2013 ANNUAL REPORT Region 3

North Dakota Farm and Ranch Business Management Education





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NORTH DAKOTA FARM BUSINESS MANAGEMENT EDUCATION

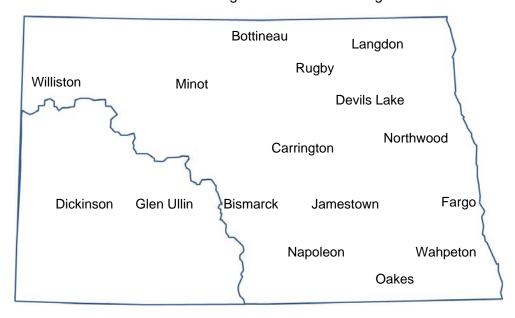
REGION 3 – SOUTH CENTRAL AVERAGES 2013 ANNUAL REPORT

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

School	Instructor
Bismarck State College	
Carrington High School	
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Jamestown (JVCTC)	
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Wahpeton (NDSCS)	. Keith Torgerson

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 South 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 www.ndfarmmanagement.com.

EXPLANATORY NOTES FOR THE FARM OPERATORS' REPORTS

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

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

Farm Income Statement

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

The first section of the 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" which refers to all other government payments such as disaster payments but not including CRP 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 cash 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 are 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 Program Region 3 - South Central North Dakota, 2013 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	146	29	29	30
Cash Farm Income				
Barley	28,801	7,905	8,911	104,034
Beans, Black Turtle	420	- ,,,,,,,	-	2,045
Beans, Pinto	49,951	_	5,811	180,547
Buckwheat	35	_	175	-
Canola	7,015	258	-	20,737
Corn	227,495	186,675	49,977	404,820
Flax	1,782	2,161	1,226	3,051
Hay, Alfalfa	814	2,101	1,606	571
	517	-	364	2,027
Hay, Grass	520	1 466	523	2,021
Hay, Mixed		1,466		454
Hay, Mixed Alfalfa/Grass	385	- 570	1,551	154
Oats	542	576	1,467	636
Rye	539	354	2,361	-
Soybeans	243,073	114,345	63,342	507,051
Straw	62		311	
Sunflowers	15,914	7,517	9,483	52,581
Sunflowers, Confectionary	4,985	6,728	3,794	14,087
Wheat, Durum	1,395	-	3,514	593
Wheat, Spring	93,400	17,723	44,929	296,469
Wheat, Winter	3,728	2,522	3,917	237
Rented Out	3,070	669	1,556	9,777
Soybeans, Food	3,143	-	8,906	2,601
Beef Bulls	544	-	· -	186
Beef Cow-Calf, Beef Calves	21,297	9,632	24,486	13,563
Beef Replacement Heifers	8,797	10,047	5,912	17,388
Beef Backgrounding	33,633	40,330	40,019	25,715
Beef Finishing	24,391	8,184	1,708	66,294
Beef Finish Yearlings	243	-	969	-
Beef Grazing	1,788	691	1,290	6,787
Dairy, Milk	27,715	123,459	4,873	10,825
Dairy, Dairy Calves	490	2,387	4,073	77
Hogs, Farrow To Finish, Raised Ho	1,938	9,755	-	11
		9,755	1 275	259
Sheep, Feeder Lamb Prod, Fdr Lamb	343	-	1,275	209
Sheep, Feeder Lamb Prod, Wool	24	-	123	-
Sheep, Lamb Finishing	122	-	613	0.407
Sheep, Market Lamb Prod, Mkt Lamb	439	-	-	2,137
Sheep, Market Lamb Prod, Wool	37	-	-	180
Beef Finish Cull Cows	570	-	-	1,620
Dairy Feeder	113		-	549
Dairy Backgrounding	146	735	.	
Cull breeding livestock	11,046	16,429	11,209	7,726
Misc. livestock income	2,019	375	3,083	3
Direct, CCP & ACRE pymts	16,834	11,352	5,760	38,811
CRP payments	1,635	877	1,451	1,933
Other government payments	19,158	12,264	13,093	29,239
Custom work income	29,841	122,199	3,905	10,230
Patronage dividends, cash	4,307	4,151	2,280	7,850
Crop insurance income	45,089	31,224	36,742	103,953
Property insurance income	2,477	1,807	314	2,356
Sale of resale items	554	28	-	_,555
Other farm income	12,146	6,679	7,247	20,837
Gross Cash Farm Income	955,323	761,505	380,075	1,970,535
C.000 Odon i dim modific	000,020	701,000	000,010	1,070,000

