# **2023 ANNUAL REPORT South Central North Dakota**

North Dakota Farm Management Education







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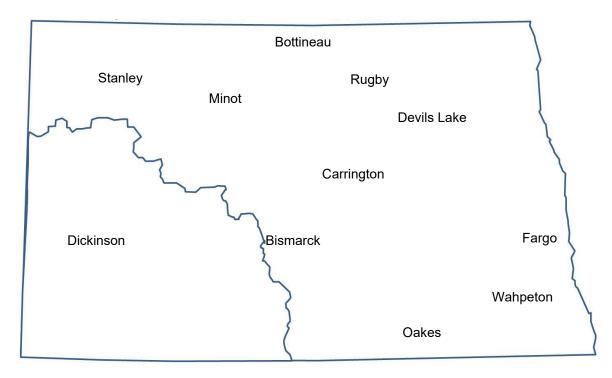
### NORTH DAKOTA FARM BUSINESS MANAGEMENT EDUCATION

### **REGION 3 – SOUTH CENTRAL AVERAGES** 2023 ANNUAL REPORT

The South Central (Region 3) farm business analyses were submitted by the following instructors represented by their cooperating schools.

School	<u>Instructor</u>
Bismarck State College	Lynsey AberleJason FewellKelcey Hoffmann

This report was made possible by the farm families who cooperated with their farm management instructors in getting the records for 2023 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.



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#### 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 2023 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 35th 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, and CSP.

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

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

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

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

does not include any debt forgiveness or asset repossessions.

#### **Inventory Changes**

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

#### Depreciation

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

#### **Profitability Measures**

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

- "Rate of return on assets" is the "Return on farm assets" divided by "Average farm assets."
- "Rate of return on equity "is the "Return of farm equity" divided by "Average farm equity."
- "Operating profit margin" is the "Return on farm assets" divided by "Value of farm production."
- "Asset turnover rate" is the "Value of farm production" divided by "Average farm assets."
- **"Farm interest expense"** is the accrual interest cost, usually it will be different from the cash interest expense.
- "Value of operator's labor and management" is an opportunity cost for unpaid operator's labor and management that is used in the calculation of several financial performance measures. A value of \$30,000 per full time operator plus 5% of 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 conservative market replacement costs. Land is valued at cost or conservative market value. In balance sheet at market values, the intermediate and long term assets are listed at market value, and deferred income tax liabilities are estimated.

#### **Statement of Cash Flows**

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

#### **Financial Standards Measures**

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

#### Liquidity

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

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

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

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

**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 <u>Amortization</u>. This represents a measure of earnings available for debt repayment.</u>

#### **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 3 - South Central North Dakota, 2023 (Farms Sorted By Net Farm Income)

	Avg. Of	000/	40 000/	Hint 2007
	All Farms	Low 20%	40 - 60%	High 20%
Number of farms	47	9	10	10
Cash Farm Income				
Barley	84,523	1,665	214,430	142,066
Beans, Garbonzo	2,511	-	11,803	-
Beans, Pinto	86,003	-	155,745	121,090
Canola	46,815	21,417	78,832	65,922
Corn	443,459	270,729	472,087	915,935
Hay, Small Grain	113	-	-	-
Millet	149	-	700	-
Oats	932	2,221	-	-
Peas, Field	1,510	-	4,344	-
Rye	779	-	273	-
Soybeans	491,658	463,515	405,863	866,460
Sunflowers	66,460	-	22,088	219,134
Wheat, Durum	81,197	-	125,177	215,008
Wheat, Spring	367,879	165,048	297,776	896,303
Wheat, Winter	2,457	-	-	-
Hay	2,378	-	10,377	160
Miscellaneous crop income	5,917	417	11,317	-
Beef Bulls	669	-	1,655	-
Beef Cow-Calf, Beef Calves	65,703	12,059	129,261	48,065
Beef Replacement Heifers	4,194	-	2,207	-
Beef Backgrounding	25,441	6,045	-	69,501
Beef Finishing	789	-	-	-
Beef Finish Yearlings	6,714	-	=	-
Cull breeding livestock	19,874	44,012	17,519	-
Misc. livestock income	88,395	414,361	-	501
CRP payments	541	-	-	1,355
Livestock govt payments	5,326	20,070	1,018	3,589
Conservation govt payment	6,907	8,155	5,469	3,714
Other government payments	11,009	8,505	8,048	24,307
Custom work income	6,027	· <u>-</u>	1,734	17,749
Patronage dividends, cash	14,310	27,666	7,667	10,932
Crop insurance income	80,591	99,666	62,477	156,226
Property insurance income	1,030	3,002	· -	2,122
Livestock insurance inc	614	73	1,736	-
Farm rental income	17,306	2,222	8,656	49,902
Other farm income	22,249	17,061	15,273	57,907
Gross Cash Farm Income	2,062,430	1,587,909	2,073,528	3,887,949

## Farm Income Statement (continued) North Dakota Farm Business Management Education Program Region 3 - South Central North Dakota, 2023 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	47	9	10	10
Cash Farm Expense				
Seed and plants	208,836	131,255	223,963	435,968
Fertilizer	223,942	119,121	200,324	450,291
Crop chemicals	182,476	150,845	150,658	356,223
Crop insurance	88,494	79,631	84,042	166,358
Drying expense	3,236	3,761	5,809	5,868
Storage	573	239	-	1,175
Irrigation energy	1,166	-	1,450	150
Crop miscellaneous	3,868	3,077	12,825	1,138
Consultants	6,524	5,772	2,419	15,302
Feeder livestock purchase	9,826	67 479 446	26,759	77 45.020
Purchased feed	51,578 1,806	178,146 7,402	15,184	15,938 1,408
Breeding fees Veterinary	6,017	7,402 18,401	2,669	1,406
Supplies	8,689	34,550	4,554	913
Livestock insurance	242	5 <del>4</del> ,550	1,004	-
Livestock leases	340	_	-	_
Interest	81,093	129,168	74,020	101,177
Fuel & oil	79,317	64,143	62,565	148,901
Repairs	122,392	112,365	103,591	213,504
Custom hire	33,874	32,924	64,605	19,414
Hired labor	85,076	170,692	48,438	154,979
Land rent	226,299	140,309	231,360	460,487
Machinery leases	14,831	16,412	13,600	26,326
Building leases	346	89	511	1,034
Real estate taxes	8,178	7,142	6,603	14,885
Farm insurance	23,889	24,987	20,930	43,530
Utilities	17,670	24,936	14,585	23,345
Hauling and trucking	8,967	36,700	200	7,677
Marketing	2,825	4,757	1,504	3,829
Dues & professional fees	8,194	5,098	4,408	24,522
Organic certification	89	467	-	-
Miscellaneous	25,414	24,815	18,122	36,854
Total cash expense	1,536,069	1,527,273	1,396,698	2,733,023
Net cash farm income	526,362	60,637	676,831	1,154,926
Inventory Changes				
Prepaids and supplies	-22,245	-31,914	-57,935	-65,286
Accounts receivable	-15,883	-17,212	50	-8,663
Hedging accounts	8,320	-326	7,684	29,065
Other current assets	-2,413	1,889	319	3,000
Crops and feed	-18,218	-85,602	-275,696	275,970
Market livestock	7,031	-2,405 4,007	41,030	-30,378
Breeding livestock	-12,898 5,135	4,037 5,157	-41,216 2,025	-13,564 13,446
Other assets Accounts payable	841	-16,047	26,778	-4,002
Accounts payable Accrued interest	-12,521	-9,073	-20,131	-18,633
Total inventory change	-62,850	-151,497	-317,091	180,955
Net operating profit	463,511	-90,860	359,739	1,335,881
Demociation	·	·		
Depreciation  Machinery and equipment	-135,517	74 240	126 002	207.040
Machinery and equipment Titled vehicles	-135,517 -16,561	-71,348 -10,100	-126,883 -21,550	-307,846 -28,957
Buildings and improvements	-20,944	-15,070	-21,550 -8,282	-26,957 -54,492
Total depreciation	-173,022	-15,070 -96,518	-0,262 -156,715	-391,295
•		·	•	
Net farm income from operations	290,489	-187,378	203,025	944,586
Gain or loss on capital sales	29,044	3,568	10,846	107,709
Net farm income	319,533	-183,810	213,871	1,052,295

