# 2013 ANNUAL REPORT Region 2

North Dakota Farm and Ranch Business Management Education

# **Regional Reporting Areas**



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# NORTH DAKOTA FARM BUSINESS MANAGEMENT EDUCATION

## REGION 2 – NORTH CENTRAL AVERAGES 2013 ANNUAL REPORT

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

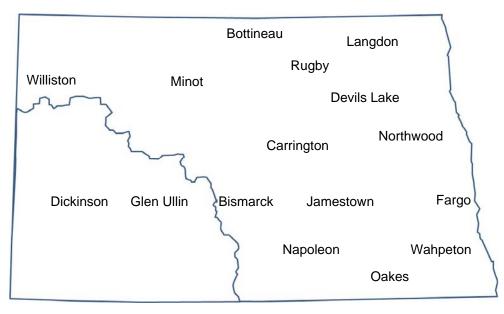
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This report was made possible by the farm families who cooperated with their farm management instructors in getting the records for 2013 closed out on a timely basis. The farm management instructors cited above generated the Finpack year-end farm analyses. Andrew Swenson, NDSU Extension Service, databased the Finpack analyses of farms and generated the comparative tables for this report.

Location of all Farm Business Management Education Programs in North Dakota



# 2013 North Central Report North Dakota Farm Business Management Education

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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 2013 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 25th 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, 3 and 4 identified on the North Dakota map. Most farms in Region 1 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 <a href="https://www.ndfarmmanagement.com">www.ndfarmmanagement.com</a>.

## 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 table lists cash farm income from all sources. There are three possible sources of cash income from crops. The first is income from cash sales. The second is income from crops stored under government loan programs when the loan is treated as income for the year in which the crop was stored. If the crop value has not been entered as income when it was stored, then it would be treated as cash income in the year it was sold. The third is Net Government Sales, which refers to the difference between income credited in the year a crop was stored and the actual cash income received at the time it was sold. There are two categories of cash income from livestock sales. "Raised" steer, hogs, and lambs refer to animals raised from birth to market weight on the farm. "Finished" animals refers to those purchased as feeders and fed to market weight. Government payments are grouped as "Direct, CCP & ACRE pymts;" "LDP payments" which are loan deficiency payments that may be received on production when local prices are below the county loan rate for the crop; "Other government payments; and CRP payments.

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

The difference between "Gross Cash Farm Income" and "Total Cash 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 operator's and family's unpaid labor, management, and equity capital (net worth). In other words, it represents the return to all of the resources 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 \$20,000 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.

#### Solvency

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

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

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

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

#### **Profitability**

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

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

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

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

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

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

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

#### **Repayment Capacity**

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

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

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

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

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

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

#### Efficiency

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

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

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

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

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

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

#### **Crop Production and Marketing Summary**

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

#### **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 Region 2 - North Central North Dakota, 2013 (Farms Sorted By Net Farm Income)

	Avg. Of			
	All Farms	Low 20%	40 - 60%	High 20%
Number of farms	162	32	33	33
Cash Farm Income				
Barley	61,405	20,112	34,256	168,160
Beans, Black Turtle	2,140	812	-	1,963
Beans, Garbonzo	146	-	-	-
Beans, Navy	437	-	-	2,145
Beans, Pinto	31,527	8,707	17,099	68,667
Canola	71,670	18,814	78,025	171,391
Corn	49,075	25,208	28,856	96,928
Flax	3,205	383	750	8,116
Hay, Grass	674	57	145	2,344
Hay, Mixed	843	83	1,149	-
Lentils	893	-	-	-
Oats	174	128	619	-
Peas, Field	4,657	161	4,865	7,494
Potatoes	6,110	-	-	-
Soybeans	117,922	79,399	106,740	200,332
Straw	83	-	170	-
Sunflowers	9,707	1,184	912	20,936
Sunflowers, Confectionary	2,277	1,914	1,712	5,108
Wheat, Durum	7,851	687	2,259	8,248
Wheat, Spring	125,427	52,573	114,693	237,310
Wheat, Winter	9,744	4,976	2,616	20,174
Soybeans, Food	656	-	-	-
Wheat, Spring, Organic	93	472	-	-
Miscellaneous crop income	250	24	-	-
Beef Bulls	57	-	182	-
Beef Cow-Calf, Beef Calves	22,337	28,126	29,892	13,870
Beef Replacement Heifers	812	1,010	146	-
Beef Backgrounding	14,937	11,090	29,137	10,512
Beef Finish Yearlings	123	-	-	-
Beef Grazing	1,764	3,039	5,712	-
Sheep, Market Lamb Prod, Mkt Lamb	235	1,188	-	-
Sheep, Market Lamb Prod, Wool	32	162	-	-
Cull breeding livestock	6,562	5,995	7,774	3,986
Misc. livestock income	694	1,934	-	-
Direct, CCP & ACRE pymts	16,722	9,353	15,089	32,143
CRP payments	1,332	1,910	489	1,967
Other government payments	20,956	11,664	11,456	43,663
Custom work income	5,682	3,635	6,141	11,667
Patronage dividends, cash	13,552	5,499	12,608	28,204
Crop insurance income	124,193	72,091	99,248	261,040
Property insurance income	2,330	2,085	1,022	4,121
Sale of resale items	283	-	-	-
Other farm income	12,521	8,696	7,593	21,865
Gross Cash Farm Income	752,096	383,170	621,355	1,452,354

#### Farm Income Statement (Continued) North Dakota Farm Business Management Education Region 2 - North Central North Dakota, 2013 (Farms Sorted By Net Farm Income)

	Avg. Of AII Farms	Low 20%	<b>40 - 60%</b>	High 20%
Number of farms	162	32	33	33
Cash Farm Expense Seed Fertilizer Crop chemicals Crop insurance Drying expense Storage	55,567 81,142 55,367 35,526 679 282	34,285 41,400 29,038 15,847 158 38	49,724 70,828 35,591 28,841 303 154	96,995 149,871 109,973 68,777 1,865 786
Irrigation energy Crop marketing Crop miscellaneous Consultants Feeder livestock purchase Purchased feed Breeding fees Veterinary Supplies Livestock leases Livestock leases Livestock marketing Interest CCC buyback Fuel & oil Repairs Custom hire Hired labor Land rent Machinery leases Building leases Real estate taxes Farm insurance Utilities Dues & professional fees Miscellaneous Total cash expense Net cash farm income	$\begin{array}{c} 108\\ 281\\ 740\\ 73\\ 4,446\\ 6,846\\ 69\\ 1,569\\ 1,524\\ 84\\ 295\\ 23,937\\ 2,461\\ 38,309\\ 49,191\\ 12,203\\ 14,202\\ 60,280\\ 6,308\\ 326\\ 4,282\\ 8,099\\ 6,468\\ 2,127\\ 4,813\\ 477,606\\ 274,490\end{array}$	90 147 8,108 9,444 41 2,335 1,665 355 16,225 22,936 35,442 6,691 7,808 32,201 1,925 2,554 7,238 5,556 1,600 4,682 287,809 95,361	$\begin{array}{c} - \\ 225 \\ 408 \\ 9,638 \\ 9,717 \\ 170 \\ 1,760 \\ 1,620 \\ 191 \\ 485 \\ 23,069 \\ 4,410 \\ 39,105 \\ 4,410 \\ 39,105 \\ 41,412 \\ 9,327 \\ 8,672 \\ 64,771 \\ 7,987 \\ 569 \\ 2,592 \\ 5,941 \\ 5,176 \\ 1,442 \\ 2,975 \\ 427,103 \\ 194,252 \end{array}$	561 1,101 359 844 2,108 726 1,121 230 43,237 3,263 64,062 79,493 18,235 29,303 104,143 12,292 948 8,199 14,240 10,197 3,753 6,449 833,132 619,222
Inventory Changes Prepaids and supplies Accounts receivable Hedging accounts Other current assets Crops and feed Market livestock Breeding livestock Other assets Accounts payable Accrued interest Total inventory change Net operating profit	-4,261 -9,803 471 4,268 -64,097 3,039 748 1,913 -1,028 21 -68,728 205,762	-11,800 -24,350 -149 5,107 -32,841 7,347 -441 954 -1,032 -2,893 -60,097 35,264	2,672 2,242 -90 1,523 -58,137 -661 2,878 962 -3,133 1,263 -50,480 143,772	-23,887 4,603 1,853 5,684 -114,115 2,497 1,892 5,454 353 4,810 -110,856 508,366
Depreciation Machinery and equipment Titled vehicles Buildings and improvements Total depreciation	-30,632 -3,792 -3,507 -37,931	-18,784 -3,623 -1,486 -23,893	-17,711 -1,837 -1,146 -20,694	-61,742 -6,665 -8,017 -76,424
Net farm income from operations Gain or loss on capital sales	167,831 1,940	11,371 249	123,078 -179	431,942 3,664
Net farm income	169,771	11,620	122,900	435,606

## Inventory Changes North Dakota Farm Business Management Education Region 2 - North Central North Dakota, 2013 (Farms Sorted By Net Farm Income)

	Avg. Of <u>All Farms</u>	Low20%	<u> </u>	<u> </u>
Number of farms	162	32	33	33
Net cash farm income	274,490	95,361	194,252	619,222
Crops and Feed Ending inventory Beginning inventory Inventory change	359,271 423,368 -64,097	133,323 166,163 -32,841	226,672 284,809 -58,137	875,518 989,632 -114,115
Market Livestock Ending inventory Beginning inventory Inventory change	32,698 29,659 3,039	36,585 29,239 7,347	42,909 43,570 -661	25,021 22,524 2,497
Accts Receivable Ending inventory Beginning inventory Inventory change	14,277 24,080 -9,803	16,990 41,340 -24,350	13,100 10,858 2,242	16,633 12,029 4,603
Prepaid Expenses and Supplies Ending inventory Beginning inventory Inventory change	57,019 61,280 -4,261	14,657 26,458 -11,800	35,841 33,169 2,672	134,010 157,897 -23,887
Hedging Activities Ending inventory Withdrawals Beginning inventory Deposits Gain or loss	2,698 582 2,407 401 471	89 - 83 156 -149	98 738 320 606 -90	5,810 - 3,385 573 1,853
Other Current Assets Ending inventory Beginning inventory Inventory change	5,214 946 4,268	5,763 656 5,107	2,105 582 1,523	7,117 1,433 5,684
Breeding Livestock Ending inventory Capital sales Beginning inventory Capital purchases Depreciation, capital adjust	57,457 2,485 51,111 8,083 748	74,988 3,398 65,657 13,170 -441	70,986 5,219 62,628 10,699 2,878	35,580 89 30,940 2,837 1,892
Other Capital Assets Ending inventory Capital sales Beginning inventory Capital purchases Depreciation, capital adjust	58,192 2,415 52,306 6,388 1,913	14,525 364 13,442 492 954	38,432 4,121 33,309 8,281 962	133,860 5,352 121,918 11,839 5,454
Accounts Payable Beginning inventory Ending inventory Inventory change	10,122 11,150 -1,028	7,270 8,302 -1,032	13,585 16,718 -3,133	16,176 15,823 353
Accrued Interest Beginning inventory Ending inventory Inventory change	11,906 11,885 21	8,061 10,954 -2,893	11,598 10,335 1,263	22,223 17,413 4,810
Total inventory change	-68,728	-60,097	-50,480	-110,856
Net operating profit	205,762	35,264	143,772	508,366

## Depreciation North Dakota Farm Business Management Education Region 2 - North Central North Dakota, 2013 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	162	32	33	33
Net operating profit	205,762	35,264	143,772	508,366
Machinery and Equipment				
Ending inventory	661,301	317,116	416,197	1,474,384
Capital sales	19,626	3,529	5,170	53,565
Beginning inventory	553,684	261,502	341,253	1,244,567
Capital purchases	157,875	77,926	97,825	345,124
Depreciation, capital adjust.	-30,632	-18,784	-17,711	-61,742
Titled Vehicles				
Ending inventory	48,283	38,187	38,500	70,140
Capital sales	690	178	638	15
Beginning inventory	44,005	36,138	34,108	71,398
Capital purchases	8,760	5,850	6,868	5,423
Depreciation, capital adjust.	-3,792	-3,623	-1,837	-6,665
Buildings and Improvements				
Ending inventory	111,796	52,945	43,813	261,703
Capital sales	913	-	-	4,482
Beginning inventory	97,238	39,776	42,381	242,319
Capital purchases	18,978	14,655	2,578	31,884
Depreciation, capital adjust.	-3,507	-1,486	-1,146	-8,017
Total depreciation, capital adj.	-37,931	-23,893	-20,694	-76,424
Net farm income from operations	167,831	11,371	123,078	431,942
Gain or loss on capital sales	1,940	249	-179	3,664
Net farm income	169,771	11,620	122,900	435,606

## Profitability Measures North Dakota Farm Business Management Education Region 2 - North Central North Dakota, 2013 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	162	32	33	33
Profitability (assets valued at cost)				
Net farm income from operations	167,831	11,371	123,078	431,942
Rate of return on assets	7.5 %	-0.2 %	8.1 %	9.7 %
Rate of return on equity	9.4 %	-3.9 %	11.4 %	12.1 %
Operating profit margin	20.5 %	-0.5 %	17.7 %	28.0 %
Asset turnover rate	36.7 %	33.2 %	46.0 %	34.8 %
Farm interest expense	23,916	19,117	21,806	38,427
Value of operator lbr and mgmt.	53,614	31,934	47,747	92,319
Return on farm assets	138,133	-1,445	97,137	378,050
Average farm assets	1,832,730	951,541	1,193,112	3,886,345
Return on farm equity	114,216	-20,562	75,331	339,623
Average farm equity	1,216,074	525,616	662,230	2,799,328
Value of farm production	673,010	315,807	549,196	1,351,586

#### Liquidity & Repayment Capacity Measures North Dakota Farm Business Management Education Region 2 - North Central North Dakota, 2013 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	162	32	33	33
Liquidity				
Current ratio	2.18	1.33	1.59	2.71
Working capital	299,318	62,051	131,456	798,278
Working capital to gross inc	44.9 %	18.6 %	24.5 %	59.8 %
Current assets	553,102	248,408	355,184	1,266,403
Current liabilities	253,785	186,357	223,728	468,125
Gross revenues (accrual)	665,998	333,359	535,610	1,334,724
Repayment capacity				
Net farm income from operations	167,831	11,371	123,078	431,942
Depreciation	37,931	23,893	20,694	76,424
Personal income	32,255	29,024	36,208	10,292
Family living/owner withdrawals	-74,658	-43,764	-81,662	-103,155
Payments on personal debt	-5,226	-2,950	-7,410	-5,824
Income taxes paid	-29,977	-8,729	-15,457	-70,030
Interest on term debt	16,342	9,792	15,873	30,057
Capital debt repayment capacity	144,497	18,636	91,325	369,706
Scheduled term debt payments	-78,616	-47,765	-66,759	-150,065
Capital debt repayment margin	65,881	-29,128	24,566	219,641
Cash replacement allowance	-20,488	-8,739	-4,433	-52,294
Replacement margin	45,393	-37,867	20,133	167,347
Term debt coverage ratio	1.84	0.39	1.37	2.46
Replacement coverage ratio	1.46	0.33	1.28	1.83

