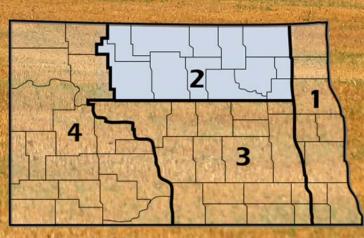
2022 ANNUAL REPORT North Central North Dakota

North Dakota Farm Management Education





www.ndfarmmanagement.com



North Dakota Department of Career and Technical Education

Mr. Wayde Sick, State Director

Board Members

Ms. Sonia Meehl, Chair	Oakes
Mr. Josh Johnson, Vice-Chair	Valley City
Ms. Kirsten Baesler	Bismarck
Mr. Pat Bertagnolli	Bismarck
Ms. Lyndsi Engstrom	Westhope
Dr. Mark Hagerott	Bismarck
Mr. Burdell Johnson	Tuttle
Mr. Mike McHugh	Mandan
Mr. Eric Nelson	Williston

The N.D. Farm Management Education Association recognizes the listed organizations for their contribution toward the production and distribution of the N.D. Farm and Ranch Business Management Regional and State Averages for 2022.

THANK YOU TO OUR STAR for sponsoring the averages:

DISTINGUISHED STAR PARTNER (\$25,000) – Twin Cities Region Northland Ford Dealers

NORTH DAKOTA FARM BUSINESS MANAGEMENT EDUCATION

REGION 2 – NORTH CENTRAL AVERAGES 2022 ANNUAL REPORT

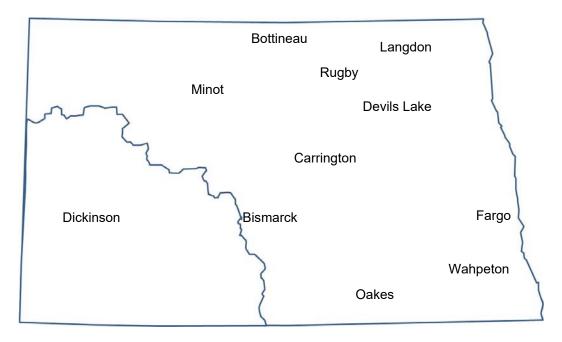
The North Central (Region 2) farm business analyses were submitted by the following instructors represented by their cooperating schools.

<u>School</u>

Instructor

Dakota College at Bottineau	Linda Burbidge
Dakota College at Bottineau - Minot	Lynsey Aberle
Dakota College at Bottineau - Rugby	Morgan Stutrud
Lake Region State College - Carrington	Jason Fewell
Lake Region State College - Devils Lake	Darren Wilcox
Lake Region State College - Langdon	Darren Wilcox

This report was made possible by the farm families who cooperated with their farm management instructors in getting the records for 2022 closed out on a timely basis. The farm management instructors cited above generated the Finpack year-end farm analyses. Bryon Parman, NDSU Extension Service, databased the Finpack analyses of farms and generated the comparative tables for this report.



2022 North Central Report North Dakota Farm Business Management Education

Introduction	. 1
Explanatory Notes for the Farm Operators' Reports	. 2
Farm Income Statement	
Inventory Changes	
Depreciation	. 10
Profitability Measures	. 11
Liquidity and Repayment Capacity Measures	. 12
Balance Sheet at Cost Values	
Statement of Cash Flows	. 14
Financial Standards Measures	. 15
Crop Production and Marketing Summary	. 16
Household and Personal Expenses	. 17
Operator and Labor Information	. 18
Nonfarm Summary	
Financial Summary (sorted by gross farm income)	20
Financial Summary (sorted by age of operator)	
Financial Summary (sorted by farm type)	
Explanatory Notes for Crop Tables	
Barley on Owned Land	. 24
Barley on Cash Rent	. 25
Canola on Owned Land	26
Canola on Cash Rent	. 27
Corn on Owned Land	. 28
Corn on Cash Rent	
Corn Silage on Owned Land	
Corn Silage on Cash Rent	
CRP on Owned Land	
Hay, Alfalfa on Owned Land	.33
Hay, Grass on Cash Rent	34
Hay, Mixed Alfalfa/Grass on Cash Rent	
Hay, Small Grain on Cash Rent	
Pasture on Owned Land	
Pasture on Cash Rent	
Peas, Field on Cash Rent	
Prevented Planting on Owned Land	
Prevented Planting on Cash Rent	
Soybeans on Owned Land	
Soybeans on Cash Rent	
Wheat, Spring on Owned Land	
Wheat, Spring on Cash Rent	45
Explanatory Notes for Livestock Tables	
Beef Cow-Calf Whole Herd w/backgrounding – Average Per Cwt. Produced	
Beef Cow-Calf Whole Herd w/backgrounding – Average Per Cow	
Figure 1. Gross Cash Income per Farm	
Figure 2. Net Farm Income (Accrual) per Farm	. 49

Figure 3. Financial Efficiency Measures	50
Figure 4. Profitability Measure per Farm	
Figure 5. Assets and Liabilities per Farm, 2022	
Figure 6. Total Farm Assets and Liabilities	51
Figure 7. Household and Personal Expenses	52
Figure 8. Crop Acreage per Farm	52
Figure 9. Spring Wheat Costs per Acre	
Figure 10. Average Net Return per Beef Cow	53

INTRODUCTION

This report summarizes the individual farm records of the specific region or the whole state as identified on the acknowledgement page. The current financial status of farm operators and net returns from each crop and livestock enterprise is reported. In addition to the average of all farms, the averages for the high, middle, and low-income groups are also presented. All participating farm/ranch families are provided a copy of the regional averages report. They can compare their own Finan business analysis to the regional and/or state averages report 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 regional and state averages reports are divided into three major sections; farm operators' reports, crop reports and livestock reports. Explanatory notes precede each section. The first section contains 15 tables with whole farm financial and operator information. The last three tables of this section are financial summaries in which farms are categorized by gross revenue, age of operator and farm type, respectively. The second section provides performance information on crop enterprises. The third section provides performance results on livestock enterprises. Lastly, figures 1 through 10 provide trend information for various measures of finance and/or production.

The 2022 summary reports are based upon data generated by the Finan individual farm analysis completed by farm/ranch families enrolled in the statewide Adult Farm and Ranch Business Management Education program in North Dakota. Instructors pooled the individual business analysis and submitted the combined school data to the FINPACK Center located at North Dakota State University. The FINPACK Center did provide schools with local averages in order to assist instructors with obtaining relevant local management trends.

Farm/ranch families enrolled in the statewide program are encouraged to request assistance from their instructors to determine short-term cash flow and long-term projections. Each instructor has access to FINPACK computer programs, which can be used to generate annual or multi-year (cash flow) farm plans and/or long term alternative projections.

This is the 34th year that the regional averages have been generated in North Dakota based upon the four regions shown in the state map on the cover of this publication. A regional report has been generated and published for Regions 2 – North Central, 3 – South Central and 4 - Western identified on the North Dakota map. Farms in Region 1 – Red River Valley are located within the Red River Valley. Those farms are contained in a combined Minnesota-North Dakota Red River Valley report. The state averages report includes all farms participating in the North Dakota Farm Business Management Education Program that were represented in the regional averages and also those farms which were processed and submitted after the March deadline date. All of these reports may be ordered from Farm Business Management, P.O. Box 6022, Bismarck, ND, 58506-6022 for \$5 per copy. The reports are available online at www.ndfarmmanagement.com.

EXPLANATORY NOTES FOR THE FARM OPERATORS' REPORTS

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

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

Farm Income Statement

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

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

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

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

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

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

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

Inventory Changes

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

Depreciation

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

Profitability Measures

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

"Rate of return on assets" is the "Return on farm assets" divided by "Average farm assets." "Rate of return on equity "is the "Return of farm equity" divided by "Average farm equity." "Operating profit margin" is the "Return on farm assets" divided by "Value of farm production."

"Asset turnover rate" is the "Value of farm production" divided by "Average farm assets."

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

"Value of operator's labor and management" is an opportunity cost for unpaid operator's labor and management that is used in the calculation of several financial performance

measures. A value of \$25,000 per full time operator plus 5% of value of farm production is used.

"Return of farm assets" is calculated by adding "Farm interest expense" to "Net farm income" and then subtracting the "Value of operator's labor and management."

"Average farm assets" is the average of beginning and ending total farm assets.

"Return on farm equity" is calculated by subtracting the "Value of operator's labor and management" from "Net farm income."

"Average farm equity" is the average of beginning and ending farm net worth.

"Value of farm production" is gross cash farm income minus purchased feed and feeder livestock and adjusted for inventory changes in crops, market livestock, accounts receivable and breeding livestock.

Liquidity & Repayment Capacity Measures

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

Balance Sheets

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

Statement of Cash Flows

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

Financial Standards Measures

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

Liquidity

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

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

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

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

Working Capital to Operating Expenses: Measures the operating capital available against the amount of the business's operating expenses.

Solvency

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

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

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

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

Profitability

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

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

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

at cost, this represents the actual return to the amount of equity capital you have invested in the farm business.

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

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

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.

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

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

Repayment Capacity

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

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

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

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

Debt Coverage Ratio: Indicates whether your business generated enough income to cover current interest expense and all intermediate and long-term debt payments.

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

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

Efficiency

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

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

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

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

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

Crop Production and Marketing Summary

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

Household and Personal Expenses

For those farms that keep records, the household and personal expenses are summarized. The farms are grouped in the same ranking as in the Income Statement. Since not all farms keep these records, the number of farms in the low profit and high profit groups may be different. Averages are determined by the number of farms keeping these records. The Statement of Cash Flows presents calculated family living and includes all farms. Income tax paid is also shown in the Statement of Cash Flows and includes all farms.

Operator and Labor Information

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

Nonfarm Summary

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

Farm Income Statement North Dakota Farm Business Management Education Program Region 2 - North Central North Dakota, 2022 (Farms Sorted By Net Farm Income)

	Avg. Of			
	All Farms	Low 20%	40 - 60%	High 20%
Number of farms	92	18	19	19
Cash Farm Income				
Barley	23,144	7,016	25,819	66,979
Beans, Black Turtle	340	-	-	-
Beans, Faba	277	-	-	1,341
Beans, Pinto	19,419	-	7,369	43,289
Canola	124,561	23,339	107,501	315,672
Corn	44,798	9,415	34,878	75,647
Flax	1,747	3,368	-	5,270
Hay, Alfalfa	78	400	-	-
Millet	254	-	1,232	-
Oats	3,477	-	-	7,294
Peas, Dry Edible	9,713	3,966	1,552	33,119
Rye	891	-	4,316	-
Soybeans	217,182	37,394	156,971	431,393
Sunflowers	25,224	10,834	5,813	79,725
Wheat, Durum	6,577	-	-	21,095
Wheat, Spring	176,916	43,633	158,612	438,500
Wheat, Winter	1,510	-	-	350
Нау	2,006	-	-	9,186
Miscellaneous crop income	942	-	3,475	367
Beef Cow-Calf, Beef Calves	19,576	31,680	16,829	10,742
Beef Replacement Heifers	2,631	614	8,573	-
Beef Backgrounding	24,079	25,252	37,662	2,129
Beef Finish Cull Cows	890	-	4,309	-
Cull breeding livestock	7,755	8,214	5,498	1,962
Misc. livestock income	313	-	181	91
Crop government payments	6,278	1,336	4,141	3,722
CRP payments	756	168	1,398	1,437
Livestock govt payments	2,460	5,006	439	729
Conservation govt payment	2,379	1,069	1,707	1,582
Other government payments	89,539	42,896	65,793	162,869
Custom work income	9,573	4,122	14,641	18,699
Patronage dividends, cash	8,064	2,377	4,328	20,146
Crop insurance income	94,627	37,516	96,437	194,196
Property insurance income	370	-	635	-
Sale of resale items	4,960	3,072	-	21,092
Livestock insurance inc	177	320	304	-
Farm rental income	2,829	528	3,438	6,001
Other farm income	12,286	9,711	7,148	24,698
Gross Cash Farm Income	948,599	313,248	781,000	1,999,322

