54,102	90,403
Hedging accounts	1,578	1,451	3,469	200	1,824	3,187
Crops held for sale or feed	135,622	158,707	93,400	89,035	211,717	259,953
Crops under government loan	2,509	2,100	443	1,575	4,225	3,468
Market livestock held for sale	2,721	3,123	5,929	5,554	6,289	7,406
Other current assets	2,259	1,851	1,948	400	1,027	0
Total current farm assets	209,475	253,299	155,403	141,743	340,594	438,915
Intermediate Farm Assets	1 16/	1 /0/	2 ((0	/ 000	2 201	2 (17
Breeding livestock	1,164 231,175	1,486 244,864	2,668 180,512	4,088 189,391	2,291	2,417
Machinery and equipment Other intermediate assets	162,088	126,742	43,745	41,393	335,057 289,120	349,084 217,283
Total intermediate farm assets	394,427	373,091	226,924	234,872	626,468	568,784
Long Term Farm Assets	0,7,7,2,	0.0747.	220,72.	23,70.2	020, 100	300,704
Farm land	308,031	324,703	260,279	261,895	562,415	598,481
Buildings and improvements	45,455	50,204	60,968	74,246	59,032	62,108
Other long-term assets	22,289	21,794	9,023	9,823	79,773	76,917
Total long-term farm assets	375,776	396,702	330,269	345,964	701.,220	<i>7</i> 37,506
Total Farm Assets	979,678	1,023,092	712,597	722,579	1,668,283	1,745,205
Total Nonfarm Assets	156,011	167,331	88,119	100,280	206,560	220,801
Total Assets	1,135,689	1,190,423	800,716	822,859	1,874,842	1,966,005
LIABILITIES						
Current Farm Liabilities						
Accrued interest	10,156	10,625	7,699	13,551	11,828	11,399
Accounts payable	11,550	10,495	6,505	6,436	17,965	13,764
Current notes	100,228	110,794	93,214	107,669	178,433	132,304
Government crop loans	1,951 34,414	1,507 33,851	0 27,860	0 23,273	3,599 52,206	3,401 50,780
Principal due on term debt Total current farm liabilities	158,300	167,273	135,278	150,928	264,032	50,780 211,648
Total intermediate farm liabs	119,184	115,654	76,440	71,560	161,302	163,590
Total long term farm liabilities	156,551	160,711	139,643	137,693	262,495	269,323
Total farm liabilities	434,035	443,638	351,361	360,182	687,829	644,561
Total nonfarm liabilities	24,261	26,099	22,589	25,978	29,679	31,679
Total liabs excluding deferreds	458,296	469,738	373,950	386,160	717,507	676,239
Total deferred liabilities	98,342	105,159	58,078	54,561	176,093	192,523
Total liabilities	556,638	574,897	432,028	440,721	893,600	868,762
RETAINED EARNINGS	512,456	581,663	334,150	337,988	876,152	1,058,915
Market valuation equity	66,595	33,863	34,537	44,150	105,090	38,328
Net worth (farm and nonfarm)	579,051	615,526	368,688	382,138	981,242	1,097,243
Net worth excluding deferreds	677,393	720,686	426,765	436,699	1,157,335	1,289,766
Net worth change		36,475		13,451		116,001
RATIO ANALYSIS						
Current farm liabilities / assets		66 %	87 %	106 %	78 %	48 %
Curr. & interm farm liab. / asset		45 %	55 %	59 %	44 %	37 %
Long term farm liab. / assets	42 %	41 %	42 %	40 %	37 %	37 %
Total debt to asset ratio Debt to assets excl deferreds	49 % 40 %	48 % 39 %	54 % 47 %	54 % 47 %	48 % 38 %	44 % 34 %
pept to describe exer detaileds	40 %	J7 /6	*1 /6	41 /0	JO /6	J4 %

STATEMENT OF CASH FLOWS, 2000

Minnesota and North Dakota Farm Business Mgmt Education Red River Valley

(Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	High 20%
Number of farms	226	45	46
Beginning cash (farm & nonfarm)	23,146	15,037	30,750
CASH FROM OPERATING ACTIVITIES			
Gross cash farm income	475,233	288,089	766,145
Net nonfarm income	14,328	16,437	8,314
Total cash farm expense	-399,610	-253,345	-608,406
Apparent family living expense	-39,513	-33,038	-51,590
Income and social security tax	-9,285	-3,882	-18,723
Cash from operations	41,154	14,261	95,740
CASH FROM INVESTING ACTIVITIES			
Sale of breeding livestock	-	-	_
Sale of machinery & equipment	3,173	2,585	3,822
Sale of farm land	1,351	-	1,287
Sale of farm buildings		-	-
Sale of other farm assets	3,480	441	8,646
Sale of nonfarm assets	2,812	4,201	4,546
Purchase of breeding livestock	-108	-363	-150
Purchase of machinery & equip.	-38,422	-22,482	-50,570
Purchase of farm land	-8,812	-1,333	-11,681
Purchase of farm buildings	-4,119	-11,572	-2,856
Purchase of other farm assets	-2,401	-968	-5,165
Purchase of nonfarm assets	-11,561	-12,157	-14,876
Cash from investing activities	-54,608	-41,649	-66,998
CASH FROM FINANCING ACTIVITIES			
Money borrowed	244,514		337,696
Cash gifts and inheritances	3,789	8,735	2,715
Principal payments	-233,344	-170,677	-365,618
Dividends paid	-	-	-
Gifts given	-53	-49	- 1
Cash from financing activities	14,905	21,601	-25,207
Net change in cash balance	1,451	-5,787	3,535
Ending cash (farm & nonfarm)	24,598	9,250	34,284

TABLE 9
FINANCIAL STANDARDS MEASURES, 2000
Minnesota and North Dakota Farm Business Mgmt Education
Red River Valley
(Farms Sorted By Net Farm Income)

(

(

(

(

(

(

(

(

	Avg. Of All Farms	Low 20%	High 20%
Number of farms	226	45	46
LIQUIDITY Current ratio Working capital	1.63	1.00	2.19
	114,086	-561	283,082
SOLVENCY (market) Farm debt to asset ratio Farm equity to asset ratio Farm debt to equity ratio	51 %	56 %	45 %
	49 %	44 %	55 %
	104 %	126 %	81 %
PROFITABILITY (cost) Rate of return on farm assets Rate of return on farm equity Operating profit margin Net farm income	10.7 % 14.1 % 20.6 % 107,721	1.6 % -5.0 % 3.8 % 7,038	14.5 % 19.8 % 28.7 % 249,923
REPAYMENT CAPACITY Term debt coverage ratio Capital replacement margin	189 %	39 %	284 %
	54,715	-27,119	164,257
EFFICIENCY Asset turnover rate (cost) Operating expense ratio Depreciation expense ratio Interest expense ratio Net farm income ratio	52.2 %	42.3 %	50.5 %
	69.2 %	82.9 %	62.4 %
	4.0 %	6.7 %	3.5 %
	6.3 %	8.9 %	5.2 %
	20.6 %	1.6 %	28.9 %