#### Balance Sheet at Cost Values North Dakota Farm Business Management Education Region 2 - North Central North Dakota, 2013 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	156	32	30	32
Assets				
Current Farm Assets	00,400	44.004	50.000	005 400
Cash and checking balance	88,482	41,001 14,657	59,262	205,136
Prepaid expenses & supplies Growing crops	55,164 4,489	5,750	26,590 1,847	132,250 6,269
Accounts receivable	13,161	16,990	14,410	12,784
Hedging accounts	1,858	89	107	5,355
Crops held for sale or feed	353,782	133,323	206,768	867,101
Crops under government loan	2,401	-	-	11,704
Market livestock held for sale	33,763	36,585	46,199	25,803
Other current assets	3	13	-	-
Total current farm assets	553,102	248,408	355,184	1,266,403
Intermediate Farm Assets	<b>FO 00</b> /	-	70.001	<u> </u>
Breeding livestock	59,394	74,988	76,664	36,692
Machinery and equipment Titled vehicles	658,425 47,791	317,116 38,187	408,201 42,350	1,478,836 64,813
Other intermediate assets	32,127	2,941	30,539	75,927
Total intermediate farm assets	797,736	433,232	557,754	1,656,268
	101,100	100,202	001,101	1,000,200
Long Term Farm Assets	200 7 10	000 400	004 470	744 000
Farm land	392,749	236,463	261,179	741,022
Buildings and improvements Other long-term assets	111,772 25,124	52,945 11,583	45,928 7,778	265,259 53,095
Total long-term farm assets	529,646	300,992	314,886	1,059,377
Total Farm Assets	1,880,484	982,632	1,227,825	3,982,047
Total Nonfarm Assets	262,883	195,315	179,422	486,684
Total Assets	2,143,367	1,177,947	1,407,247	4,468,731
Liabilities				
Current Farm Liabilities				
Accrued interest	11,722	10,954	11,095	16,750
Accounts payable	8,175	8,302	4,166	15,722
Current notes	159,149	122,068	148,234	289,865
Government crop loans Principal due on term debt	955 73,783	45,034	60,233	4,654 141,134
Total current farm liabilities	253,785	186,357	223,728	468,125
Total intermediate farm liabs	182,912	133,560	168,497	303,799
Total long term farm liabilities	205,105	148,499	169,251	325,824
Total farm liabilities	641,802	468,417	561,476	1,097,747
Total nonfarm liabilities	62,188	46,407	67,838	108,492
Total liabilities	703,989	514,824	629,314	1,206,239
Net worth (farm and nonfarm)	1,439,378	663,123	777,933	3,262,491
Net worth change	111,142	-4,679	63,620	322,243
Percent net worth change	8 %	-1 %	9 %	11 %
Ratio Analysis				
Current farm liabilities / assets	46 %	75 %	63 %	37 %
Intermediate farm liab. / assets	23 % 20 %	31 %	30 %	18 %
Long term farm liab. / assets Total debt to asset ratio	39 % 33 %	49 % 44 %	54 % 45 %	31 % 27 %
	55 /0	++ /0	+5 /0	<i>∠1</i> /0

#### Statement Of Cash Flows North Dakota Farm Business Management Education Region 2 - North Central North Dakota, 2013 (Farms Sorted By Net Farm Income)

	Avg. Of	1 20%	40 00%	Ulinth 200/
	All Farms	Low 20%	40 - 60%	High 20%
Number of farms	162	32	33	33
Beginning cash (farm & nonfarm)	90,677	48,468	48,902	191,556
Cash Provided By Operating Activities				
Gross cash farm income	752,096	383,170	621,355	1,452,354
Total cash farm expense	-477,606	-287,809	-427,103	-833,132
Net cash from hedging transactions	181	-156	132	-573
Cash provided by operating	274,671	95,205	194,384	618,649
Cash Provided By Investing Activities				
Sale of breeding livestock	2,507	3,400	5,216	166
Sale of machinery & equipment	19,449	3,698	4,987	54,126
Sale of titled vehicles	711	234	645	15
Sale of farm land	8,841	-	-	27,322
Sale of farm buildings	913	-	-	4,482
Sale of other farm assets	2,419	385	4,121	5,352
Sale of nonfarm assets	4,637	1,261	3,251	2,420
Purchase of breeding livestock	-8,083	-13,170	-10,699	-2,837
Purchase of machinery & equip.	-157,875	-77,926	-97,825	-345,124
Purchase of titled vehicles	-8,760	-5,850	-6,868	-5,423
Purchase of farm land	-55,236	-25,621	-27,187	-120,750
Purchase of farm buildings	-18,978	-14,655	-2,578	-31,884
Purchase of other farm assets	-6,388	-492	-8,281	-11,839
Purchase of nonfarm assets	-45,778	-41,466	-27,681	-97,350
Cash provided by investing	-261,621	-170,200	-162,900	-521,325
Cash Provided By Financing Activities				
Money borrowed	556,542	378,921	458,253	994,814
Principal payments	-493,750	-272,017	-422,840	-924,835
Personal income	32,255	29,024	36,208	10,292
Family living/owner withdrawals	-74,658	-43,764	-81,662	-103,155
Income and social security tax	-28,657	-8,407	-14,729	-68,818
Capital contributions	-	-	-	-
Capital distributions	-	-	-	-
Dividends paid	-	-	-	-
Cash gifts and inheritances	4,112	212	570	12,583
Gifts given	-738	-100	-209	-3,015
Other cash flows	-	-	-	-
Cash provided by financing	-4,895	83,870	-24,409	-82,135
Net change in cash balance	8,156	8,875	7,076	15,190
Ending cash (farm & nonfarm)	98,833	57,343	55,978	206,747

#### Financial Standards Measures North Dakota Farm Business Management Education Region 2 - North Central North Dakota, 2013 (Farms Sorted By Net Farm Income)

	Avg. Of	1 000/	40,00%	
	All Farms	Low 20%	40 - 60%	High 20%
Number of farms	162	32	33	33
Liquidity				
Current ratio	2.18	1.33	1.59	2.71
Working capital	299,318	62,051	131,456	798,278
Working capital to gross inc	44.9 %	18.6 %	24.5 %	59.8 %
Solvency (cost)				
Farm debt to asset ratio	34 %	48 %	46 %	28 %
Farm equity to asset ratio	66 %	52 %	54 %	72 %
Farm debt to equity ratio	0.52	0.91	0.84	0.38
Profitability (cost)				
Rate of return on farm assets	7.5 %	-0.2 %	8.1 %	9.7 %
Rate of return on farm equity	9.4 %	-3.9 %	11.4 %	12.1 %
Operating profit margin	20.5 %	-0.5 %	17.7 %	28.0 %
Net farm income	169,771	11,620	122,900	435,606
EBITDA	229,678	54,381	165,579	546,793
Repayment Capacity				
Capital debt repayment capacity	144,497	18,636	91,325	369,706
Capital debt repayment margin	65,881	-29,128	24,566	219,641
Replacement margin	45,393	-37,867	20,133	167,347
Term debt coverage ratio	1.84	0.39	1.37	2.46
Replacement coverage ratio	1.46	0.33	1.28	1.83
Efficiency				
Asset turnover rate (cost)	36.7 %	33.2 %	46.0 %	34.8 %
Operating expense ratio	66.4 %	83.7 %	70.9 %	59.6 %
Depreciation expense ratio	5.5 %	7.2 %	3.6 %	5.6 %
Interest expense ratio	3.5 %	5.7 %	3.8 %	2.8 %
Net farm income ratio	24.8 %	3.5 %	21.6 %	32.2 %

#### Crop Production and Marketing Summary North Dakota Farm Business Management Education Region 2 - North Central North Dakota, 2013 (Farms Sorted By Net Farm Income)

	Avg. Of			
	All Farms	Low 20%	<u> </u>	<u>High 20%</u>
Number of farms	162	32	33	33
Acreage Summary				
Total acres owned	887	803	557	1,392
Total crop acres	2,010	1,155	1,762	3,663
Crop acres owned	575	335	303	1,198
Crop acres cash rented	1,217	713	1,376	2,060
Crop acres share rented	218	108	82	405
Total pasture acres	368	443	520	280
Percent crop acres owned	29 %	29 %	17 %	33 %
Average Price Received (Cash Sales	s Only)			
Wheat, Spring per bushel	7.26	7.34	7.07	7.45
Soybeans per bushel	13.09	12.99	13.11	13.02
Barley per bushel	6.35	6.25	6.15	6.58
Canola per cwt	25.77	26.04	25.78	25.64
Corn per bushel	5.78	6.00	6.05	5.63
Beans, Pinto per cwt	34.64	-	-	34.95
Wheat, Winter per bushel	7.31	-	-	7.03
Sunflowers per cwt	25.87	-	-	24.80
Wheat, Durum per bushel	7.30	-	-	7.72
Flax per bushel	14.23	-	-	-
Hay, Mixed per ton	67.39	-	-	-
Sunflowers, Confectionary per cwt	31.36	-	-	-
Oats per bushel	3.42	-	-	-
Average Yield Per Acre				
Wheat, Spring (bushel)	59.27	47.52	57.59	62.42
Soybeans (bushel)	34.15	31.83	28.10	36.22
Pasture (aum)	1.02	1.06	0.921	0.921
Canola (cwt)	19.89	13.55	18.95	21.72
Barley (bushel)	72.90	66.30	57.42	76.27
Corn (bushel)	120.13	112.15	109.43	118.92
Hay, Grass (ton)	1.14	1.23	1.11	1.07
Hay, Alfalfa (ton)	1.85	1.60	-	2.34
Beans, Pinto (cwt)	17.79	-	-	19.58
Hay, Mixed Alfalfa/Grass (ton)	1.54	1.50	1.69	-
Wheat, Durum (bushel)	44.41	-	-	-
Sunflowers (cwt)	18.77	-	-	19.07
Peas, Field (bushel)	35.22	-	-	53.66
Corn Silage (ton)	16.76	-	15.64	-
Hay, Small Grain (ton)	2.39	-	-	-
Oats (bushel)	79.57	-	-	-

## Household and Personal Expenses North Dakota Farm Business Management Education Region 2 - North Central North Dakota, 2013 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	112	18	21	26
Average family size	3.0	3.0	3.1	3.2
Family Living Expenses				
Food and meals expense	9,536	8,102	8,389	11,759
Medical care	5,407	4,936	6,235	5,857
Health insurance	8,195	3,256	8,672	10,489
Cash donations	2,299	1,713	628	4,284
Household supplies	7,824	5,976	9,582	9,641
Clothing	2,810	1,739	2,288	4,635
Personal care	8,074	5,658	10,512	9,621
Child / Dependent care	704	298	1,559	241
Alimony and child support	161	1,000	-	-
Gifts	2,260	1,444	1,055	4,077
Education	2,582	1,322	1,547	3,233
Recreation	8,324	5,891	10,330	9,473
Utilities (household share)	4,221	3,730	3,876	5,115
Personal vehicle operating exp	4,839	3,170	4,711	4,671
Household real estate taxes	190	-	54	465
Dwelling rent	245	254	261	-
Household repairs	3,056	1,203	1,536	3,822
Personal interest	1,491	1,040	1,918	1,634
Disability / Long term care ins	149	244	-	228
Life insurance payments	2,609	2,055	1,622	5,132
Personal property insurance	157	73	56	233
Miscellaneous	3,880	1,388	2,963	4,511
Total cash family living expense	79,013	54,494	77,797	99,121
Family living from the farm	814	2,867	95	193
Total family living	79,827	57,361	77,892	99,314
Other Nonfarm Expenditures				
Income taxes	31,934	10,897	14,407	67,879
Furnishing & appliance purchases	631	147	606	1,642
Nonfarm vehicle purchases	6,383	10,777	10,834	4,945
Nonfarm real estate purchases	28,805	27,307	5,744	75,369
Other nonfarm capital purchases	8,289	2,692	4,721	27,083
Nonfarm savings & investments	7,234	-3,126	4,022	14,592
Total other nonfarm expenditures	83,277	48,694	40,333	191,510
Total cash family living				
investment & nonfarm capital purch	162,289	103,188	118,130	290,631

#### Operator and Labor Information North Dakota Farm Business Management Education Region 2 - North Central North Dakota, 2013 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	162	32	33	33
Operator Information				
Average number of operators	1.0	1.0	1.1	1.1
Average age of operators	43.8	41.7	36.7	51.8
Average number of years farming	20.3	18.0	13.5	28.8
Results Per Operator				
Working capital	290,596	62,051	134,076	731,275
Total assets (cost)	2,065,535	1,177,947	1,280,228	4,114,831
Total liabilities	673,344	514,824	562,350	1,114,419
Net worth (cost)	1,392,191	663,123	717,878	3,000,411
Gross farm income	652,100	333,359	521,171	1,241,661
Total farm expense	492,167	321,988	408,349	845,714
Net farm income from operations	159,933	11,371	112,822	395,947
Net nonfarm income	30,737	29,024	33,190	9,434
Family living & tax withdrawals	99,712	52,493	89,025	158,753
Total acres owned	845.3	802.7	510.5	1,276.2
Total crop acres	1,915.2	1,155.2	1,615.0	3,357.9
Crop acres owned	548.3	334.6	277.7	1,097.8
Crop acres cash rented	1,159.4	712.6	1,261.8	1,888.6
Crop acres share rented	207.5	108.1	75.6	371.6
Total pasture acres	350.3	442.9	477.0	256.6
Labor Analysis				
Number of farms	162	32	33	33
Total unpaid labor hours	2,150	1,657	2,247	2,559
Total hired labor hours	801	395	545	1,685
Total labor hours per farm	2,951	2,052	2,792	4,244
Unpaid hours per operator	2,049	1,657	2,060	2,346

## Nonfarm Summary North Dakota Farm Business Management Education Region 2 - North Central North Dakota, 2013 (Farms Sorted By Net Farm Income)

	Avg. Of	1 200/	40 00%	
	All Farms	Low 20%	40 - 60%	High 20%
Number of farms	162	32	33	33
Nonfarm Income				
Personal wages & salary	21,221	22,000	29,210	13,273
Net nonfarm business income	65	1,309	2,562	-17,936
Personal rental income	1,713	981	233	2,761
Personal interest income	458	195	82	1,557
Personal cash dividends	1,310	8	-	6,154
Tax refunds	1,421	790	2,445	549
Other nonfarm income	6,067	3,741	1,675	3,933
Total nonfarm income	32,255	29,024	36,208	10,292
Gifts and inheritances	4,112	212	570	12,583