Farm Income Statement (continued) North Dakota Farm Business Management Education Program Region 2 - North Central North Dakota, 2022 (Farms Sorted By Net Farm Income)

	Avg. Of <u>All Farms</u>	<u>Low 20%</u>	40 - 60%	
Number of farms	92	18	19	19
Cash Farm Expense Seed and plants	79,661	31,680	60,324	145,217
Fertilizer	150,142	49,699	116,024	298,546
Crop chemicals	89,118	31,825	73,908	182,473
Crop insurance	47,732	18,471	34,546	107,768
Drying expense Crop miscellaneous	261 2,112	3,197	216 4,430	8 649
Consultants	1,666		291	5,306
Feeder livestock purchase	1,323	388	3,976	-
Purchased feed	6,575	9,805	6,647	1,839
Breeding fees	187	585	351	-
Veterinary Supplies	2,293 2,177	2,827 2,564	3,374 3,685	288 654
Livestock leases	46	2,304	3,005	132
Interest	27,940	19,317	27,155	43,780
Fuel & oil	40,933	17,680	42,013	66,543
Repairs	79,992	41,032	80,883	132,733
Custom hire	18,046	10,266	14,425	32,924
Hired labor Land rent	19,568 80,285	5,160 36,291	14,807 52,931	51,089 152,291
Machinery leases	15,524	11,919	12,757	25,208
Building leases	866	53	174	2,805
Real estate taxes	4,762	2,106	4,972	7,711
Farm insurance	11,434	5,692	11,511	19,176
Utilities	7,429	3,901	8,915	12,081
Hauling and trucking Marketing	199 731	127 162	- 164	-
Dues & professional fees	3,046	2,103	2,434	3,052
Purchase of resale items	5,338	3,813	_,	22,233
Miscellaneous	10,178	2,855	7,580	23,844
Total cash expense	709,563	313,516	588,582	1,338,349
Net cash farm income	239,036	-268	192,418	660,974
Inventory Changes	47.400	2 455	002	40.470
Prepaids and supplies Accounts receivable	17,429 -10,453	-3,455 -9,514	993 16,224	40,479 -17,132
Hedging accounts	1,803	-3,514	3,947	4,472
Other current assets	-2,915	-220	-1,282	-11,461
Crops and feed	138,155	77,360	29,905	266,098
Market livestock	2,604	5,901	13,602	299
Breeding livestock	-6,454 -731	-14,470 -131	-6,638 55	-3,070 2,179
Other assets Accounts payable	1,223	-886	-64	3,750
Accrued interest	-1,012	-1,954	1,096	-674
Total inventory change	139,650	52,629	57,839	284,941
Net operating profit	378,685	52,362	250,257	945,915
Depreciation				
Machinery and equipment	-56,734	-28,055	-42,803	-126,685
Titled vehicles	-5,542	-2,309	-4,016	-8,159
Buildings and improvements	-5,514	-402	-4,579	-14,467
Total depreciation	-67,790	-30,766	-51,398	-149,311
Net farm income from operations	310,895	21,596	198,859	796,603
Gain or loss on capital sales	13,027	-868	-789	57,354
Net farm income	323,922	20,728	198,070	853,957
	-	·	,	

Inventory Changes North Dakota Farm Business Management Education Program Region 2 - North Central North Dakota, 2022 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	<u> </u>	High 20%
Number of farms	92	18	19	19
Net cash farm income	239,036	-268	192,418	660,974
Crops and Feed				
Ending inventory	529,705	161,134	328,372	1,233,921
Beginning inventory	391,549	83,774	298,466	967,822
Inventory change	138,155	77,360	29,905	266,098
Market Livestock	10.010	00.000	70.054	4 000
Ending inventory	40,910	30,688	72,054	4,803
Beginning inventory	38,306	24,787	58,452	4,503
Inventory change	2,604	5,901	13,602	299
Accts Receivable	34,967	15,368	66,130	54,982
Ending inventory				
Beginning inventory	45,420	24,882	49,906	72,114
Inventory change	-10,453	-9,514	16,224	-17,132
Prepaid Expenses and Supplies Ending inventory	88,172	11,147	61,596	224,776
Beginning inventory	70,743	14,603	60,604	184,297
Inventory change	17,429	-3,455	993	40,479
, ,	11,420	0,400	000	-0,-10
Hedging Activities				
Ending inventory	3,449	-	3,963	10,834
Withdrawals	1,940	-	2,632	579
Beginning inventory	1,524	-	2,384	3,941
Deposits	2,063	-	263	3,000
Gain or loss	1,803	-	3,947	4,472
Other Current Assets				
Ending inventory	496	426	892	1,105
Beginning inventory	3,410	646	2,173	12,566
Inventory change	-2,915	-220	-1,282	-11,461
Breeding Livestock				
Ending inventory	84,677	118,397	116,238	19,533
Capital sales	1,530	282	1,777	-
Beginning inventory	78,073	99,713	111,761	17,589
Capital purchases	14,587	33,435	12,892	5,014
Depreciation, capital adjust	-6,454	-14,470	-6,638	-3,070
Other Capital Assets	04.044	05 405	50.057	1 40 000
Ending inventory	64,214	35,495	52,257	142,822
Capital sales	1,327	559	451	2,442
Beginning inventory	62,666	35,137	48,924	136,457
Capital purchases	3,607	1,048	3,729	6,627
Depreciation, capital adjust	-731	-131	55	2,179
Accounts Payable				
Beginning inventory	9,095	6,977	4,792	13,683
Ending inventory	7,873	7,864	4,856	9,933
Inventory change	1,223	-886	-64	3,750
Accrued Interest	44 704	0.400	44.000	04.070
Beginning inventory	14,791	9,189	14,968	24,678
Ending inventory	15,803	11,143	13,872	25,352
Inventory change	-1,012	-1,954	1,096	-674
Total inventory change	139,650	52,629	57,839	284,941
Net operating profit	378,685	52,362	250,257	945,915
	510,000	02,002	200,207	0-0,010

Depreciation North Dakota Farm Business Management Education Program Region 2 - North Central North Dakota, 2022 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	
Number of farms	92	18	19	19
Net operating profit	378,685	52,362	250,257	945,915
Machinery and Equipment				
Ending inventory	643,573	226,789	566,811	1,455,314
Capital sales	62,094	21,573	14,405	215,903
Beginning inventory	600,166	198,443	523,180	1,377,749
Capital purchases	162,235	77,975	100,839	420,153
Depreciation, capital adjust.	-56,734	-28,055	-42,803	-126,685
Titled Vehicles				
Ending inventory	69,872	45,439	66,135	88,322
Capital sales	4,163	1,889	4,875	8,179
Beginning inventory	62,482	41,863	58,948	77,973
Capital purchases	17,095	7,774	16,078	26,686
Depreciation, capital adjust.	-5,542	-2,309	-4,016	-8,159
Buildings and Improvements				
Ending inventory	176,002	45,729	201,037	389,033
Capital sales	418	-	-	2,024
Beginning inventory	143,665	33,245	173,956	336,567
Capital purchases	38,269	12,886	31,660	68,957
Depreciation, capital adjust.	-5,514	-402	-4,579	-14,467
Total depreciation, capital adj.	-67,790	-30,766	-51,398	-149,311
Net farm income from operations	310,895	21,596	198,859	796,603
Gain or loss on capital sales	13,027	-868	-789	57,354
Net farm income	323,922	20,728	198,070	853,957

Profitability Measures North Dakota Farm Business Management Education Program Region 2 - North Central North Dakota, 2022 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	
Number of farms	92	18	19	19
Profitability (assets valued at cost)				
Net farm income from operations	310,895	21,596	198,859	796,603
Rate of return on assets	11.2 %	-0.1 %	7.1 %	15.1 %
Rate of return on equity	15.5 %	-8.1 %	9.8 %	19.3 %
Operating profit margin	24.3 %	-0.2 %	18.4 %	31.3 %
Asset turnover rate	46.1 %	39.7 %	38.7 %	48.4 %
Farm interest expense	28,952	21,271	26,058	44,454
Value of operator lbr and mgmt.	82,318	43,709	73,068	146,866
Return on farm assets	257,530	-842	151,849	694,192
Average farm assets	2,296,126	903,088	2,139,049	4,582,197
Return on farm equity	228,577	-22,113	125,791	649,738
Average farm equity	1,473,975	274,437	1,286,049	3,370,526
Value of farm production	1,057,921	358,388	827,473	2,216,637
	Avg. Of			
	All Farms	_Low 20%	40 - 60%	High 20%
Number of farms	92	18	19	19
Profitability (assets valued at market)				
Net farm income from operations	395,615	30,300	303,154	922,581
Rate of return on assets	12.5 %	0.7 %	9.7 %	15.6 %
Rate of return on equity	16.3 %	-2.3 %	12.8 %	19.1 %
Operating profit margin	32.4 %	2.2 %	31.0 %	37.0 %
Asset turnover rate	38.6 %	29.8 %	31.3 %	42.1 %
Farm interest expense	28,952	21,271	26,058	44,454
Value of operator lbr and mgmt.	82,318	43,709	73,068	146,866
Return on farm assets	342,249	7,862	256,145	820,169
Average farm assets	2,741,125	1,202,719	2,644,954	5,263,584
Return on farm equity	313,297	-13,409	230,086	775,715
Average farm equity	1,918,974	574,067	1,791,954	4,051,913
Value of farm production	1,057,921	358,388	827,473	2,216,637

Liquidity & Repayment Capacity Measures North Dakota Farm Business Management Education Program Region 2 - North Central North Dakota, 2022 (Farms Sorted By Net Farm Income)

	Avg. Of			
	All Farms	Low 20%	40 - 60%	High 20%
Number of farms	92	18	19	19
Liquidity				
Current ratio	3.03	1.74	1.99	4.70
Working capital	525,433	115,138	294,646	1,366,140
Change in working capital	106,020	-46,723	-13,613	381,598
Working capital to gross revenue	49.1 %	30.9 %	35.2 %	61.0 %
Working capital to oper expense	79.2 %	38.5 %	52.4 %	109.3 %
Current assets	784,455	271,199	593,535	1,735,323
Current liabilities	259,022	156,061	298,888	369,183
Gross revenues (accrual)	1,071,156	372,393	838,096	2,240,708
Total operating expenses	663,519	298,760	561,781	1,250,339
Repayment capacity				
Net farm income from operations	310,895	21,596	198,859	796,603
Depreciation	67,790	30,766	51,398	149,311
Personal income	32,194	28,477	27,518	25,583
Family living/owner withdrawals	-88,584	-48,960	-90,977	-143,204
Cash discrepancy	23	59	-48	37
Income taxes	-16,676	-3,290	-10,487	-47,278
Interest expense	28,952	21,271	26,058	44,454
Debt repayment capacity	337,332	51,499	205,038	828,246
Debt payments	102,423	64,363	85,763	171,753
Repayment margin	234,909	-12,864	119,276	656,493
Cash replacement allowance	-34,978	-10,801	-34,270	-80,059
Replacement margin	199,931	-23,664	85,006	576,434
Debt coverage ratio	3.29	0.80	2.39	4.82
Term debt coverage ratio	3.40	0.78	2.44	4.80
Replacement coverage ratio	2.46	0.69	1.71	3.29