CROP PRODUCTION AND MARKETING SUMMARY, 2000 Minnesota and North Dakota Farm Business Mgmt Education

Red River Valley (Farms Sorted By Net Farm Income)

	Avg. Of 11 Farms	Low 20%	High 20%
Number of farms	226	45	46
ACREAGE SUMMARY			
Total acres owned	397	300	699
Total crop acres	1,718	1,158	2,437
Crop acres owned	371	293	612
Crop acres cash rented Crop acres share rented	1,224 123	783	1,619
Total pasture acres	123	82	206
iotal pastule acres	2	-	10
AVERAGE PRICE RECEIVED (Cash Sales On	·lv)		
Wheat, Spring per bu.	2.92	2.82	2.89
Soybeans per bu.	4.34	4.21	4.42
Corn per bu.	1.60	1.42	1.64
Barley per bu.	1.60	1.27	1.68
Beans, Navy per cwt.	14.55	-	14.56
Sunflowers per cwt.	7.59	~	7.10
Canola per cwt.	6.09	-	6.28
Sunflowers, Confectionary per cwt.	10.69	-	-
Beans, Pinto per cwt.	12.46	**	-
Hay, Alfalfa per ton	53.81	-	-
Wheat, Winter per bu.	2.49	-	-
AVERAGE YIELD PER ACRE			
Wheat, Spring (bu.)	49.21	45.09	50.33
Soybeans (bu.)	32.34	30.50	34.98
Sugar Beets (ton)	20.01	21.96	18.86
Corn (bu.)	114.68	95.23	111.43
Barley (bu.)	56.24	56.82	67.71
Sunflowers (cwt.)	14.58	16.85	15.66
Beans, Navy (cwt.)	13.02	-	11.42
Beans, Pinto (cwt.)	15.21	-	16.32
Sunflowers, Confectionary (cwt.)	16.06	-	-
Canola (cwt.)	11.43		12.73
Hay, Alfalfa (ton)	3.20	3.36	-
Beans, Black Turtle (cwt.) Oats (bu.)	14.60 78.27	-	-
Oats (Du.)	18.21	-	-

HOUSEHOLD AND PERSONAL EXPENSES, 2000 Minnesota and North Dakota Farm Business Mgmt Education Red River Valley

(Average of all farms reporting)

	Avg. Of All Farms
Number of farms	27
Average family size	3.5
Family Living Expenses Food and meals expense Medical care and health insurance Cash donations Household supplies Clothing Personal care Child / Dependent care Gifts Education Recreation Utilities (household share) Nonfarm vehicle operating expense Household real estate taxes Dwelling rent Household repairs Nonfarm interest Life insurance payments Total cash family living expense	1,434 4,817 2,606 1,590 892 3,395 1,687 4,669 1,507
Family living from the farm Total family living	38,167
Other Nonfarm Expenditures Income taxes Furnishing & appliance purchase Nonfarm vehicle purchases Nonfarm real estate purchases Other nonfarm capital purchases Nonfarm savings & investments Total other nonfarm expenditures	14,807 26 1,051 3,614 1,846 4,345 25,688
Total cash family living investment & nonfarm capital purch	63,856

NONFARM INCOME, OPERATOR AND LABOR INFORMATION, 2000 Minnesota and North Dakota Farm Business Mgmt Education Red River Valley (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	High 20%
Number of farms	226	45	46
NONFARM INCOME Nonfarm wages & salary Nonfarm business income Nonfarm rental income Nonfarm interest income Nonfarm cash dividends Tax refunds Gifts and inheritances Other nonfarm income Total nonfarm income	10,938	10,376	7,285
	775	2,782	-788
	585	868	483
	306	236	297
	74	59	155
	396	254	68
	3,789	8,735	2,715
	1,254	1,861	813
	18,116	25,172	11,029
OPERATOR INFORMATION Average number of operators Average age of operators Average number of years farming	1.1 42.3 20.0	1.1 43.0 19.8	1.3
RESULTS PER OPERATOR Working capital Total assets (market) Total liabilities Net worth (market) Net worth excl deferred liabs Gross farm income	99,550	-515	224,513
	1,155,901	765,279	1,764,356
	654,607	454,336	929,146
	501,294	310,943	835,210
	612,298	362,867	1,027,573
Total farm expense Net farm income Net nonfarm income Family living withdrawals	359,667	255,997	486,685
	93,151	4,054	198,214
	12,502	15,095	6,594
	42,580	33,906	55,766
Total acres owned Total crops acres Crop acres owned Crop acres cash rented Crop acres share rented Total pasture acres	347	276	554
	1,499	1,063	1,933
	324	268	485
	1,068	719	1,284
	107	76	164
LABOR ANALYSIS Number of farms Total unpaid labor hours Total hired labor hours Total labor hours per farm Unpaid hours per operator	201	36	42
	2,269	1,861	2,810
	1,193	450	2,238
	3,462	2,311	5,048
	1,966	1,675	2,185

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 operator's 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 Agricultural Market Transition Act and Market Loss Assistance government payments. Sugar beet enterprises, where the beet stock is owned, have a sugar beet stock equity charge to determine net return over sugar beet stock. The sugar beet stock equity charge is calculated by multiplying \$1250 (the average sugar beet stock sales price in 2000) by 8% and subtracting the interest paid on beet stock debt in 2000. 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 are classified into low 20% or 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 60% for a third. When there are less than 25 total farms with any particular crop and farmer's tenure, only overall averages are presented.

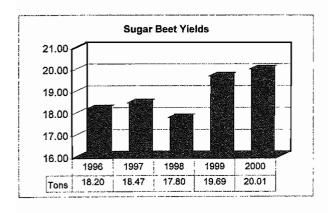
Value per unit is the market price received plus any loan deficiency payment. Miscellaneous income includes crop insurance and disaster payments for the crop.

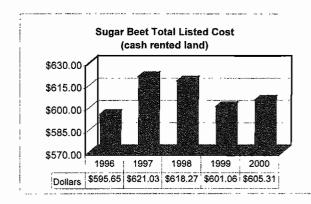
Several cost items, such as "utilities," "hired labor," and "interest paid," are listed under both "direct" and "overhead" costs because some of these costs are specific to that crop whereas others are general overhead costs of the farm. For example, "Direct Lease Payments" refers to non-land inputs or resources leased and used only in that crop enterprise and not listed elsewhere under direct costs; 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 separate category and is assigned as a direct cost for each crop enterprise because it is identifiable with the specific crop. In the case of double cropping, one-half of the rent is charged to each crop.

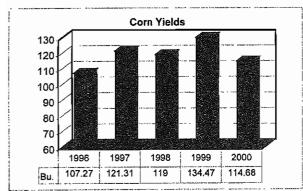
In the last section of the crop table, "Total direct expense per unit" and "Total dir & ovhd exp per unit" are calculated by dividing "Total direct expense per acre" and "Total dir & ovhd expenses per acre," respectively, by "Yield per acre." "With labor & management" is the breakeven price after direct,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

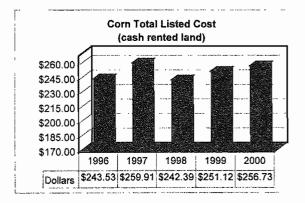
Rounding of individual items for the report may have caused minor discrepancies with the calculated totals.