Farm Income Statement (Continued) North Dakota Farm Business Management Education Program Region 3 - South Central North Dakota, 2013 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low20%	40 - 60%	<u> </u>
Number of farms	146	29	29	30
Cash Farm Expense				
Seed	90,235	61,625	31,846	174,976
Fertilizer	95,614	71,711	36,545	204,640
Crop chemicals	52,283	41,406	17,609	118,890
Crop insurance	33,440	24,404	13,936	62,186
Drying expense	5,150	1,523	1,349	11,803
Storage	638	10	-	2,019
Irrigation energy	293	426	200	76
Crop machinery leases	41	-	-	198
Crop marketing	659	707	341	712
Crop miscellaneous	1,105	364	1,177	1,256
Consultants	773	-	188	1,331
Feeder livestock purchase	27,385	8,470	13,454	67,015
Purchased feed	36,225	101,007	14,614	27,482
Breeding fees	437	942	108	810
Veterinary	4,583	11,871	2,586	2,818
Supplies	3,206	8,369	1,121	1,697
Livestock custom hire	204	358	-	282
Grazing fees	37	185	-	-
Hauling and trucking	851	4,286	.	
Livestock marketing	1,040	1,658	1,344	1,029
Interest	27,393	35,118	21,128	36,074
Fuel & oil	48,494	66,802	16,150	87,561
Repairs	56,605	72,389	20,724	106,467
Custom hire	17,411	22,477	12,888	27,988
Hired labor	32,525	65,403	9,339	56,628
Land rent	85,133	55,612	29,119	185,399
Machinery leases	6,086	10,037	3,048	10,140
Building leases	495 5 499	113	98	1,431
Real estate taxes	5,188 15,313	4,102 13,146	2,618 3,873	7,350 37,939
Farm insurance	9,089	12,096	4,066	14,950
Utilities	3,013	3,022	4,000 527	7,286
Dues & professional fees	315	5,022	521	7,200
Purchase of resale items Miscellaneous	13.668	9,119	9,429	26,474
Total cash expense	674,927	708,758	269,424	1,284,906
Net cash farm income	280,396	52,746	110,651	685,629
Net cash lann income	200,550	52,140	110,001	000,020
Inventory Changes	= 404	0.450		0.400
Prepaids and supplies	-7,104	-6,156	-263	2,188
Accounts receivable	5,039	12,342	8,555	10,206
Hedging accounts	3,087	534	1,650	9,706
Other current assets	1,407	3,990	711	1,795
Crops and feed	-85,459	-103,422	-22,897	-89,819
Market livestock	12,161	4,440	7,255	28,528
Breeding livestock	-1,589 3.776	-8,595 6,845	7,783	-432 5.544
Other assets	3,776	6,815	1,273	5,541
Accounts payable	-638	-211 1.710	-8,990 5,045	6,234
Accrued interest	-219	-1,748	5,815	-483
Total inventory change	-69,538	-92,011	892	-26,535
Net operating profit	210,858	-39,265	111,543	659,094
Depreciation				
Machinery and equipment	-57,901	-25,359	-20,860	-140,056
Titled vehicles	-4,084	-4,884	-2,602	-4,870
Buildings and improvements	-6,306	-5,649	-2,140	-15,329
Total depreciation	-68,291	-35,892	-25,602	-160,255
Net farm income from operations	142,567	-75,157	85,941	498,839
Gain or loss on capital sales	538	-73,137 534	7	1,021
Cam of 1000 off capital bales	330	JJ T	,	1,021
Netfarmincome	143,105	-74,624	85,948	499,860

Inventory Changes North Dakota Farm Business Management Education Program Region 3 - South Central North Dakota, 2013 (Farms Sorted By Net Farm Income)