Balance Sheet at Cost Values North Dakota Farm Business Management Education Program Region 2 - North Central North Dakota, 2022 (Farms Sorted By Net Farm Income)

	Av <u>g</u> . Of <u>All Farms</u>	Low 20%	<u> </u>	 High 20%
Number of farms	92	18	19	19
Assets				
Current Farm Assets Cash and checking balance Prepaid expenses & supplies Growing crops	86,757 88,172	52,436 11,147	60,528 61,596	204,903 224,776
Accounts receivable Hedging accounts Crops held for sale or feed	34,967 3,449 529,705	15,368 - 161,134	66,130 3,963 328,372	- 54,982 10,834 1,233,921
Crops under government loan Market livestock held for sale Other current assets Total current farm assets	- 40,910 496 784,455	- 30,688 426 271,199	- 72,054 892 593,535	- 4,803 1,105 1,735,323
Intermediate Farm Assets	,	,		.,
Breeding livestock Machinery and equipment Titled vehicles Other intermediate assets Total intermediate farm assets	84,677 643,573 69,872 43,484 841,605	118,397 226,789 45,439 14,159 404,784	116,238 566,811 66,135 32,952 782,135	19,533 1,455,314 88,322 90,311 1,653,480
Long Term Farm Assets Farm land Buildings and improvements Other long-term assets Total long-term farm assets Total Farm Assets	611,539 176,002 20,730 808,271 2,434,331	214,193 45,729 21,336 281,258 957,241	648,892 201,037 19,305 869,234 2,244,904	1,041,709 389,033 52,510 1,483,252 4,872,055
Total Nonfarm Assets Total Assets	384,430 2,818,762	194,742 1,151,983	270,145 2,515,050	695,112 5,567,167
Liabilities Current Farm Liabilities Accrued interest Accounts payable Current notes Government crop loans Principal due on term debt	15,803 7,873 167,937 - -	11,143 7,864 94,402 42,653	13,872 4,856 211,720 68,441	25,352 9,933 217,294 - 116,604
Total current farm liabilities	259,022	156,061	298,888	369,183
Total intermediate farm liabs Total long term farm liabilities Total farm liabilities	177,159 412,680 848,861	139,087 401,379 696,527	187,047 420,755 906,690	264,177 549,181 1,182,541
Total nonfarm liabilities Total liabilities	92,526 941,387	64,312 760,839	87,603 994,293	109,624 1,292,165
Net worth (farm and nonfarm) Net worth change Percent net worth change	1,877,374 242,138 15 %	391,144 -16,157 -4 %	1,520,757 111,205 8 %	4,275,002 684,437 19 %
Ratio Analysis Current farm liabilities / assets Intermediate farm liab. / assets Long term farm liab. / assets Total debt to asset ratio	33 % 21 % 51 % 33 %	58 % 34 % 143 % 66 %	50 % 24 % 48 % 40 %	21 % 16 % 37 % 23 %

Statement Of Cash Flows North Dakota Farm Business Management Education Program Region 2 - North Central North Dakota, 2022 (Farms Sorted By Net Farm Income)

	Avg. Of			
	All Farms	Low 20%	40 - 60%	High 20%
Number of farms	92	18	19	19
Beginning cash (farm & nonfarm)	108,198	118,076	65,851	198,591
Cash Provided By Operating Activities				
Gross cash farm income	948,599	313,248	781,000	1,999,322
Total cash farm expense	-709,563	-313,516	-588,582	-1,338,349
Net cash from hedging transactions	-122	-	2,368	-2,421
Cash provided by operating	238,913	-268	194,786	658,553
Cash Provided By Investing Activities				
Sale of breeding livestock	1,575	282	1,777	-
Sale of machinery & equipment	74,263	20,594	14,255	268,636
Sale of titled vehicles	4,948	2,000	4,237	12,800
Sale of farm land	200	304	-	-
Sale of farm buildings	418	-	-	2,024
Sale of other farm assets	1,355	559	451	2,442
Sale of nonfarm assets	5,061	1,128	3,460	2,099
Purchase of breeding livestock	-14,587	-33,435	-12,892	-5,014
Purchase of machinery & equip.	-162,235	-77,975	-100,839	-420,153
Purchase of titled vehicles	-17,095	-7,774	-16,078	-26,686
Purchase of farm land	-48,211	-38,944	-57,789	-113,335
Purchase of farm buildings	-38,269	-12,886	-31,660	-68,957
Purchase of other farm assets	-3,607	-1,048	-3,729	-6,627
Purchase of nonfarm assets	-48,030	-42,119	-43,366	-80,291
Cash provided by investing	-244,214	-189,314	-242,172	-433,063
Cash Provided By Financing Activities				
Money borrowed	597,344	379,042	548,570	1,053,702
Principal payments	-525,264	-229,897	-420,058	-1,079,576
Personal income	32,194	28,477	27,518	25,583
Family living/owner withdrawals	-88,584	-48,960	-90,977	-143,204
Income and social security tax	-16,661	-3,290	-10,487	-46,857
Capital contributions	819	, -	-	211
Capital distributions	-2,626	-	-32	-
Dividends paid	-	-	-	-
Cash gifts and inheritances	1,086	278	211	526
Gifts given	-23			
Other cash flows		-	-	-
Cash provided by financing	-1,715	125,649	54,745	-189,614
Net change in cash balance	-7,016	-63,933	7,359	35,876
Ending cash (farm & nonfarm)	101,205	54,203	73,162	234,504
Discrepancy	-23	-59	48	-37

Financial Standards Measures North Dakota Farm Business Management Education Program Region 2 - North Central North Dakota, 2022 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	92	18	19	19
Liquidity				
Current ratio	3.03	1.74	1.99	4.70
Working capital to gross revenue	49.1 %	30.9 %	35.2 %	61.0 %
Working capital to oper expense	79.2 %	38.5 %	52.4 %	109.3 %
Solvency (market)				
Farm debt to asset ratio	29 %	55 %	32 %	21 %
Farm equity to asset ratio	71 %	45 %	68 %	79 %
Farm debt to equity ratio	0.41	1.23	0.48	0.27
Profitability (cost)				
Rate of return on farm assets	11.2 %	-0.1 %	7.1 %	15.1 %
Rate of return on farm equity	15.5 %	-8.1 %	9.8 %	19.3 %
Operating profit margin	24.3 %	-0.2 %	18.4 %	31.3 %
Asset turnover rate	46.1 %	39.7 %	38.7 %	48.4 %
Repayment Capacity				
Debt coverage ratio	3.29	0.80	2.39	4.82
Term debt coverage ratio	3.40	0.78	2.44	4.80
Replacement coverage ratio	2.46	0.69	1.71	3.29
Efficiency				
Operating expense ratio	61.9 %	80.2 %	67.0 %	55.8 %
Depreciation expense ratio	6.3 %	8.3 %	6.1 %	6.7 %
Interest expense ratio	2.7 %	5.7 %	3.1 %	2.0 %
Net farm income ratio	29.0 %	5.8 %	23.7 %	35.6 %

Crop Production and Marketing Summary North Dakota Farm Business Management Education Program Region 2 - North Central North Dakota, 2022 (Farms Sorted By Net Farm Income)

	Avg. Of			
	All Farms	Low 20%	40 - 60%	High 20%
Number of farms	92	18	19	19
Acreage Summary				
Total acres owned	753	381	993	953
Total crop acres	1,911	791	1,645	3,563
Crop acres owned	448	190	583	660
Crop acres cash rented	1,341	537	998	2,623
Crop acres share rented	121	65	64	280
Total pasture acres	367	583	507	131
Percent crop acres owned	23 %	24 %	35 %	19 %
Mach invest/crop acre cost	358	301	369	421
Mach invest/crop acre market	436	394	454	504
Average Price Received (Cash Sales				
Soybeans per bushel	13.40	13.08	13.22	13.52
Wheat, Spring per bushel	9.10	8.88	9.31	9.10
Canola per cwt	29.21	-	29.42	29.46
Corn per bushel	6.34	-	6.54	6.01
Barley per bushel	6.25	-	-	5.56
Sunflowers per cwt	31.64	-	-	-
Wheat, Durum per bushel	14.38	-	-	-
Beans, Pinto per cwt	41.73	-	-	-
Average Yield Per Acre	== 0.4	40.50	40.00	
Wheat, Spring (bushel)	55.61	49.52	49.38	64.68
Soybeans (bushel)	33.35	-	29.98	37.92
Canola (cwt)	20.22	-	18.96	21.83
Barley (bushel)	73.46	51.41	67.20	84.25
Corn (bushel)	112.39	-	99.74	126.12
Hay, Mixed Alfalfa/Grass (ton)	1.87	1.69	-	1.32
Hay, Small Grain (ton)	1.87	1.96	2.23	1.52
Hay, Grass (ton)	1.39	1.78	-	1.87
Corn Silage (ton)	14.20	12.39	15.06	-
Hay, Alfalfa (ton)	1.75	-	-	1.70
Hay (ton)	1.89	-	-	-
Beans, Pinto (cwt)	18.90	-	-	18.37
Sunflowers (cwt)	23.65	-	-	23.05
Hay, Mixed (ton)	1.49	-	-	-
Oats (bushel)	82.08	-	-	-
Wheat, Durum (bushel)	58.87	-	-	63.08
Sunflowers, Confectionary (cwt)	14.72	-	-	-
Flax (bushel)	15.27	-	-	-

Household and Personal Expenses North Dakota Farm Business Management Education Program Region 2 - North Central North Dakota, 2022 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%
Number of farms	32	5	9
Average family size	3.3	2.2	3.7
Family Living Expenses			
Food and meals expense	11,489	9,902	9,927
Medical care	7,197	10,455	8,523
Health insurance	5,659	8,423	4,736
Cash donations	1,455	381	982
Household supplies	11,603	13,726	13,146
Clothing	2,471	3,082	2,708
Personal care	6,818	2,802	9,005
Child / Dependent care	1,827	1,391	862
Alimony and child support	-	-	-
Gifts	2,458	3,282	2,239
Education	1,377	769	3,032
Recreation	4,282	1,944	4,145
Utilities (household share)	4,338	3,831	4,102
Personal vehicle operating exp	3,247	684	4,861
Household real estate taxes	86	-	-
Dwelling rent	328	880	678
Household repairs	3,717	1,452	4,083
Personal interest	2,363	334	2,659
Disability / Long term care ins	427	1,192	15
Life insurance payments	4,179	12,716	2,488
Personal property insurance	562	-	659
Miscellaneous	8,149	7,119	4,284
Total cash family living expense	84,033	84,366	83,135
Family living from the farm	-	-	-
Total family living	84,033	84,366	83,135
Other Nonfarm Expenditures			
Income taxes	11,537	7,988	11,340
Furnishing & appliance purchases	681	3,600	-
Nonfarm vehicle purchases	9,797	13,467	10,869
Nonfarm real estate purchases	28,108	-	50,845
Other nonfarm capital purchases	1,457	1,324	2,222
Nonfarm savings & investments	6,138	9,211	1,916
Total other nonfarm expenditures	57,718	35,589	77,191
Total cash family living			
investment & nonfarm capital purch	141,751	119,955	160,326