# Inventory Changes North Dakota Farm Business Management Education Program Region 3 - South Central North Dakota, 2023 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	47	9	10	10
Net cash farm income	526,362	60,637	676,831	1,154,926
Crops and Feed Ending inventory Beginning inventory Inventory change	1,699,110	704,955	1,141,421	4,689,902
	1,717,328	790,557	1,417,117	4,413,933
	-18,218	-85,602	-275,696	275,970
Market Livestock Ending inventory Beginning inventory Inventory change	67,534	11,344	89,275	35,625
	60,503	13,749	48,245	66,003
	7,031	-2,405	41,030	-30,378
Accts Receivable Ending inventory Beginning inventory Inventory change	68,694	59,309	60,006	27,850
	84,577	76,521	59,956	36,513
	-15,883	-17,212	50	-8,663
Prepaid Expenses and Supplies Ending inventory Beginning inventory Inventory change	270,526	62,528	223,832	656,213
	292,771	94,443	281,767	721,499
	-22,245	-31,914	-57,935	-65,286
Hedging Activities Ending inventory Withdrawals Beginning inventory Deposits Gain or loss	15,015 23,641 14,847 15,489 8,320	1 - 327 - - -326	10,707 18,500 8,211 13,312 7,684	54,101 88,511 57,461 56,086 29,065
Other Current Assets Ending inventory Beginning inventory Inventory change	22,452	62,556	1,681	36,856
	24,865	60,667	1,362	33,856
	-2,413	1,889	319	3,000
Breeding Livestock Ending inventory Capital sales Beginning inventory Capital purchases Depreciation, capital adjust	160,339	287,976	89,166	144,960
	18,495	11,636	28,860	12,277
	168,291	293,147	103,911	148,089
	23,441	2,428	55,331	22,713
	-12,898	4,037	-41,216	-13,564
Other Capital Assets Ending inventory Capital sales Beginning inventory Capital purchases Depreciation, capital adjust	320,286	185,212	38,468	1,238,858
	120,992	8,764	252	557,650
	263,199	179,483	36,615	981,037
	172,944	9,336	81	802,024
	5,135	5,157	2,025	13,446
Accounts Payable Beginning inventory Ending inventory Inventory change	36,462	56,534	83,175	13,818
	35,620	72,581	56,397	17,820
	841	-16,047	26,778	-4,002
Accrued Interest Beginning inventory Ending inventory Inventory change	37,444	86,317	19,944	46,984
	49,965	95,390	40,075	65,617
	-12,521	-9,073	-20,131	-18,633
Total inventory change	-62,850	-151,497	-317,091	180,955
Net operating profit	463,511	-90,860	359,739	1,335,881

## Depreciation North Dakota Farm Business Management Education Program Region 3 - South Central North Dakota, 2023 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	47	9	10	10
Net operating profit	463,511	-90,860	359,739	1,335,881
Machinery and Equipment				
Ending inventory	1,514,675	755,213	1,387,813	3,549,661
Capital sales	126,657	11,705	66,331	446,140
Beginning inventory	1,324,651	761,270	1,192,366	3,039,055
Capital purchases	452,198	76,996	388,661	1,264,593
Depreciation, capital adjust.	-135,517	-71,348	-126,883	-307,846
Titled Vehicles				
Ending inventory	125,607	87,623	146,377	203,552
Capital sales	3,999	1,161	2,189	11,855
Beginning inventory	103,468	98,883	83,411	181,252
Capital purchases	42,699	-	86,705	63,112
Depreciation, capital adjust.	-16,561	-10,100	-21,550	-28,957
Buildings and Improvements				
Ending inventory	584,463	429,552	377,500	1,389,648
Capital sales	-	-	-	-
Beginning inventory	527,839	414,304	279,212	1,285,572
Capital purchases	77,568	30,318	106,570	158,568
Depreciation, capital adjust.	-20,944	-15,070	-8,282	-54,492
Total depreciation, capital adj.	-173,022	-96,518	-156,715	-391,295
Net farm income from operations	290,489	-187,378	203,025	944,586
Gain or loss on capital sales	29,044	3,568	10,846	107,709
Net farm income	319,533	-183,810	213,871	1,052,295

## Profitability Measures North Dakota Farm Business Management Education Program Region 3 - South Central North Dakota, 2023 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	47	9	10	10
Profitability (assets valued at cost)				
Net farm income from operations	290,489	-187,378	203,025	944,586
Rate of return on assets	4.4 %	-3.5 %	4.0 %	6.1 %
Rate of return on equity	4.3 %	-21.8 %	3.1 %	6.8 %
Operating profit margin	13.4 %	-10.3 %	10.2 %	20.5 %
Asset turnover rate	32.8 %	33.8 %	38.8 %	29.6 %
Farm interest expense	93,614	138,241	94,151	119,810
Value of operator lbr and mgmt.	120,243	86,797	117,232	217,134
Return on farm assets	263,859	-135,934	179,944	847,262
Average farm assets	6,021,784	3,893,657	4,547,043	14,000,730
Return on farm equity	170,246	-274,175	85,793	727,452
Average farm equity	3,998,694	1,259,047	2,756,238	10,646,467
Value of farm production	1,975,514	1,315,233	1,765,464	4,140,810
	Avg. Of			
	All Farms	Low 20%	40 - 60%	High 20%
Number of farms	47	9	10	10
Profitability (assets valued at market)				
Net farm income from operations	412,231	-3,811	341,720	1,017,378
Rate of return on assets	5.3 %	1.0 %	5.8 %	5.6 %
Rate of return on equity	5.5 %	-3.9 %	6.0 %	6.1 %
Operating profit margin	19.5 %	3.6 %	18.0 %	22.2 %
Asset turnover rate	27.1 %	26.5 %	31.9 %	25.3 %
Farm interest expense	93,614	138,241	94,151	119,810
Value of operator lbr and mgmt.	120,243	86,797	117,232	217,134
Return on farm assets	385,602	47,633	318,640	920,053
Average farm assets	7,294,272	4,966,346	5,526,350	16,392,752
Return on farm equity	291,988	-90,608	224,489	800,244
Average farm equity	5,271,182	2,331,736	3,735,545	13,038,489
Value of farm production	1,975,514	1,315,233	1,765,464	4,140,810

#### Liquidity & Repayment Capacity Measures North Dakota Farm Business Management Education Program Region 3 - South Central North Dakota, 2023 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	47	9	10	10
Liquidity				
Current ratio	2.27	1.11	1.81	2.66
Working capital	1,253,076	102,957	655,646	3,550,605
Change in working capital	-290,650	-369,833	-509,992	-427,125
Working capital to gross revenue	61.5 %	6.9 %	36.3 %	85.4 %
Working capital to oper expense	84.7 %	7.1 %	48.4 %	131.4 %
Current assets	2,241,569	1,019,741	1,460,589	5,690,356
Current liabilities	988,494	916,784	804,943	2,139,751
Gross revenues (accrual)	2,036,917	1,493,446	1,807,406	4,156,825
Total operating expenses	1,479,792	1,446,065	1,353,515	2,701,134
Repayment capacity				
Net farm income from operations	290,489	-187,378	203,025	944,586
Depreciation	173,022	96,518	156,715	391,295
Personal income	38,476	12,890	41,367	75,056
Family living/owner withdrawals	-117,177	-79,908	-115,936	-205,940
Cash discrepancy	26	132	36	-849
Income taxes	-37,248	-1,729	-17,066	-124,952
Interest expense	95,291	139,330	95,092	123,107
Debt repayment capacity	442,881	-20,146	363,233	1,202,303
Debt payments	206,002	258,305	202,835	298,891
Repayment margin	236,879	-278,452	160,398	903,412
Cash replacement allowance	-124,280	-30,086	-100,399	-336,821
Replacement margin	112,598	-308,537	59,999	566,591
Debt coverage ratio	2.15	-0.08	1.79	4.02
Term debt coverage ratio	2.38	-0.25	1.89	4.84
Replacement coverage ratio	1.34	-0.07	1.20	1.89