## Financial Summary North Dakota Farm Business Management Education Region 2 - North Central North Dakota, 2013 (Farms Sorted By Gross Farm Income)

	Avg. Of All Farms	Less than 100,000	100,001 - 250,000	250,001 - 500,000	500,001 - 1,000,000	1,000,001- 2,000,000	Over 2,000,000
Number of farms	162	13	16	33	57	37	6
Income Statement							
Gross cash farm income	752,096	56,621	204,744	409,429	708,976	1,343,820	2,363,911
Total cash farm expense	477,606	47,853	137,231	278,730	455,524	851,536	1,314,113
Net cash farm income	274,490	8,768	67,513	130,699	253,452	492,284	1,049,799
Inventory change	-68,728	11,221	16,151	-20,641	-81,629	-126,769	-252,303
Depreciation	-37,931	-4,154	-9,908	-15,806	-34,648	-77,789	-92,924
Net farm income from operations	167,831	15,835	73,757	94,252	137,175	287,726	704,572
Gain or loss on capital sales	1,940	17,840	192	-201	66	-364	15,952
Average net farm income	169,771	33,675	73,949	94,052	137,240	287,361	720,524
Median net farm income	122,260	20,693	68,406	94,303	137,323	270,835	586,537
Profitability (cost)							
Rate of return on assets	7.5 %	2.4 %	8.7 %	8.8 %	6.4 %	7.6 %	10.0 %
Rate of return on equity	9.4 %	1.3 %	12.1 %	11.7 %	7.7 %	9.4 %	12.3 %
Operating profit margin	20.5 %	13.4 %	27.3 %	20.0 %	17.8 %	20.4 %	27.4 %
Asset turnover rate	36.7 %	17.7 %	31.7 %	43.9 %	35.9 %	37.0 %	36.4 %
Liquidity & Repayment (end of							
Current assets	553,102	59,876	187,057	259,525	555,783	933,258	2,329,896
Current liabilities	253,785	31,322	73,825	118,258	263,158	481,780	649,065
Current ratio	2.18	1.91	2.53	2.19	2.11	1.94	3.59
Working capital	299,318	28,553	113,232	141,268	292,625	451,478	1,680,831
Working capital to gross inc	44.9 %	41.0 %	50.4 %	37.1 %	46.4 %	37.6 %	74.3 %
Term debt coverage ratio	1.84	1.75	2.07	2.20	1.50	1.76	2.88
Replacement coverage ratio	1.46	1.44	1.80	1.79	1.21	1.40	2.03
Solvency (end of year at cost)	450	10	10	00			_
Number of sole proprietors	156	13	16	33	55	34	5
Total farm assets	1,880,484	385,378	707,774	855,633	1,802,654	3,462,423	6,383,406
Total farm liabilities	641,802	186,536	290,523 898,922	332,555	650,928	1,143,478	1,478,824 7,018,358
Total assets Total liabilities	2,143,367 703,989	525,638 206,444	331,728	1,044,680 371,892	2,026,360 711,913	3,886,269 1,250,453	1,577,577
Net worth	1,439,378	200,444 319,194	567,194	672,789	1,314,447	2,635,816	5,440,782
Net worth change	111,142	42,600	83,769	64,766	75,530	175,915	634,314
Farm debt to asset ratio	34 %	48 %	41 %	39 %	36 %	33 %	23 %
Total debt to asset ratio	33 %	39 %	37 %	36 %	35 %	32 %	22 %
Nonfarm Information							
Net nonfarm income	32,255	43,539	30,000	41,533	35,730	18,357	15,476
Farms reporting living expenses	112	40,000	13	19	41	30	4
Total family living expense	79,827	54,915	43,359	62,932	82,255	101,130	-
Crop Acres							
Total acres owned	887	419	1,073	525	823	1,285	1,549
Total crop acres	2,010	256	802	1,263	1,956	3,297	5,708
Total crop acres owned	575	143	316	253	580	946	1,649
Total crop acres cash rented	1,217	87	323	731	1,203	2,010	3,957
Total crop acres share rented	218	25	163	280	173	341	102

## Financial Summary North Dakota Farm Business Management Education Region 2 - North Central North Dakota, 2013 (Farms Sorted By Age Of Operator)

	Avg. Of All Farms	Less Than 31	31 - 40	41 - 50	51 - 60	Over 60
Number of farms	162	32	29	38	45	18
Income Statement						
Gross cash farm income	752,096	405,028	806,768	854,290	908,917	673,231
Total cash farm expense	477,606	298,540	503,532	560,100	565,309	360,769
Net cash farm income	274,490	106,487	303,236	294,190	343,608	312,462
Inventory change	-68,728	9,956	-86,069	-88,397	-74,523	-124,664
Depreciation	-37,931	-14,865	-42,086	-43,316	-49,141	-32,849
Net farm income from operations	167,831	101,578	175,081	162,477	219,944	154,949
Gain or loss on capital sales	1,940	-1,535	3,727	17	5,580	202
Average net farm income	169,771	100,043	178,808	162,494	225,524	155,151
Median net farm income	122,260	74,382	124,639	138,502	177,960	160,228
Profitability (cost)						
Rate of return on assets	7.5 %	11.1 %	9.0 %	6.7 %	7.3 %	6.0 %
Rate of return on equity	9.4 %	19.3 %	12.6 %	8.2 %	8.7 %	6.6 %
Operating profit margin	20.5 %	20.1 %	20.1 %	18.0 %	22.6 %	21.6 %
Asset turnover rate	36.7 %	54.9 %	44.8 %	37.0 %	32.2 %	27.9 %
Liquidity & Repayment (end of y						
Current assets	553,102	250,029	489,342	571,952	810,820	489,780
Current liabilities	253,785	157,277	250,919	322,725	332,291	84,744
Current ratio	2.18	1.59	1.95	1.77	2.44	5.78
Working capital	299,318	92,752	238,424	249,227	478,529	405,036
Working capital to gross inc	44.9 %	22.8 %	33.7 %	33.6 %	57.3 %	86.8 %
Term debt coverage ratio	1.84	1.93	2.30	1.55	1.76	2.33
Replacement coverage ratio	1.46	1.79	1.82	1.36	1.32	1.32
Solvency (end of year at cost)						
Number of sole proprietors	156	31	28	35	45	17
Total farm assets	1,880,484	832,945	1,724,700	2,084,025	2,608,801	1,700,335
Total farm liabilities	641,802	456,894	709,512	835,315	736,023	219,644
Total assets	2,143,367	956,970	1,981,136	2,346,108	2,946,902	2,029,586
Total liabilities	703,989	522,979	786,862	896,158	796,581	256,832
Networth	1,439,378	433,991	1,194,274	1,449,950	2,150,321	1,772,755
Net worth change	111,142	63,155	128,322	104,243	149,629	82,680
Farm debt to asset ratio	34 %	55 %	41 %	40 %	28 %	13 %
Total debt to asset ratio	33 %	55 %	40 %	38 %	27 %	13 %
Nonfarm Information						
Net nonfarm income	32,255	23,596	30,236	56,217	21,763	26,541
Farms reporting living expenses	112	16	23	24	33	16
Total family living expense	79,827	55,809	75,330	89,287	97,522	59,624
Crop Acres						
Total acres owned	887	215	554	865	1,187	1,916
Total crop acres	2,010	1,102	2,050	2,316	2,473	1,755
Total crop acres owned	575	159	356	538	924	875
Total crop acres cash rented	1,217	729	1,363	1,656	1,280	760
Total crop acres share rented	218	213	331	122	269	120

## Financial Summary North Dakota Farm Business Management Education Region 2 - North Central North Dakota, 2013 (Farms Sorted By Farm Type)

	Avg. Of All Farms	Crop	Beef	Crop and Beef	Other
Number of farms	162	84	15	16	47
Income Statement					
Gross cash farm income	752,096	877,491	205,944	587,816	758,216
Total cash farm expense	477,606	560,804	148,985	409,471	456,987
Net cash farm income	274,490	316,687	56,959	178,346	301,229
Inventory change	-68,728	-85,479	18,617	-28,503	-80,360
Depreciation	-37,931	-46,824	-9,070	-27,469	-34,809
Net farm income from operations	167,831	184,383	66,506	122,374	186,059
Gain or loss on capital sales	1,940	751	126	-726	5,553
Average net farm income	169,771	185,134	66,632	121,648	191,612
Median net farm income	122,260	155,013	68,636	111,005	124,639
Profitability (cost)					
Rate of return on assets	7.5 %	7.1 %	7.9 %	7.4 %	8.4 %
Rate of return on equity	9.4 %	8.9 %	12.5 %	8.6 %	10.2 %
Operating profit margin	20.5 %	19.0 %	32.3 %	19.4 %	23.1 %
Asset turnover rate	36.7 %	37.6 %	24.4 %	38.0 %	36.1 %
Liquidity & Repayment (end of year					
Current assets	553,102	665,963	185,761	387,251	536,749
Current liabilities	253,785	321,292	83,975	164,444	224,296
Current ratio	2.18	2.07	2.21	2.35	2.39
Working capital	299,318	344,671	101,786	222,807	312,453
Working capital to gross inc	44.9 %	44.6 %	45.6 %	40.6 %	46.8 %
Term debt coverage ratio	1.84 1.46	1.82 1.42	2.24 2.08	2.06 1.73	1.76 1.39
Replacement coverage ratio	1.40	1.42	2.00	1.75	1.59
Solvency (end of year at cost)	450		45	10	10
Number of sole proprietors	156	79	15	16	46
Total farm assets	1,880,484	2,156,219	793,149	1,406,647	1,926,319
Total farm liabilities	641,802	763,820 2,441,968	424,282 890,258	462,216 1,612,434	565,644
Total assets Total liabilities	2,143,367 703,989	2,441,900 838,570	454,096	499,522	2,223,846 625,468
Net worth	1,439,378	1,603,399	436,162	1,112,911	1,598,378
Net worth change	111,142	113,321	71,562	104,800	122,513
Farm debt to asset ratio	34 %	35 %	53 %	33 %	29 %
Total debt to asset ratio	33 %	34 %	51 %	31 %	28 %
Nonfarm Information					
Net nonfarm income	32,255	34,790	34,907	43,582	23,021
Farms reporting living expenses	112	57	7	10,002	38
Total family living expense	79,827	87,380	40,666	72,688	77,591
Crop Acres					
Total acres owned	887	770	969	1,199	964
Total crop acres	2,010	2,182	702	1,752	2,207
Total crop acres owned	575	612	254	639	591
Total crop acres cash rented	1,217	1,329	373	925	1,384
Total crop acres share rented	218	241	76	189	232
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# **EXPLANATORY NOTES FOR CROPS TABLES**

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

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

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	Low 20%	40 - 60%	High 20%
Number of fields	43	5	16	6
Number of farms	28	5	5	6
Acres	117.65	109.88	79.39	150.60
Yield per acre (bu.)	74.55	57.41	79.62	99.22
Operators share of yield %	100.00	100.00	100.00	100.00
Value per bu.	5.57	4.21	5.66	5.92
Other product return per acre	0.17 415.55	- 241.66	- 450.67	- 587.61
Total product return per acre Crop insurance per acre	20.54	32.76	5.76	
Gross return per acre	436.09	274.42	456.42	587.61
Direct Expenses				
Seed	19.49	17.01	22.35	19.23
Fertilizer	63.12	50.23	67.28	74.86
Crop chemicals	35.61	30.83	42.68	40.96
Crop insurance Drying expense	21.46 0.40	16.87 0.58	24.04 1.09	21.30
Fuel & oil	18.86	20.63	20.48	23.45
Repairs	22.63	22.84	23.16	29.45
Custom hire	2.51	2.40	4.56	6.20
Machinery leases	1.37	-	0.40	-
Operating interest	3.07	3.39	3.60	1.90
Miscellaneous	0.13	-	0.48	0.04
Total direct expenses per acre Return over direct exp per acre	188.65 247.44	164.78 109.64	210.12 246.30	217.40 370.21
Overhead Expenses				
Custom hire	2.31	1.25	-	0.27
Hired labor	8.46	10.76	13.05	4.26
Machinery leases	1.03	0.98	0.92	2.02
RE & pers. property taxes	5.79	7.33	4.74	5.51
Farm insurance Utilities	3.16 2.56	1.69 1.53	3.78 2.76	3.87 3.38
Dues & professional fees	1.35	1.24	1.66	0.86
Interest	18.71	14.29	22.01	7.05
Mach & bldg depreciation	21.03	16.98	25.90	23.72
Miscellaneous	3.64	1.49	6.12	3.11
Total overhead expenses per acre	68.05	57.53	80.93	54.05
Total dir & ovhd expenses per acre Net return per acre	256.70 179.39	222.31 52.11	291.06 165.36	271.45 316.16
		11.45		
Government payments Net return with govt pmts	9.67 189.06	63.56	7.04 172.40	11.08 327.24
Labor & management charge	29.93	31.59	30.19	32.32
Net return over lbr & mgt	159.13	31.98	142.21	294.92
Cost of Production				
Total direct expense per bu.	2.53	2.87	2.64	2.19
Total dir & ovhd exp per bu.	3.44	3.87	3.66	2.74
Less govt & other income	3.04	3.10	3.49	2.62
With labor & management	3.44	3.65	3.87	2.95
Net value per unit	5.57	4.21	5.66	5.92
Machinery cost per acre	72.46	66.84	76.10	84.91
Est. labor hours per acre	1.54	1.72	1.44	1.29

## Barley on Cash Rent

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of fields Number of farms	73 39	9 7	14 8	10 8
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Other product return per acre Total product return per acre	151.37 71.82 100.00 6.00 0.22 430.99	133.23 56.50 100.00 5.32 300.69	143.20 62.82 100.00 5.76 361.75	214.82 90.97 100.00 6.23 566.45
Crop insurance per acre Other crop income per acre Gross return per acre	24.57 1.27 456.83	48.57 - 349.26	25.11 0.88 387.74	3.63 5.70 575.78
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Land rent Machinery leases Operating interest	20.88 66.72 36.16 19.96 21.71 27.51 2.81 47.04 1.87 3.99	20.77 74.74 41.15 30.68 24.94 39.55 	20.76 51.31 32.33 18.86 18.55 22.49 - 45.91 8.88 5.24	20.13 72.21 41.94 19.78 21.34 28.11 3.84 49.30 - 5.37
Miscellaneous Total direct expenses per acre Return over direct exp per acre	0.20 248.86 207.97	0.47 282.95 66.31	- 224.33 163.42	262.02 313.76
Overhead Expenses Custom hire Hired labor Machinery leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	$\begin{array}{c} 1.85\\ 10.04\\ 3.93\\ 3.95\\ 2.69\\ 1.30\\ 4.89\\ 23.83\\ 2.11\\ 54.58\\ 303.44\\ 153.40\end{array}$	$\begin{array}{c} 0.90\\ 8.10\\ 5.01\\ 4.61\\ 3.52\\ 0.69\\ 9.05\\ 25.76\\ 2.01\\ 59.65\\ 342.61\\ 6.66\end{array}$	5.84 3.10 1.41 3.60 2.29 2.00 2.22 11.17 1.63 33.25 257.58 130.16	$\begin{array}{c} 0.49\\ 10.62\\ 4.80\\ 3.72\\ 3.64\\ 0.96\\ 5.08\\ 22.99\\ 2.45\\ 54.76\\ 316.78\\ 259.00\\ \end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	9.79 163.19 31.27 131.91	12.25 18.91 31.87 -12.97	9.01 139.18 34.65 104.53	9.74 268.74 28.83 239.90
<b>Cost of Production</b> Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	3.47 4.23 3.73 4.16	5.01 6.06 4.99 5.55	3.57 4.10 3.54 4.09	2.88 3.48 3.27 3.59
Net value per unit Machinery cost per acre Est. labor hours per acre	6.00 86.45 1.49	5.32 103.24 1.46	5.76 69.87 1.40	6.23 84.44 1.60