Operator and Labor Information North Dakota Farm Business Management Education Program Region 2 - North Central North Dakota, 2022 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	
Number of farms	92	18	19	19
Operator Information				
Average number of operators	1.1	1.0	1.1	1.3
Average age of operators	44.9	36.4	49.2	48.5
Average number of years farming	21.3	14.2	25.2	26.0
Results Per Operator				
Working capital	473,920	115,138	266,585	1,081,528
Total assets (market)	3,031,747	1,467,554	2,814,118	5,042,912
Total liabilities	849,094	760,839	899,598	1,022,964
Net worth (market)	2,182,652	706,714	1,914,520	4,019,948
Net worth excl deferred liabs	2,182,652	706,714	1,914,520	4,019,948
Gross farm income	966,141	372,393	758,277	1,773,894
Total farm expense	685,726	350,797	578,357	1,143,250
Net farm income from operations	280,415	21,596	179,920	630,644
Net nonfarm income	29,038	28,477	24,897	20,254
Family living & tax withdrawals	94,920	52,191	91,843	150,769
Total acres owned	679.0	380.7	898.6	754.2
Total crop acres	1,723.4	790.9	1,488.2	2,820.8
Crop acres owned	404.4	189.7	527.1	522.7
Crop acres cash rented	1,209.9	536.5	903.0	2,076.8
Crop acres share rented	109.1	64.7	58.1	221.4
Total pasture acres	330.6	583.4	459.0	103.9
Labor Analysis				
Number of farms	92	18	19	19
Total unpaid labor hours	2,209	1,722	2,363	2,758
Total hired labor hours	675	169	455	1,701
Total labor hours per farm	2,884	1,892	2,818	4,459
Unpaid hours per operator	1,992	1,722	2,138	2,183
Value of farm production / hour	366.83	189.46	293.64	497.16
Net farm income / unpaid hour	140.76	12.54	84.15	288.84
Average hourly hired labor wage	28.28	24.81	28.55	28.14

Nonfarm Summary North Dakota Farm Business Management Education Program Region 2 - North Central North Dakota, 2022 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	
Number of farms	92	18	19	19
Nonfarm Income				
Personal wages & salary	19,217	14,128	21,717	9,056
Net nonfarm business income	1,538	2,059	1,206	1,357
Personal rental income	326	-	-	283
Personal interest income	49	15	26	175
Tax refunds	1,458	2,253	774	860
Other nonfarm income	9,607	10,023	3,794	13,852
Total nonfarm income	32,194	28,477	27,518	25,583
Gifts and inheritances	1,086	278	211	526
Nonfarm Assets (market)				
Checking & savings	14,448	1,767	12,634	29,601
Stocks & bonds	29,667	2,541	18,896	50,638
Other current assets	2,508	3,450	-	8,875
Furniture & appliances	5,036	6,590	4,789	2,587
Nonfarm vehicles	35,187	14,513	38,924	47,904
Cash value of life ins.	14,802	3,417	9,898	30,830
Retirement accounts	116,109	27,683	77,078	256,492
Other intermediate assets	2,812	1,333	4,466	2,937
Nonfarm real estate	194,591	139,994	130,751	238,947
Personal bus. investment	1,258	-	-	6,094
Other long term assets	23,176	5,041	9,947	78,660
Total nonfarm assets	439,594	206,330	307,384	753,564
Nonfarm Liabilities				
Accrued interest	619	759	890	120
Accounts payable	2,775	1,828	5,878	166
Current notes	380	317	278	239
Princ due on term debt	5,877	3,410	5,101	5,972
Total current liabilities	13,853	6,536	12,411	23,339
Intermediate liabilities	13,523	21,505	14,255	13,976
Long term liabilities	65,151	36,271	60,937	72,309
Total nonfarm liabilities	92,526	64,312	87,603	109,624
Nonfarm net worth	347,068	142,018	219,782	643,940
Nonfarm debt to asset ratio	21 %	31 %	28 %	15 %

Financial Summary North Dakota Farm Business Management Education Program Region 2 - North Central North Dakota, 2022 (Farms Sorted By Gross Farm Income)

	•						
	Avg. Of All Farms	Less than 100,000	100,001 - 250,000	250,001 - 500,000	500,001 - 1,000,000	1,000,001- 2,000,000	Over 2,000,000
Number of farms	92	6	12	13	21	31	9
Income Statement							
Gross cash farm income	948,599	66,225	172,058	355,762	741,813	1,325,921	2,611,389
Total cash farm expense	709,563	44,429	138,434	294,208	600,030	1,041,581	1,626,409
Net cash farm income Inventory change	239,036 139,650	21,796 8,410	33,624 24,289	61,554 86,936	141,783 154,673	284,341 198,749	984,980 218,478
Depreciation	-67,790	-4,882	-7,592	-19,183	-45,327	-101,029	-198,125
Net farm income from operations	310,895	25,324	50,321	129,307	251,128	382,061	1,005,333
Gain or loss on capital sales	13,027	333	-17	3,266	3,820	9,490	86,644
Average net farm income	323,922	25,658	50,303	132,573	254,948	391,551	1,091,977
Median net farm income	195,712	24,408	56,622	131,546	194,206	414,341	873,297
Profitability (cost)		• • • • •		10.001	10.00	10 - 01	
Rate of return on assets	11.2 %	3.4 %	4.5 %	10.0 %	10.2 %	10.5 %	14.3 %
Rate of return on equity Operating profit margin	15.5 % 24.3 %	5.0 % 9.2 %	6.2 % 13.0 %	23.5 % 24.2 %	14.3 % 23.2 %	14.1 % 21.1 %	18.2 % 32.6 %
Asset turnover rate	46.1 %	37.1 %	34.3 %	41.1 %	43.9 %	50.1 %	43.9 %
Profitability (market)							
Rate of return on assets	12.5 %	4.5 %	4.8 %	9.7 %	13.0 %	12.2 %	14.5 %
Rate of return on equity	16.3 %	7.6 %	6.3 %	15.3 %	17.5 %	15.6 %	17.9 %
Operating profit margin	32.4 %	12.6 %	16.3 %	33.5 %	35.5 %	29.0 %	37.8 %
Asset turnover rate	38.6 %	36.0 %	29.4 %	28.8 %	36.7 %	42.0 %	38.5 %
Liquidity & Repayment (end of year)	794 466	60.252	146.514	200 515	625.949	1 070 050	0 100 007
Current assets Current liabilities	784,455 259.022	60,252 31,860	78,648	288,515 139,556	625,848 247,657	1,078,258 378,349	2,192,297 439,027
Current ratio	3.03	1.89	1.86	2.07	2.53	2.85	4.99
Working capital	525,433	28,392	67,866	148,960	378,191	699,909	1,753,270
Change in working capital	106,020	14,303	23,530	29,002	84,800	90,081	492,811
Working capital to gross revenue	49.1 %	39.9 %	33.9 %	33.9 %	42.3 %	47.0 %	63.1 %
Working capital to oper expense	79.2 %	73.7 %	51.3 %	55.6 %	66.1 %	72.0 %	116.1 %
Debt coverage ratio	3.29 3.40	1.67 1.57	1.29 1.33	2.55 2.58	2.55 2.67	3.47 3.60	4.55 4.59
Term debt coverage ratio Replacement coverage ratio	3.40 2.46	1.57	1.33	2.08	2.07	2.45	4.59 3.08
Term debt to EBITDA	1.39	1.57	3.45	3.38	1.67	1.23	0.92
Solvency (end of year at cost)							
Number of farms	92	6	12	13	21	31	9
Total assets	2,818,762	257,367	701,854	1,384,215	2,450,241	3,645,815	7,432,168
Total liabilities	941,387	145,774	397,025	828,794	898,673	1,160,181	1,706,288
Net worth	1,877,374	111,593	304,829	555,421	1,551,567	2,485,633	5,725,880
Net worth change Farm debt to asset ratio	242,138 35 %	22,134 61 %	45,264 56 %	77,829 66 %	187,873 38 %	288,642 33 %	855,078 25 %
Total debt to asset ratio	33 %	57 %	57 %	60 %	37 %	32 %	23 %
Change in earned net worth %	15 %	25 %	17 %	16 %	14 %	13 %	18 %
Solvency (end of year at market)							
Number of farms	92	6	12	13	21	31	9
Total assets	3,361,284	264,720	815,772	1,875,016	2,970,730	4,368,296	8,409,210
Total liabilities	941,387	145,774	397,025	828,794	898,673	1,160,181	1,706,288
Net worth	2,419,897	118,946	418,747	1,046,221	2,072,057	3,208,114	6,702,922
Total net worth change Farm debt to asset ratio	328,136 29 %	25,022 59 %	51,236 48 %	121,400 46 %	284,156 31 %	415,395 28 %	1,000,094 21 %
Total debt to asset ratio	28 %	55 %	40 %	40 %	30 %	20 %	20 %
Change in total net worth %	16 %	27 %	14 %	13 %	16 %	15 %	18 %
Nonfarm Information							
Net nonfarm income	32,194	32,490	19,361	38,281	36,876	32,895	26,975
Farms reporting living expenses	32	1	2	7	. 11	11	-
Total family living expense Total living, invest, cap, purch	84,033 141,751	-	-	59,701 119,333	87,454 155,036	108,961 170,788	-
	,				,		
Crop Acres Total crop acres	1,911	104	498	809	1,756	2,676	4,314
Total crop acres owned	448	-	63	349	522	514	1,007
Total crop acres cash rented	1,341	104	284	438	1,160	2,057	2,842
Total crop acres share rented Machinery value per crop acre	121 436	- 312	150 244	23 284	74 356	106 447	465 561
machinery value per crop acre	430	312	244	204	300	447	501

Financial Summary North Dakota Farm Business Management Education Program Region 2 - North Central North Dakota, 2022 (Farms Sorted By Age of Operator)