	Avg. Of <u>All Farms</u>	Low20%	40 - 60%	High 20%
Number of farms	146	29	29	30
Net cash farm income	280,396	52,746	110,651	685,629
Crops and Feed Ending inventory Beginning inventory Inventory change	533,233	226,805	173,214	1,537,306
	618,691	330,227	196,111	1,627,125
	-85,459	-103,422	-22,897	-89,819
Market Livestock Ending inventory Beginning inventory Inventory change	75,141	81,852	65,428	86,632
	62,980	77,411	58,172	58,104
	12,161	4,440	7,255	28,528
Accts Receivable Ending inventory Beginning inventory Inventory change	43,824	46,915	19,296	27,172
	38,785	34,573	10,741	16,965
	5,039	12,342	8,555	10,206
Prepaid Expenses and Supplies Ending inventory Beginning inventory Inventory change	99,755 106,858 -7,104	30,123 36,278 -6,156	20,593 20,856 -263	287,265 285,077 2,188
Hedging Activities Ending inventory Withdrawals Beginning inventory Deposits Gain or loss	6,324	1,312	1,865	20,376
	2,934	1,241	1,943	5,648
	3,304	1,381	1,075	11,601
	2,867	638	1,083	4,717
	3,087	534	1,650	9,706
Other Current Assets Ending inventory Beginning inventory Inventory change	4,209	4,602	3,397	4,764
	2,802	613	2,686	2,969
	1,407	3,990	711	1,795
Breeding Livestock Ending inventory Capital sales Beginning inventory Capital purchases Depreciation, capital adjust	96,185	137,225	113,545	76,516
	4,921	14,770	1,356	262
	91,038	148,274	94,487	70,743
	11,658	12,316	12,631	6,467
	-1,589	-8,595	7,783	-432
Other Capital Assets Ending inventory Capital sales Beginning inventory Capital purchases Depreciation, capital adjust	55,423	55,384	17,696	148,858
	3,616	-	3,227	13,343
	51,771	45,294	12,008	150,421
	3,491	3,275	7,642	6,239
	3,776	6,815	1,273	5,541
Accounts Payable Beginning inventory Ending inventory Inventory change	18,135	44,081	6,488	20,132
	18,773	44,292	15,478	13,898
	-638	-211	-8,990	6,234
Accrued Interest Beginning inventory Ending inventory Inventory change	13,070	13,987	13,045	16,934
	13,289	15,735	7,231	17,417
	-219	-1,748	5,815	-483
Total inventory change	-69,538	-92,011	892	-26,535
Net operating profit	210,858	-39,265	111,543	659,094

Depreciation North Dakota Farm Business Management Education Program Region 3 - South Central North Dakota, 2013 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	146	29	29	30
Net operating profit	210,858	-39,265	111,543	659,094
Machinery and Equipment				
Ending inventory	681,321	383,083	206,638	1,516,460
Capital sales	9,652	7,056	5,878	17,207
Beginning inventory	601,430	341,909	197,576	1,308,058
Capital purchases	147,444	73,589	35,799	365,664
Depreciation, capital adjust.	-57,901	-25,359	-20,860	-140,056
Titled Vehicles				
Ending inventory	39,515	51,976	21,604	48,700
Capital sales	474	1,654	483	95
Beginning inventory	34,972	39,948	20,020	44,785
Capital purchases	9,102	18,565	4,669	8,879
Depreciation, capital adjust.	-4,084	-4,884	-2,602	-4,870
Buildings and Improvements				
Ending inventory	208,477	163,856	53,285	440,617
Capital sales	962	-	-	1,917
Beginning inventory	155,398	139,129	49,850	340,513
Capital purchases	60,347	30,376	5,575	117,350
Depreciation, capital adjust.	-6,306	-5,649	-2,140	-15,329
Total depreciation, capital adj.	-68,291	-35,892	-25,602	-160,255
Net farm income from operations	142,567	-75,157	85,941	498,839
Gain or loss on capital sales	538	534	7	1,021
Net farm income	143,105	-74,624	85,948	499,860

Profitability Measures North Dakota Farm Business Management Education Program Region 3 - South Central North Dakota, 2013 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	146	29	29	30
Profitability (assets valued at cost)				
Net farm income from operations	142,567	-75,157	85,941	498,839
Rate of return on assets	4.7 %	-4.8 %	6.8 %	8.4 %
Rate of return on equity	5.3 %	-14.4 %	9.0 %	10.0 %
Operating profit margin	13.6 %	-14.0 %	18.7 %	23.0 %
Asset turnover rate	34.8 %	34.3 %	36.4 %	36.5 %
Farm interest expense	27,612	36,866	15,314	36,557
Value of operator lbr and mgmt.	57,845	40,566	34,929	113,006
Return on farm assets	112,333	-78,857	66,326	422,390
Average farm assets	2,377,823	1,645,178	976,760	5,047,836
Return on farm equity	84,721	-115,723	51,012	385,833
Average farm equity	1,610,713	801,636	564,493	3,859,062
Value of farm production	828,511	564,143	355,368	1,840,159