## Beans, Pinto on Owned Land

	Avg. Of All Farms
Number of fields	15
Number of farms	8
Acres	125.34
Yield per acre (cwt.)	17.87
Operators share of yield %	100.00
Value per cwt.	35.71
Total product return per acre	638.12
Gross return per acre	638.12
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Machinery leases Operating interest Total direct expenses per acre Return over direct exp per acre	$\begin{array}{r} 39.37\\ 46.68\\ 70.42\\ 37.93\\ 28.05\\ 46.11\\ 0.78\\ 0.69\\ 5.24\\ 275.26\\ 362.86\end{array}$
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	$\begin{array}{c} 13.95\\ 3.15\\ 4.15\\ 6.24\\ 3.80\\ 1.92\\ 23.61\\ 32.66\\ 3.36\\ 92.84\\ 368.10\\ 270.02\\ \end{array}$
Government payments	7.07
Net return with govt pmts	277.09
Labor & management charge	33.60
Net return over lbr & mgt	243.49
<b>Cost of Production</b> Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	15.40 20.60 20.20 22.08
Net value per unit	35.71
Machinery cost per acre	113.54
Est. labor hours per acre	1.70

## Beans, Pinto on Cash Rent

	Avg. Of All Farms
Number of fields	17
Number of farms	9
Acres	199.86
Yield per acre (cwt.)	17.19
Operators share of yield %	100.00
Value per cwt.	35.11
Total product return per acre	603.42
Crop insurance per acre	14.54
Gross return per acre	617.97
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Land rent Operating interest Total direct expenses per acre Return over direct exp per acre	$\begin{array}{c} 65.47 \\ 41.43 \\ 90.37 \\ 37.96 \\ 29.97 \\ 39.29 \\ 0.88 \\ 50.95 \\ 3.91 \\ 360.22 \\ 257.75 \end{array}$
Overhead Expenses Hired labor Machinery leases Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	$\begin{array}{c} 15.31\\ 2.91\\ 0.30\\ 5.32\\ 3.31\\ 0.27\\ 8.69\\ 31.10\\ 3.16\\ 70.37\\ 430.60\\ 187.37\end{array}$
Government payments	7.77
Net return with govt pmts	195.14
Labor & management charge	34.13
Net return over lbr & mgt	161.01
<b>Cost of Production</b> Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	20.96 25.05 23.76 25.74
Net value per unit	35.11
Machinery cost per acre	110.10
Est. labor hours per acre	1.73

#### Canola on Owned Land

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of fields Number of farms	36 30	7 6	6 6	10 6
Acres Yield per acre (cwt.) Operators share of yield % Value per cwt. Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	140.20 19.44 100.00 19.86 386.15 14.24 3.18 403.56	67.93 13.66 100.00 19.07 260.41 15.12 275.53	177.60 19.07 100.00 20.60 392.79 28.15 - 420.94	108.60 22.29 100.00 21.15 471.31 31.66 502.97
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	55.73 73.37 28.68 18.88 20.64 26.29 4.31 3.69 0.02 231.61 171.95	66.91 83.03 20.53 24.06 28.31 46.53 2.32 5.93 - 277.61 -2.08	58.28 75.89 41.65 25.17 23.47 30.03 3.06 4.31 - 261.87 159.07	57.94 70.03 20.72 16.79 16.79 18.71 14.26 2.52 217.76 285.21
Overhead Expenses Custom hire Hired labor Machinery leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	$\begin{array}{c} 1.00\\ 7.87\\ 2.60\\ 6.64\\ 3.77\\ 2.80\\ 0.76\\ 17.12\\ 20.57\\ 2.81\\ 65.94\\ 297.55\\ 106.01\end{array}$	$\begin{array}{c} 2.25\\ 3.18\\ 0.42\\ 5.21\\ 3.79\\ 2.32\\ 1.00\\ 24.14\\ 19.41\\ 4.26\\ 65.99\\ 343.60\\ -68.07\end{array}$	$\begin{array}{c} 0.21 \\ 14.06 \\ 1.44 \\ 8.40 \\ 4.19 \\ 3.07 \\ 0.77 \\ 10.84 \\ 20.07 \\ 2.79 \\ 65.85 \\ 327.72 \\ 93.22 \end{array}$	0.00 4.96 2.55 5.77 3.96 2.30 1.14 8.45 16.47 1.66 47.25 265.00 237.97
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	10.09 116.09 30.59 85.50	8.12 -59.95 34.25 -94.20	11.18 104.40 30.55 73.85	9.59 247.56 28.88 218.68
<b>Cost of Production</b> Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	11.91 15.31 13.89 15.47	20.33 25.16 23.46 25.97	13.73 17.19 15.12 16.72	9.77 11.89 10.04 11.34
Net value per unit Machinery cost per acre Est. labor hours per acre	19.86 77.46 1.62	19.07 103.08 1.79	20.60 79.75 1.79	21.15 70.56 1.27

#### Canola on Cash Rent

	Avg. Of <u>All Farms</u>	Low 20%	<u> </u>	
Number of fields Number of farms	86 50	12 10	15 10	24 10
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	142.34 20.16 100.00 20.93 421.98 12.79 1.46 436.23	95.30 13.40 100.00 19.05 255.33 18.94 0.72 275.00	172.19 22.00 100.00 19.16 421.55 - 421.55	113.09 18.87 100.00 27.00 509.58 24.47 534.05
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Land rent Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	59.06 78.92 29.29 17.89 21.79 28.09 6.23 46.45 3.38 0.11 291.22 145.02	48.37 92.08 28.04 22.66 26.32 32.12 3.20 37.44 7.70 0.07 297.99 -22.99	60.28 81.51 42.70 14.27 23.47 33.43 8.80 43.06 3.00 0.00 310.52 111.03	63.52 73.90 22.58 21.09 16.95 19.45 9.13 48.03 2.23 0.48 277.36 256.68
Overhead Expenses Custom hire Hired labor Machinery leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	$\begin{array}{c} 0.81 \\ 5.02 \\ 8.05 \\ 3.63 \\ 2.58 \\ 0.91 \\ 3.01 \\ 18.67 \\ 2.81 \\ 45.50 \\ 336.72 \\ 99.52 \end{array}$	$\begin{array}{c} 1.74\\ 4.26\\ 1.15\\ 3.36\\ 2.29\\ 0.54\\ 6.96\\ 14.93\\ 0.97\\ 36.21\\ 334.20\\ -59.20\end{array}$	0.69 5.07 1.28 3.90 2.87 1.13 2.62 18.51 2.89 38.95 349.47 72.08	0.86 3.22 1.48 3.19 1.89 1.65 1.46 17.59 1.87 33.20 310.56 223.48
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	10.55 110.06 34.33 75.74	9.41 -49.79 29.65 -79.44	9.46 81.53 40.78 40.76	11.16 234.64 35.72 198.92
<b>Cost of Production</b> Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	14.44 16.70 15.47 17.17	22.24 24.94 22.77 24.98	14.11 15.88 15.45 17.31	14.70 16.45 14.57 16.46
Net value per unit Machinery cost per acre Est. labor hours per acre	20.93 85.59 1.56	19.05 85.19 1.37	19.16 87.57 1.68	27.00 66.38 1.48

#### Corn on Owned Land

	Avg. Of <u>All Farms</u>	Low 20%	40 - 60%	
Number of fields Number of farms	50 33	10 6	8 6	13 7
Acres Yield per acre (bu.) Operators share of yield % Value per bu.	96.58 116.37 100.00 3.64	81.72 114.04 100.00 3.50	55.75 115.07 100.00 3.53	79.24 128.68 100.00 4.21
Other product return per acre Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	1.10 424.99 3.55 2.84 431.38	398.75 15.39 414.15	406.33 - 406.33	- 541.15 - 1.11 542.26
	431.30	414.15	400.33	542.20
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Drying expense Fuel & oil Repairs Custom hire	84.74 112.64 38.34 24.45 1.72 29.52 50.41 3.16 0.22	96.05 146.82 39.96 28.55 - 26.77 73.65 0.39 1.30	83.45 118.96 43.57 22.89 - - 31.87 40.24 0.05	71.95 99.52 54.15 26.97 0.71 25.69 39.48 3.00
Hired labor Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	0.22 0.43 5.52 0.34 351.48 79.90	12.16 1.02 426.67 -12.53	4.02 2.84 0.04 347.95 58.37	0.26 2.99 0.19 324.91 217.34
Overhead Expenses Custom hire Hired labor Machinery leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	$\begin{array}{c} 1.94\\ 12.89\\ 1.98\\ 4.68\\ 5.28\\ 4.39\\ 1.81\\ 20.94\\ 34.88\\ 4.79\\ 93.57\\ 445.05\\ -13.68\end{array}$	$\begin{array}{c} 2.93\\ 3.47\\ 0.43\\ 4.73\\ 8.75\\ 10.41\\ 1.57\\ 27.28\\ 46.97\\ 14.80\\ 121.35\\ 548.03\\ -133.88\end{array}$	$\begin{array}{c} 0.16\\ 12.92\\ 4.02\\ 3.50\\ 5.05\\ 2.90\\ 0.75\\ 20.80\\ 33.99\\ 7.83\\ 91.92\\ 439.88\\ -33.55\end{array}$	0.03 21.49 2.27 2.99 7.77 4.84 2.39 11.71 39.14 1.39 94.02 418.94 123.32
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	8.24 -5.44 41.99 -47.43	8.30 -125.58 50.74 -176.32	6.74 -26.81 42.61 -69.43	7.61 130.94 40.03 90.90
<b>Cost of Production</b> Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	3.02 3.82 3.69 4.05	3.74 4.81 4.60 5.04	3.02 3.82 3.76 4.13	2.52 3.26 3.19 3.50
Net value per unit Machinery cost per acre Est. labor hours per acre	3.64 122.96 2.31	3.50 150.82 2.58	3.53 117.08 2.25	4.21 109.90 2.01

## Corn on Cash Rent

	Avg. Of <u>All Farms</u>	Low 20%	<u>40 - 60%</u>	<u> </u>
Number of fields	58	11	12	14
Number of farms	35	7	7	7
Acres	126.55	89.68	169.82	118.39
Yield per acre (bu.)	122.68	90.21	125.34	127.68
Operators share of yield %	100.00	100.00	100.00	100.00
Value per bu.	3.50	3.51	3.47	3.59
Total product return per acre	428.99	316.86	435.51	457.98
Crop insurance per acre Other crop income per acre	2.26 0.25	7.98	-	-
Gross return per acre	431.49	324.83	435.51	457.98
Direct Expenses				
Seed	84.68	87.42	95.21	67.04
Fertilizer	115.25	128.59	131.05	93.04
Crop chemicals	29.10 24.90	32.49 25.99	28.49 18.07	33.57 16.86
Crop insurance Drying expense	24.90	0.66	3.68	0.55
Fuel & oil	37.51	41.20	34.04	34.29
Repairs	50.67	67.69	37.15	45.44
Custom hire	5.19	2.61	6.85	11.29
Hired labor	0.23	1.68		-
Land rent	47.04	43.62	51.64	40.88
Operating interest	7.00	8.62	6.11	5.27
Miscellaneous Total direct expenses per acre	0.54 404.36	0.56 441.14	0.09 412.38	0.13 348.36
Return over direct exp per acre	27.13	-116.31	23.13	109.62
Overhead Expenses				
Custom hire	1.06	6.85	0.20	0.13
Hired labor	15.36	4.53	12.15	22.02
Machinery leases	7.85 0.23	5.43	5.60 0.77	7.87
Building leases Farm insurance	5.83	7.51	5.42	- 5.59
Utilities	4.72	7.22	3.22	5.29
Dues & professional fees	0.87	1.20	0.42	0.63
Interest	7.01	7.80	5.14	5.73
Mach & bldg depreciation	41.49	40.27	47.61	29.35
Miscellaneous	4.44 88.85	13.77	4.20	0.97
Total overhead expenses per acre Total dir & ovhd expenses per acre	493.21	94.59 535.73	84.72 497.10	77.57 425.93
Net return per acre	-61.72	-210.89	-61.59	32.05
Government payments	8.23	8.51	7.60	8.05
Net return with govt pmts	-53.49	-202.39	-53.98	40.10
Labor & management charge	42.30	44.37	43.00	37.32
Net return over Ibr & mgt	-95.79	-246.75	-96.99	2.78
Cost of Production Total direct expense per bu.	3.30	4.89	3.29	2.73
Total dir & ovhd exp per bu.	4.02	5.94	3.97	3.34
Less govt & other income	3.93	5.76	3.91	3.27
With labor & management	4.28	6.25	4.25	3.57
Net value per unit	3.50	3.51	3.47	3.59
Machinery cost per acre Est. labor hours per acre	147.66 2.25	169.09 2.57	133.60 2.01	130.44
	2.20	2.07	2.01	1.89

#### Corn Silage on Owned Land

	Avg. Of All Farms
Number of fields	10
Number of farms	9
Acres	58.79
Yield per acre (ton)	16.99
Operators share of yield %	100.00
Value per ton	25.90
Other product return per acre	1.45
Total product return per acre	441.63
Gross return per acre	441.63
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Operating interest Total direct expenses per acre Return over direct exp per acre	75.75 66.97 16.88 12.05 31.86 33.54 35.92 5.59 278.57 163.06
Overhead Expenses Custom hire Hired labor Machinery leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	$\begin{array}{c} 0.84\\ 11.99\\ 0.96\\ 5.86\\ 3.79\\ 2.02\\ 1.35\\ 15.97\\ 24.42\\ 0.86\\ 68.06\\ 346.63\\ 95.00\\ \end{array}$
Government payments	9.31
Net return with govt pmts	104.30
Labor & management charge	37.20
Net return over lbr & mgt	67.10
<b>Cost of Production</b> Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	16.39 20.40 19.76 21.95
Net value per unit	25.90
Machinery cost per acre	129.60
Est. labor hours per acre	2.44