#### Balance Sheet at Cost Values North Dakota Farm Business Management Education Program Region 3 - South Central North Dakota, 2023 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	47	9	10	10
Assets				
Current Farm Assets	00 220	110.050	66.222	100 000
Cash and checking balance Prepaid expenses & supplies	98,238 270,526	119,050 62,528	-66,332 223,832	189,809 656,213
Growing crops	9,590	02,320	529	33,856
Accounts receivable	68,694	59,309	60,006	27,850
Hedging accounts	15,015	1	10,707	54,101
Crops held for sale or feed	1,699,110	704,955	1,141,421	4,689,902
Crops under government loan Market livestock held for sale	67,534	- 11,344	- 89,275	35,625
Other current assets	12,862	62,556	1,152	3,000
Total current farm assets	2,241,569	1,019,741	1,460,589	5,690,356
Intermediate Farm Assets	400.000	007.070	00.400	444.000
Breeding livestock	160,339	287,976	89,166	144,960
Machinery and equipment Titled vehicles	1,514,675 125,607	755,213 87,623	1,387,813 146,377	3,549,661 203,552
Other intermediate assets	39,193	167,355	850	7,673
Total intermediate farm assets	1,839,814	1,298,167	1,624,206	3,905,847
Long Term Farm Assets	4 005 000	4 074 040	4.057.700	0.404.000
Farm land Buildings and improvements	1,285,202 584,463	1,071,212 429,552	1,057,709 377,500	2,401,983 1,389,648
Other long-term assets	281,093	17,857	37,618	1,231,184
Total long-term farm assets	2,150,757	1,518,621	1,472,827	5,022,815
Total Farm Assets	6,232,140	3,836,529	4,557,623	14,619,018
Total Nonfarm Assets	431,963	209,798	615,053	730,164
Total Assets	6,664,104	4,046,327	5,172,677	15,349,181
Liabilities				
Current Farm Liabilities Accrued interest	49,965	95,390	40,075	65,617
Accounts payable	35,620	72,581	56,397	17,820
Current notes	781,012	633,794	578,862	1,858,789
Government crop loans	-	-	-	-
Principal due on term debt	121,897	115,020	129,608	197,525
Total current farm liabilities	988,494	916,784	804,943	2,139,751
Total intermediate farm liabs	283,244	341,130	277,618	523,981
Total long term farm liabilities	901,461	1,457,067	767,346	1,039,390
Total farm liabilities	2,173,198	2,714,981	1,849,907	3,703,122
Total nonfarm liabilities Total liabilities	69,048 2,242,246	95,245 2,810,226	24,557 1,874,465	153,638 3,856,760
	, ,			, ,
Net worth (farm and nonfarm)	4,421,858	1,236,101	3,298,212	11,492,421
Net worth change Percent net worth change	214,320 5 %	-253,179 -17 %	143,361 5 %	661,487 6 %
_	<b>3</b> /3	/	<b>3</b> /3	3 70
Ratio Analysis Current farm liabilities / assets	44 %	90 %	55 %	38 %
Intermediate farm liab. / assets	15 %	26 %	17 %	13 %
Long term farm liab. / assets	42 %	96 %	52 %	21 %
Total debt to asset ratio	34 %	69 %	36 %	25 %

#### Statement Of Cash Flows

### North Dakota Farm Business Management Education Program Region 3 - South Central North Dakota, 2023 (Farms Sorted By Net Farm Income)

	Avg. Of			
	All Farms	Low 20%	40 - 60%	High 20%
Number of farms	47	9	10	10
Beginning cash (farm & nonfarm)	129,427	106,030	92,561	211,384
Cash Provided By Operating Activities				
Gross cash farm income	2,062,430	1,587,909	2,073,528	3,887,949
Total cash farm expense	-1,536,069	-1,527,273	-1,396,698	-2,733,023
Net cash from hedging transactions	8,152	-	5,189	32,425
Cash provided by operating	534,514	60,637	682,019	1,187,351
Cash Provided By Investing Activities				
Sale of breeding livestock	18,495	11,636	28,860	12,277
Sale of machinery & equipment	152,831	14,444	77,177	542,255
Sale of titled vehicles	6,334	1,989	2,189	23,450
Sale of farm land	17,128	-	-	72,500
Sale of farm buildings	=	-	=	-
Sale of other farm assets	121,528	8,764	252	557,650
Sale of nonfarm assets	3,055	3,000	1,600	5,208
Purchase of breeding livestock	-23,441	-2,428	-55,331	-22,713
Purchase of machinery & equip.	-452,198	-76,996	-388,661	-1,264,593
Purchase of titled vehicles	-42,699	-	-86,705	-63,112
Purchase of farm land	-183,916	-	-118,409	-254,243
Purchase of farm buildings	-77,568	-30,318	-106,570	-158,568
Purchase of other farm assets	-172,944	-9,336	-81	-802,024
Purchase of nonfarm assets	-79,366	-90,076	-109,424	-100,169
Cash provided by investing	-712,761	-169,321	-755,103	-1,452,080
Cash Provided By Financing Activities				
Money borrowed	1,810,939	1,527,764	1,469,566	3,697,921
Principal payments	-1,511,475	-1,325,827	-1,345,642	-3,025,859
Personal income	38,476	12,890	41,367	75,056
Family living/owner withdrawals	-117,177	-79,908	-115,936	-205,940
Income and social security tax	-39,770	-4,356	-17,066	-131,885
Capital contributions	-	-	-	-
Capital distributions	-39,536	-	-11,700	-170,117
Dividends paid	-	-	-	-
Cash gifts and inheritances	38,802	-	-	20,000
Gifts given	-1,204	-	-	-
Other cash flows	13	-	59	-
Cash provided by financing	179,069	130,562	20,649	259,175
Net change in cash balance	821	21,878	-52,434	-5,554
Ending cash (farm & nonfarm)	130,273	128,040	40,162	204,981
Discrepancy	-26	-132	-36	849

#### Financial Standards Measures North Dakota Farm Business Management Education Program Region 3 - South Central North Dakota, 2023 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	47	9	10	10
Liquidity				
Current ratio	2.27	1.11	1.81	2.66
Working capital to gross revenue	61.5 %	6.9 %	36.3 %	85.4 %
Working capital to oper expense	84.7 %	7.1 %	48.4 %	131.4 %
Solvency (market)				
Farm debt to asset ratio	29 %	54 %	33 %	22 %
Farm equity to asset ratio	71 %	46 %	67 %	78 %
Farm debt to equity ratio	0.40	1.19	0.49	0.28
Profitability (cost)				
Rate of return on farm assets	4.4 %	-3.5 %	4.0 %	6.1 %
Rate of return on farm equity	4.3 %	-21.8 %	3.1 %	6.8 %
Operating profit margin	13.4 %	-10.3 %	10.2 %	20.5 %
Asset turnover rate	32.8 %	33.8 %	38.8 %	29.6 %
Repayment Capacity				
Debt coverage ratio	2.15	-0.08	1.79	4.02
Term debt coverage ratio	2.38	-0.25	1.89	4.84
Replacement coverage ratio	1.34	-0.07	1.20	1.89
Efficiency				
Operating expense ratio	72.6 %	96.8 %	74.9 %	65.0 %
Depreciation expense ratio	8.5 %	6.5 %	8.7 %	9.4 %
Interest expense ratio	4.6 %	9.3 %	5.2 %	2.9 %
Net farm income ratio	14.3 %	-12.5 %	11.2 %	22.7 %

#### Crop Production and Marketing Summary North Dakota Farm Business Management Education Program Region 3 - South Central North Dakota, 2023 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	47	9	10	10
Acreage Summary				
Total acres owned	1,313	799	1,276	2,368
Total crop acres	3,493	2,483	3,229	6,976
Crop acres owned	700	587	621	1,569
Crop acres cash rented	2,743	1,812	2,558	5,407
Crop acres share rented	50	84	50	· -
Total pasture acres	485	209	488	476
Percent crop acres owned	20 %	24 %	19 %	22 %
Mach invest/crop acre cost	436	343	419	500
Mach invest/crop acre market	552	399	511	643
Average Price Received (Cash Sales	Only)			
Soybeans per bushel	12.85	12.82	11.97	13.37
Wheat, Spring per bushel	8.75	7.92	8.47	8.77
Corn per bushel	5.86	-	5.80	6.12
Barley per bushel	7.57	-	-	-
Wheat, Durum per bushel	10.43	-	-	-
Sunflowers per cwt	26.82	-	-	_
Beans, Pinto per cwt	36.88	-	-	_
Canola per cwt	26.24	-	-	-
Average Yield Per Acre				
Soybeans (bushel)	40.52	36.68	37.68	42.94
Corn (bushel)	157.96	158.95	146.44	156.37
Wheat, Spring (bushel)	63.77	56.16	61.82	68.42
Sunflowers (cwt)	23.02	-	-	22.69
Beans, Pinto (cwt)	22.11	-	-	24.74
Barley (bushel)	80.43	-	84.07	-
Hay, Grass (ton)	1.32	-	-	-
Wheat, Durum (bushel)	50.95	-	50.31	-
Canola (cwt)	23.62	-	-	-
Hay, Small Grain (ton)	2.10	-	-	-
Hay, Mixed Alfalfa/Grass (ton)	1.73	-	-	-
Hay, Alfalfa (ton)	2.89	-	-	-
Corn Silage (ton)	17.58	-	-	-

#### Household and Personal Expenses North Dakota Farm Business Management Education Program Region 3 - South Central North Dakota, 2023 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms
Number of farms	8
Average family size	2.8
Family Living Expenses Food and meals expense Medical care Health insurance Cash donations Household supplies Clothing Personal care Child / Dependent care Alimony and child support Gifts Education Recreation Utilities (household share) Personal vehicle operating exp Household real estate taxes Dwelling rent Household repairs Personal interest Disability / Long term care ins Life insurance payments Personal property insurance Miscellaneous Total cash family living expense Family living from the farm Total family living	9,643 9,096 11,692 2,616 17,914 2,553 1,587 1,293 4,095 1,169 13,019 4,002 3,313 349 298 1,130 162 36 4,754 1,658 2,177 92,558 2,000 94,558
Other Nonfarm Expenditures Income taxes Furnishing & appliance purchases Nonfarm vehicle purchases Nonfarm real estate purchases Other nonfarm capital purchases Nonfarm savings & investments Total other nonfarm expenditures	56,321 179 10,940 82,645 1,459 5,530 157,074
Total cash family living investment & nonfarm capital purch	249,632