	Avg. Of All Farms	Less Than 31	<u> 31 - 40</u>	41 - 50	51 - 60	Over 60
Number of farms	92	20	23	11	21	17
Income Statement Gross cash farm income Total cash farm expense Net cash farm income Inventory change Depreciation Net farm income from operations Gain or loss on capital sales Average net farm income Median net farm income	948,599 709,563 239,036 139,650 -67,790 310,895 13,027 323,922 195,712	354,394 273,881 80,513 38,388 -15,940 102,962 1,910 104,872 37,201	869,023 685,310 183,713 160,224 -51,036 292,900 8,615 301,515 197,217	1,493,102 1,142,827 350,274 285,671 -129,758 506,188 16,922 523,110 283,114	$1,084,694\\823,140\\261,554\\191,276\\-87,373\\365,456\\14,948\\380,404\\280,760$	1,234,882 834,295 400,587 72,686 -87,167 386,105 27,180 413,285 309,114
Profitability (cost) Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	11.2 % 15.5 % 24.3 % 46.1 %	10.3 % 19.6 % 18.5 % 55.3 %	13.5 % 22.7 % 24.4 % 55.6 %	12.3 % 21.0 % 27.1 % 45.4 %	10.6 % 13.7 % 24.3 % 43.8 %	9.5 % 10.7 % 24.0 % 39.6 %
Profitability (market) Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	12.5 % 16.3 % 32.4 % 38.6 %	11.2 % 20.2 % 22.1 % 50.9 %	16.3 % 25.5 % 33.2 % 49.0 %	15.4 % 23.6 % 41.3 % 37.2 %	11.3 % 13.8 % 31.8 % 35.5 %	9.1 % 10.0 % 27.8 % 32.9 %
Liquidity & Repayment (end of year) Current assets Current liabilities Current ratio Working capital Change in working capital Working capital to gross revenue Working capital to oper expense Debt coverage ratio Term debt coverage ratio Replacement coverage ratio Term debt to EBITDA	$784,455 \\ 259,022 \\ 3.03 \\ 525,433 \\ 106,020 \\ 49.1 \% \\ 79.2 \% \\ 3.29 \\ 3.40 \\ 2.46 \\ 1.39 \\$	$\begin{array}{c} 261,542\\ 111,218\\ 2.35\\ 150,324\\ 24,918\\ 38.5\ \%\\ 57.6\ \%\\ 2.26\\ 2.33\\ 2.09\\ 2.07\\ \end{array}$	$556,305 \\ 247,808 \\ 2.24 \\ 308,497 \\ 74,751 \\ 31.0 % \\ 49.4 \% \\ 3.06 \\ 3.17 \\ 2.58 \\ 1.67 \\ \end{cases}$	$\begin{array}{c} 1,167,314\\ 523,292\\ 2.23\\ 644,022\\ 136,597\\ 36.8\ \%\\ 62.2\ \%\\ 3.20\\ 3.32\\ 2.34\\ 1.91\end{array}$	$\begin{array}{c} 1,040,519\\ 304,442\\ 3.42\\ 736,077\\ 162,516\\ 58.4\ \%\\ 94.7\ \%\\ 3.48\\ 3.54\\ 2.39\\ 1.20\\ \end{array}$	1,144,273 220,977 5.18 923,296 154,164 71.0 % 114.1 % 4.03 4.18 2.67 0.64
Solvency (end of year at cost) Number of farms Total assets Total liabilities Net worth Net worth change Farm debt to asset ratio Total debt to asset ratio Change in earned net worth %	92 2,818,762 941,387 1,877,374 242,138 35 % 33 % 15 %	20 873,777 485,661 388,117 82,755 56 % 56 % 27 %	23 2,213,140 1,019,121 1,194,019 232,399 45 % 46 % 24 %	11 4,640,258 2,201,878 2,438,380 430,575 50 % 47 % 21 %	21 3,423,193 936,183 2,487,010 272,586 30 % 27 % 12 %	17 4,001,084 563,185 3,437,899 283,281 14 % 14 % 9 %
Solvency (end of year at market) Number of farms Total assets Total liabilities Net worth Total net worth change Farm debt to asset ratio Total debt to asset ratio Change in total net worth %	92 3,361,284 941,387 2,419,897 328,136 29 % 28 % 16 %	20 946,657 485,661 460,997 95,805 51 % 51 % 26 %	23 2,556,425 1,019,121 1,537,304 327,238 40 % 40 % 27 %	11 5,628,603 2,201,878 3,426,725 679,953 41 % 39 % 25 %	21 4,209,694 936,183 3,273,511 376,012 24 % 22 % 13 %	17 4,775,827 563,185 4,212,642 315,894 12 % 12 % 8 %
Nonfarm Information Net nonfarm income Farms reporting living expenses Total family living expense Total living, invest, cap. purch	32,194 32 84,033 141,751	22,380 3 -	39,858 14 85,775 142,337	38,161 3 - -	13,542 5 107,794 146,975	52,551 7 76,167 175,322
Crop Acres Total crop acres Total crop acres owned Total crop acres cash rented Total crop acres share rented Machinery value per crop acre	1,911 448 1,341 121 436	792 103 612 78 231	1,787 222 1,512 53 374	3,049 854 1,771 424 513	2,388 584 1,701 102 421	2,069 730 1,248 91 550

Financial Summary North Dakota Farm Business Management Education Program Region 2 - North Central North Dakota, 2022 (Farms Sorted By Farm Type)

	Avg. Of All Farms	Crop	Beef	Crop and Beef
Number of farms	92	76	9	6
Income Statement				
Gross cash farm income	948,599	1,064,886	154,001	787,533
Total cash farm expense	709,563	791,740	124,007	642,210
Net cash farm income	239,036	273,146	29,994	145,323
Inventory change Depreciation	139,650 -67,790	156,588 -76,328	21,989 -7,796	128,076 -59,669
Net farm income from operations	310,895	353,405	44,188	213,730
Gain or loss on capital sales	13,027	15,661	-	1,401
Average net farm income	323,922	369,067	44,188	215,131
Median net farm income	195,712	229,746	35,658	272,639
Profitability (cost)	44.0.0/		4.0.0/	7 5 0/
Rate of return on assets Rate of return on equity	11.2 % 15.5 %	11.7 % 16.2 %	4.2 % 5.3 %	7.5 % 9.3 %
Operating profit margin	24.3 %	24.7 %	18.3 %	20.4 %
Asset turnover rate	46.1 %	47.6 %	23.0 %	36.9 %
Profitability (market)				
Rate of return on assets	12.5 %	13.1 %	4.2 %	9.1 %
Rate of return on equity Operating profit margin	16.3 % 32.4 %	17.0 % 32.8 %	4.9 % 22.5 %	11.2 % 28.6 %
Asset turnover rate	38.6 %	39.9 %	18.9 %	31.9 %
Liquidity & Repayment (end of year)				
Current assets	784,455	869,439	149,975	743,250
Current liabilities	259,022	274,818	85,453	345,173
Current ratio	3.03 525,433	3.16 594,620	1.76 64,521	2.15 398,077
Working capital Change in working capital	106,020	117,852	27,560	82.332
Working capital to gross revenue	49.1 %	49.4 %	35.9 %	45.7 %
Working capital to oper expense	79.2 %	80.0 %	59.4 %	69.9 %
Debt coverage ratio	3.29	3.45	1.39	2.55
Term debt coverage ratio Replacement coverage ratio	3.40 2.46	3.54 2.52	1.45 1.30	2.66 2.24
Term debt to EBITDA	1.39	1.31	5.71	1.45
Solvency (end of year at cost)				
Number of farms	92	76	9	6
Total assets Total liabilities	2,818,762 941,387	3,113,881 1,010,203	800,160 539,393	2,444,363 776,047
Net worth	1,877,374	2,103,677	260,767	1,668,316
Net worth change	242,138	273,529	46,946	169,718
Farm debt to asset ratio	35 %	34 %	70 %	32 %
Total debt to asset ratio	33 %	32 %	67 %	32 %
Change in earned net worth %	15 %	15 %	22 %	11 %
Solvency (end of year at market) Number of farms	92	76	9	6
Total assets	3,361,284	3,710,433	963,715	2,832,603
Total liabilities	941,387	1,010,203	539,393	776,047
Net worth	2,419,897	2,700,229	424,322	2,056,556
Total net worth change	328,136	371,463	54,762	239,442
Farm debt to asset ratio Total debt to asset ratio	29 % 28 %	28 % 27 %	58 % 56 %	28 % 27 %
Change in total net worth %	16 %	16 %	15 %	13 %
Nonfarm Information				
Net nonfarm income	32,194	35,105	23,117	10,077
Farms reporting living expenses	32 84 033	28	2	2
Total family living expense Total living, invest, cap. purch	84,033 141,751	90,362 155,897	-	-
Crop Acres				
Total crop acres	1,911	2,130	518	1,489
Total crop acres owned	448	471	158	618
Total crop acres cash rented Total crop acres share rented	1,341 121	1,542 117	228 131	694 177
Machinery value per crop acre	436	442	176	472

EXPLANATORY NOTES FOR CROPS TABLES

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

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

Coronavirus Food Assistance Program 3, a 2020 USDA FSA program that provides producers with financial assistance that gives them the ability to absorb some of the increased marketing costs associated with the COVID-19 pandemic, are included under "Other crop income per acre." "Government payments" are ARC and PLC payments as well as Coronavirus Food Assistance Program 1.

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

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

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

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

Barley on Owned Land

	Avg. Of All Farms
Number of farms	5
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Crop insurance per acre Gross return per acre	163.40 65.50 100.00 7.15 468.16 14.46 482.62
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Operating interest Total direct expenses per acre Return over direct exp per acre	25.80 89.31 38.15 29.69 16.96 40.60 3.24 243.75 238.87
Overhead Expenses Custom hire Hired labor Machinery leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	$\begin{array}{c} 0.99\\ 13.06\\ 21.53\\ 8.93\\ 6.47\\ 4.35\\ 1.03\\ 23.93\\ 46.44\\ 3.62\\ 130.36\\ 374.12\\ 108.50\end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	108.50 36.65 71.86
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	3.72 5.71 5.49 6.05
Net value per unit Machinery cost per acre Est. labor hours per acre	7.15 130.71 1.17

Barley on Cash Rent

	Avg. Of All Farms
Number of farms	9
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Crop insurance per acre Gross return per acre	371.37 63.72 100.00 7.13 454.39 28.63 483.02
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Land rent Hauling and trucking Operating interest Total direct expenses per acre Return over direct exp per acre	$\begin{array}{c} 25.43\\ 95.45\\ 43.39\\ 23.63\\ 21.72\\ 54.61\\ 2.75\\ 58.61\\ 3.13\\ 6.35\\ 335.08\\ 147.94\end{array}$
Overhead Expenses Custom hire Hired labor Machinery leases Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	$\begin{array}{c} 6.39\\ 13.86\\ 9.38\\ 0.81\\ 10.17\\ 4.90\\ 2.18\\ 5.21\\ 41.60\\ 13.94\\ 108.44\\ 443.52\\ 39.50\\ \end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	0.01 39.51 41.84 -2.33
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	5.26 6.96 6.51 7.17
Net value per unit Machinery cost per acre Est. labor hours per acre	7.13 135.92 2.00

Canola on Owned Land

	Av <u>g</u> . Of All Farms
Number of farms	16
Acres Yield per acre (cwt.) Operators share of yield % Value per cwt. Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	215.50 20.21 100.00 28.88 583.82 3.80 0.21 587.83
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	63.38 105.40 43.16 25.05 17.51 34.94 8.31 0.80 0.72 299.27 288.55
Overhead Expenses Hired labor Machinery leases Building leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	$\begin{array}{c} 16.21 \\ 1.86 \\ 0.39 \\ 5.98 \\ 4.98 \\ 3.01 \\ 1.59 \\ 18.60 \\ 27.11 \\ 3.21 \\ 82.92 \\ 382.20 \\ 205.63 \end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	1.50 207.13 36.90 170.23
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	14.80 18.91 18.63 20.46
Net value per unit Machinery cost per acre Est. labor hours per acre	28.88 88.56 1.23

Canola on Cash Rent

	Avg. Of <u>All Farms</u>	High 20%
Number of farms	21	5
Acres Yield per acre (cwt.) Operators share of yield % Value per cwt. Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	378.97 19.08 100.00 28.45 542.88 8.65 0.15 551.69	295.07 20.70 100.00 28.31 585.93 - 0.83 586.76
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Land rent Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	63.68 101.75 45.56 28.34 18.31 32.63 3.76 53.34 2.30 4.13 353.81 197.88	61.37 89.92 39.79 26.58 14.82 29.40 10.24 48.84 0.13 - 321.08 265.68
Overhead Expenses Custom hire Hired labor Machinery leases Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	$\begin{array}{c} 0.27\\ 8.70\\ 4.86\\ 1.97\\ 6.17\\ 3.07\\ 0.71\\ 4.07\\ 38.32\\ 6.61\\ 74.75\\ 428.55\\ 123.14\end{array}$	$\begin{array}{c} 0.71\\ 16.26\\ 0.08\\ 0.12\\ 4.65\\ 2.92\\ 1.46\\ 1.58\\ 23.93\\ 3.87\\ 55.59\\ 376.67\\ 210.09\end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	0.94 124.08 48.55 75.53	0.01 210.10 34.05 176.05
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	18.54 22.46 21.95 24.49	15.51 18.20 18.16 19.80
Net value per unit Machinery cost per acre Est. labor hours per acre	28.45 96.94 1.32	28.31 78.70 1.00

Corn on Owned Land

	Avg. Of All Farms
Number of farms	6
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Gross return per acre	118.77 105.81 100.00 5.98 632.64 632.64
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	$\begin{array}{c} 81.27\\ 126.26\\ 48.02\\ 31.95\\ 25.03\\ 56.26\\ 5.33\\ 0.18\\ 374.30\\ 258.34\end{array}$
Overhead Expenses Custom hire Hired labor Machinery leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	$\begin{array}{c} 0.57 \\ 15.87 \\ 7.92 \\ 8.59 \\ 5.49 \\ 4.25 \\ 2.07 \\ 10.12 \\ 38.53 \\ 3.43 \\ 96.85 \\ 471.15 \\ 161.49 \end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	- 161.49 44.90 116.59
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	3.54 4.45 4.45 4.88
Net value per unit Machinery cost per acre Est. labor hours per acre	5.98 130.63 1.99