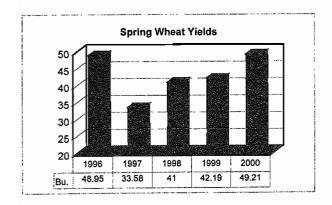
Five Year Crop History of Yields and Cost of Production Red River Valley Farm Business Management Education

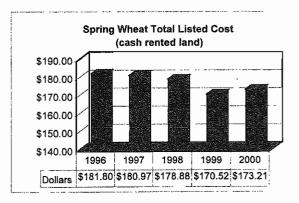


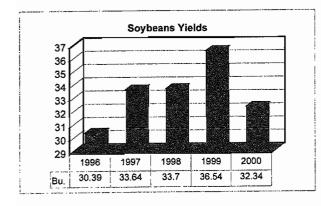


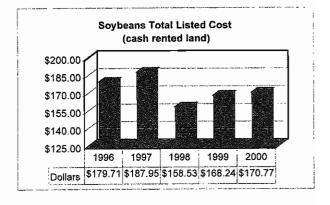












Crop Enterprise Analysis, 2000 Minnesota and North Dakota Farm Business Mgmt Education Red River Valley (Farms Sorted By Net return)

Barley on Owned Land

	Avg. Of All Farms
Number of fields Number of farms	10 10
Acres Yield per acre (bushel) Operators share of yield % Value per bushel Total product return per acre Miscellaneous income per acre Gross return per acre	131.94 62.49 100.00 1.94 121.28 32.44 153.71
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Operating interest Total direct expenses per acre Return over direct exp per acre	7.35 20.32 14.65 5.71 6.45 9.63 3.00 1.60 68.70 85.01
Overhead Expenses Custom hire Hired labor Machinery & bldg 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	1.38 3.24 1.53 8.39 3.30 1.15 0.57 23.71 9.11 2.29 54.68 123.38 30.33
Lbr & mgt charge per acre Net return over lbr & mgt Government payments Net return with govt payments	12.07 18.26 32.09 50.34
Cost of Producton Total direct expense per bushel Total dir & ovhd exp per bushel With labor & management Total exp less govt & oth income	1.10 1.97 2.17 1.14

Crop Enterprise Analysis, 2000 Minnesota and North Dakota Farm Business Mgmt Education Red River Valley

(Farms Sorted By Net return)

Barley on Cash Rented Land

	Avg. Of All Farms	Low 20%	High 20%
Number of fields	26	5	5
Number of farms	25	5	5
Acres Yield per acre (bushel) Operators share of yield % Value per bushel Total product return per acre Miscellaneous income per acre Gross return per acre	169.11	284.62	150.34
	59.44	42.07	80.93
	100.00	100.00	100.00
	1.87	1.52	2.24
	111.17	63.96	181.30
	13.78	27.75	10.16
	124.95	91.71	191.47
Direct Expenses Seed 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	7.63 22.78 17.42 4.23 6.69 9.75 1.05 57.52 3.55 0.60 131.22 -6.27	7.63 30.30 23.07 5.80 5.48 8.84 0.57 60.95 3.60 0.42 146.65 -54.94	7.87 18.29 7.20 2.97 6.71 10.63 1.10 51.22 2.23 108.22 83.25
Overhead Expenses Custom hire Hired labor Machinery & bldg 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	1.57 3.70 2.85 2.94 1.53 1.30 3.61 7.77 1.98 27.25 158.47 -33.52	2.53 2.72 2.85 4.10 1.29 1.01 3.78 8.89 0.96 28.12 174.78 -83.07	0.45 4.50 1.85 3.00 1.58 2.44 2.89 7.85 1.19 25.74 133.96 57.50
Lbr & mgt charge per acre	14.64	13.51	13.16
Net return over lbr & mgt	-48.17	-96.58	44.34
Government payments	30.03	27.51	28.35
Net return with govt payments	-18.13	-69.07	72.69
Cost of Producton Total direct expense per bushel Total dir & ovhd exp per bushel With labor & management Total exp less govt & oth income	2.21	3.49	1.34
	2.67	4.15	1.66
	2.91	4.48	1.82
	2.18	3.16	1.34

Crop Enterprise Analysis, 2000 Minnesota and North Dakota Farm Business Mgmt Education Red River Valley

(Farms Sorted By Net return)

Beans, Navy on Owned Land

Doding, Italy on outloa Day	
	Avg. Of All Farms
Number of fields Number of farms	11 10
Acres Yield per acre (cwt) Operators share of yield % Value per cwt Total product return per acre Miscellaneous income per acre Gross return per acre	79.68 11.42 100.00 13.71 156.53 80.02 236.55
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	34.99 20.19 25.86 19.00 11.70 16.30 6.64 6.35 0.34 141.37 95.18
Overhead Expenses Custom hire Hired labor Machinery & bldg 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	4.65 10.59 3.80 10.35 5.28 2.75 1.85 35.91 11.42 8.42 95.04 236.41 0.14
Lbr & mgt charge per acre Net return over lbr & mgt Government payments Net return with govt payments	22.74 -22.60 - -22.60
Cost of Producton Total direct expense per cwt Total dir & ovhd exp per cwt With labor & management Total exp less govt & oth income	12.38 20.71 22.69 15.69
28	

Crop Enterprise Analysis, 2000 Minnesota and North Dakota Farm Business Mgmt Education Red River Valley

(Farms Sorted By Net return)

Beans, Navy on Cash Rented Land

	Avg. Of All Farms
Number of fields Number of farms	21 17
Acres Yield per acre (cwt) Operators share of yield % Value per cwt Total product return per acre Miscellaneous income per acre Gross return per acre	133.85 11.90 100.00 12.78 152.03 110.61 262.65
Direct Expenses Seed 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	27.33 21.24 23.58 21.14 11.17 21.54 4.06 53.86 6.37 0.87 191.17 71.48
Overhead Expenses Custom hire Hired labor Machinery & bldg 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	2.45 10.71 2.79 5.28 2.57 2.47 3.81 15.29 3.44 48.80 239.97 22.68
Lbr & mgt charge per acre Net return over lbr & mgt Government payments Net return with govt payments	25.96 -3.28 - -3.28
Cost of Producton Total direct expense per cwt Total dir & ovhd exp per cwt With labor & management Total exp less govt & oth income	16.07 20.17 22.35 13.05

Crop Enterprise Analysis, 2000 Minnesota and North Dakota Farm Business Mgmt Education Red River Valley (Farms Sorted By Net return)