#### Operator and Labor Information North Dakota Farm Business Management Education Program Region 3 - South Central North Dakota, 2023 (Farms Sorted By Net Farm Income)

	Avg. Of			
	All Farms	Low 20%	40 - 60%	High 20%
Number of farms	47	9	10	10
Operator Information				
Average number of operators	1.2	1.3	1.0	1.6
Average age of operators	48.2	50.3	44.9	46.2
Average number of years farming	24.6	25.8	20.1	25.4
Results Per Operator				
Working capital	1,015,423	77,218	655,646	2,219,128
Total assets (market)	6,497,120	3,912,045	6,239,666	11,116,394
Total liabilities	1,816,993	2,107,669	1,874,465	2,410,475
Net worth (market)	4,680,127	1,804,375	4,365,201	8,705,919
Net worth excl deferred liabs	4,680,127	1,804,375	4,365,201	8,705,919
Gross farm income	1,650,606	1,120,084	1,807,406	2,598,015
Total farm expense	1,415,209	1,260,618	1,604,381	2,007,649
Net farm income from operations	235,396	-140,534	203,025	590,366
Net nonfarm income	31,179	9,667	41,367	46,910
Family living & tax withdrawals	125,116	61,129	132,966	207,338
Total acres owned	1,064.2	598.9	1,275.7	1,479.9
Total crop acres	2,830.8	1,862.4	3,228.5	4,359.9
Crop acres owned	566.9	439.9	620.6	980.6
Crop acres cash rented	2,223.0	1,359.4	2,557.8	3,379.3
Crop acres share rented	40.9	63.2	50.1	, -
Total pasture acres	392.8	156.9	487.8	297.5
Labor Analysis				
Number of farms	47	9	10	10
Total unpaid labor hours	2,513	1,544	2,530	3,630
Total hired labor hours	3,048	7,629	1,392	4,108
Total labor hours per farm	5,561	9,173	3,922	7,738
Unpaid hours per operator	2,036	1,158	2,530	2,269
Value of farm production / hour	355.25	143.38	450.14	535.16
Net farm income / unpaid hour	115.61	-121.32	80.25	260.22
Average hourly hired labor wage	28.52	22.66	31.89	37.54
Partnerships & LLCs				
Number of farms	7	2	-	4
Number of operators	2.3	- -	-	· -
Owner withdrawals per farm		-	-	_
Withdrawals per operator	-	-	-	-
• •				

## Nonfarm Summary North Dakota Farm Business Management Education Program Region 3 - South Central North Dakota, 2023 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
	All I dillis			
Number of farms	47	9	10	10
Nonfarm Income				
Personal wages & salary	21,820	11,386	31,616	30,541
Net nonfarm business income	6,427	-	4,480	23,581
Personal rental income	300	-	-	1,372
Personal interest income	2,443	58	6	7,755
Personal cash dividends	651	-	2,170	803
Tax refunds	2,052	1,445	2,811	5,208
Nontaxable personal inc.	13	-	59	-
Other nonfarm income	4,783	-	284	5,797
Total nonfarm income	38,489	12,890	41,427	75,056
Gifts and inheritances	38,802	-	-	20,000
Nonfarm Assets (market)				
Checking & savings	32,035	8,990	106,494	15,172
Stocks & bonds	5,502	-	13,500	11,583
Other current assets	19,649	29	61,028	27,320
Furniture & appliances	15,183	32,300	4,190	26,299
Nonfarm vehicles	39,442	27,285	45,904	70,255
Cash value of life ins.	16,163	15,903	1,908	50,177
Retirement accounts	97,547	28,779	150,885	168,366
Other intermediate assets	14,303	1,013	2,471	13,615
Nonfarm real estate	187,276	100,759	213,631	310,977
Personal bus. investment	7,487	-	10,313	17,783
Other long term assets	17,636	-	23,065	27,247
Total nonfarm assets	452,224	215,058	633,388	738,795
Nonfarm Liabilities				
Accrued interest	150	364	30	163
Accounts payable	18,338	9,830	2,760	72,035
Current notes	98	-	460	-
Princ due on term debt	4,043	3,309	5,183	6,387
Total current liabilities	22,629	13,502	8,433	78,584
Intermediate liabilities	8,681	13,910	14,970	7,727
Long term liabilities	37,738	67,832	1,154	67,327
Total nonfarm liabilities	69,048	95,245	24,557	153,638
Nonfarm net worth	383,175	119,813	608,830	585,157
Nonfarm debt to asset ratio	15 %	44 %	4 %	21 %

## Financial Summary North Dakota Farm Business Management Education Program Region 3 - South Central North Dakota, 2023 (Farms Sorted By Gross Farm Income)

	Avg. Of All Farms	250,001 - 500,000	500,001 - 1,000,000	1,000,001- 2,000,000	Over 2,000,000
Number of farms	47	7	10	14	14
Income Statement					
Gross cash farm income Total cash farm expense	2,062,430 1,536,069	389,722 322,292	791,091 662,765	1,429,296 1,053,245	4,719,607 3,452,467
Net cash farm income	526,362	67,430	128,326	376,051	1,267,140
Inventory change	-62,850	-30,483	46,579	-28,783	-210,734
Depreciation	-173,022	-34,368	-49,044	-110,554	-415,494
Net farm income from operations Gain or loss on capital sales	290,489 29,044	2,579 5,561	125,860 5,519	236,713 17,924	640,912 72,857
Average net farm income	319,533	8,140	131,379	254,637	713,769
Median net farm income	217,939	-7,663	178,177	246,069	536,751
Profitability (cost) Rate of return on assets	4.4 %	-1.7 %	5.4 %	5.9 %	4.2 %
Rate of return on assets	4.3 %	-4.7 %	5.3 %	6.4 %	4.1 %
Operating profit margin	13.4 %	-6.2 %	14.4 %	16.7 %	13.0 %
Asset turnover rate	32.8 %	27.4 %	37.4 %	35.3 %	32.1 %
Profitability (market) Rate of return on assets	5.3 %	-0.1 %	6.9 %	7.5 %	4.8 %
Rate of return on equity	5.5 %	-1.3 %	7.6 %	8.5 %	5.0 %
Operating profit margin	19.5 %	-0.6 %	26.2 %	27.7 %	17.1 %
Asset turnover rate	27.1 %	16.9 %	26.4 %	26.9 %	28.0 %
Liquidity & Repayment (end of year) Current assets	2,241,569	508,163	620,082	1,222,462	5,523,535
Current liabilities	988,494	149,394	386,219	437,269	2,526,087
Current ratio	2.27	3.40	1.61	2.80	2.19
Working capital	1,253,076	358,769	233,863	785,192	2,997,448
Change in working capital Working capital to gross revenue	-290,650 61.5 %	7,757 93.2 %	-32,017 28.2 %	-103,803 56.9 %	-855,392 64.5 %
Working capital to oper expense	84.7 %	109.1 %	38.5 %	82.9 %	88.1 %
Debt coverage ratio	2.15	1.20	1.74	1.81	2.42
Term debt coverage ratio Replacement coverage ratio	2.38 1.34	1.21 0.74	1.92 1.40	1.88 1.35	2.79 1.36
Term debt to EBITDA	1.99	4.60	2.43	2.74	1.63
Solvency (end of year at cost)		_			
Number of farms Total assets	47 6,664,104	7 1,579,360	10 2,508,473	14 4,368,504	14 15,223,571
Total liabilities	2,242,246	518,649	1,041,208	1,796,581	4,658,299
Net worth	4,421,858	1,060,711	1,467,266	2,571,922	10,565,272
Net worth change	214,320	-7,680	251,149	193,787	345,031
Farm debt to asset ratio Total debt to asset ratio	35 % 34 %	35 % 33 %	44 % 42 %	43 % 41 %	32 % 31 %
Change in earned net worth %	5 %	-1 %	21 %	8 %	3 %
Solvency (end of year at market)					
Number of farms	47	7	10	14	14
Total assets Total liabilities	8,017,723 2,242,246	2,440,207 518,649	3,388,964 1,041,208	5,685,166 1,796,581	17,349,600 4,658,299
Net worth	5,775,476	1,921,558	2,347,756	3,888,584	12,691,302
Total net worth change	339,011	14,655	351,669	342,748	528,361
Farm debt to asset ratio Total debt to asset ratio	29 % 28 %	22 % 21 %	32 % 31 %	32 % 32 %	28 % 27 %
Change in total net worth %	6 %	1 %	18 %	10 %	4 %
Nonfarm Information					
Net nonfarm income	38,476	40,040	26,606	55,399	29,739
Farms reporting living expenses Total family living expense	8 94,558	1	3	1	2
Total living, invest, cap. purch	249,632	-	- -	- -	-
Crop Acres	_ ,				_
Total crop acres	3,493	882 133	1,339	2,701	7,553 1,424
Total crop acres owned Total crop acres cash rented	700 2,743	133 706	293 996	630 2,038	1,424 6,059
Total crop acres share rented	50	43	50	33	70
Machinery value per crop acre	552	488	363	505	596