Liquidity & Repayment Capacity Measures North Dakota Farm Business Management Education Program Region 3 - South Central North Dakota, 2013 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	146	29	29	30
Liquidity				
Current ratio	1.94	1.13	2.20	2.55
Working capital	289,952	41,130	176,228	823,780
Working capital to gross inc	39.1 %	8.2 %	46.0 %	50.5 %
Current assets	599,341	366,047	322,556	1,356,424
Current liabilities	309,389	324,918	146,329	532,644
Gross revenues (accrual)	742,284	501,804	383,442	1,630,280
Repayment capacity				
Net farm income from operations	142,567	-75,157	85,941	498,839
Depreciation	68,291	35,892	25,602	160,255
Personal income	33,198	34,726	22,188	37,687
Family living/owner withdrawals	-69,866	-54,804	-48,794	-113,506
Payments on personal debt	-4,404	-3,130	-4,001	-4,694
Income taxes paid	-22,319	-12,932	-9,188	-41,870
Interest on term debt	20,921	25,103	17,385	25,983
Capital debt repayment capacity	168,388	-50,302	89,133	562,693
Scheduled term debt payments	-94,935	-109,226	-45,924	-162,897
Capital debt repayment margin	73,454	-159,528	43,209	399,796
Cash replacement allowance	-33,571	-9,931	-12,379	-77,567
Replacement margin	39,882	-169,459	30,830	322,230
Term debt coverage ratio	1.77	-0.46	1.94	3.45
Replacement coverage ratio	1.31	-0.42	1.53	2.34

Balance Sheet at Cost Values North Dakota Farm Business Management Education Program

Region 3 - South Central North Dakota, 2013 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	<u>40 - 60%</u>	High 20%
Number of farms	134	28	28	25
Assets				
Current Farm Assets				
Cash and checking balance	26,355	28,258	34,056	31,592
Prepaid expenses & supplies	75,761	30,306	21,209	216,639
Growing crops	2,666	4,767	3,518	2,112
Accounts receivable	28,346	24,027	19,985	22,851
Hedging accounts	3,094	1,359	1,931	8,742
Crops held for sale or feed	387,098	192,662	177,878	988,205
Crops under government loan	- 74.700	94.660	- 63.070	96 244
Market livestock held for sale	74,798	84,669	63,979	86,244
Other current assets	1,223	366.047	222 556	40
Total current farm assets	599,341	366,047	322,556	1,356,424
Intermediate Farm Assets	22.225	00.407	440.400	50.070
Breeding livestock	80,885	80,497	113,186	52,070
Machinery and equipment	561,756	310,072	206,161	1,296,068
Titled vehicles	30,633	37,130	22,376	34,309
Other intermediate assets	8,553	16,914	10,438	2,687
Total intermediate farm assets	681,827	444,613	352,160	1,385,134
Long Term Farm Assets				
Farm land	516,654	368,092	280,312	1,039,855
Buildings and improvements	173,944	108,533	55,188	390,308
Other long-term assets	15,875	15,112	7,890	20,549
Total long-term farm assets	706,473	491,736	343,390	1,450,712
Total Farm Assets	1,987,640	1,302,397	1,018,106	4,192,270
Total Nonfarm Assets	265,808	108,719	193,595	391,968
Total Assets	2,253,448	1,411,116	1,211,701	4,584,238
Liabilities				
Current Farm Liabilities				
Accrued interest	11,885	13,013	7,485	17,547
Accounts payable	17,327	34,237	15,974	15,218
Current notes	211,304	223,115	93,188	360,439
Government crop loans	-	-	-	-
Principal due on term debt	68,873	54,552	29,682	139,441
Total current farm liabilities	309,389	324,918	146,329	532,644
Total intermediate farm liabs	165,732	130,160	97,465	320,898
Total long term farm liabilities	269,470	261,790	190,914	457,306
Total farm liabilities	744,591	716,868	434,707	1,310,848
Total nonfarm liabilities	44,478	28,758	32,750	69,147
Total liabilities	789,069	745,626	467,457	1,379,996
Net worth (farm and nonfarm)	1,464,379	665,490	744,244	3,204,242
Net worth change	76,053	-65,069	53,521	317,437
Percent net worth change	70,033 5 %	-05,009	8 %	11 %
•				
Ratio Analysis Current farm liabilities / assets	52 %	89 %	45 %	39 %
Intermediate farm liab. / assets	24 %	29 %	28 %	23 %
Long term farm liab. / assets	38 %	53 %	56 %	32 %