Beans, Pinto on Owned Land

	Avg. Of All Farms
Number of fields Number of farms	9 7
Acres Yield per acre (cwt) Operators share of yield % Value per cwt Total product return per acre Miscellaneous income per acre Gross return per acre	77.56 15.05 100.00 11.50 173.09 14.74 187.83
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	27.25 21.49 21.10 19.14 14.13 20.05 3.71 10.07 0.02 136.97 50.86
Overhead Expenses Custom hire Hired labor Machinery & bldg leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	2.80 13.20 3.24 9.59 7.98 2.57 2.59 43.35 18.01 4.20 107.53 244.50 -56.67
Lbr & mgt charge per acre Net return over lbr & mgt Government payments Net return with govt payments	22.25 -78.92 - -78.92
Cost of Producton Total direct expense per cwt Total dir & ovhd exp per cwt With labor & management Total exp less govt & oth income	9.10 16.24 17.72 16.74

Crop Enterprise Analysis, 2000 Minnesota and North Dakota Farm Business Mgmt Education Red River Valley

(Farms Sorted By Net return)

Beans, Pinto on Cash Rented Land

beaus, times on cash kence	d Dana
	Avg. Of All Farms
Number of fields Number of farms	15 11
Acres	95.97
Yield per acre (cwt)	13.75
Operators share of yield % Value per cwt	100.00 12.26
Total product return per acre	168.58
Miscellaneous income per acre	35.24
Gross return per acre	203.82
Direct Expenses	
Seed	25.38
Fertilizer	14.31
Crop chemicals Crop insurance	19.12 15.03
Fuel & oil	12.20
Repairs	19.15
Custom hire	3.55
Land rent	50.27
Operating interest	6.99
Miscellaneous	0.01
Total direct expenses per acre	166.02
Return over direct exp per acre	37.80
Overhead Expenses	
Custom hire	2.42
Hired labor Machinery & bldg leases	7.04 3.13
Farm insurance	5.97
Utilities	2.35
Dues & professional fees	2.20
Interest	4.55
Mach & bldg depreciation	14.62
Miscellaneous	3.06
Total overhead expenses per acre	45.34
Total dir & ovhd expenses per acre Net return per acre	211.36 -7.54
Lbr & mgt charge per acre	27.30
Net return over 1br & mgt	-34.84
Government payments	_
Net return with govt payments	-34.84
Cost of Producton	
Total direct expense per cwt	12.08
Total dir & ovhd exp per cwt	15.38
With labor & management Total exp less govt & oth income	17.36 14.79
Total exp ress gove a oth income	14.79
31	

Crop Enterprise Analysis, 2000 Minnesota and North Dakota Farm Business Mgmt Education Red River Valley (Farms Sorted By Not return)

(Farms Sorted By Net return)

Canola on Cash Rented Land

	Avg. Of All Farms
Number of fields Number of farms	13 13
Acres Yield per acre (cwt) Operators share of yield % Value per cwt Total product return per acre Miscellaneous income per acre Gross return per acre	234.08 10.96 100.00 10.46 114.65 35.14 149.78
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Land rent Operating interest Total direct expenses per acre Return over direct exp per acre	15.73 24.74 20.07 7.64 9.40 10.86 1.81 47.96 3.13 141.34 8.44
Overhead Expenses Custom hire Hired labor Machinery & bldg 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	4.15 2.40 4.49 2.93 1.36 0.57 3.24 8.33 2.34 29.81 171.15 -21.37
Lbr & mgt charge per acre Net return over lbr & mgt Government payments Net return with govt payments	20.05 -41.42 40.85 -0.57
Cost of Producton Total direct expense per cwt Total dir & ovhd exp per cwt With labor & management Total exp less govt & oth income	12.90 15.62 17.45 10.51

TABLE 13 - 8 Crop Enterprise Analysis, 2000 Minnesota and North Dakota Farm Business Mgmt Education Red River Valley (Farms Sorted By Net return)

Corn on Owned Land

	Avg. Of All Farms	Low 20%	High 20%
Number of fields	36	6	6
Number of farms	32	6	6
Acres Yield per acre (bushel) Operators share of yield % Value per bushel Total product return per acre Miscellaneous income per acre Gross return per acre	124.61	105.90	125.03
	109.08	71.39	147.42
	100.00	100.00	100.00
	1.78	1.74	1.74
	194.00	124.00	256.69
	24.83	27.87	42.49
	218.83	151.87	299.18
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Drying fuel Fuel & oil Repairs Custom hire Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	30.28	37.61	25.80
	34.77	32.33	37.20
	19.10	19.53	18.25
	7.54	9.42	4.51
	5.34	1.92	1.28
	11.41	11.68	11.48
	19.85	26.49	20.20
	1.03	1.62	0.07
	6.76	12.59	1.89
	0.71	1.72	-
	136.79	154.90	120.67
	82.05	-3.03	178.51
Overhead Expenses Custom hire Hired labor Machinery & bldg leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	3.06	2.03	2.82
	9.88	13.26	4.39
	4.65	2.16	4.56
	10.05	13.28	7.71
	2.91	3.24	1.86
	2.25	3.49	1.65
	2.09	2.85	1.14
	44.69	61.55	32.14
	16.69	21.84	17.71
	3.19	6.04	3.87
	99.47	129.75	77.86
	236.25	284.65	198.53
	-17.42	-132.78	100.65
Lbr & mgt charge per acre Net return over lbr & mgt Government payments Net return with govt payments	19.07	23.94	17.79
	-36.49	-156.72	82.86
	29.73	32.55	24.80
	-6.75	-124.17	107.66
Cost of Producton Total direct expense per bushel Total dir & ovhd exp per bushel With labor & management Total exp less govt & oth income	1.25	2.17	0.82
	2.17	3.99	1.35
	2.34	4.32	1.47
	1.84	3.48	1.01

Crop Enterprise Analysis, 2000 Minnesota and North Dakota Farm Business Mgmt Education Red River Valley (Farms Sorted By Net return)

Corn on Cash Rented Land

	Avg. Of All Farms	Low 20%	High 20%
Number of fields	85	12	15
Number of farms	60	12	12
Acres Yield per acre (bushel) Operators share of yield % Value per bushel Total product return per acre Miscellaneous income per acre Gross return per acre	191.80	145.28	237.10
	113.77	89.20	126.07
	100.00	100.00	100.00
	1.83	1.83	1.83
	208.27	163.35	231.08
	25.24	1.68	78.52
	233.51	165.04	309.60
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Drying fuel Fuel & oil Repairs Custom hire Land rent Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	30.61	31.77	28.50
	35.44	33.86	40.11
	21.96	23.73	23.51
	9.49	7.74	12.85
	4.56	2.13	1.16
	11.16	11.10	9.83
	19.18	20.67	15.98
	2.19	3.69	2.29
	63.32	62.18	65.39
	7.24	8.81	4.45
	1.02	1.39	0.59
	206.17	207.06	204.66
	27.34	-42.03	104.95
Overhead Expenses Custom hire Hired labor Machinery & bldg 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	3.72	0.53	1.78
	7.63	8.09	7.28
	5.76	8.25	6.84
	3.27	3.31	2.28
	2.37	3.58	1.46
	2.30	1.70	2.13
	6.72	9.95	4.60
	14.87	23.93	14.43
	3.92	7.51	3.74
	50.56	66.86	44.54
	256.73	273.93	249.20
	-23.22	-108.89	60.41
Lbr & mgt charge per acre	19.88	25.59	16.12
Net return over lbr & mgt	-43.11	-134.48	44.29
Government payments	28.99	32.20	23.34
Net return with govt payments	-14.12	-102.28	67.63
Cost of Producton Total direct expense per bushel Total dir & ovhd exp per bushel With labor & management Total exp less govt & oth income	1.81	2.32	1.62
	2.26	3.07	1.98
	2.42	3.36	2.10
	1.95	2.98	1.30