## Financial Summary North Dakota Farm Business Management Education Program Region 3 - South Central North Dakota, 2023 (Farms Sorted By Age of Operator)

		<u>, , , , , , , , , , , , , , , , , , , </u>			
	Avg. Of	24 40	44 50	E4 60	Over 60
Number of farms	<u>All Farms</u> 47	<b>31 - 40</b>	<b>41 - 50</b>	<b>51 - 60</b> 12	Over 60 11
	47	10	10	12	11
Income Statement Gross cash farm income	2,062,430	1.753.886	2.125.995	2,638,716	2,182,347
Total cash farm expense	1,536,069	1,755,660	1,628,196	2,030,710	1,642,030
Net cash farm income	526,362	605,243	497,799	611,607	540,317
Inventory change	-62,850	-240.116	-59.166	-153.460	106,909
Depreciation	-173,022	-128,690	-166,552	-216,591	-225,604
Net farm income from operations	290,489	236,437	272,081	241,556	421,622
Gain or loss on capital sales	29,044	29,731	40,604	33,493	23,617
Average net farm income	319,533	266,168	312,685	275,049	445,239
Median net farm income	217,939	252,707	211,219	211,899	186,214
Profitability (cost)	4.4 %	5.0 %	5.0 %	3.5 %	3.8 %
Rate of return on assets Rate of return on equity	4.4 % 4.3 %	5.0 % 5.3 %	5.0 % 5.3 %	3.5 % 2.6 %	3.8 % 3.7 %
Operating profit margin	13.4 %	13.5 %	13.1 %	9.9 %	15.5 %
Asset turnover rate	32.8 %	36.6 %	38.1 %	35.6 %	24.7 %
Profitability (market)					
Rate of return on assets	5.3 %	7.1 %	7.2 %	3.9 %	4.3 %
Rate of return on equity	5.5 %	8.6 %	9.2 %	3.3 %	4.3 %
Operating profit margin Asset turnover rate	19.5 % 27.1 %	21.8 % 32.6 %	21.9 % 33.1 %	13.7 % 28.1 %	21.7 % 19.9 %
Asset turnover fate	27.1 %	32.0 %	33.1 %	20.1 %	19.9 %
Liquidity & Repayment (end of year) Current assets	2,241,569	1,387,455	1,951,271	2,055,545	4,121,132
Current liabilities	988,494	627.427	1,186,544	1,158,183	1,288,943
Current ratio	2.27	2.21	1.64	1.77	3.20
Working capital	1,253,076	760,027	764,727	897,362	2,832,189
Change in working capital	-290,650	-289,723	-397,313	-373,095	-272,357
Working capital to gross revenue	61.5 %	49.4 %	37.5 %	34.9 %	118.9 %
Working capital to oper expense  Debt coverage ratio	84.7 % 2.15	69.2 % 2.09	51.7 % 1.63	45.3 % 1.35	170.6 % 4.69
Term debt coverage ratio	2.13	2.24	1.76	1.41	6.21
Replacement coverage ratio	1.34	1.34	1.26	0.97	1.68
Term debt to EBITDA	1.99	2.24	2.72	2.73	0.95
Solvency (end of year at cost)					
Number of farms	47	10	10	12	11
Total assets	6,664,104	4,689,676	6,079,732	7,481,002	10,074,024
Total liabilities Net worth	2,242,246 4,421,858	1,825,311 2,864,365	2,888,433 3,191,299	2,821,554 4,659,449	2,030,743 8,043,281
Net worth change	214,320	2,604,303	193,732	4,059,449 251,069	182.149
Farm debt to asset ratio	35 %	41 %	49 %	40 %	20 %
Total debt to asset ratio	34 %	39 %	48 %	38 %	20 %
Change in earned net worth %	5 %	9 %	6 %	6 %	2 %
Solvency (end of year at market)					
Number of farms	47	10	7 000 000	12	11
Total liabilities	8,017,723	5,263,616	7,008,933	9,322,136	12,451,206
Total liabilities Net worth	2,242,246 5,775,476	1,825,311 3,438,306	2,888,433 4,120,500	2,821,554 6,500,583	2,030,743 10,420,463
Total net worth change	339,011	340,302	387,752	348,039	328,158
Farm debt to asset ratio	29 %	36 %	43 %	32 %	16 %
Total debt to asset ratio	28 %	35 %	41 %	30 %	16 %
Change in total net worth %	6 %	11 %	10 %	6 %	3 %
Nonfarm Information	00.470	04.044	44.404	00.744	04.000
Net nonfarm income	38,476 8	61,211	41,491 3	26,711 2	34,688 2
Farms reporting living expenses Total family living expense	94,558	-	-	_	2
Total living, invest, cap. purch	249,632	-	-	-	-
Crop Acres					
Total crop acres	3,493	2,750	3,647	4,027	4,229
Total crop acres owned	700	566	553	776	1,100
Total crop acres cash rented	2,743	2,185	3,064	3,213	2,982
Total crop acres share rented  Machinery value per crop acre	50 552	- 564	30 468	38 570	147 636
masimory value per crop dole	302	JU <del>1</del>	700	310	030

## Financial Summary North Dakota Farm Business Management Education Program Region 3 - South Central North Dakota, 2023 (Farms Sorted By Farm Type)

	Avg. Of All Farms	Сгор
Number of farms	47	37
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	2,062,430 1,536,069 526,362 -62,850 -173,022 290,489 29,044 319,533 217,939	2,252,194 1,620,131 632,063 -73,047 -197,020 361,996 33,174 395,170 259,623
Profitability (cost) Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	4.4 % 4.3 % 13.4 % 32.8 %	4.9 % 5.0 % 14.9 % 32.7 %
Profitability (market) Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	5.3 % 5.5 % 19.5 % 27.1 %	5.8 % 6.2 % 20.9 % 27.6 %
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	2,241,569 988,494 2.27 1,253,076 -290,650 61.5 % 84.7 % 2.15 2.38 1.34 1.99	2,574,993 1,065,263 2.42 1,509,731 -332,935 68.4 % 97.3 % 2.45 2.75 1.44 1.73
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 %	47 6,664,104 2,242,246 4,421,858 214,320 35 % 34 % 5 %	37 7,419,797 2,384,261 5,035,535 233,917 33 % 32 % 5 %
Solvency (end of year at market) Number of farms Total assets Total liabilities Net worth Total net worth change Farm debt to asset ratio Total debt to asset ratio Change in total net worth %	47 8,017,723 2,242,246 5,775,476 339,011 29 % 28 % 6 %	37 8,732,679 2,384,261 6,348,417 365,662 28 % 27 % 6 %
Nonfarm Information Net nonfarm income Farms reporting living expenses Total family living expense Total living, invest, cap. purch	38,476 8 94,558 249,632	39,132 5 110,952 353,874
Crop Acres Total crop acres Total crop acres owned Total crop acres cash rented Total crop acres share rented Machinery value per crop acre	3,493 700 2,743 50 552	4,003 790 3,162 51 558

#### **EXPLANATORY NOTES FOR CROPS TABLES**

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

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

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

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

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

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

#### Barley on Owned Land

	Avg. Of All Farms
Number of farms	6
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	224.45 59.48 100.00 7.08 21.67 442.65 95.54 1.54 539.73
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drying expense Fuel & oil Repairs Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	28.06 70.14 34.17 23.08 0.89 17.52 37.73 12.33 0.90 224.83 314.90
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	9.38 8.43 5.72 7.73 5.90 4.57 2.17 65.55 30.03 6.68 146.16 370.99 168.74
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	168.74 24.63 144.11
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management  Net value per unit	3.78 6.24 4.24 4.65 7.08
Machinery cost per acre Est. labor hours per acre	103.90 0.82

#### Barley on Cash Rent

	Avg. Of All Farms
Number of farms	8
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	529.64 85.52 100.00 6.38 4.13 549.40 60.45 1.41 611.26
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	43.11 78.87 46.92 21.20 18.19 27.81 0.91 87.03 1.38 14.52 1.26 341.22 270.04
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	11.78 19.59 7.49 6.23 5.38 3.23 3.02 41.86 4.13 102.69 443.91 167.34
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	167.34 27.62 139.72
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	3.99 5.19 4.42 4.74
Net value per unit Machinery cost per acre Est. labor hours per acre	6.38 109.01 0.92