CRP on Owned Land				
	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of fields	64	5	28	10
Number of farms	29	5	6	6
Acres	49.40	51.53	32.26	45.88
Yield per acre (\$)	32.87	32.04	30.09	42.95
Operators share of yield %	100.00	100.00	100.00	100.00
Value per \$	1.00	1.00	1.00	1.00
Total product return per acre	32.87	32.04	30.09	42.95
Gross return per acre	32.87	32.04	30.09	42.95
Direct Expenses				
Crop chemicals	1.15	0.42	2.78	-
Crop insurance	0.40	4.86	-	-
Fuel & oil	0.67	0.83	0.57	0.16
Repairs	0.72	1.23	0.54	0.20
Total direct expenses per acre	3.00	7.49	3.96	0.37
Return over direct exp per acre	29.87	24.55	26.14	42.58
Overhead Expenses				
RE & pers. property taxes	5.51	6.70	6.73	4.90
Interest	6.53	23.45	2.53	3.63
Mach & bldg depreciation	0.70	0.64	0.98	0.21
Miscellaneous	1.04	1.03	0.80	0.21
Total overhead expenses per acre	13.79	31.82	11.04	8.95
Total dir & ovhd expenses per acre	16.80	39.31	14.99	9.32
Net return per acre	16.07	-7.27	15.10	33.63

#### Fallow on Cash Rent

	Avg. Of All Farms
Number of fields	23
Number of farms	20
Acres	96.29
Yield per acre	0.00
Operators share of yield %	100.00
Value	-
Total product return per acre	-
Gross return per acre	-
Direct Expenses Seed Fertilizer Crop chemicals Fuel & oil Repairs Custom hire Land rent Operating interest Total direct expenses per acre Return over direct exp per acre	0.76 0.57 6.48 8.28 11.40 0.19 36.99 1.12 65.78 -65.78
Overhead Expenses Custom hire Hired labor Machinery leases Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	1.95 3.15 0.96 1.98 1.36 2.29 7.74 0.86 20.30 86.08 -86.08
Government payments	9.56
Net return with govt pmts	-76.52
Labor & management charge	10.08
Net return over lbr & mgt	-86.60

#### Hay, Alfalfa on Owned Land

	Avg. Of All Farms
Number of fields	35
Number of farms	17
Acres	59.37
Yield per acre (ton)	1.76
Operators share of yield %	100.00
Value per ton	66.29
Total product return per acre	116.84
Other crop income per acre	1.91
Gross return per acre	118.75
Direct Expenses Seed Fertilizer Crop insurance Fuel & oil Repairs Custom hire Operating interest Total direct expenses per acre Return over direct exp per acre	$\begin{array}{c} 0.89\\ 0.50\\ 0.19\\ 12.67\\ 14.95\\ 2.25\\ 1.82\\ 33.40\\ 85.35\end{array}$
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	3.56 0.77 5.16 3.14 1.88 0.84 10.31 8.96 0.72 35.33 68.73 50.02
Government payments	2.28
Net return with govt pmts	52.30
Labor & management charge	13.54
Net return over lbr & mgt	38.77
<b>Cost of Production</b> Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	18.95 38.99 36.62 44.29
Net value per unit	66.29
Machinery cost per acre	42.14
Est. labor hours per acre	1.08

#### Hay, Alfalfa on Cash Rent

	Avg. Of All Farms
Number of fields	20
Number of farms	14
Acres	50.68
Yield per acre (ton)	2.10
Operators share of yield %	100.00
Value per ton	68.66
Total product return per acre	144.27
Gross return per acre	144.27
Direct Expenses Crop insurance Fuel & oil Repairs Custom hire Land rent Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	0.18 12.45 14.19 0.62 26.95 1.96 0.13 56.49 87.79
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	1.59 2.38 2.87 1.96 1.21 5.87 7.25 0.62 23.75 80.24 64.04
Government payments	2.53
Net return with govt pmts	66.57
Labor & management charge	13.62
Net return over lbr & mgt	52.94
<b>Cost of Production</b> Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management Net value per unit	26.88 38.19 36.98 43.47 68.66
Machinery cost per acre	41.13
Est. labor hours per acre	1.09

#### Hay, Grass on Owned Land

	Avg. Of All Farms
Number of fields Number of farms	29 20
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Gross return per acre	90.54 1.20 100.00 40.86 49.02 49.02
Direct Expenses Crop chemicals Fuel & oil Repairs Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	0.22 9.26 13.01 1.64 3.48 27.61 21.41
Overhead Expenses Custom hire Hired labor RE & pers. property taxes Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	1.28 4.12 2.75 0.89 0.90 5.30 7.57 0.71 23.52 51.12 -2.11
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	0.11 -2.00 12.48 -14.48
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management Net value per unit Machinery cost per acre Est. labor hours per acre	23.01 42.62 42.53 52.94 40.86 31.74 1.12

#### Hay, Grass on Cash Rent

	Avg. Of All Farms
Number of fields	40
Number of farms	23
Acres	144.97
Yield per acre (ton)	1.11
Operators share of yield %	100.00
Value per ton	41.70
Total product return per acre	46.24
Gross return per acre	46.24
Direct Expenses Fuel & oil Repairs Land rent Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	9.51 12.61 13.78 1.44 1.05 38.40 7.85
Overhead Expenses Custom hire Hired labor Machinery leases Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	$\begin{array}{c} 1.45\\ 3.91\\ 0.35\\ 0.80\\ 1.14\\ 1.23\\ 7.36\\ 0.66\\ 16.91\\ 55.30\\ -9.06\end{array}$
Government payments	0.01
Net return with govt pmts	-9.05
Labor & management charge	11.44
Net return over lbr & mgt	-20.48
<b>Cost of Production</b> Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management Net value per unit	34.63 49.87 49.86 60.18 41.70
Machinery cost per acre	31.89
Est. labor hours per acre	0.99

#### Hay, Mixed Alfalfa/Grass on Owned Land

	Avg. Of All Farms
Number of fields	22
Number of farms	13
Acres	47.49
Yield per acre (ton)	1.62
Operators share of yield %	100.00
Value per ton	59.14
Total product return per acre	95.69
Gross return per acre	95.69
Direct Expenses Seed Fertilizer Fuel & oil Repairs Operating interest Total direct expenses per acre Return over direct exp per acre	2.85 2.04 12.77 14.00 2.36 34.23 61.46
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	$\begin{array}{c} 4.80\\ 3.23\\ 0.90\\ 0.08\\ 4.85\\ 3.51\\ 1.74\\ 1.17\\ 17.32\\ 11.30\\ 0.40\\ 49.32\\ 83.55\\ 12.14\end{array}$
Government payments	2.25
Net return with govt pmts	14.39
Labor & management charge	13.14
Net return over lbr & mgt	1.25
<b>Cost of Production</b> Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	21.16 51.63 50.25 58.37
Net value per unit	59.14
Machinery cost per acre	45.98
Est. labor hours per acre	0.83

#### Hay, Mixed Alfalfa/Grass on Cash Rent

	Avg. Of All Farms
Number of fields	13
Number of farms	11
Acres	82.40
Yield per acre (ton)	1.40
Operators share of yield %	100.00
Value per ton	47.80
Total product return per acre	67.00
Gross return per acre	67.00
Direct Expenses Crop insurance Fuel & oil Repairs Land rent Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	$\begin{array}{c} 0.13 \\ 14.95 \\ 12.71 \\ 28.23 \\ 4.45 \\ 0.15 \\ 60.62 \\ 6.38 \end{array}$
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	1.44 0.53 0.50 3.15 2.14 2.72 3.32 10.80 0.02 24.61 85.24 -18.23
Government payments	6.49
Net return with govt pmts	-11.75
Labor & management charge	18.66
Net return over lbr & mgt	-30.41
<b>Cost of Production</b> Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	43.25 60.81 56.18 69.49
Net value per unit	47.80
Machinery cost per acre	43.26
Est. labor hours per acre	1.26

Pasture on Owned Land				
	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of fields	58	7	10	18
Number of farms	35	7	7	7
Acres	305.35	155.91	249.62	258.16
Yield per acre (aum)	1.08	0.62	0.87	1.27
Operators share of yield %	100.00	100.00	100.00	100.00
Value per aum	15.71	13.90	15.40	15.92
Other product return per acre	0.17	-	-	0.63
Total product return per acre	17.13	8.63	13.46	20.91
Other crop income per acre	3.57	-	-	12.86
Gross return per acre	20.70	8.63	13.46	33.77
Direct Expenses				
Fuel & oil	0.57	1.30	0.46	0.63
Repairs	0.77	2.12	0.50	0.86
Total direct expenses per acre	1.67	3.52	1.55	1.88
Return over direct exp per acre	19.03	5.11	11.91	31.89
Overhead Expenses				
RE & pers. property taxes	2.67	4.39	2.60	2.73
Interest	4.31	8.36	4.11	3.23
Mach & bldg depreciation	0.47	1.87	0.36	0.36
Miscellaneous	0.61	1.28	0.42	0.38
Total overhead expenses per acre	8.06	15.90	7.48	6.69
Total dir & ovhd expenses per acre	9.73	19.42	9.03	8.58
Net return per acre	10.97	-10.79	4.43	25.19

Pasture on Cash Rent				
	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of fields	88	14	31	12
Number of farms	42	8	9	9
Acres	321.90	163.02	362.27	376.88
Yield per acre (aum)	0.97	0.71	0.91	1.26
Operators share of yield %	100.00	100.00	100.00	100.00
Value per aum	15.58	15.29	15.68	15.85
Other product return per acre	0.35	-	0.53	0.04
Total product return per acre	15.43	10.91	14.87	20.03
Other crop income per acre	0.87	-	-	4.90
Gross return per acre	16.30	10.91	14.87	24.93
Direct Expenses				
Fuel & oil	0.66	0.92	0.66	0.59
Repairs	0.74	1.35	0.63	0.85
Land rent	13.20	19.36	12.38	10.95
Total direct expenses per acre	14.84	21.72	14.02	12.68
Return over direct exp per acre	1.47	-10.80	0.85	12.25
Overhead Expenses				
Mach & bldg depreciation	0.43	0.82	0.33	0.49
Miscellaneous	0.79	1.24	0.63	0.56
Total overhead expenses per acre	1.22	2.05	0.96	1.04
Total dir & ovhd expenses per acre	16.06	23.77	14.98	13.73
Net return per acre	0.25	-12.86	-0.11	11.20

#### Peas, Field on Cash Rent

	Avg. Of All Farms
Number of fields	11
Number of farms	6
Acres	76.92
Yield per acre (bu.)	39.39
Operators share of yield %	100.00
Value per bu.	9.29
Total product return per acre	365.88
Crop insurance per acre	22.04
Other crop income per acre	3.42
Gross return per acre	391.35
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Land rent Operating interest Total direct expenses per acre Return over direct exp per acre	$\begin{array}{r} 46.61\\ 14.49\\ 62.60\\ 17.66\\ 22.78\\ 29.40\\ 11.01\\ 43.72\\ 5.78\\ 254.67\\ 136.68\end{array}$
Overhead Expenses Hired labor Machinery leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	$\begin{array}{r} 8.84\\ 0.67\\ 3.95\\ 3.15\\ 1.30\\ 5.08\\ 31.20\\ 7.86\\ 62.05\\ 316.72\\ 74.63\end{array}$
Government payments	7.53
Net return with govt pmts	82.16
Labor & management charge	33.32
Net return over lbr & mgt	48.84
<b>Cost of Production</b> Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	6.47 8.04 7.20 8.05
Net value per unit	9.29
Machinery cost per acre	98.01
Est. labor hours per acre	1.94

#### Prevented planting on Owned Land

	Avg. Of _All Farms	Low 20%	40 - 60%	High 20%
Number of fields	135	28	33	27
Number of farms	74	14	15	15
Acres	157.15	84.82	172.30	172.90
Yield per acre (bu.)	0.00	0.00	0.00	0.00
Operators share of yield %	100.00	100.00	100.00	100.00
Value per bu.	1.00	1.00	1.00	1.00
Total product return per acre	0.00	0.00	0.00	0.00
Crop insurance per acre	196.88	139.71	183.29	261.77
Gross return per acre	196.88	139.71	183.29	261.77
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	$\begin{array}{c} 1.48\\ 5.67\\ 11.87\\ 19.97\\ 9.60\\ 14.13\\ 0.65\\ 1.56\\ 0.02\\ 64.95\\ 131.93\end{array}$	21.30 14.94 18.32 8.44 16.85 2.76 1.81 - 84.43 55.28	$\begin{array}{c} 1.09\\ 3.09\\ 14.05\\ 23.28\\ 9.42\\ 11.14\\ 0.14\\ 1.51\\ 0.00\\ 63.73\\ 119.56\end{array}$	$\begin{array}{c} 2.09\\ 5.38\\ 12.25\\ 18.21\\ 9.28\\ 17.84\\ 0.61\\ 1.69\\ 0.09\\ 67.44\\ 194.33\end{array}$
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	$\begin{array}{r} 4.00\\ 1.66\\ 6.24\\ 3.54\\ 2.77\\ 0.86\\ 14.36\\ 10.01\\ 2.88\\ 46.32\\ 111.27\\ 85.60\end{array}$	$\begin{array}{c} 1.61\\ 1.01\\ 5.77\\ 3.22\\ 2.71\\ 0.95\\ 24.97\\ 6.58\\ 1.29\\ 48.11\\ 132.53\\ 7.17\end{array}$	3.56 2.84 5.64 3.11 3.30 0.51 11.11 8.71 4.01 42.78 106.51 76.78	4.82 0.74 7.61 4.57 2.88 0.61 10.15 11.66 2.49 45.54 112.98 148.79
Government payments	9.65	9.38	9.89	9.85
Net return with govt pmts	95.25	16.55	86.67	158.64
Labor & management charge	14.47	11.23	14.99	16.23
Net return over lbr & mgt	80.78	5.33	71.68	142.41