Crop Enterprise Analysis, 2000 Minnesota and North Dakota Farm Business Mgmt Education Red River Valley

(Farms Sorted By Net return)

Corn on Share Rent

	Avg. Of All Farms
Number of fields Number of farms	14 11
Acres Yield per acre (bushel) Operators share of yield % Value per bushel Total product return per acre Miscellaneous income per acre Gross return per acre	112.76 118.16 67.93 1.79 143.62 3.49 147.10
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Drying fuel Fuel & oil Repairs Custom hire Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	26.84 35.80 15.87 7.87 3.38 10.92 15.55 4.06 6.05 0.07 126.42 20.68
Overhead Expenses Hired labor Machinery & bldg 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	9.24 8.04 2.21 2.72 1.52 5.29 29.18 3.09 61.28 187.70 -40.60
Lbr & mgt charge per acre Net return over lbr & mgt Government payments Net return with govt payments	21.76 -62.35 22.99 -39.37
Cost of Producton Total direct expense per bushel Total dir & ovhd exp per bushel With labor & management Total exp less govt & oth income	1.57 2.34 2.61 2.28

Crop Enterprise Analysis, 2000 Minnesota and North Dakota Farm Business Mgmt Education Red River Valley

(Farms Sorted By Net return)

Hay, Alfalfa on Owned Land

	Avg. Of All Farms
Number of fields Number of farms	9 8
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Miscellaneous income per acre Gross return per acre	50.50 3.26 100.00 51.87 169.19
Direct Expenses Seed Fertilizer Fuel & oil Repairs Custom hire Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	4.40 7.96 14.60 26.89 1.39 2.73 5.90 63.88 105.30
Overhead Expenses Custom hire Hired labor Machinery & bldg 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	10.69 8.48 0.45 10.67 2.95 1.49 1.85 25.09 10.25 2.57 74.48 138.36 30.82
Lbr & mgt charge per acre Net return over lbr & mgt Government payments Net return with govt payments	23.88 6.94 35.33 42.27
Cost of Producton Total direct expense per ton Total dir & ovhd exp per ton With labor & management Total exp less govt & oth income	19.59 42.42 49.75 38.91

Crop Enterprise Analysis, 2000 Minnesota and North Dakota Farm Business Mgmt Education Red River Valley

(Farms Sorted By Net return)

Hay, Alfalfa on Cash Rented Land

	Avg. Of All Farms
Number of fields Number of farms	8
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Miscellaneous income per acre Gross return per acre	102.88 3.42 100.00 50.85 174.02
Direct Expenses Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Land rent Machinery & bldg leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	7.31 1.75 1.07 13.54 21.08 5.11 56.72 2.45 4.27 7.41 120.71 53.31
Overhead Expenses Custom hire Hired labor Machinery & bldg 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	5.70 7.23 2.72 2.51 2.68 1.92 4.44 16.44 2.73 46.37 167.08 6.94
Lbr & mgt charge per acre Net return over lbr & mgt Government payments Net return with govt payments	24.54 -17.60 28.89 11.29
Cost of Producton Total direct expense per ton Total dir & ovhd exp per ton With labor & management Total exp less govt & oth income	35.27 48.82 55.99 47.55

TABLE 13 - 13 Crop Enterprise Analysis, 2000 Minnesota and North Dakota Farm Business Mgmt Education Red River Valley (Farms Sorted By Net return)

Soybeans on Owned Land

(

(

Ĺ

(

	Avg. Of All Farms	Low 20%	High 20%
Number of fields	151	26	33
Number of farms	110	22	22
Acres Yield per acre (bushel) Operators share of yield % Value per bushel Total product return per acre Miscellaneous income per acre Gross return per acre	148.85	162.97	177.06
	32.84	27.81	36.74
	100.00	100.00	100.00
	5.11	4.86	5.10
	167.93	135.24	187.47
	21.07	21.15	34.51
	189.00	156.39	221.98
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	15.77 5.30 19.13 9.18 8.50 14.84 2.39 3.63 0.79 79.54	20.51 5.30 22.74 11.18 8.35 17.12 0.99 4.88 1.34 92.41 63.98	10.51 5.12 14.61 9.76 8.95 12.64 2.17 1.90 0.27 65.93 156.04
Overhead Expenses Custom hire Hired labor Machinery & bldg 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	1.81	2.04	3.50
	5.69	4.46	5.50
	2.93	4.36	3.43
	10.47	12.07	10.29
	3.31	3.26	2.97
	2.06	2.39	1.81
	1.59	1.81	1.54
	34.74	53.42	22.83
	12.15	11.32	11.83
	3.10	1.58	2.56
	77.85	96.70	66.26
	157.39	189.11	132.19
	31.61	-32.72	89.79
Lbr & mgt charge per acre Net return over 1br & mgt Government payments Net return with govt payments	17.40	18.76	18.44
	14.22	-51.48	71.34
	31.16	29.55	28.80
	45.38	-21.93	100.14
Cost of Producton Total direct expense per bushel Total dir & ovhd exp per bushel With labor & management Total exp less govt & oth income	2.42	3.32	1.79
	4.79	6.80	3.60
	5.32	7.47	4.10
	3.73	5.65	2.38

TABLE 13 - 14 Crop Enterprise Analysis, 2000 Minnesota and North Dakota Farm Business Mgmt Education Red River Valley (Farms Sorted By Net return)