Statement Of Cash Flows

North Dakota Farm Business Management Education Program Region 3 - South Central North Dakota, 2013 (Farms Sorted By Net Farm Income)

	Avg. Of		40 000/	
	All Farms	Low 20%	40 - 60%	High 20%
Number of farms	146	29	29	30
Beginning cash (farm & nonfarm)	44,492	35,286	46,952	65,667
Cash Provided By Operating Activities	i			
Gross cash farm income	955,323	761,505	380,075	1,970,535
Total cash farm expense	-674,927	-708,758	-269,424	-1,284,906
Net cash from hedging transactions	66	603	861	932
Cash provided by operating	280,462	53,350	111,512	686,561
Cash Provided By Investing Activities				
Sale of breeding livestock	5,030	15,251	1,363	262
Sale of machinery & equipment	10,059	7,125	5,878	18,237
Sale of titled vehicles	499	1,638	483	95
Sale of farm land	-	-	-	-
Sale of farm buildings	961	-	-	1,909
Sale of other farm assets	3,616	-	3,227	13,343
Sale of nonfarm assets	6,148	1,459	1,920	6,261
Purchase of breeding livestock	-11,658	-12,316	-12,631	-6,467
Purchase of machinery & equip.	-147,444	-73,589	-35,799	-365,664
Purchase of titled vehicles	-9,102	-18,565	-4,669	-8,879
Purchase of farm land	-49,123	-48,753	-13,793	-120,487
Purchase of farm buildings	-60,347	-30,376	-5,575	-117,350
Purchase of other farm assets	-3,491	-3,275	-7,642	-6,239
Purchase of nonfarm assets	-36,386	-5,236	-19,957	-63,607
Cash provided by investing	-291,239	-166,639	-87,196	-648,587
Cash Provided By Financing Activities	3			
Money borrowed	644,678	569,015	362,497	1,166,859
Principal payments	-571,195	-421,281	-344,751	-1,077,490
Personal income	33,198	34,726	22,188	37,687
Family living/owner withdrawals	-69,866	-54,804	-48,794	-113,506
Income and social security tax	-22,319	-12,932	-9,188	-41,870
Capital contributions	-	-	-	-
Capital distributions	-9,684	-	-	-47,131
Dividends paid	-	-	-	-
Cash gifts and inheritances	2,270	1,059	1,382	2,827
Gifts given	-3,599	-2,814	-2,347	-9,566
Other cash flows	· -	-	· -	-
Cash provided by financing	3,483	112,969	-19,013	-82,190
Net change in cash balance	-7,294	-320	5,302	-44,216
Ending cash (farm & nonfarm)	37,198	34,965	52,255	21,450

Financial Standards Measures North Dakota Farm Business Management Education Program Region 3 - South Central North Dakota, 2013 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	146	29	29	30
Liquidity				
Current ratio	1.94	1.13	2.20	2.55
Working capital	289,952	41,130	176,228	823,780
Working capital to gross inc	39.1 %	8.2 %	46.0 %	50.5 %
Solvency (cost)				
Farm debt to asset ratio	37 %	55 %	43 %	31 %
Farm equity to asset ratio	63 %	45 %	57 %	69 %
Farm debt to equity ratio	0.60	1.22	0.75	0.45
Profitability (cost)				
Rate of return on farm assets	4.7 %	-4.8 %	6.8 %	8.4 %
Rate of return on farm equity	5.3 %	-14.4 %	9.0 %	10.0 %
Operating profit margin	13.6 %	-14.0 %	18.7 %	23.0 %
Net farm income	143,105	-74,624	85,948	499,860
EBITDA	238,470	-2,399	126,856	695,651
Repayment Capacity				
Capital debt repayment capacity	168,388	-50,302	89,133	562,693
Capital debt repayment margin	73,454	-159,528	43,209	399,796
Replacement margin	39,882	-169,459	30,830	322,230
Term debt coverage ratio	1.77	-0.46	1.94	3.45
Replacement coverage ratio	1.31	-0.42	1.53	2.34
Efficiency				
Asset turnover rate (cost)	34.8 %	34.3 %	36.4 %	36.5 %
Operating expense ratio	73.3 %	100.4 %	66.9 %	64.0 %
Depreciation expense ratio	7.7 %	5.3 %	6.7 %	8.3 %
Interest expense ratio	3.1 %	5.5 %	4.0 %	1.9 %
Net farm income ratio	16.0 %	-11.1 %	22.4 %	25.8 %