#### Beans, Pinto on Owned Land

	Avg. Of All Farms
Number of farms	5
Acres Yield per acre (cwt.) Operators share of yield % Value per cwt. Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	228.77 25.78 100.00 36.08 930.12 9.19 1.77 941.09
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	80.01 67.35 71.70 33.93 24.58 50.80 0.53 1.43 13.39 3.44 347.17 593.92
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	8.03 15.43 5.91 9.23 7.23 3.73 1.50 98.09 63.46 5.52 218.12 565.29 375.80
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	375.80 45.33 330.47
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	13.47 21.93 21.50 23.26
Net value per unit Machinery cost per acre Est. labor hours per acre	36.08 159.49 1.14

#### Beans, Pinto on Cash Rent

	Avg. Of All Farms
Number of farms	9
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	530.03 22.37 100.00 36.45 815.50 7.02 1.55 824.07
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	72.39 78.86 91.38 35.29 24.07 35.26 0.31 94.85 1.53 14.61 1.76 450.32 373.75
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	6.97 28.91 7.02 6.08 4.38 3.63 3.22 42.47 4.10 106.79 557.11 266.96
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	266.96 40.13 226.83
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	20.13 24.90 24.52 26.31
Net value per unit Machinery cost per acre Est. labor hours per acre	36.45 115.52 1.25

#### Canola on Cash Rent

	Avg. Of All Farms
Number of farms	5
Acres Yield per acre (cwt.) Operators share of yield % Value per cwt. Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	331.58 19.82 100.00 22.85 453.01 12.87 8.40 474.28
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	74.73 81.56 49.08 32.83 15.06 38.63 1.99 80.68 1.68 17.82 4.91 398.97 75.31
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	26.50 9.04 5.11 5.42 3.02 0.72 4.20 36.62 4.37 95.00 493.97 -19.69
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	-19.69 28.92 -48.60
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	20.12 24.92 23.84 25.30
Net value per unit Machinery cost per acre Est. labor hours per acre	22.85 126.58 0.85

#### Corn on Owned Land

	Avq. Of All Farms
Number of farms	16
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Other product return per acre Total product return per acre Hedging gains/losses per acre Crop insurance per acre Other crop income per acre Gross return per acre	345.22 155.85 100.00 4.49 4.96 704.59 2.16 1.00 0.79 708.55
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drying expense Fuel & oil Repairs Custom hire Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	87.55 165.86 43.82 33.45 7.56 27.55 58.63 4.83 0.81 17.86 2.27 450.20 258.35
Overhead Expenses Custom hire Hired labor Machinery leases Building leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	3.77 19.85 5.68 0.20 9.20 6.38 4.53 1.41 72.06 69.27 7.11 199.47 649.67 58.88
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	58.88 49.86 9.02
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	2.89 4.17 4.11 4.43
Net value per unit Machinery cost per acre Est. labor hours per acre	4.50 171.53 1.55

#### Corn on Cash Rent

	Avg. Of All Farms	40 - 60%	High 20%
Number of farms	24	5	5
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Other product return per acre Total product return per acre Hedging gains/losses per acre Crop insurance per acre Other crop income per acre Gross return per acre	808.21 155.55 100.00 4.56 3.72 712.85 1.58 2.45 1.20 718.08	859.40 160.90 100.00 4.66 - 749.91	740.47 145.68 100.00 4.81 19.48 719.56 8.30 3.20 1.70 732.76
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drying expense Fuel & oil Repairs Custom hire Land rent Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	88.22 171.21 36.44 36.26 3.47 28.45 41.18 2.59 91.73 1.21 17.90 1.84 520.49 197.59	102.67 187.06 38.07 38.39 2.57 25.40 54.17 1.28 81.68 2.69 24.26 3.31 561.55 188.36	81.08 119.87 36.11 28.52 25.10 36.39 0.55 78.27 0.52 13.91 0.74 421.06 311.70
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	5.78 30.22 7.39 0.24 5.44 4.56 3.21 3.09 74.05 5.20 139.18 659.67 58.41	21.40 4.60 0.81 5.97 5.04 0.64 4.62 76.22 7.20 126.50 688.05 61.86	6.46 34.33 10.82 0.12 6.08 2.76 0.70 4.22 53.30 3.00 121.78 542.85 189.92
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	58.41 48.41 10.00	61.86 55.36 6.50	189.92 42.38 147.54
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	3.35 4.24 4.18 4.49	3.49 4.28 4.28 4.62	2.89 3.73 3.50 3.79
Net value per unit Machinery cost per acre Est. labor hours per acre	4.57 156.10 1.58	4.66 159.26 1.73	4.86 132.95 1.47

#### Hay, Grass 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	375.43 1.17 100.00 70.56 82.26 82.26
Direct Expenses Seed and plants Fertilizer Crop chemicals Fuel & oil Repairs Custom hire Land rent Operating interest Total direct expenses per acre Return over direct exp per acre	0.86 0.46 0.70 10.24 27.06 0.35 25.35 7.89 72.91 9.34
Overhead Expenses Custom hire Hired labor Machinery leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	0.52 8.78 0.90 0.83 1.44 1.48 1.01 15.49 22.51 52.95 125.86 -43.61
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	-43.61 17.08 -60.69
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	62.54 107.97 107.97 122.62
Net value per unit Machinery cost per acre Est. labor hours per acre	70.56 53.68 0.81

# Hay, Small Grain 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 Other crop income per acre Gross return per acre	80.58 1.92 100.00 88.13 169.38 8.07 177.45
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	21.28 44.08 21.03 4.61 11.81 21.57 22.43 42.81 1.02 190.64 -13.18
Overhead Expenses Custom hire Hired labor Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	0.87 2.45 4.53 3.77 1.39 2.31 27.78 4.42 47.53 238.16 -60.71
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	-60.71 27.84 -88.54
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	99.19 123.92 119.72 134.20
Net value per unit Machinery cost per acre Est. labor hours per acre	88.13 84.77 1.40

#### Pasture on Owned Land

	Avg. Of All Farms
Number of farms	6
Acres Yield per acre (aum) Operators share of yield % Value per aum Total product return per acre Crop insurance per acre Gross return per acre	818.73 1.05 100.00 23.55 24.67 1.53 26.20
Direct Expenses Crop insurance Fuel & oil Repairs Miscellaneous Total direct expenses per acre Return over direct exp per acre	1.90 0.47 1.07 0.18 3.62 22.57
Overhead Expenses  Hired labor  RE & pers. property taxes Interest  Mach & bldg depreciation  Miscellaneous  Total overhead expenses per acre  Total dir & ovhd expenses per acre  Net return per acre	0.25 4.78 6.86 1.23 1.14 14.26 17.89 8.31
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	8.31 0.80 7.52
Cost of Production Total direct expense per aum Total dir & ovhd exp per aum Less govt & other income With labor & management	3.46 17.07 15.61 16.37
Net value per unit Machinery cost per acre Est. labor hours per acre	23.55 2.88 0.04

#### Pasture on Cash Rent

	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 Crop insurance per acre Gross return per acre	1,272.84 1.06 100.00 24.50 25.95 7.37 33.32
Direct Expenses Fuel & oil Repairs Land rent Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	0.62 0.96 23.96 0.30 0.45 26.29 7.03
Overhead Expenses Hired labor Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	0.49 1.35 1.04 2.89 29.18 4.14
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	4.14 0.98 3.16
Cost of Production Total direct expense per aum Total dir & ovhd exp per aum Less govt & other income With labor & management	24.82 27.55 20.59 21.51
Net value per unit Machinery cost per acre Est. labor hours per acre	24.50 3.01 0.04

# Prevented planting on Owned Land

	Avg. Of All Farms
Number of farms	7
Acres Yield per acre Operators share of yield % Value per 0 Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	51.11 - - - 316.31 3.50 319.81
Direct Expenses Seed and plants Crop chemicals Crop insurance Fuel & oil Repairs Operating interest Total direct expenses per acre Return over direct exp per acre	2.36 22.85 27.39 5.70 14.64 3.01 75.96 243.86
Overhead Expenses  Hired labor Machinery leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	2.31 0.59 9.76 6.19 6.07 2.18 83.87 11.18 6.09 128.23 204.19 115.62
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	115.62 11.48 104.14
Net value per unit Machinery cost per acre Est. labor hours per acre	39.39 0.33

# Prevented planting on Cash Rent

	Avg. Of All Farms
Number of farms	12
Acres Yield per acre	172.67
Operators share of yield % Value per 0	-
Total product return per acre Crop insurance per acre	455.65
Other crop income per acre	4.97
Gross return per acre	460.61
Direct Expenses Seed and plants	7.44
Crop chemicals Crop insurance	1.02 91.62
Fuel & oil Repairs	5.19 7.70
Land rent Organic certification	72.11 0.57
Operating interest Total direct expenses per acre	1.34 186.98
Return over direct exp per acre	273.63
Overhead Expenses Custom hire	0.29
Hired labor Machinery leases	4.06 0.67
Farm insurance Utilities	3.63
Dues & professional fees	2.98 3.06
Interest Mach & bldg depreciation	2.07 15.31
Miscellaneous  Total overhead expenses per acre	3.20 35.29
Total dir & ovhd expenses per acre Net return per acre	222.27 238.34
Government payments	200.04
Net return with govt pmts	238.34 10.49
Labor & management charge Net return over lbr & mgt	227.85
Net value per unit Machinery cost per acre	29.98
Est. labor hours per acre	0.37