Corn on Cash Rent

	Av <u>g</u> . Of All Farms
Number of farms	8
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Crop insurance per acre Gross return per acre	156.64 101.98 100.00 6.00 612.41 2.49 614.90
Direct Expenses Seed and plants 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	81.28 141.08 31.57 25.87 34.61 70.42 1.40 43.17 4.13 433.54 181.36
Overhead Expenses Custom hire Hired labor Machinery leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	$\begin{array}{c} 0.33\\ 30.26\\ 7.72\\ 5.37\\ 4.82\\ 2.22\\ 2.00\\ 43.00\\ 7.22\\ 102.95\\ 536.48\\ 78.42\end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	0.00 78.42 56.71 21.71
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	4.25 5.26 5.24 5.79
Net value per unit Machinery cost per acre Est. labor hours per acre	6.00 157.09 1.99

Corn Silage on Owned Land

	Avg. Of All Farms
Number of farms	6
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Crop insurance per acre Gross return per acre	56.43 9.75 100.00 32.02 312.17 20.47 332.64
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Hired labor Operating interest Total direct expenses per acre Return over direct exp per acre	59.77 115.20 19.03 15.60 43.73 45.04 56.79 22.09 8.06 385.33 -52.68
Overhead Expenses Custom hire Hired labor Machinery leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	2.86 7.84 0.32 7.70 2.35 6.63 0.81 15.16 18.78 15.24 77.70 463.03 -130.39
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	0.53 -129.86 59.60 -189.45
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	39.53 47.50 45.34 51.46
Net value per unit Machinery cost per acre Est. labor hours per acre	32.02 166.02 2.86

Corn Silage on Cash Rent

	Avg. Of <u>All Farms</u>
Number of farms	5
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Gross return per acre	67.34 17.87 100.00 33.94 606.43 606.43
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Hired labor Land rent Operating interest Total direct expenses per acre Return over direct exp per acre	81.71 131.17 31.69 16.45 41.59 44.10 4.95 23.85 38.73 3.48 417.72 188.71
Overhead Expenses Custom hire Hired labor Machinery leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	$\begin{array}{c} 0.71\\ 2.21\\ 1.69\\ 4.96\\ 2.54\\ 1.14\\ 3.25\\ 47.21\\ 7.80\\ 71.51\\ 489.23\\ 117.20\end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	0.05 117.25 51.43 65.82
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	23.38 27.38 27.38 30.26
Net value per unit Machinery cost per acre Est. labor hours per acre	33.94 141.06 2.08

CRP on Owned Land

	Avg. Of All Farms
Number of farms	6
Acres	122.46
Gross return per acre	43.36
Direct Expenses	
Seed and plants	2.14
Crop insurance	1.87
Fuel & oil	0.76
Repairs	0.98
Custom hire	0.81
Miscellaneous	0.04
Total direct expenses per acre	6.61
Return over direct exp per acre	36.76
Overhead Expenses	
Hired labor	0.12
Machinery leases	0.10
RE & pers. property taxes	5.40
Interest	10.82
Mach & bldg depreciation	1.03
Miscellaneous	0.56
Total overhead expenses per acre	18.02
Total dir & ovhd expenses per acre	24.63
Net return per acre	18.74
	10.74
Government payments	-
Net return with govt pmts	18.74
Labor & management charge	1.35
Net return over lbr & mgt	17.39
Net value per unit	1.00
Machinery cost per acre	3.75
Est. labor hours per acre	0.04
•	

Hay, Alfalfa on Owned Land

	Avg. Of All Farms
Number of farms	7
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Gross return per acre	75.96 2.12 100.00 103.19 218.63 218.63
Direct Expenses Seed and plants Fertilizer Crop chemicals Fuel & oil Repairs Machinery leases Operating interest Total direct expenses per acre Return over direct exp per acre	6.11 5.03 2.19 16.20 15.62 3.01 2.91 51.06 167.57
Overhead Expenses Custom hire Hired labor Machinery leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	$\begin{array}{c} 1.28\\ 0.96\\ 2.61\\ 5.85\\ 2.58\\ 7.16\\ 0.78\\ 19.41\\ 8.61\\ 0.08\\ 49.33\\ 100.39\\ 118.24\end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	- 118.24 18.60 99.64
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	24.10 47.38 47.38 56.16
Net value per unit Machinery cost per acre Est. labor hours per acre	103.19 47.06 0.86

Hay, Grass on Cash Rent

	Avg. Of All Farms
Number of farms	5
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Gross return per acre Direct Expenses Fuel & oil Repairs	99.84 1.37 100.00 52.90 72.22 72.22 10.05 11.65
Land rent Operating interest Total direct expenses per acre Return over direct exp per acre	8.19 1.30 31.19 41.03
Overhead Expenses Custom hire Hired labor Machinery leases Farm insurance Utilities Dues & professional fees Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	0.10 0.87 2.66 0.80 0.35 0.28 5.84 1.21 12.12 43.31 28.91
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	- 28.91 17.09 11.82
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	22.85 31.72 31.72 44.24
Net value per unit Machinery cost per acre Est. labor hours per acre	52.90 28.72 0.76

Hay, Mixed Alfalfa/Grass on Cash Rent

	Avg. Of All Farms
Number of farms	5
Acres	81.80
Yield per acre (ton)	1.82
Operators share of yield %	100.00
Value per ton	76.18
Total product return per acre	138.30
Gross return per acre	138.30
Direct Expenses	
Fuel & oil	15.80
Repairs	16.31
Land rent	21.70
Operating interest	0.90
Total direct expenses per acre	54.70
Return over direct exp per acre	83.60
Overhead Expenses	
Custom hire	0.28
Hired labor	1.39
Farm insurance	2.53
Utilities	0.80 2.78
Dues & professional fees Interest	3.22
Mach & bldg depreciation	10.70
Macria di dagi depresiation Miscellaneous	0.57
Total overhead expenses per acre	22.27
Total dir & ovhd expenses per acre	76.97
Net return per acre	61.33
Government payments	-
Net return with govt pmts	61.33
Labor & management charge	25.70
Net return over lbr & mgt	35.63
Cost of Production	
Total direct expense per ton	30.13
Total dir & ovhd exp per ton	42.40
Less govt & other income	42.40
With labor & management	56.56
Net value per unit	76.18
Machinery cost per acre	46.50
Est. labor hours per acre	1.14

Hay, Small Grain on Cash Rent

	Avg. Of All Farms
Number of farms	7
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Gross return per acre	115.05 2.12 100.00 53.10 112.73 112.73
Direct Expenses Seed and plants Fertilizer Crop chemicals Fuel & oil Repairs Land rent Operating interest Total direct expenses per acre Return over direct exp per acre	20.71 9.17 8.38 12.07 22.57 41.94 2.01 116.84 -4.11
Overhead Expenses Hired labor Machinery leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	3.35 2.35 4.54 2.70 1.01 2.25 11.15 4.06 31.40 148.24 -35.51
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	0.02 -35.50 18.79 -54.28
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management Net value per unit Machinery cost per acre Est. labor hours per acre	55.04 69.83 69.83 78.67 53.10 49.90 0.94

Pasture on Owned Land

	Avg. Of All Farms
Number of farms	10
Acres Yield per acre (aum) Operators share of yield % Value per aum Total product return per acre Other crop income per acre Gross return per acre Direct Expenses	479.73 0.66 100.00 27.39 17.96 0.18 18.14
Crop chemicals Crop insurance Fuel & oil Repairs Miscellaneous Total direct expenses per acre Return over direct exp per acre	2.96 1.14 0.48 0.79 0.06 5.43 12.71
Overhead Expenses RE & pers. property taxes Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	2.93 3.08 0.34 0.59 6.94 12.37 5.77
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	5.77 0.67 5.10
Cost of Production Total direct expense per aum Total dir & ovhd exp per aum Less govt & other income With labor & management	8.28 18.86 18.59 19.62
Net value per unit Machinery cost per acre Est. labor hours per acre	27.39 1.76 0.03

Pasture on Cash Rent

	Avg. Of All Farms
Number of farms	16
Acres Yield per acre (aum) Operators share of yield % Value per aum Total product return per acre Other crop income per acre Gross return per acre	834.01 0.75 100.00 22.19 16.68 0.02 16.70
Direct Expenses Crop insurance Fuel & oil Repairs Land rent Miscellaneous Total direct expenses per acre Return over direct exp per acre	0.37 0.52 0.74 14.68 0.15 16.46 0.24
Overhead Expenses Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	1.19 1.19 17.65 -0.95
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	- -0.95 0.95 -1.90
Cost of Production Total direct expense per aum Total dir & ovhd exp per aum Less govt & other income With labor & management	21.89 23.48 23.45 24.71
Net value per unit Machinery cost per acre Est. labor hours per acre	22.19 1.77 0.05

Peas, Dry Edible on Cash Rent

	Avg. Of <u>All Farms</u>
Number of farms	5
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Crop insurance per acre Gross return per acre	406.16 28.63 100.00 11.75 336.48 14.82 351.30
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Land rent Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	$\begin{array}{c} 61.49\\ 2.58\\ 49.38\\ 20.03\\ 24.46\\ 63.02\\ 2.58\\ 60.83\\ 8.13\\ 6.00\\ 298.52\\ 52.79\end{array}$
Overhead Expenses Custom hire Hired labor Machinery leases Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	$\begin{array}{c} 11.17\\ 8.35\\ 19.60\\ 2.14\\ 8.23\\ 3.85\\ 1.28\\ 7.47\\ 43.84\\ 11.51\\ 117.44\\ 415.95\\ -64.65\end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	0.10 -64.55 48.39 -112.95
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	10.43 14.53 14.01 15.70
Net value per unit Machinery cost per acre Est. labor hours per acre	11.75 167.24 1.75

Prevented planting on Owned Land

	Avg. Of All Farms
Number of farms	12
Acres Gross return per acre	160.91 253.17
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Operating interest Total direct expenses per acre Return over direct exp per acre	$\begin{array}{r} 3.37\\ 5.00\\ 13.30\\ 19.56\\ 6.16\\ 15.37\\ 1.01\\ 0.37\\ 64.12\\ 189.05\end{array}$
Overhead Expenses Hired labor 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	5.99 6.79 4.33 3.84 1.80 30.22 13.61 2.43 69.02 133.14 120.03
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	0.01 120.04 13.48 106.56
Net value per unit Machinery cost per acre Est. labor hours per acre	1.00 38.62 0.44

Prevented planting on Cash Rent

	Av <u>g</u> . Of <u>All Farms</u>
Number of farms	13
Acres Gross return per acre	293.18 249.53
Direct Expenses Seed and plants 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	2.28 0.97 15.35 22.43 6.42 17.23 0.97 37.92 1.10 104.67 144.87
Overhead Expenses Hired labor Machinery leases Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	5.76 0.63 0.15 5.19 3.57 1.52 1.58 11.70 4.42 34.51 139.18 110.35
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	0.03 110.38 13.50 96.88
Net value per unit Machinery cost per acre Est. labor hours per acre	0.58 37.33 0.57