Soybeans on Cash Rented Land

	Avg. Of All Farms	Low 20%	High 20%
Number of fields Number of farms	296 176	62 35	72 36
Acres Yield per acre (bushel) Operators share of yield % Value per bushel Total product return per acre Miscellaneous income per acre Gross return per acre	262.74 32.02 100.00 5.11 163.52 23.27 186.79	245.57 27.83 100.00 4.96 138.08 16.75 154.83	210.69 34.38 100.00 5.28 181.36 35.32 216.67
Direct Expenses Seed 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	16.40 5.19 20.60 8.98 7.48 12.57 2.39 59.61 4.27 0.66 138.14 48.65	19.89 5.31 21.01 9.74 7.67 15.27 2.79 60.37 4.97 1.01 148.04 6.79	12.39 2.75 16.49 8.34 6.96 12.14 0.74 55.77 3.42 0.23 119.21 97.46
Overhead Expenses Custom hire Hired labor Machinery & bldg 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	2.09 5.07 3.11 2.99 1.68 1.46 4.45 9.35 2.42 32.63 170.77 16.03	3.06 5.63 2.91 3.28 1.90 1.39 5.80 11.12 2.48 37.57 185.61	3.36 4.06 2.98 3.45 1.85 2.11 3.25 9.00 1.81 31.88 151.10 65.58
Lbr & mgt charge per acre Net return over lbr & mgt Government payments Net return with govt payments	15.51 0.52 30.83 31.35	15.32 -46.10 31.04 -15.06	16.79 48.79 30.41 79.20
Cost of Producton Total direct expense per bushel Total dir & ovhd exp per bushel With labor & management Total exp less govt & oth income	4.31 5.33 5.80 4.14	5.32 6.67 7.22 5.50	3.47 4.40 4.86

TABLE 13 - 15 Crop Enterprise Analysis, 2000 Minnesota and North Dakota Farm Business Mgmt Education Red River Valley (Farms Sorted By Net return)

Soybeans on Share Rent

(

()

(:

(

(

(

	Avg. Of All Farms	Low 20%	High 20%
Number of fields	58	14	11
Number of farms	35	7	7
Acres Yield per acre (bushel) Operators share of yield % Value per bushel Total product return per acre Miscellaneous income per acre Gross return per acre	137.32	85.81	90.35
	32.89	29.23	39.25
	66.66	68.15	59.34
	4.78	4.63	5.02
	104.33	92.22	116.22
	19.58	18.63	18.41
	123.91	110.85	134.63
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Machinery & bldg leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	16.02 1.53 18.95 6.88 9.49 13.75 2.76 0.11 3.40 0.03 72.93 50.98	22.20 3.26 23.44 5.05 11.40 17.74 5.89 - 2.65 - 91.63 19.21	8.42
Overhead Expenses Hired labor Machinery & bldg 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	6.50 4.20 2.65 2.12 2.11 3.43 14.95 3.37 39.32 112.25 11.66	5.40 1.95 3.98 2.90 3.02 5.89 27.16 2.53 52.83 144.46	3.81 1.17 1.71 1.52 1.31 1.28 12.75 2.84 26.41 83.20 51.43
Lbr & mgt charge per acre Net return over lbr & mgt Government payments Net return with govt payments	17.60	22.48	19.54
	-5.94	-56.09	31.89
	18.47	17.20	15.43
	12.53	-38.89	47.31
Cost of Producton Total direct expense per bushel Total dir & ovhd exp per bushel With labor & management Total exp less govt & oth income	3.33	4.60	2.44
	5.12	7.25	3.57
	5.92	8.38	4.41
	4.19	6.58	2.96

TABLE 13 - 16 Crop Enterprise Analysis, 2000 Minnesota and North Dakota Farm Business Mgmt Education Red River Valley (Farms Sorted By Net return)

Sugar Beets on Owned Land, Excluding Joint Venture

	Avg. Of All Farms	Low 20%	High 20%
Number of fields	69	15	13
Number of farms	52	10	10
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Miscellaneous income per acre Gross return per acre	99.88	105.08	133.50
	19.06	21.24	16.02
	100.00	100.00	100.00
	30.80	29.82	31.24
	587.07	633.53	500.30
	108.47	24.21	259.34
	695.53	657.74	759.64
Direct Expenses Seed 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	40.62	43.51	35.82
	27.97	29.13	24.60
	99.98	104.20	82.89
	15.75	25.70	12.08
	32.72	37.67	30.86
	59.18	90.23	41.11
	18.26	14.03	23.83
	13.92	25.78	7.21
	16.07	19.93	10.59
	2.18	4.47	1.20
	326.65	394.63	270.19
	368.88	263.11	489.45
Overhead Expenses Custom hire Hired labor Machinery & bldg leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	3.66 29.04 9.26 11.29 4.78 6.51 6.41 54.10 53.91 9.38 188.36 515.01 180.52	3.76 38.68 8.11 11.10 6.81 9.31 5.57 75.72 74.13 9.83 243.01 637.64 20.10	4.15 16.51 4.81 9.94 3.18 3.42 3.77 39.31 54.91 8.45 148.44 418.63 341.01
Lbr & mgt charge per acre Net return over lbr & mgt Government payments Net return with govt payments Sugar beet stock equity charge Net return over sugar beet stock	66.84 113.68 34.15 147.83 85.81 62.02	52.03 -31.93 40.91 8.98 81.72 -72.74	70.57 270.44 32.04 302.48 97.09 205.39
Cost of Producton Total direct expense per ton Total dir & ovhd exp per ton With labor & management Total exp less govt & oth income With sugar beet stock equity charge	17.14	18.58	16.87
	27.02	30.02	26.14
	30.53	32.47	30.54
	23.04	29.40	12.35
	27.55	33.25	18.41

Crop Enterprise Analysis, 2000 Minnesota and North Dakota Farm Business Mgmt Education Red River Valley (Farms Sorted By Net return)

Sugar Beets on Owned Land - Joint venture

	Avg. Of All Farms
Number of fields Number of farms	17 17
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Miscellaneous income per acre Gross return per acre	81.03 20.45 100.00 30.07 614.79 60.18 674.97
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Hired labor Stock rent (joint venture) Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	39.81 27.66 90.17 20.37 32.13 42.97 19.97 17.64 172.53 16.72 0.42 480.37 194.60
Overhead Expenses Custom hire Hired labor Machinery & bldg 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	6.40 22.70 9.11 9.20 2.50 5.66 4.53 49.77 37.19 9.87 156.92 637.29 37.68
Lbr & mgt charge per acre Net return over lbr & mgt Government payments Net return with govt payments	57.99 -20.31 30.44 10.13
Cost of Producton Total direct expense per ton Total dir & ovhd exp per ton With labor & management Total exp less govt & oth income	23.49 31.17 34.00 29.57

TABLE 13 - 18
Crop Enterprise Analysis, 2000
Minnesota and North Dakota Farm Business Mgmt Education
Red River Valley
(Farms Sorted By Net return)