# Soybeans on Owned Land

	Ava. Of _All Farms	40 - 60%	High 20%
Number of farms	22	5	5
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Hedging gains/losses per acre Crop insurance per acre Other crop income per acre Gross return per acre	464.56 41.24 100.00 12.38 510.69 0.69 12.08 1.07 524.53	622.68 41.17 100.00 12.23 503.55 - 1.30 504.85	398.39 46.69 100.00 12.75 595.33 - 19.93 0.62 615.88
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	60.02 15.85 44.66 22.75 16.04 31.80 2.87 0.64 8.49 1.74 204.87 319.66	54.64 14.29 47.59 23.69 16.81 35.75 - 11.70 2.56 207.05 297.81	60.58 10.77 31.94 14.95 18.63 40.11 - 0.99 1.98 1.77 181.72 434.16
Overhead Expenses Custom hire Hired labor Machinery leases Building leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	2.15 9.33 2.37 0.19 8.79 5.29 4.38 1.49 51.91 44.53 7.34 137.77 342.64 181.89	2.60 3.58 2.49 0.54 8.97 4.69 3.98 0.94 44.78 56.53 7.37 136.48 343.52 161.33	17.84 2.71 0.14 7.56 4.19 3.38 1.82 15.88 47.53 6.23 107.27 288.99 326.89
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	181.89 30.57 151.32	161.33 34.77 126.55	326.89 35.85 291.04
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management Net value per unit	4.97 8.31 7.97 8.71 12.40	5.03 8.35 8.31 9.16	3.89 6.19 5.75 6.52 12.75
Machinery cost per acre Est. labor hours per acre	100.92 1.00	113.96 0.93	109.20 1.22

# Soybeans on Cash Rent

	Avg. Of All Farms	Low 20%	40 - 60%	_ High 20%
Number of farms	32	6	7	7
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Hedging gains/losses per acre Crop insurance per acre Other crop income per acre Gross return per acre	1,034.42 40.74 100.00 12.34 502.69 1.25 6.00 1.59 511.53	448.93 25.68 100.00 12.07 310.01 22.50 3.89 336.41	1,304.37 37.47 100.00 12.23 458.34 - 7.81 2.29 468.44	867.47 49.33 100.00 12.50 616.51 6.83 3.06 0.99 627.38
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	65.68 14.82 42.28 19.87 17.21 25.86 1.52 80.29 0.58 8.49 1.02 277.62 233.91	63.95 18.71 38.62 14.33 12.71 22.69 10.32 53.49 9.54 3.60 247.97 88.44	65.91 15.35 36.05 18.47 15.80 21.82 2.00 72.72 7.93 0.35 256.38 212.06	63.49 28.05 43.26 15.55 17.86 27.90 - 78.70 2.30 8.20 2.29 287.60 339.78
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	3.44 13.74 3.88 5.10 3.74 2.59 3.10 42.35 6.06 84.01 361.63 149.90	12.09 1.82 4.62 4.11 3.97 0.72 5.55 47.38 7.75 88.00 335.97 0.44	5.50 9.03 3.51 5.56 3.00 1.42 3.82 29.36 5.50 66.69 323.07 145.36	0.07 22.88 7.17 6.48 3.58 0.66 3.13 42.55 3.89 90.40 378.01 249.38
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	149.90 26.96 122.94	0.44 35.83 -35.40	145.36 19.92 125.45	249.38 30.86 218.52
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	6.81 8.88 8.66 9.32	9.66 13.08 12.06 13.45	6.84 8.62 8.35 8.88	5.83 7.66 7.44 8.07
Net value per unit Machinery cost per acre Est. labor hours per acre	12.37 93.17 0.95	12.07 110.64 1.13	12.23 77.07 0.84	12.63 97.47 1.02

#### Sunflowers on Owned Land

	Avg. Of All Farms
Number of farms	5
Acres Yield per acre (cwt.) Operators share of yield % Value per cwt. Total product return per acre Gross return per acre	544.72 25.19 100.00 18.83 474.31 474.31
Direct Expenses  Seed and plants Fertilizer Crop chemicals Crop insurance Drying expense Fuel & oil Repairs Custom hire Operating interest Total direct expenses per acre Return over direct exp per acre	33.83 72.26 48.55 22.83 2.55 21.80 21.19 13.06 0.33 236.40 237.91
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	2.48 13.59 0.42 6.90 5.53 2.42 2.02 5.01 30.05 10.06 78.48 314.88 159.44
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	159.44 15.28 144.15
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	9.39 12.50 12.50 13.11
Net value per unit Machinery cost per acre Est. labor hours per acre	18.83 80.18 1.31

#### Sunflowers on Cash Rent

	Avg. Of All Farms
Number of farms	8
Acres Yield per acre (cwt.) Operators share of yield % Value per cwt. Total product return per acre Crop insurance per acre Gross return per acre	460.36 21.51 100.00 19.46 418.45 0.69 419.14
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	35.59 80.69 44.39 18.40 25.78 34.82 13.48 86.66 5.02 0.13 344.95 74.19
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	3.84 16.30 4.17 5.04 3.89 3.47 0.53 56.94 7.01 101.19 446.14 -27.00
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	-27.00 34.73 -61.73
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management  Net value per unit	16.04 20.74 20.71 22.33
Machinery cost per acre Est. labor hours per acre	134.55 1.23

# Wheat, Spring on Owned Land

	Avq. Of All Farms
Number of farms	14
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Hedging gains/losses per acre Crop insurance per acre Other crop income per acre Gross return per acre	387.40 64.50 100.00 6.70 432.29 0.85 3.36 2.32 438.82
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drying expense Fuel & oil Repairs Custom hire Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	25.45 96.34 45.65 22.64 0.52 16.74 22.58 6.09 0.83 4.80 1.48 243.12 195.70
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	2.31 10.87 0.91 7.36 6.44 3.23 1.37 39.09 32.85 7.66 112.08 355.20 83.62
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	83.62 20.65 62.98
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	3.77 5.51 5.41 5.73
Net value per unit Machinery cost per acre Est. labor hours per acre	6.72 79.43 1.11

# Wheat, Spring on Cash Rent

	Avg. Of All Farms
Number of farms	19
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Hedging gains/losses per acre Crop insurance per acre Other crop income per acre Gross return per acre	953.05 64.42 100.00 6.92 445.53 1.30 5.40 2.09 454.32
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	25.25 102.09 49.31 19.50 17.70 24.93 2.88 72.59 0.98 5.57 1.69 322.50 131.83
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	2.03 12.41 3.00 5.62 3.43 1.59 1.98 37.02 7.23 74.30 396.80 57.52
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	57.52 28.11 29.41
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	5.01 6.16 6.02 6.46
Net value per unit Machinery cost per acre Est. labor hours per acre	6.94 85.78 1.07

#### **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 -- Average Per Cwt. Produced

	Avg. All Fa	
Number of farms		8
Beef Calves sold (lb) Transferred out (lb) Cull sales (lb) Insurance income Government payments Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 56.33 56.29 - -0.10 -7.62 -6.08	Value 147.67 149.85 43.79 0.46 2.65 2.50 -45.69 -23.68 4.99 282.55
Direct Expenses Protein Vit Minerals (lb.) Aftermath Grazing (aum) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) DDGS, dry (lb.) Hay (lb.) Other feed stuffs (lb) Veterinary Fuel & oil Repairs Hired labor Marketing Miscellaneous Total direct expenses Return over direct expense	24.69 0.18 538.96 280.96 790.53 1.70 45.92 130.23 453.13	4.67 14.92 9.60 15.90 30.41 39.30 3.80 4.24 13.72 7.34 7.18 12.79 0.78 1.54 12.12 178.32 104.22
Overhead Expenses Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		12.07 23.27 35.34 213.66 68.88
Labor & management charge Net return over lbr & mgt		20.95 47.93
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		178.32 213.66 224.69 245.64
Est. labor hours per unit		0.97
Other Information Number of cows Pregnancy percentage Pregnancy loss percentage Culling percentage Calving percentage Weaning 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.		300.0 94.1 2.7 14.1 91.6 80.7 0.85 13.4 1.6 736.4 521 421 535.40 518 262.17