Soybeans on Owned Land

	Avg. Of <u>All Farms</u>	High 20%
Number of farms	21	5
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	275.56 34.95 100.00 13.95 487.65 7.86 0.36 495.86	360.62 49.04 100.00 13.88 680.64 1.36 - 682.00
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	$\begin{array}{c} 64.86\\ 14.70\\ 44.90\\ 23.01\\ 16.05\\ 28.68\\ 6.98\\ 2.21\\ 1.86\\ 0.00\\ 203.25\\ 292.61\end{array}$	58.43 17.27 34.14 23.65 12.60 20.66 5.55 1.15 - 173.45 508.54
Overhead Expenses Hired labor Machinery leases Building leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	$\begin{array}{c} 8.91\\ 5.85\\ 0.48\\ 9.91\\ 6.03\\ 4.11\\ 1.79\\ 24.49\\ 45.85\\ 3.49\\ 110.92\\ 314.17\\ 181.69\end{array}$	$\begin{array}{c} 11.45\\ 0.46\\ 0.60\\ 12.86\\ 5.48\\ 4.16\\ 1.35\\ 39.27\\ 72.37\\ 1.09\\ 149.09\\ 322.55\\ 359.45\end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over Ibr & mgt	0.01 181.70 39.19 142.52	359.45 35.66 323.79
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	5.82 8.99 8.75 9.88	3.54 6.58 6.55 7.28
Net value per unit Machinery cost per acre Est. labor hours per acre	13.95 106.65 1.28	13.88 109.62 1.01

Soybeans on Cash Rent				
	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	33	6	6	7
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	398.03 31.55 100.00 13.59 428.69 8.57 0.33 437.59	496.20 27.50 100.00 13.54 372.29 20.05 1.45 393.80	293.25 34.58 100.00 13.82 477.85 - 477.85	194.79 40.10 100.00 14.02 562.26 3.76 566.01
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Land rent Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	$\begin{array}{c} 62.36\\ 11.78\\ 42.88\\ 21.69\\ 21.42\\ 40.35\\ 1.74\\ 57.39\\ 1.69\\ 3.20\\ 0.48\\ 264.99\\ 172.60\\ \end{array}$	65.52 21.10 54.57 21.21 27.12 51.51 1.35 61.90 4.38 3.57 312.24 81.56	53.70 8.59 59.57 33.41 17.24 32.55 58.25 - - - - - - - - - - - - - - - - - - -	61.47 13.83 30.23 18.44 23.35 20.11 59.93 5.72 1.51 - 234.58 331.43
Overhead Expenses Hired labor Machinery leases Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	$\begin{array}{r} 8.90 \\ 4.94 \\ 0.41 \\ 6.23 \\ 4.19 \\ 1.44 \\ 3.58 \\ 35.86 \\ 5.21 \\ 70.77 \\ 335.75 \\ 101.84 \end{array}$	$14.54 \\ 1.15 \\ 0.05 \\ 6.50 \\ 4.09 \\ 1.25 \\ 7.24 \\ 37.56 \\ 0.90 \\ 73.28 \\ 385.52 \\ 8.28 \\$	$\begin{array}{c} 11.05\\ 13.00\\ 1.46\\ 6.57\\ 4.40\\ 2.06\\ 3.15\\ 46.53\\ 3.11\\ 91.34\\ 359.96\\ 117.90\end{array}$	$\begin{array}{c} 6.69\\ 1.77\\ 0.24\\ 4.09\\ 4.76\\ 0.80\\ 2.69\\ 47.03\\ 4.57\\ 72.63\\ 307.21\\ 258.80\end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	0.46 102.29 39.57 62.72	0.04 8.32 38.14 -29.82	117.90 47.71 70.19	258.80 54.16 204.63
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	8.40 10.64 10.34 11.60	11.35 14.02 13.23 14.62	7.77 10.41 10.41 11.79	5.85 7.66 7.57 8.92
Net value per unit Machinery cost per acre Est. labor hours per acre	13.59 106.92 1.53	13.54 128.87 1.45	13.82 110.03 1.67	14.02 99.30 2.38

Wheat, Spring on Owned Land

	Avg. Of		
	<u>All Farms</u>	<u> 40 - 60%</u>	<u>High 20%</u>
Number of farms	24	5	5
Acres	282.16	138.73	413.19
Yield per acre (bu.)	56.90	47.07	72.31
Operators share of yield %	100.00	100.00	100.00
Value per bu.	8.69	8.62	8.75
Other product return per acre	0.53	-	0.29
Total product return per acre	495.04 8.21	405.56 53.45	632.88
Crop insurance per acre Other crop income per acre	0.55		-
Gross return per acre	503.79	459.01	632.88
Direct Expenses			
Seed and plants	25.78	33.82	26.93
Fertilizer	106.74	82.76	122.89
Crop chemicals	40.83	48.47	49.50
Crop insurance	27.90	22.05	24.40
Fuel & oil Bonoire	18.13 31.64	19.97 28.78	11.44 24.80
Repairs Custom hire	4.23	20.70	5.72
Machinery leases	2.37	23.13	5.72
Operating interest	1.97	5.03	1.24
Miscellaneous	0.19	0.99	-
Total direct expenses per acre	259.78	264.99	266.93
Return over direct exp per acre	244.02	194.02	365.95
Overhead Expenses		0.05	4.46
Custom hire	0.82	0.05	1.43
Hired labor	4.62	2.26	7.73
Machinery leases Building leases	3.55 0.21	2.59 0.06	0.32 0.19
RE & pers. property taxes	9.65	11.91	9.29
Farm insurance	5.66	7.36	5.46
Utilities	4.34	6.69	2.59
Dues & professional fees	1.22	2.11	1.02
Interest	18.16	29.36	12.77
Mach & bldg depreciation	33.18	27.60	37.65
Miscellaneous	3.76	3.41	2.01
Total overhead expenses per acre	85.18	93.41	80.45
Total dir & ovhd expenses per acre Net return per acre	344.95 158.84	358.40 100.61	347.38 285.50
			200.00
Government payments Net return with govt pmts	1.56 160.40	5.66 106.27	- 285.50
Labor & management charge	38.43	37.24	40.53
Net return over lbr & mgt	121.97	69.03	244.97
Cost of Production			
Total direct expense per bu.	4.57	5.63	3.69
Total dir & ovhd exp per bu.	6.06	7.61	4.80
Less govt & other income	5.87	6.36	4.80
With labor & management	6.55	7.15	5.36
Net value per unit	8.69	8.62	8.75
Machinery cost per acre	93.63	100.83	77.98
Est. labor hours per acre	1.22	1.20	1.07

Wheat, Spring on Cash Rent						
	Avg. Of <u>All Farms</u>	<u>Low 20%</u>	<u> 40 - 60%</u>	 		
Number of farms	35	7	7	7		
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Other product return per acre Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	458.21 52.73 100.00 8.74 0.14 461.15 13.93 0.18 475.25	491.76 38.73 100.00 8.74 338.58 18.35 356.93	271.73 42.67 100.00 8.89 1.19 380.59 33.19 - 413.78	554.68 70.04 100.00 8.74 - 612.43 - 612.43		
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Land rent Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	$\begin{array}{c} 23.08\\ 103.36\\ 43.83\\ 27.52\\ 17.32\\ 33.12\\ 4.62\\ 54.64\\ 1.09\\ 2.54\\ 1.50\\ 312.63\\ 162.62\end{array}$	26.81 111.85 44.73 32.97 18.78 46.58 	17.33 49.54 24.47 23.87 23.98 24.82 52.36 1.60 0.06 218.05 195.73	18.19 115.81 56.14 23.09 14.90 32.04 7.89 50.93 1.93 0.89 321.81 290.62		
Overhead Expenses Custom hire Hired labor Machinery leases Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	$\begin{array}{c} 0.35\\ 8.69\\ 5.30\\ 0.66\\ 5.51\\ 3.74\\ 1.61\\ 3.22\\ 36.08\\ 2.61\\ 67.76\\ 380.39\\ 94.86\end{array}$	$\begin{array}{c} 0.99 \\ 4.01 \\ 13.40 \\ 0.22 \\ 6.90 \\ 4.89 \\ 2.39 \\ 3.50 \\ 28.45 \\ 3.79 \\ 68.52 \\ 417.20 \\ -60.27 \end{array}$	$\begin{array}{c} 0.03\\ 3.92\\ 8.50\\ & \\ 5.80\\ 3.96\\ 0.38\\ 2.56\\ 66.02\\ 3.48\\ 94.66\\ 312.71\\ 101.07\end{array}$	22.75 0.02 0.26 5.28 4.06 2.43 1.59 37.41 1.18 74.99 396.80 215.64		
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	0.22 95.08 40.87 54.21	-60.27 28.91 -89.18	0.01 101.08 53.99 47.09	215.64 42.67 172.97		
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	5.93 7.21 6.94 7.72	9.00 10.77 10.30 11.04	5.11 7.33 6.52 7.79	4.59 5.67 5.67 6.27		
Net value per unit Machinery cost per acre Est. labor hours per acre	8.74 98.33 1.42	8.74 110.49 1.16	8.89 125.17 3.00	8.74 93.32 1.38		

EXPLANATORY NOTES FOR LIVESTOCK TABLES

The "Livestock Enterprise Analysis" table shows the average physical production, gross returns, direct costs, overhead costs, and net return per unit. All costs are actual costs; no opportunity costs are included. The "Net Return" to the enterprise is the "Gross Margin" minus the direct and overhead costs. "Net Return" represents the return to the operators and family's unpaid labor, management, and equity. It represents the return to all of the resources, which are owned by the farm family and hence, not purchased or paid a wage. The last section of each livestock table contains both economic and technical efficiency measures, which are particularly useful to individual managers in assessing their performance as compared to their peers.

When there are less than five farms with a particular livestock enterprise, that enterprise is not included in the report. When there is a sufficient number (i.e., more than 24), farms are divided into low 20%, middle 20% and high 20% on the basis of returns to overhead costs. The classification is done separately for each livestock enterprise.

The "Dairy" enterprise contains the information for only the milking herd (which includes dry cows). "Dairy Replacement Heifers" are those heifers kept for replacement into the milking herd. "Dairy Heifers (for sale)" are heifers intended for feeding and sale. "Dairy Steers" includes only steers for feeding. The "Dairy and Replacement Heifers" table includes both "Dairy" and "Dairy Replacement Heifers."

"Lbs. feed per lb. of gain" is the lbs. of total feed divided by total gain. The total feed is calculated by adding total pounds of feed. For grains, these pounds per unit are used: corn, 56; oats, 32; barley, 48; grain sorghum, 56; wheat, 60; and millet, 48. For these roughages, the pounds are calculated by these factors: alfalfa haylage, 0.5; corn silage, 0.33; oatlage, 0.5; and sorghum silage, 0.33; and small grain silage, 0.33.

The calving and weaning percentages are calculated as the number of calves, which are calved and weaned, respectively, divided by the number of cows, which are supposed to bear young.