#### Prevented planting on Cash Rent

	Avg. Of <u>All Farms</u>	Low 20%	40 - 60%	<u> </u>
Number of fields	321	69	72	69
Number of farms	101	20	20	21
Acres	172.63	134.03	139.75	184.80
Yield per acre (bu.)	0.00	0.00	0.00	0.00
Operators share of yield %	100.00	100.00	100.00	100.00
Value per bu.	1.00	1.00	1.00	1.00
Total product return per acre	0.00	0.00	0.00	0.00
Crop insurance per acre	193.32	147.22	165.04	260.57
Gross return per acre	193.32	147.22	165.04	260.57
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Land rent Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	0.92 2.60 11.63 18.15 10.53 13.22 0.70 44.85 2.06 0.18 104.84 88.48	5.64 15.43 16.50 8.57 14.13 1.33 46.71 2.37 110.68 36.54	0.40 3.09 12.77 16.33 8.82 9.85 0.35 40.14 1.98 0.22 93.95 71.09	$\begin{array}{c} 1.71\\ 1.77\\ 8.42\\ 20.04\\ 10.94\\ 14.02\\ 0.79\\ 46.86\\ 1.20\\ 0.56\\ 106.31\\ 154.26\end{array}$
Overhead Expenses Custom hire Hired labor Machinery leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	$\begin{array}{c} 0.24 \\ 4.15 \\ 2.91 \\ 3.49 \\ 2.49 \\ 0.99 \\ 2.84 \\ 9.55 \\ 2.26 \\ 28.93 \\ 133.77 \\ 59.55 \end{array}$	$\begin{array}{c} 0.24\\ 3.41\\ 2.25\\ 3.70\\ 3.00\\ 1.31\\ 5.06\\ 9.90\\ 1.14\\ 30.00\\ 140.68\\ 6.54\end{array}$	0.64 1.89 1.61 3.65 2.49 0.94 2.01 8.31 2.49 24.02 117.96 47.07	0.21 6.48 1.18 3.16 2.39 1.15 3.37 11.63 2.22 31.78 138.09 122.47
Government payments	9.94	10.33	10.66	9.53
Net return with govt pmts	69.49	16.86	57.73	132.00
Labor & management charge	14.53	13.27	12.90	15.02
Net return over lbr & mgt	54.96	3.60	44.83	116.98

#### Soybeans on Owned Land

	Avg. Of All Farms	<u>Low 20%</u>	40 - 60%	High 20%
Number of fields Number of farms	55 43	12 8	8 8	11 9
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Crop insurance per acre Other crop income per acre	124.66 35.17 100.00 12.19 428.61 5.76 1.39	128.22 29.33 100.00 12.18 357.18 16.87 4.72	104.62 33.97 100.00 12.14 412.48	103.35 45.40 100.00 12.34 559.98 - 0.93
Gross return per acre	435.76	378.77	412.48	560.91
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	$\begin{array}{c} 75.34\\ 21.98\\ 19.53\\ 23.93\\ 18.48\\ 30.49\\ 1.55\\ 0.15\\ 3.90\\ 0.14\\ 195.48\\ 240.28\end{array}$	84.31 25.73 20.89 38.83 19.61 45.74 0.30 3.33 238.74 140.03	64.44 28.04 22.85 15.97 17.61 29.39 7.13 1.91 0.71 188.03 224.45	66.44 36.21 20.70 21.95 17.71 17.30 0.75 0.88 0.97 0.21 183.12 377.79
Overhead Expenses Custom hire Hired labor Machinery leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	$\begin{array}{c} 1.22\\ 8.29\\ 2.49\\ 6.25\\ 4.41\\ 3.74\\ 0.82\\ 18.43\\ 23.56\\ 3.06\\ 72.26\\ 267.74\\ 168.02\end{array}$	$\begin{array}{c} 1.25\\ 9.24\\ 3.39\\ 7.04\\ 6.29\\ 4.66\\ 0.18\\ 17.70\\ 25.37\\ 4.15\\ 79.26\\ 318.00\\ 60.77\end{array}$	$\begin{array}{c} 1.02\\ 9.20\\ 0.87\\ 7.16\\ 4.32\\ 3.24\\ 0.73\\ 22.02\\ 16.91\\ 3.25\\ 68.71\\ 256.74\\ 155.74\end{array}$	$\begin{array}{c} 2.53\\ 13.12\\ 2.06\\ 4.47\\ 3.48\\ 2.71\\ 0.78\\ 11.25\\ 18.00\\ 2.37\\ 60.78\\ 243.90\\ 317.02\end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	9.17 177.19 28.26 148.93	8.67 69.44 29.69 39.75	9.81 165.54 26.96 138.58	10.14 327.16 27.51 299.65
<b>Cost of Production</b> Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	5.56 7.61 7.15 7.95	8.14 10.84 9.81 10.82	5.53 7.56 7.27 8.06	4.03 5.37 5.13 5.73
Net value per unit Machinery cost per acre Est. labor hours per acre	12.19 79.58 1.48	12.18 98.68 1.66	12.14 76.08 1.78	12.34 60.91 1.58

#### Soybeans on Cash Rent

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of fields	125	24	31	- 18
Number of farms	66	13	13	14
Acres	188.44	135.82	239.43	152.70
Yield per acre (bu.)	33.29	27.24	32.91	42.72
Operators share of yield %	100.00	100.00	100.00	100.00
Value per bu.	12.26	12.21	12.24	12.49
Total product return per acre	408.34	332.57	402.81	533.49
Crop insurance per acre Other crop income per acre	16.69 0.88	24.29	33.03 0.99	-
Gross return per acre	425.91	356.86	436.83	533.49
Direct Expenses				
Seed	78.36	72.58	87.07	74.55
Fertilizer	27.63	36.48	26.93	27.48
Crop chemicals	27.12	33.83	31.33	25.02
Crop insurance Fuel & oil	20.96 20.79	19.80 24.94	23.42 18.66	19.60 17.88
Repairs	30.05	24.94 39.18	35.26	23.21
Custom hire	2.31	9.15	0.42	1.07
Hired labor	0.18	1.29	-	-
Land rent	50.65	66.79	47.94	45.92
Machinery leases	0.08			0.71
Operating interest	5.54	10.76	7.59	2.74
Miscellaneous Total direct expenses per acre	0.34 264.00	0.44 315.25	- 278.61	0.62 238.80
Return over direct exp per acre	161.91	41.62	158.21	238.80
Overhead Expenses				
Custom hire	1.28	0.99	0.17	2.95
Hiredlabor	6.43	5.42	4.96	4.87
Machinery leases	5.95	12.05	8.23	4.51
Farm insurance	3.91 3.58	3.19	4.34 4.17	2.93
Utilities Dues & professional fees	0.78	4.84 2.33	4.17 0.22	3.13 1.09
Interest	4.49	4.20	5.34	3.09
Mach & bldg depreciation	22.74	23.03	27.26	20.47
Miscellaneous	3.13	4.58	3.01	4.52
Total overhead expenses per acre	52.30	60.62	57.71	47.56
Total dir & ovhd expenses per acre	316.30	375.87	336.32	286.36
Net return per acre	109.61	-19.00	100.50	247.13
Government payments	10.22	10.08	11.51	9.02
Net return with govt pmts	119.82	-8.93	112.01	256.15
Labor & management charge	29.71	35.06	28.29	36.33
Net return over Ibr & mgt	90.11	-43.99	83.72	219.82
Cost of Production			a /=	
Total direct expense per bu.	7.93	11.57	8.47	5.59
Total dir & ovhd exp per bu. Less govt & other income	9.50 8.67	13.80 12.54	10.22 8.84	6.70 6.49
With labor & management	9.56	13.83	9.69	7.34
-				
Net value per unit	12.26	12.21	12.24	12.49
Machinery cost per acre	85.48 1.44	112.92 1.93	91.66 1.12	72.49 1.72
Est. labor hours per acre	1.44	1.95	1.12	1.72

#### Soybeans on Share Rent

	Avg. Of <u>All Farms</u>
Number of fields	42
Number of farms	21
Acres	102.48
Yield per acre (bu.)	36.72
Operators share of yield %	58.32
Value per bu.	12.34
Total product return per acre	264.13
Other crop income per acre	1.30
Gross return per acre	265.43
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	$\begin{array}{r} 49.33\\ 13.64\\ 14.51\\ 11.54\\ 14.94\\ 26.32\\ 3.40\\ 1.00\\ 3.57\\ 6.67\\ 144.92\\ 120.51\end{array}$
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	1.22 6.75 2.07 3.93 3.06 0.94 2.56 21.14 1.40 43.07 187.99 77.44
Government payments	5.32
Net return with govt pmts	82.76
Labor & management charge	25.95
Net return over lbr & mgt	56.81
<b>Cost of Production</b> Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	6.77 8.78 8.47 9.68
Net value per unit	12.34
Machinery cost per acre	70.17
Est. labor hours per acre	1.32

#### Sunflowers on Cash Rent

	Avg. Of All Farms
Number of fields	17
Number of farms	6
Acres	87.10
Yield per acre (cwt.)	18.91
Operators share of yield %	100.00
Value per cwt.	20.28
Total product return per acre	383.33
Crop insurance per acre	0.42
Gross return per acre	383.75
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Drying expense Fuel & oil Repairs Custom hire Land rent Operating interest Total direct expenses per acre Return over direct exp per acre	$\begin{array}{r} 41.73\\ 43.44\\ 52.51\\ 25.51\\ 0.69\\ 17.86\\ 31.41\\ 11.38\\ 42.44\\ 6.95\\ 274.28\\ 109.47\end{array}$
Overhead Expenses Custom hire Hired labor Machinery leases Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	$\begin{array}{c} 0.92 \\ 11.96 \\ 0.98 \\ 1.25 \\ 4.18 \\ 1.72 \\ 3.80 \\ 2.75 \\ 20.27 \\ 1.12 \\ 48.94 \\ 323.22 \\ 60.53 \end{array}$
Government payments	8.45
Net return with govt pmts	68.99
Labor & management charge	38.51
Net return over lbr & mgt	30.48
<b>Cost of Production</b> Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	14.51 17.10 16.63 18.66
Net value per unit	20.28
Machinery cost per acre	83.65
Est. labor hours per acre	1.52

#### Wheat, Spring on Owned Land

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of fields Number of farms	108 63	25 12	17 12	25 13
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	$\begin{array}{c} 145.66 \\ 58.41 \\ 100.00 \\ 6.15 \\ 0.10 \\ 359.59 \\ 10.64 \\ 1.94 \\ 372.18 \end{array}$	124.47 36.52 100.00 6.33 0.33 231.45 38.45 4.29 274.19	135.54 63.23 100.00 5.96 0.23 377.25 12.79 2.76 392.81	198.55 69.85 100.00 6.40 446.94 1.77 448.72
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	$\begin{array}{c} 20.05 \\ 69.20 \\ 37.53 \\ 21.11 \\ 19.30 \\ 28.70 \\ 4.62 \\ 3.80 \\ 0.42 \\ 204.72 \\ 167.46 \end{array}$	$\begin{array}{c} 23.32 \\ 65.87 \\ 40.84 \\ 18.24 \\ 19.84 \\ 30.32 \\ 3.39 \\ 5.33 \\ 0.35 \\ 207.50 \\ 66.69 \end{array}$	$\begin{array}{c} 21.76 \\ 84.03 \\ 43.92 \\ 31.98 \\ 19.79 \\ 30.32 \\ 2.34 \\ 5.64 \\ 0.09 \\ 239.88 \\ 152.93 \end{array}$	18.80 70.22 31.74 19.34 19.13 28.04 3.63 1.74 0.37 193.00 255.72
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	$\begin{array}{c} 1.11\\ 6.76\\ 1.94\\ 0.23\\ 6.06\\ 4.62\\ 3.30\\ 1.30\\ 15.36\\ 22.90\\ 2.41\\ 65.98\\ 270.70\\ 101.48\end{array}$	$\begin{array}{c} 0.61\\ 9.38\\ 1.50\\ 0.73\\ 6.15\\ 4.75\\ 3.38\\ 1.51\\ 18.83\\ 18.66\\ 3.92\\ 69.42\\ 276.92\\ -2.73\end{array}$	1.53 5.66 4.74 7.27 4.77 3.14 1.23 18.11 25.96 1.42 73.83 313.71 79.10	$\begin{array}{c} 0.00\\ 4.56\\ 1.59\\ 0.22\\ 4.88\\ 5.07\\ 3.38\\ 1.41\\ 12.75\\ 24.59\\ 1.85\\ 60.30\\ 253.30\\ 195.41\end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	9.77 111.25 28.50 82.75	8.99 6.25 29.42 -23.17	10.72 89.82 26.44 63.38	9.40 204.81 27.96 176.85
<b>Cost of Production</b> Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	3.50 4.63 4.25 4.74	5.68 7.58 6.16 6.96	3.79 4.96 4.54 4.96	2.76 3.63 3.47 3.87
Net value per unit Machinery cost per acre Est. labor hours per acre	6.15 79.81 1.41	6.33 77.53 1.49	5.96 86.26 1.30	6.40 77.43 1.26

#### Wheat, Spring on Cash Rent

	Avg. Of All Farms	Low 20%	40 - 60%	
Number of fields Number of farms	185 88	32 17	31 17	35 18
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	165.5260.16100.006.18371.825.100.62377.54	178.73 48.88 100.00 5.97 291.92 6.52 - 298.44	249.30 60.12 100.00 6.01 361.41 13.85 0.72 375.98	142.53 72.35 100.00 6.53 472.58 0.83 473.41
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Drying expense Fuel & oil Repairs Custom hire Land rent Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	$\begin{array}{c} 21.07\\ 73.62\\ 39.47\\ 22.38\\ 0.37\\ 20.61\\ 29.00\\ 4.40\\ 46.80\\ 5.05\\ 0.17\\ 262.95\\ 114.59\end{array}$	$\begin{array}{c} 22.16\\ 77.31\\ 36.75\\ 16.94\\ 0.45\\ 20.89\\ 29.32\\ 5.17\\ 46.02\\ 4.68\\ 0.04\\ 259.72\\ 38.72 \end{array}$	$     \begin{array}{r}       19.32 \\       69.47 \\       41.89 \\       27.36 \\       - \\       21.93 \\       32.71 \\       1.13 \\       44.58 \\       7.00 \\       0.03 \\       265.42 \\       110.56 \\     \end{array} $	$\begin{array}{c} 20.31 \\ 71.39 \\ 34.46 \\ 21.98 \\ 0.60 \\ 20.56 \\ 26.45 \\ 5.38 \\ 51.68 \\ 4.16 \\ 0.31 \\ 257.27 \\ 216.14 \end{array}$
Overhead Expenses Custom hire Hired labor Machinery leases Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	0.88 7.03 7.25 0.23 3.83 2.90 0.99 3.59 18.89 2.41 48.02 310.97 66.57	$\begin{array}{c} 1.47\\ 7.30\\ 23.88\\ 0.32\\ 4.01\\ 2.99\\ 1.13\\ 2.68\\ 15.14\\ 2.41\\ 61.34\\ 321.05\\ -22.62\end{array}$	$\begin{array}{c} 0.46 \\ 7.89 \\ 5.49 \\ 0.08 \\ 3.10 \\ 3.34 \\ 0.51 \\ 6.20 \\ 19.36 \\ 1.93 \\ 48.36 \\ 313.78 \\ 62.20 \end{array}$	$\begin{array}{c} 0.38\\ 3.34\\ 3.39\\ 0.61\\ 4.36\\ 2.70\\ 1.01\\ 2.34\\ 22.49\\ 3.40\\ 44.04\\ 301.31\\ 172.10\end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	9.98 76.55 30.69 45.86	10.07 -12.55 31.46 -44.01	10.07 72.27 26.60 45.67	11.24 183.35 34.49 148.85
<b>Cost of Production</b> Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	4.37 5.17 4.91 5.42	5.31 6.57 6.23 6.87	4.41 5.22 4.81 5.25	3.56 4.16 4.00 4.47
Net value per unit Machinery cost per acre Est. labor hours per acre	6.18 83.06 1.51	5.97 97.63 1.63	6.01 84.63 1.39	6.53 80.23 1.41