# Beef Cow-Calf -- Average Per Cow

		Avg. Of All Farms	
Number of farms		8	
Beef Calves sold (lb) Transferred out (lb) Cull sales (lb) Insurance income Government payments Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 220.8 220.70.4 -29.9 -23.9	Value 578.92 587.46 171.68 1.82 10.41 9.82 -179.12 -92.83 19.55 1,107.70	
Direct Expenses Protein Vit Minerals (lb.) Aftermath Grazing (aum) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) DDGS, dry (lb.) Hay (lb.) Other feed stuffs (lb) Veterinary Fuel & oil Repairs Marketing Miscellaneous Total direct expenses Return over direct expense	96.8 0.7 2,112.9 1,101.5 3,099.2 6.7 180.0 510.6 1,776.5	18.29 58.51 37.65 62.33 119.21 154.08 14.91 16.62 53.80 28.78 28.14 50.15 6.05 50.58 699.10 408.59	
Overhead Expenses Hired labor Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		42.38 47.32 48.84 138.54 837.64 270.06	
Labor & management charge Net return over lbr & mgt		82.14 187.92	
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		178.32 213.66 224.69 245.64	
Est. labor hours per unit		3.80	
Other Information Number of cows Pregnancy percentage Pregnancy loss percentage Culling percentage Calving percentage Weaning 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.		300.0 94.1 2.7 14.1 91.6 80.7 0.85 13.4 1.6 736.4 521 421 535.40 518 262.17	

# Beef Backgrounding -- Average Per Cwt. Produced

	Avg. Of All Farms	
Number of farms		5
Backgnd Beef sold (lb) Transferred out (lb) Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 437.77 0.82 -49.01 -380.99 86.49	Value 857.94 2.07 8.30 -86.80 -878.48 277.26 180.29
Direct Expenses Midds (lb.) Protein Vit Minerals (lb.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) Screenings, Heavy (lb.) DDGS, dry (lb.) Other feed stuffs (lb) Repairs Hauling and trucking Operating interest Miscellaneous Total direct expenses Return over direct expense	65.16 10.27 0.95 562.49 89.28 159.52 0.36 87.85 186.78 308.15	5.11 6.88 6.52 10.79 4.64 5.91 7.86 7.26 14.13 5.80 5.26 1.97 2.72 8.43 93.27 87.02
Overhead Expenses Hired labor Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		4.85 5.15 5.14 15.14 108.41 71.88
Labor & management charge Net return over lbr & mgt		7.87 64.02
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		176.24 179.70 179.70 181.49
Est. labor hours per unit		0.36
Other Information No. purchased or trans in Number sold or trans out Percentage death loss Avg. daily gain (lb.) Lb. of conc / lb. of gain Lb. of feed / lb. of gain Feed cost per cwt. of gain Feed cost per head Hired labor per head Average purchase weight Avg wgt / Backgnd Beef sold Avg purch price / cwt. Avg sales price / cwt.		286 227 0.5 1.61 4.85 11.45 74.90 153.48 9.93 459 746 177.09 195.98

# Beef Backgrounding -- Average Per Head

	Avg. Of All Farms	
Number of farms		5
Backgnd Beef sold (lb) Transferred out (lb) Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 897.1 1.7 -100.4 -780.7 177.2	Value 1,758.07 4.25 17.00 -177.86 -1,800.15 568.15 369.45
Direct Expenses Midds (lb.) Protein Vit Minerals (lb.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) Screenings, Heavy (lb.) DDGS, dry (lb.) Other feed stuffs (lb) Repairs Hauling and trucking Operating interest Miscellaneous Total direct expenses Return over direct expense	133.5 21.0 1.9 1,152.6 182.9 326.9 0.7 180.0 382.8 631.5	10.47 14.11 13.35 22.10 9.51 12.11 16.10 14.87 28.96 11.89 10.78 4.03 5.57 17.27 191.13
Overhead Expenses Hired labor Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		9.93 10.54 10.54 31.02 222.15 147.30
Labor & management charge Net return over lbr & mgt		16.12 131.18
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		176.24 179.70 179.70 181.49
Est. labor hours per unit		0.74
Other Information No. purchased or trans in Number sold or trans out Percentage death loss Avg. daily gain (lb.) Lb. of conc / lb. of gain Lb. of feed / lb. of gain Feed cost per cwt. of gain Feed cost per head Hired labor per head Average purchase weight Avg wgt / Backgnd Beef sold Avg purch price / cwt. Avg sales price / cwt.		286 227 0.5 1.61 4.85 11.45 74.90 153.48 9.93 459 746 177.09 195.98

# Figure 1. Net Farm Income (Accrual) Per Farm

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

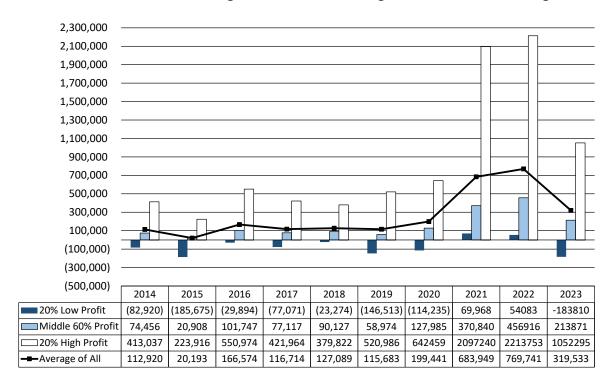
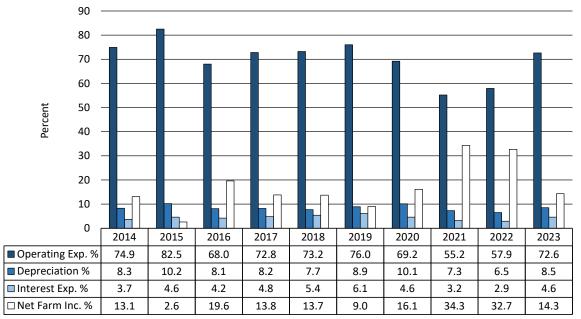


Figure 2. Financial Efficiency Measures (As Percent of Gross Revenue)

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



# Figure 3. Profitability Measures Per Farm

N.D. Farm Business Management Education Program - South Central Region

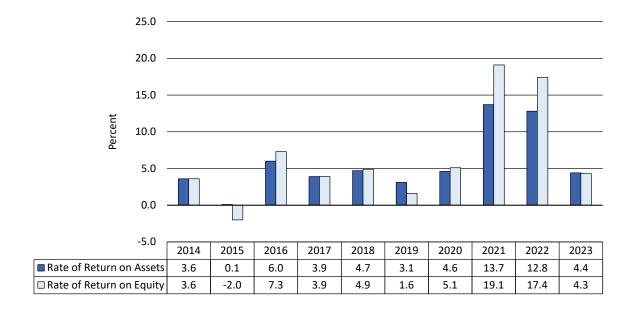
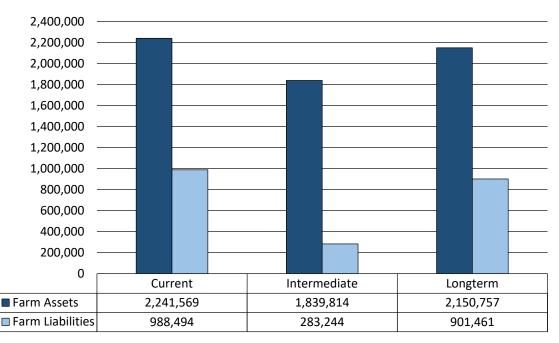


Figure 4. Assets and Liabilities Per Farm, 2023

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



# Figure 5. Spring Wheat Costs Per Acre

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

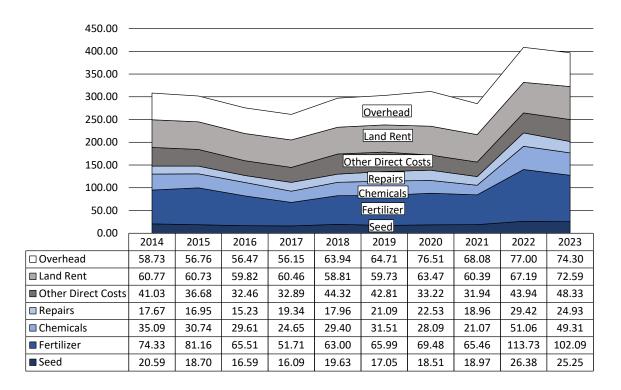
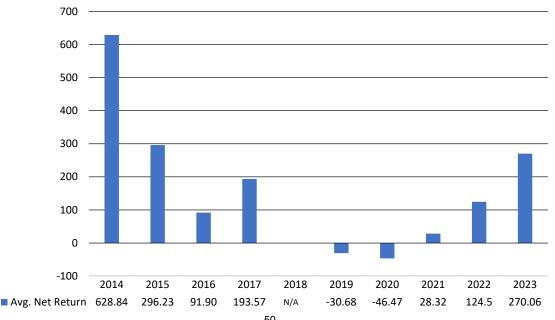


Figure 6. Average Net Return Per Beef Cow

N.D. Farm Business Management Education Program - South Central Region





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