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

Beef Cow-Calf Whole Herd w/backgrounding -- Average Per Cwt. Produced

		Avg. Of All Farms	
Number of farms		7	
Beef Calves sold (lb) Cull sales (lb) Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 68.07 -0.03 - 31.96	Value 122.61 44.46 -80.18 -35.81 97.04 148.11	
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) Hay, Grass (lb.) Pasture (aum) DDGS, dry (lb.) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Operating interest Miscellaneous Total direct expenses Return over direct expense	6.13 13.96 0.42 522.68 1,345.04 1.47 61.21 158.42	$\begin{array}{c} 3.68\\ 2.02\\ 2.50\\ 8.09\\ 37.19\\ 29.46\\ 8.22\\ 3.70\\ 6.35\\ 4.43\\ 8.69\\ 14.89\\ 1.35\\ 2.68\\ 133.24\\ 14.87\end{array}$	
Overhead Expenses Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		2.21 1.55 3.95 6.30 3.71 17.72 150.96 -2.85	
Labor & management charge Net return over lbr & mgt		32.11 -34.96	
Cost of Production Per Cwt. Produced Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management		133.24 150.96 184.85 216.97	
Est. labor hours per unit		1.41	
Other Information Number of cows Pregnancy percentage Pregnancy loss percentage Culling percentage Calving percentage Calves sold per cow Calf death loss percent Cow death loss percent Cows per FTE Average weaning weight Lb. weaned/exposed female Feed cost per cow Avg wgt/ Beef Calves sold Avg price / cwt.		$\begin{array}{r} 86.4\\ 94.9\\ 0.2\\ 25.0\\ 94.7\\ 82.0\\ 0.64\\ 13.3\\ 3.6\\ 401.8\\ 515\\ 422\\ 468.83\\ 525\\ 180.12\end{array}$	

		Avg. Of All Farms	
Number of farms		7	
Beef Calves sold (lb) Cull sales (lb) Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 336.5 -0.2 158.0	Value 606.04 219.74 -396.32 -177.02 479.65 732.09	
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) Hay, Grass (lb.) Pasture (aum) DDGS, dry (lb.) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Livestock leases Miscellaneous Total direct expenses Return over direct expense	30.3 69.0 2.1 2,583.5 6,648.4 7.3 302.5 783.1	$18.17 \\ 10.00 \\ 12.36 \\ 39.97 \\ 183.81 \\ 145.61 \\ 40.64 \\ 18.27 \\ 31.39 \\ 21.88 \\ 42.97 \\ 73.59 \\ 4.13 \\ 15.80 \\ 658.58 \\ 73.51 \\ \end{cases}$	
Overhead Expenses Hired labor Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		4.91 7.67 19.53 31.12 24.35 87.58 746.17 -14.08	
Labor & management charge Net return over lbr & mgt		158.73 -172.80	
Cost of Production Per Cwt. Produced Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management		133.24 150.96 184.85 216.97	
Est. labor hours per unit		6.97	
Other Information Number of cows Pregnancy percentage Pregnancy loss percentage Culling percentage Calving percentage Weaning percentage Calves sold per cow Calf death loss percent Cow death loss percent Cows per FTE Average weaning weight Lb. weaned/exposed female Feed cost per cow Avg wgt/ Beef Calves sold Avg price / cwt.		$\begin{array}{r} 86.4\\ 94.9\\ 0.2\\ 25.0\\ 94.7\\ 82.0\\ 0.64\\ 13.3\\ 3.6\\ 401.8\\ 515\\ 422\\ 468.83\\ 525\\ 180.12\end{array}$	

Beef Cow-Calf Whole Herd w/backgrounding -- Average Per Cow

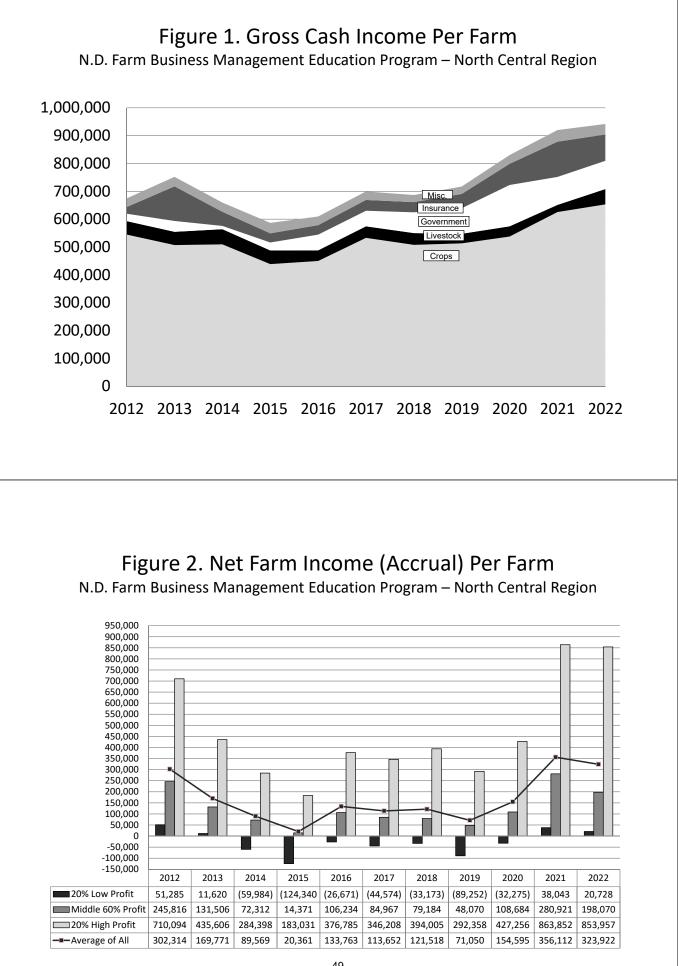


Figure 3. Financial Efficiency Measures (As Percent of Gross Revenue)

N.D. Farm Business Management Education Program – North Central Region

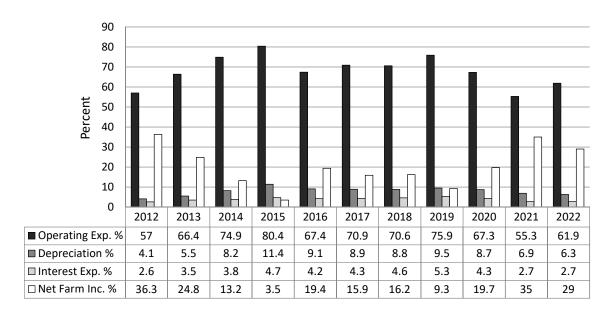
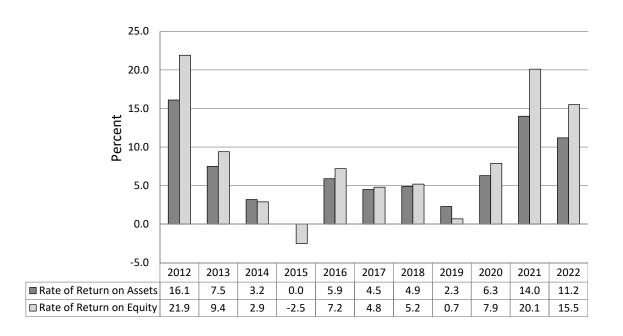


Figure 4. Profitability Measures Per Farm N.D. Farm Business Management Education Program – North Central Region



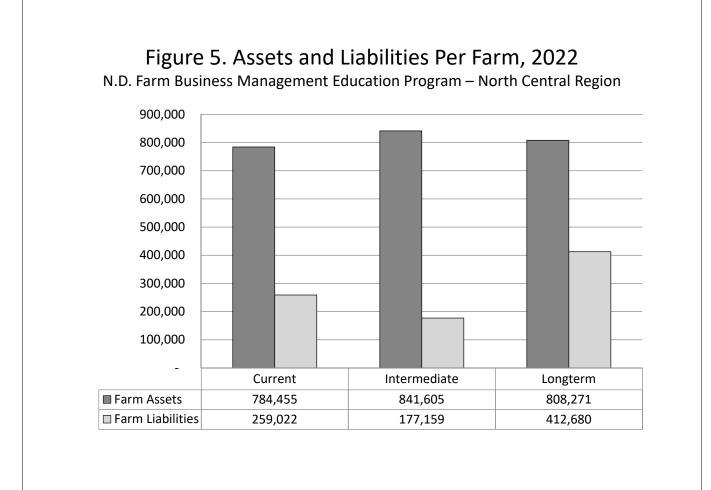
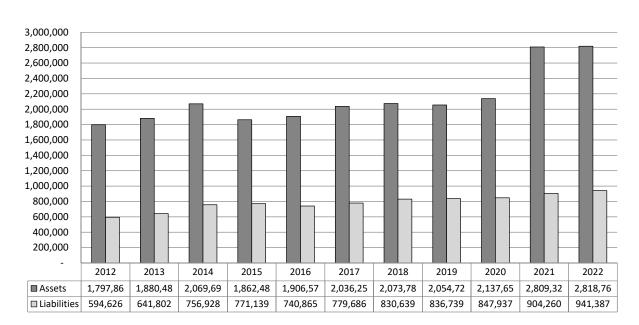


Figure 6. Total Farm Assets and Liabilities



N.D. Farm Business Management Education Program – North Central Region

Figure 7. Household and Personal Expenses N.D. Farm Business Management Education Program – North Central Region

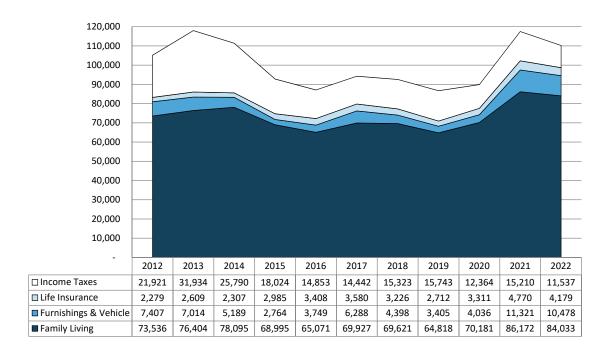
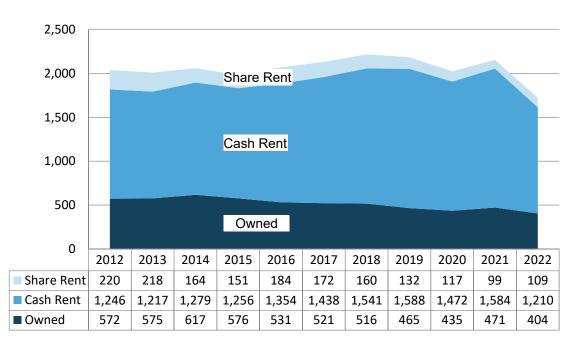


Figure 8. Crop Acreage Per Farm



N.D. Farm Business Management Education Program – North Central Region

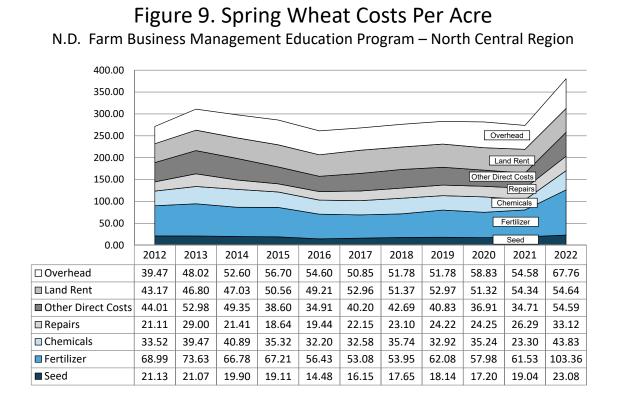
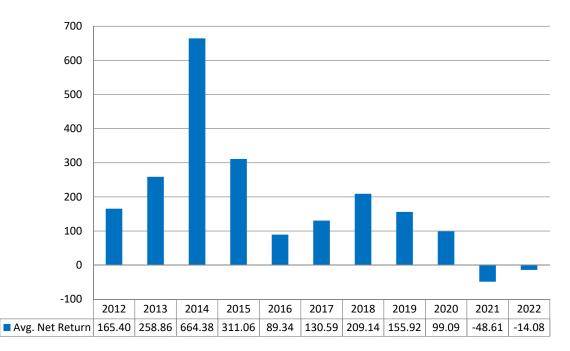


Figure 10. Average Net Return Per Beef Cow N.D. Farm Business Management Education Program – North Central Region







No matter how difficult it gets, F-Series trucks never take a day off. The Ford F-150[®] and Super Duty[®] are designed to work just as long and as tough as you do.

(5)

See what makes Ford F-Series the best-selling trucks in America for 46 years* and a perfect fit for any farm.



PROUD SPONSORS OF THE NORTH DAKOTA FFA

*Based on 1977-2022 CY total sales.