#### Wheat, Spring on Share Rent

	Avg. Of All Farms	Low 20%	40 - 60%	
Number of fields Number of farms	63 28	85	15 5	10
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	132.87 58.19 64.85 6.12 231.01 0.61 1.36 232.98	133.29 33.21 70.62 6.59 154.55 0.83 0.13 155.52	95.90 53.52 60.11 6.26 201.34 1.86 2.89 206.09	175.31 75.07 70.00 6.12 321.78 - 2.03 323.81
Direct Expenses Seed 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	$18.29 \\ 53.70 \\ 28.42 \\ 11.03 \\ 0.18 \\ 15.55 \\ 27.02 \\ 6.40 \\ 1.40 \\ 3.83 \\ 4.34 \\ 170.16 \\ 62.82$	23.75 65.93 27.05 8.18 16.63 27.86 12.17 4.35 1.30 187.21 -31.69	17.07 53.22 28.46 11.45 - 10.36 24.57 2.24 7.28 1.47 0.05 156.16 49.93	$\begin{array}{c} 16.14\\ 56.87\\ 37.86\\ 11.34\\ 0.53\\ 15.89\\ 24.53\\ 14.71\\ 0.70\\ 4.24\\ 0.35\\ 183.16\\ 140.65\end{array}$
Overhead Expenses Custom hire Hired labor Machinery leases Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	$\begin{array}{c} 0.97 \\ 4.86 \\ 1.68 \\ 0.29 \\ 3.84 \\ 2.83 \\ 1.23 \\ 2.28 \\ 20.65 \\ 1.83 \\ 40.45 \\ 210.60 \\ 22.37 \end{array}$	0.01 7.86 1.82 7.16 2.48 0.07 3.45 19.60 0.34 42.79 230.00 -74.48	0.26 3.26 0.02 0.67 2.99 2.75 1.60 1.64 24.63 1.90 39.71 195.87 10.22	$\begin{array}{c} 0.57\\ 3.70\\ 4.38\\ 0.13\\ 3.06\\ 3.05\\ 1.28\\ 2.54\\ 21.16\\ 2.55\\ 42.41\\ 225.57\\ 98.24\end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	6.18 28.55 26.84 1.71	6.82 -67.66 26.03 -93.69	5.80 16.02 26.20 -10.18	7.01 105.25 26.44 78.81
<b>Cost of Production</b> Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	4.51 5.58 5.37 6.08	7.98 9.81 9.48 10.59	4.85 6.09 5.76 6.57	3.49 4.29 4.12 4.62
Net value per unit Machinery cost per acre Est. labor hours per acre	6.12 73.34 1.24	6.59 80.46 1.05	6.26 67.73 1.36	6.12 82.30 1.13

# 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. O All Farn		Low20	0%	40 - 60	%	High 2	0%
Number of farms		30		6		6		6
Beef Calves sold (lb) Transferred out (lb) Cull sales (lb) Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 33.89 66.12	Value 59.14 113.54 32.75 -18.80 -40.27 16.26 163.59	Quantity 33.00 67.12	Value 58.38 115.38 34.06 0.53 -28.47 -32.92 3.42 150.37	Quantity 34.06 65.94	Value 57.08 114.34 28.60 1.01 -7.20 -42.30 8.89 160.43	Quantity 43.17 56.83	Value 75.80 97.11 24.97 0.33 -30.83 -36.20 41.02 172.19
Direct Expenses Protein Vit Minerals (lb.) Creep / Starter (lb.) Complete Ration (lb.) Aftermath Grazing (aum) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) DDGS, dry (lb.) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Custom hire Total direct expenses Return over direct expense	14.06 14.16 13.69 0.04 535.18 106.29 1,062.10 1.45 11.30 48.52	$\begin{array}{c} 3.79\\ 2.32\\ 2.02\\ 0.60\\ 6.89\\ 2.60\\ 20.99\\ 20.01\\ 1.75\\ 1.52\\ 5.51\\ 5.00\\ 5.85\\ 10.09\\ 1.77\\ 90.70\\ 72.89\end{array}$	1.87 18.68 0.28 1,573.79 44.93 1,396.98 1.64 0.12 9.35	0.80 3.74 4.49 17.44 0.79 21.96 25.85 0.06 0.16 4.77 9.47 11.06 19.36 5.15 125.10 25.28	29.00 45.34 725.68 150.87 895.14 1.44 35.60 67.01	6.00 7.42 10.45 3.58 18.06 15.52 5.55 1.04 9.05 5.68 5.64 8.00 1.72 97.70 62.73	2.60 20.02 0.04 301.35 81.60 1,110.62 1.35 0.65 13.39	1.10 2.34 0.56 4.19 2.47 20.54 20.41 0.07 1.42 2.06 3.04 5.18 8.99 0.90 73.28 98.91
Overhead Expenses Hired labor Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		4.23 2.30 2.99 0.86 2.33 6.81 1.36 20.88 111.58 52.01		9.96 3.53 6.89 2.40 3.53 11.15 1.43 38.90 164.00 -13.63		1.50 1.12 1.95 0.26 0.75 5.78 0.87 12.23 109.93 50.50		3.90 2.20 2.40 0.85 4.92 5.75 1.53 21.55 94.83 77.36
Labor & management charge Net return over lbr & mgt		15.30 36.70		24.84 -38.47		10.60 39.90		14.82 62.54
Cost of Production Per Cwt. Prod Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management	duced	90.70 111.58 121.67 136.97		125.10 164.00 187.77 212.61		97.70 109.93 122.04 132.64		73.28 94.83 95.87 110.69
Est. labor hours per unit		1.23		1.78		1.04		1.11
Other Information Number of cows Pregnancy percentage Pregnancy loss percentage Culling percentage Calving percentage Weaning percentage Calves sold per cow Calf death loss percent Cow death loss percent Average weaning weight Lb. weaned/exposed female Feed cost per cow Avg wgt/ Beef Calves sold Avg price / cwt.		153.0 92.9 2.8 17.4 90.3 85.8 0.91 5.3 1.9 560 480 311.08 562 174.51		68.5 89.1 2.6 13.6 86.8 76.9 0.77 11.5 4.9 538 414 313.59 543 176.94		233.8 91.9 3.6 16.9 88.6 84.3 0.89 4.6 1.6 559 471 343.87 593 167.58		196.4 92.3 2.5 14.3 90.0 86.4 0.92 4.4 1.0 567 490 276.09 581 175.59

#### Beef Cow-Calf -- Average Per Cow

	Avg. C All Fari		Low20	0%	40 - 60	0%	High 2	0%
Number of farms		30		6		6		6
Beef Calves sold (lb) Transferred out (lb) Cull sales (lb) Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 168.7 329.1	Value 294.40 565.17 163.00 4.81 -93.58 -200.45 80.92 814.27	Quantity 137.4 279.6	Value 243.18 480.61 141.87 2.19 -118.58 -137.14 14.23 626.36	Quantity 173.2 335.4	Value 290.33 581.56 145.45 -36.62 -215.12 45.22 815.96	Quantity 224.4 295.5	Value 394.07 504.86 129.84 1.70 -160.30 -188.20 213.28 895.25
Direct Expenses Protein Vit Minerals (lb.) Creep / Starter (lb.) Complete Ration (lb.) Aftermath Grazing (aum) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) DDGS, dry (lb.) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Custom hire Total direct expenses Return over direct expense	70.0 70.5 68.1 0.2 2,663.9 529.1 5,286.7 7.2 56.3 241.5	$\begin{array}{c} 18.86\\ 11.53\\ 10.07\\ 3.00\\ 34.28\\ 12.96\\ 104.47\\ 99.62\\ 8.73\\ 7.55\\ 27.41\\ 24.86\\ 29.11\\ 50.20\\ 8.79\\ 451.46\\ 362.81\end{array}$	7.8 77.8 1.2 6,555.3 187.1 5,818.8 6.8 0.5 38.9	3.34 15.56 18.70 72.64 3.28 91.48 107.68 0.24 0.66 19.86 39.45 46.08 80.63 21.46 521.07 105.28	147.5 230.6 - 3,690.9 767.3 4,552.8 7.3 181.1 340.8	30.54 37.72 53.16 18.18 91.85 78.91 28.21 5.29 46.05 28.87 28.68 40.69 8.77 496.92 319.04	13.5 104.1 0.2 1,566.8 424.3 5,774.2 7.0 3.4 69.6	5.72 12.19 2.93 21.80 12.84 106.80 106.11 0.35 7.36 10.72 15.83 26.94 46.74 4.66 380.98 514.27
Overhead Expenses Hired labor Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		21.04 11.44 14.90 4.30 11.59 33.91 6.75 103.94 555.40 258.86		41.51 14.71 28.72 10.01 14.71 46.44 5.97 162.05 683.12 -56.77		7.65 5.68 9.93 1.31 3.82 29.40 4.43 62.22 559.14 256.83		20.28 11.43 12.47 4.41 25.60 29.88 7.98 112.06 493.03 402.21
Labor & management charge Net return over lbr & mgt		76.18 182.69		103.47 -160.24		53.90 202.93		77.05 325.16
Cost of Production Per Cwt. Prod Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management	luced	90.70 111.58 121.67 136.97		125.10 164.00 187.77 212.61		97.70 109.93 122.04 132.64		73.28 94.83 95.87 110.69
Est. labor hours per unit		6.11		7.42		5.27		5.77
Other Information Number of cows Pregnancy percentage Pregnancy loss percentage Culling percentage Calving percentage Weaning percentage Calves sold per cow Calf death loss percent Cow death loss percent Average weaning weight Lb. weaned/exposed female Feed cost per cow Avg wgt/ Beef Calves sold Avg price / cwt.		153.0 92.9 2.8 17.4 90.3 85.8 0.91 5.3 1.9 560 480 311.08 562 174.51		68.5 89.1 2.6 13.6 86.8 76.9 0.77 11.5 4.9 538 414 313.59 543 176.94		233.8 91.9 3.6 16.9 88.6 84.3 0.89 4.6 1.6 559 471 343.87 593 167.58		196.4 92.3 2.5 14.3 90.0 86.4 0.92 4.4 1.0 567 490 276.09 581 175.59

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

	Avg. Of All Farms		
Number of farms		9	
Beef Calves sold (lb) Transferred out (lb) Cull sales (lb) Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 109.57 6.00	Value 168.18 8.53 21.93 1.20 -16.06 -8.93 20.65 195.52	
Direct Expenses Protein Vit Minerals (lb.) Creep / Starter (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) Peas, Field (lb.) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Hired labor Utilities Operating interest Total direct expenses Return over direct expense	7.04 58.76 50.31 0.72 343.57 163.08 1,924.49 1.36 0.46 0.25	$\begin{array}{c} 2.00\\ 2.40\\ 6.40\\ 2.30\\ 5.36\\ 4.89\\ 49.22\\ 18.97\\ 3.30\\ 0.75\\ 5.00\\ 7.73\\ 10.83\\ 22.77\\ 1.06\\ 1.03\\ 1.86\\ 145.89\\ 49.63\end{array}$	
Overhead Expenses Farm insurance Utilities Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		3.68 2.09 9.78 3.89 19.44 165.33 30.19	
Labor & management charge Net return over lbr & mgt		21.30 8.89	
<b>Cost of Production Per Cwt. Produced</b> Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management		145.89 165.33 145.71 167.02	
Est. labor hours per unit		1.42	
Other Information Number of cows Pregnancy percentage Pregnancy loss percentage Culling percentage Calving percentage Weaning percentage Calves sold per cow Calf death loss percent Cow death loss percent Average weaning weight Lb. weaned/exposed female Feed cost per cow Avg wgt/ Beef Calves sold Avg price / cwt.		75.797.05.311.791.984.50.878.64.1549464443.77615153.49	

#### Beef Cow-Calf Including Cow-calf w/backgrounding -- Average Per Cow

	Avg. Of All Farms		
Number of farms		9	
Beef Calves sold (lb) Transferred out (lb) Cull sales (lb) Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 508.7 27.9	Value 780.73 39.61 101.80 559 -74.53 -41.46 95.88 907.62	
Direct Expenses Protein Vit Minerals (lb.) Creep / Starter (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) Peas, Field (lb.) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Hired labor Machinery leases Utilities Operating interest Total direct expenses Return over direct expense	32.7 272.8 233.6 3.3 1,594.9 757.0 8,933.8 6.3 2.1 1.2	$\begin{array}{c} 9.31\\ 11.16\\ 29.71\\ 10.69\\ 24.88\\ 22.71\\ 228.47\\ 88.05\\ 15.31\\ 3.49\\ 23.19\\ 26.80\\ 50.28\\ 105.72\\ 4.94\\ 9.08\\ 4.79\\ 8.66\\ 677.23\\ 230.39\\ \end{array}$	
Overhead Expenses Farm insurance Utilities Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		17.08 9.69 45.41 18.05 90.24 767.47 140.15	
Labor & management charge Net return over lbr & mgt		98.89 41.27	
<b>Cost of Production Per Cwt. Produced</b> Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management		145.89 165.33 145.71 167.02	
Est. labor hours per unit		6.58	
Other Information Number of cows Pregnancy percentage Pregnancy loss percentage Culling percentage Calving percentage Weaning percentage Calves sold per cow Calf death loss percent Cow death loss percent Average weaning weight Lb. weaned/exposed female Feed cost per cow Avg wgt/ Beef Calves sold Avg price / cwt.		75.797.05.311.791.984.50.8786.44.1549464443.77615153.49	