Sugar Beets on Cash Rented Land, Excluding Joint Venture

	Avg. Of All Farms	Low 20%	High 20%
Number of fields	126	25	24
Number of farms	98	19	20
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Miscellaneous income per acre Gross return per acre	129.68	99.25	94.40
	19.79	17.60	18.99
	100.00	100.00	100.00
	30.66	30.52	31.05
	606.58	537.22	589.65
	78.08	37.96	232.32
	684.65	575.18	821.97
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Hired labor Land rent Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	41.92	40.75	41.87
	30.02	29.47	32.58
	109.01	102.65	102.08
	15.48	19.47	13.77
	31.67	33.91	28.81
	53.05	77.10	42.79
	16.29	12.26	13.90
	15.59	15.17	9.77
	76.99	61.30	80.88
	14.20	13.73	10.89
	1.86	3.46	0.37
	406.09	409.30	377.71
	278.56	165.89	444.26
Overhead Expenses Custom hire Hired labor Machinery & bldg 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	5.46	3.93	9.44
	28.42	28.75	20.95
	11.70	21.23	8.27
	4.64	4.83	2.77
	5.97	7.18	4.42
	5.77	5.46	5.42
	26.19	27.70	19.38
	44.55	72.81	33.88
	9.06	9.10	7.91
	141.76	180.98	112.44
	547.85	590.28	490.15
	136.80	-15.09	331.83
Lbr & mgt charge per acre Net return over lbr & mgt Government payments Net return with govt payments Sugar beet stock equity charge Net return over sugar beet stock	70.36	60.35	62.12
	66.44	-75.44	269.70
	31.70	32.17	29.50
	98.14	-43.27	299.20
	78.48	85.69	81.82
	19.66	-128.96	217.38
Cost of Producton Total direct expense per ton Total dir & ovhd exp per ton With labor & management Total exp less govt & oth income With sugar beet stock equity charge	20.53	23.25	19.89
	27.69	33.53	25.81
	31.24	36.97	29.08
	25.69	32.98	15.29
	29.66	37.85	19.60

TABLE 13 - 19 Crop Enterprise Analysis, 2000 Minnesota and North Dakota Farm Business Mgmt Education Red River Valley (Farms Sorted By Net return)

Sugar Beets on Cash Rented Land, Joint Venture

(

(,

	Avg. Of All Farms	Low 20%	High 20%
Number of fields	91	13	28
Number of farms	68	13	13
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Miscellaneous income per acre Gross return per acre	153.24	157.08	117.31
	18.67	17.74	15.47
	100.00	100.00	100.00
	30.02	26.85	31.01
	560.39	476.23	479.70
	113.29	59.19	306.87
	673.67	535.42	786.57
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Hired labor Land rent Stock rent (joint venture) Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	41.20	46.79	39.56
	31.26	29.39	34.08
	105.24	115.25	92.55
	16.44	17.95	13.31
	28.49	38.54	22.59
	44.11	56.66	41.42
	11.42	20.28	2.21
	9.73	7.58	6.06
	64.84	51.31	69.60
	187.39	193.03	157.67
	17.77	13.66	16.84
	1.86	1.51	0.07
	559.74	591.94	495.96
	113.93	-56.52	290.61
Overhead Expenses Custom hire Hired labor Machinery & bldg 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	12.17	9.89	10.03
	18.36	22.62	15.98
	17.06	28.67	15.16
	3.68	4.36	2.25
	4.78	7.28	3.68
	3.82	3.28	3.32
	16.97	11.33	17.79
	27.79	40.11	18.67
	8.34	16.53	4.64
	112.99	144.07	91.51
	672.73	736.02	587.47
	0.94	-200.60	199.10
Lbr & mgt charge per acre	55.44	70.64	56.16
Net return over 1br & mgt	-54.49	-271.24	142.95
Government payments	29.74	36.17	30.02
Net return with govt payments	-24.75	-235.07	172.96
Cost of Producton Total direct expense per ton Total dir & ovhd exp per ton With labor & management Total exp less govt & oth income	29.98	33.37	32.06
	36.03	41.50	37.98
	39.00	45.48	41.61
	31.34	40.10	19.83

Crop Enterprise Analysis, 2000 Minnesota and North Dakota Farm Business Mgmt Education Red River Valley (Farms Sorted By Net return)

Sunflowers on Owned Land

	Avg. Of All Farms
Number of fields Number of farms	10 6
Acres Yield per acre (cwt) Operators share of yield % Value per cwt Total product return per acre Miscellaneous income per acre Gross return per acre	84.60 14.63 100.00 9.71 142.06 33.98 176.04
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	15.61 10.23 8.63 6.02 9.69 19.54 5.68 2.64 0.13 78.17 97.87
Overhead Expenses Hired labor Machinery & bldg 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	8.73 2.76 9.04 4.10 2.48 1.38 33.57 16.37 2.47 80.90 159.08 16.96
Lbr & mgt charge per acre Net return over lbr & mgt Government payments Net return with govt payments	15.92 1.05 37.90 38.95
Cost of Producton Total direct expense per cwt Total dir & ovhd exp per cwt With labor & management Total exp less govt & oth income	5.35 10.88 11.97 7.05

Crop Enterprise Analysis, 2000 Minnesota and North Dakota Farm Business Mgmt Education Red River Valley (Farms Sorted By Net return)

Sunflowers on Cash Rented Land

	Avg. Of All Farms
Number of fields Number of farms	19 17
Acres Yield per acre (cwt) Operators share of yield % Value per cwt Total product return per acre Miscellaneous income per acre Gross return per acre	175.52 14.61 100.00 9.97 145.65 22.82 168.47
Direct Expenses Seed 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	16.25 19.19 15.17 7.86 8.58 14.03 4.04 54.60 4.47 0.30 144.48 23.99
Overhead Expenses Custom hire Hired labor Machinery & bldg 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	2.07 3.86 8.09 2.87 1.99 1.13 6.79 10.51 4.20 41.50 185.98 -17.51
Lbr & mgt charge per acre Net return over lbr & mgt Government payments Net return with govt payments	19.91 -37.42 34.68 -2.74
Cost of Producton Total direct expense per cwt Total dir & ovhd exp per cwt With labor & management Total exp less govt & oth income	9.89 12.73 14.09 10.15

Crop Enterprise Analysis, 2000

Minnesota and North Dakota Farm Business Mgmt Education Red River Valley

(Farms Sorted By Net return)

Sunflowers, Confectionary on Cash Rented Land

Summitowers, confectionary on cash	Rented Land
	Avg. Of All Farms
Number of fields Number of farms	16 15
Acres	200.46
Yield per acre (cwt)	16.33
Operators share of yield %	100.00
Value per cwt	14.29
Total product return per acre	233.28
Miscellaneous income per acre Gross return per acre	10.10 243.38
Direct Expenses	
Seed	21.59
Fertilizer	16.45
Crop chemicals	14.81
Crop insurance Drying fuel	6.77 1.08
Fuel & oil	8.17
Repairs	14.06
Custom hire	5.23
Land rent	63.34
Operating interest	4.08
Miscellaneous	1.13
Total direct expenses per acre	156.73
Return over direct exp per acre	86.65
Overhead Expenses	
Custom hire	1.67
Hired labor	9.08
Machinery & bldg leases Farm insurance	3.24 2.38
Utilities	1.54
Dues & professional fees	2.19
Interest	3.82
Mach & bldg depreciation	8.09
Miscellaneous	2,12
Total overhead expenses per acre	34.14
Total dir & ovhd expenses per acre	190.87
Net return per acre	52.51
Lbr & mgt charge per acre	17.16
Net return over lbr & mgt	35.34
Government payments Net return with govt payments	34.12 69.46
wet return with gove payments	09.46
Cost of Producton	9.60
Total direct expense per cwt Total dir & ovhd exp per cwt	9.60 11.69
With labor & management	12.74
Total exp less govt & oth income	10.03
47	