#### Beef Replacement Heifers -- Average Per Head Sold/Trans

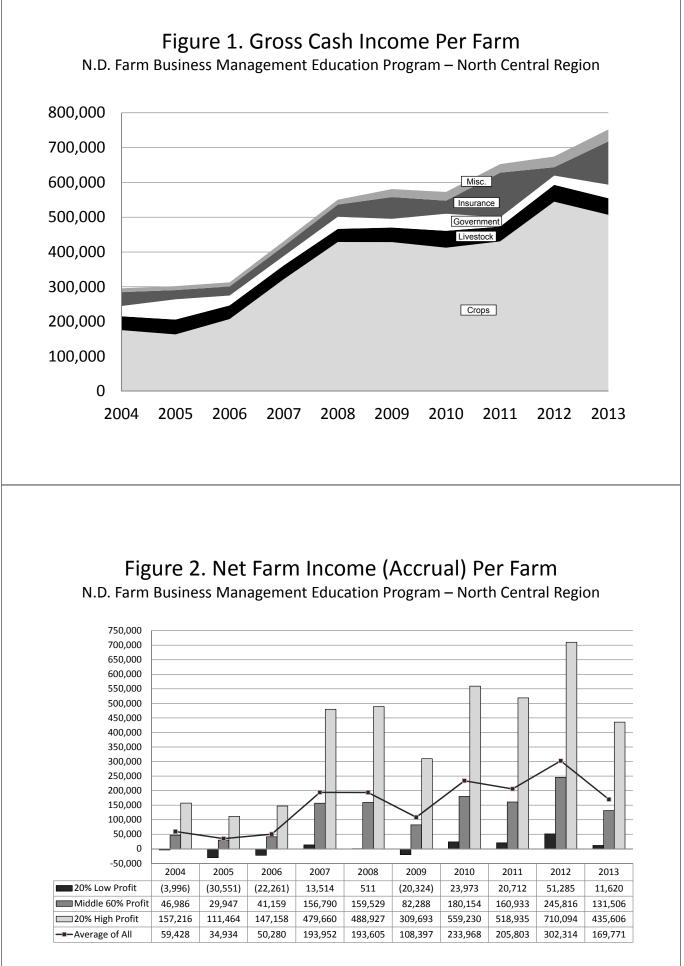
	Ave All F	Avg. Of All Farms		
Number of farms		14		
Beef Replace sold (hd) Transferred out (hd) Cull sales (hd) Other income	Quantity 0.1 0.9 0.0	Value 96.92 1,388.72 14.85		
Purchased (hd) Transferred in (hd) Inventory change (hd) Gross margin	0.0 0.7 -0.2	-39.82 -733.02 -155.17 572.47		
Direct Expenses Creep / Starter (lb.) Complete Ration (lb.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Custom hire Total direct expenses Return over direct expense	37.1 102.0 721.4 423.5 1,471.1 4.2 39.3	6.08 12.24 8.65 10.20 30.33 60.40 11.39 7.78 4.50 2.90 5.48 11.71 171.67 400.80		
Overhead Expenses Hired labor Utilities Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		2.47 2.31 2.25 4.78 11.81 183.48 388.99		
Labor & management charge Net return over lbr & mgt		8.57 380.42		
Est. labor hours per unit		0.67		
Other Information No. purchased or trans in Number sold or trans out Average number of head Percentage death loss Feed cost/head sold/trans		36 46 44 0.1 139.30		

#### Beef Backgrounding -- Average Per Cwt. Produced

	Avg. Of All Farms		40 - 60%		High 20%	
Number of farms		22		5	-	5
Backgnd Beef sold (lb) Transferred out (lb) Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 419.99 113.36 -11.00 -268.89 -156.17	Value 644.74 153.88 3.05 -16.72 -461.29 -195.08 128.58	Quantity 382.56 199.15 - -241.62 -241.10	Value 553.70 245.84 1.41 - -389.16 -276.04 135.75	Quantity 409.95 5.74 -19.29 -158.81 -142.11	Value 643.74 9.45 4.27 -26.13 -286.03 -194.81 150.49
Direct Expenses Protein Vit Minerals (lb.) Creep / Starter (lb.) Complete Ration (lb.) Barley (bu.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Oats (bu.) Pasture (aum) DDGS, dry (lb.) Other feed stuffs (lb) Veterinary Supplies Repairs Custom hire Livestock leases Marketing Total direct expenses Return over direct expense	6.57 17.14 30.05 0.96 1.60 612.53 89.08 594.48 1.62 0.28 31.02 100.91	$\begin{array}{c} 1.88\\ 2.86\\ 2.65\\ 3.10\\ 7.51\\ 6.89\\ 2.19\\ 12.25\\ 4.48\\ 5.02\\ 4.33\\ 0.89\\ 1.22\\ 3.47\\ 4.34\\ 0.79\\ 0.35\\ 1.72\\ 65.94\\ 62.64\end{array}$	15.42 1.54 2.49 1,243.22 171.45 613.52 2.95 0.46 -	1.73 4.19 14.24 14.70 4.29 12.20 7.38 12.59 2.00 2.25 4.24 4.41 - 1.02 85.20 50.55	15.32 15.73 87.38 0.90 1.63 246.35 78.58 338.42 0.34 8.26	4.28 2.58 7.42 2.76 5.65 3.16 2.05 7.48 2.41 1.35 0.55 1.35 0.81 1.37 43.21 107.28
Overhead Expenses Hired labor Farm insurance Utilities Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return Labor & management charge Net return over lbr & mgt		2.49 1.25 1.62 2.93 1.44 9.74 75.68 52.91 7.00 45.91		2.40 1.37 2.43 1.88 9.87 95.07 40.68 5.19 35.49		0.10 0.15 0.19 0.35 0.48 1.25 44.46 106.03 3.05 102.98
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 Est. labor hours per unit		137.99 139.82 139.82 141.13 0.63		128.76 130.45 130.45 131.35 0.40		131.33 131.63 131.63 132.36 0.22
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 Avg wgt / Backgnd Beef sold Avg sales price / cwt.		80 121 0.3 1.10 2.73 12.61 54.05 52.17 663 153.51		73 131 0.86 3.23 17.87 73.30 72.34 684 144.74		69 118 0.2 1.28 2.61 7.60 39.14 62.65 715 157.03

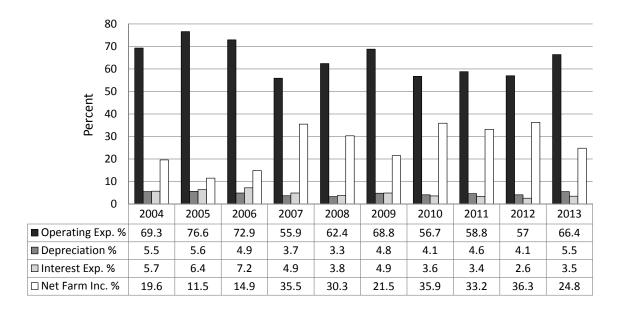
#### Beef Backgrounding -- Average Per Head

	Avg. ( All Far		40 - 6	0%	High 2	20%	
Number of farms	22			5		5	
Backgnd Beef sold (lb) Transferred out (lb) Otherincome Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 405.4 109.4 -10.6 -259.5 -150.7	Value 622.29 148.52 2.94 -16.14 -445.22 -188.29 124.11	Quantity 377.5 196.5 - -238.5 -237.9	Value 546.45 242.62 1.39 - - -384.06 -272.43 133.98	Quantity 656.2 9.2 -30.9 -254.2 -227.5	Value 1,030.38 15.12 6.83 -41.82 -457.82 -311.82 240.88	
Direct Expenses Protein Vit Minerals (lb.) Creep / Starter (lb.) Complete Ration (lb.) Barley (bu.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Alfalfa (lb.) Oats (bu.) Pasture (aum) DDGS, dry (lb.) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Custom hire Livestock leases Marketing Total direct expenses Return over direct expense	6.3 16.5 29.0 0.9 1.5 591.2 86.0 573.8 1.6 0.3 29.9 97.4	$\begin{array}{c} 1.81\\ 2.76\\ 2.56\\ 3.00\\ 7.25\\ 6.65\\ 2.11\\ 11.82\\ 4.32\\ 4.84\\ 4.18\\ 0.86\\ 1.18\\ 1.29\\ 2.06\\ 4.19\\ 0.76\\ 0.34\\ 1.66\\ 63.64\\ 60.46\end{array}$	15.2 1.5 2.5 1,226.9 169.2 605.5 2.9 0.5 260.7	1.70 4.13 14.05 14.50 4.23 12.04 7.28 12.42 1.97 2.22 2.79 1.39 4.35 - 1.00 84.09 49.89	24.5 25.2 139.9 1.4 2.6 394.3 125.8 541.7 0.6 13.2	6.85 4.13 11.87 4.42 9.04 5.06 3.28 11.97 3.86 2.17 0.87 1.05 1.10 1.29 2.20 69.16 171.71	
Overhead Expenses Hired labor Utilities Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		2.41 1.57 2.83 2.59 9.40 73.04 51.06		2.37 1.77 2.40 3.21 9.74 93.83 40.15		0.15 0.30 0.55 0.99 2.00 71.16 169.71	
Labor & management charge Net return over lbr & mgt		6.76 44.31		5.13 35.02		4.88 164.83	
<b>Cost of Production Per Cwt. Produced</b> Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management		137.99 139.82 139.82 141.13		128.76 130.45 130.45 131.35		131.33 131.63 131.63 132.36	
Est. labor hours per unit		0.61		0.39		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 Avg wgt / Backgnd Beef sold Avg sales price / cwt.		80 121 0.3 1.10 2.73 12.61 54.05 52.17 663 153.51		73 131 0.86 3.23 17.87 73.30 72.34 684 144.74		69 118 0.2 1.28 2.61 7.60 39.14 62.65 715 157.03	

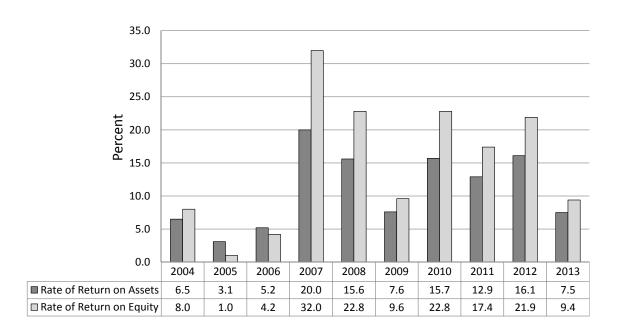


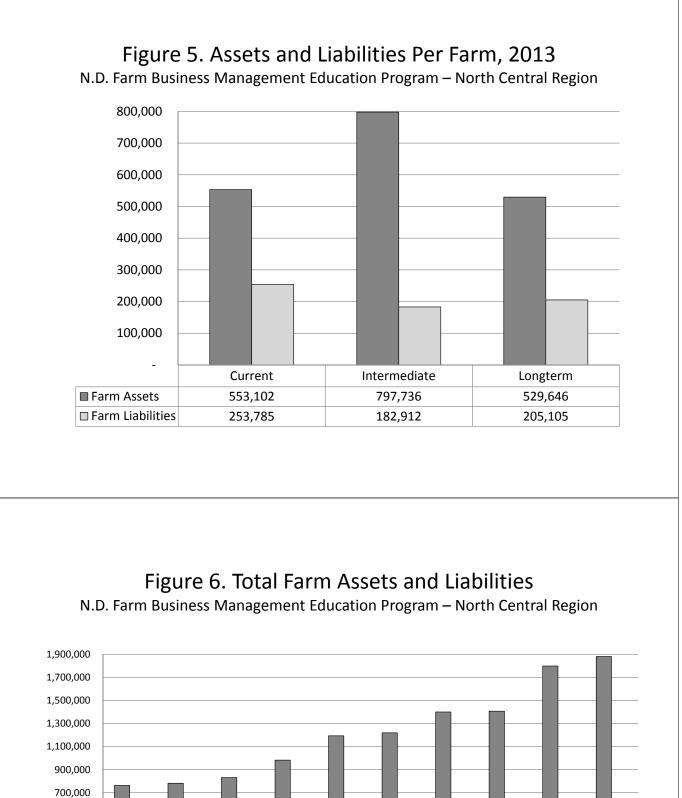
# Figure 3. Financial Efficiency Measures (As Percent of Gross Revenue)

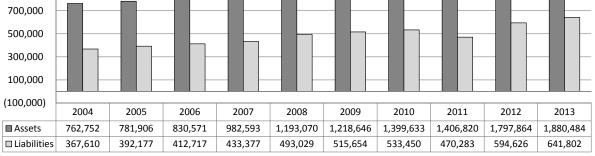
#### N.D. Farm Business Management Education Program – North Central Region



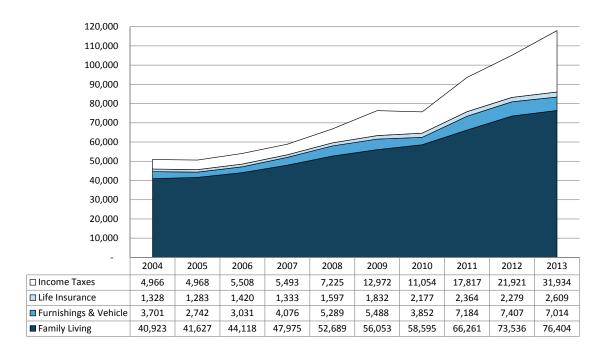
### **Figure 4. Profitability Measures Per Farm** N.D. Farm Business Management Education Program – North Central Region



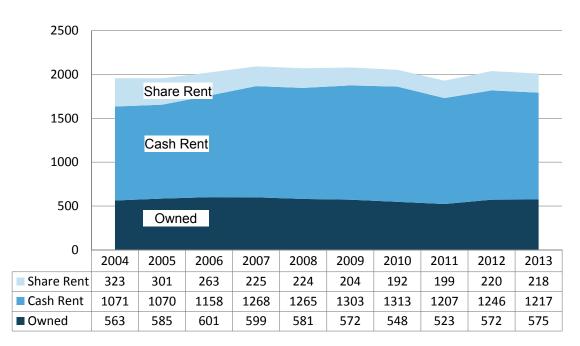




# **Figure 7. Household and Personal Expenses** N.D. Farm Business Management Education Program – North Central Region



# Figure 8. Crop Acreage Per Farm



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

#### Figure 9. Spring Wheat Costs Per Acre N.D. Farm Business Management Education Program - South Central Region 350 300 250 Overhead Land Rent 200 Other Direct Costs 150 Repairs Chemicals 100 Fertilizer 50 Seed 0 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013

□ Overhead

Land Rent

Repairs

Chemicals

Fertilizer

Seed

Other Direct Costs

20.66

31.24

20.66

12.25

16.22

21.36

8.89

19.81

31.28

24.77

10.32

18.84

24.02

9.3

21.6

32.57

27.69

10.72

16.07

25.56

9.21

22.71

33.28

30.12

13.06

22.83

27.97

11.29

27.87

36.89

50.16

17.45

26.18

44.11

20.43

29.5

36.85

35.68

16.08

27.39

50.75

15.78

31.85

39.12

38.74

18.34

29.66

43.29

13.65

42.28

41.79

51.83

22.74

33.05

64.99

21.27

39.47

43.17

44.01

21.11

33.52

68.99

21.13

48.02

46.80

52.98

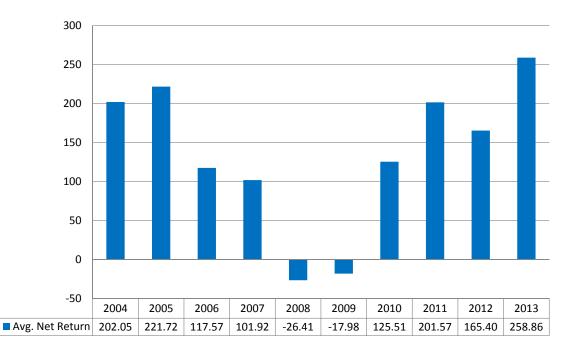
29.00

39.47

73.63

21.07

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





Channel.





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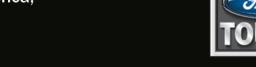
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