TABLE 13 - 23 Crop Enterprise Analysis, 2000 Minnesota and North Dakota Farm Business Mgmt Education Red River Valley (Farms Sorted By Net return)

(

()

(

(

(

Wheat, Spring on Owned Land

	Avg. Of All Farms	Low 20%	High 20%
Number of fields	172	31	44
Number of farms	126	25	25
Acres Yield per acre (bushel) Operators share of yield % Value per bushel Total product return per acre Miscellaneous income per acre Gross return per acre	179.17	159.98	185.85
	50.27	42.89	56.68
	100.00	100.00	100.00
	3.57	3.67	3.68
	179.39	157.35	208.67
	12.50	12.69	9.98
	191.90	170.05	218.65
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Drying fuel Fuel & oil Repairs Custom hire Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	10.00 24.05 21.39 7.60 0.18 6.86 11.08 2.94 3.18 0.60 87.86 104.04	10.29 22.92 23.17 8.93 0.01 6.81 15.27 6.30 4.21 0.88 98.76 71.28	10.16 20.26 18.24 7.35 0.53 7.68 10.35 2.47 2.35 0.32 79.71
Overhead Expenses Custom hire Hired labor Machinery & bldg 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	1.46	1.80	0.83
	4.95	4.74	4.24
	2.23	2.26	1.71
	9.67	11.83	8.09
	4.03	5.27	4.62
	1.54	2.39	1.56
	1.25	1.87	1.28
	30.28	53.31	19.65
	9.83	11.11	11.11
	2.58	5.63	2.31
	67.82	100.21	55.40
	155.68	198.98	135.12
	36.22	-28.93	83.53
Lbr & mgt charge per acre Net return over lbr & mgt Government payments Net return with govt payments	14.05	14.72	14.22
	22.16	-43.65	69.31
	34.28	35.32	34.57
	56.44	-8.33	103.87
Cost of Producton Total direct expense per bushel Total dir & ovhd exp per bushel With labor & management Total exp less govt & oth income	1.75	2.30	1.41
	3.10	4.64	2.38
	3.38	4.98	2.63
	2.45	3.86	1.85

TABLE 13 - 24 Crop Enterprise Analysis, 2000 Minnesota and North Dakota Farm Business Mgmt Education Red River Valley (Farms Sorted By Net return)

Wheat, Spring on Cash Rented Land

	Avg. Of All Farms	Low 20%	High 20%
Number of fields	289	44	97
Number of farms	181	36	37
Acres Yield per acre (bushel) Operators share of yield % Value per bushel Total product return per acre Miscellaneous income per acre Gross return per acre	328.55	344.58	166.26
	48.57	40.88	54.69
	100.00	100.00	100.00
	3.53	3.31	3.56
	171.42	135.41	194.64
	16.92	19.18	30.87
	188.34	154.58	225.51
Direct Expenses Seed 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	9.31	8.66	9.78
	25.72	26.14	25.41
	20.75	21.32	16.65
	7.12	7.24	5.60
	6.70	7.22	6.20
	10.44	10.92	9.89
	2.84	3.31	2.30
	57.53	58.62	57.51
	3.21	4.64	2.29
	1.10	0.40	1.35
	144.72	148.47	136.98
	43.62	6.11	88.53
Overhead Expenses Custom hire Hired labor Machinery & bldg 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	1.76 4.33 3.05 3.28 1.45 1.24 3.59 7.76 2.05 28.49 173.21 15.13	1.75 4.69 3.74 4.02 1.94 1.08 5.95 7.51 2.68 33.36 181.83	0.79 5.34 2.42 3.61 1.33 1.22 2.83 7.89 1.61 27.06 164.04 61.48
Lbr & mgt charge per acre Net return over lbr & mgt Government payments Net return with govt payments	14.39	15.23	13.74
	0.74	-42.48	47.73
	32.58	31.66	29.79
	33.32	-10.82	77.52
Cost of Producton Total direct expense per bushel Total dir & ovhd exp per bushel With labor & management Total exp less govt & oth income	2.98	3.63	2.50
	3.57	4.45	3.00
	3.85	4.82	3.25
	2.84	3.57	2.14

TABLE 13 - 25 Crop Enterprise Analysis, 2000 Minnesota and North Dakota Farm Business Mgmt Education Red River Valley (Farms Sorted By Net return)

Wheat, Spring on Share Rent

('

(

(

	Avg. Of All Farms	Low 20%	High 20%
Number of fields	77	9	17
Number of farms	38	7	7
Acres Yield per acre (bushel) Operators share of yield % Value per bushel Total product return per acre Miscellaneous income per acre Gross return per acre	132.63	103.46	126.06
	49.63	45.93	55.07
	63.11	64.79	67.69
	3.39	3.56	3.49
	105.90	105.38	130.16
	14.77	3.76	19.71
	120.67	109.14	149.87
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	8.64 22.60 14.02 4.76 6.70 10.28 2.17 2.51 0.13 71.80 48.87	7.51 26.49 16.92 4.82 10.26 14.81 4.67 4.95	10.35 19.81 10.80 4.60 6.13 9.09 2.70 2.68 0.07 66.23 83.64
Overhead Expenses Custom hire Hired labor Machinery & bldg leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acr Net return per acre	0.37	2.69	0.06
	3.92	4.71	3.79
	2.60	2.42	1.68
	2.85	4.00	2.29
	1.34	1.64	1.42
	1.20	1.06	0.88
	3.23	6.13	2.20
	10.09	10.98	11.17
	2.50	4.69	1.92
	28.08	38.32	25.41
	99.88	128.75	91.64
	20.79	-19.60	58.22
Lbr & mgt charge per acre Net return over lbr & mgt Government payments Net return with govt payments	13.51	15.91	12.43
	7.29	-35.52	45.80
	19.92	16.95	24.12
	27.20	-18.57	69.92
Cost of Producton Total direct expense per bushel Total dir & ovhd exp per bushel With labor & management Total exp less govt & oth income	2.29	3.04	1.78
	3.19	4.33	2.46
	3.62	4.86	2.79
	2.51	4.17	1.62

Crop Enterprise Analysis, 2000 Minnesota and North Dakota Farm Business Mgmt Education Red River Valley (Farms Sorted By Net return)

CRP on Owned Land

	Avg. Of All Farms
Number of fields Number of farms	11 11
Acres Yield per acre (unit) Operators share of yield % Value per unit Total product return per acre Miscellaneous income per acre Gross return per acre	158.15 53.37 100.00 1.00 53.37
Direct Expenses Crop chemicals Fuel & oil Repairs Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	4.43 0.71 1.67 0.35 0.21 7.37 46.00
Overhead Expenses RE & pers. property taxes Farm insurance Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acr Net return per acre	5.63 1.71 17.68 1.09 1.30 27.25 34.63 18.74

(
(
(
(
(
(
. (
€\$ {_		
()		
<i>r</i> -		
(
(
	·	
(,		