Crop Production and Marketing Summary North Dakota Farm Business Management Education Program Region 3 - South Central North Dakota, 2013 (Farms Sorted By Net Farm Income)

	Avg. Of	L	40000/	W. I. 000
	All Farms	Low 20%	40 - 60%	High 20%
Number of farms	146	29	29	30
Acreage Summary				
Total acres owned	967	790	699	1,436
Total crop acres	1,952	1,362	994	4,052
Crop acres owned	565	388	391	997
Crop acres cash rented	1,299	950	542	2,905
Crop acres share rented	87	24	61	151
Total pasture acres	571	555	699	463
Percent crop acres owned	29 %	28 %	39 %	25 %
Mach invest/crop acre cost	347	293	224	360
Average Price Received (Cash Sales	Only)			
Soybeans per bushel	13.02	13.03	13.08	13.06
Corn per bushel	5.86	5.16	5.92	5.84
Wheat, Spring per bushel	7.51	6.64	7.10	7.72
Barley per bushel	6.20	-	-	6.12
Sunflowers per cwt	24.40	20.73	_	
Beans, Pinto per cwt	35.49	-	_	35.99
Wheat, Winter per bushel	7.10	_	_	-
Canola per cwt	23.10	_	_	21.87
Sunflowers, Confectionary per cwt	34.38	_	_	21.07
Hay, Grass per ton	62.09	_	_	_
Flax per bushel	14.20	-	-	-
Average Yield Per Acre Soybeans (bushel)	32.01	22.93	29.47	36.24
Corn (bushel)	110.66	91.05	82.44	122.12
Wheat, Spring (bushel)	56.41	-	45.23	61.23
Pasture (aum)	0.963	1.05	0.900	1.03
Hay, Mixed Alfalfa/Grass (ton)	1.56	1.00	1.64	1.57
Hay, Grass (ton)	1.60			1.60
Barley (bushel)	74.08	-	1.86	74.12
Hay, Alfalfa (ton)		2.07	74.63	
Corn Silage (ton)	2.14	2.07	2.01	2.29
Beans, Pinto (cwt)	13.47	15.18	11.62	11.08
Sunflowers (cwt)	19.77	-	-	20.30
, ,	11.81	-	10.96	11.63
Wheat, Winter (bushel)	45.67	-	-	-
Canola (cwt)	17.11	-	-	-
Hay, Small Grain (ton)	2.78	-	2.03	-
Oats (bushel)	69.28	-	66.93	-

Household and Personal Expenses North Dakota Farm Business Management Education Program Region 3 - South Central North Dakota, 2013 (Farms Sorted By Net Farm Income)

	Avg. Of	1 au 2007	40 0007	111.1.000
	All Farms	Low 20%	40 - 60%	High 20%
Number of farms	66	13	12	12
Average family size	2.9	3.1	2.3	3.2
Family Living Expenses				
Food and meals expense	7,314	7,522	5,913	8,126
Medical care	4,713	4,885	4,234	4,373
Health insurance	7,337	5,257	5,967	9,430
Cash donations	1,926	2,304	1,126	1,724
Household supplies	7,332	7,194	3,972	7,731
Clothing	2,207	1,225	1,910	4,129
Personal care	8,048	5,181	3,713	11,246
Child / Dependent care	429	313	34	895
Alimony and child support	-	-	-	_
Gifts	1,538	633	1,515	1,535
Education	1,584	924	461	2,074
Recreation	4,062	3,270	2,758	6,792
Utilities (household share)	3,350	2,710	3,345	3,709
Personal vehicle operating exp	3,310	3,480	2,953	3,225
Household real estate taxes	215	-	170	214
Dwelling rent	267	879	517	_
Household repairs	4,110	5,946	2,282	3,183
Personal interest	872	, 118	316	886
Disability / Long term care ins	561	1,505	_	32
Life insurance payments	2,071	1,394	849	4,312
Personal property insurance	229	[′] 91	169	291
Miscellaneous	684	-	136	2,126
Total cash family living expense	62,159	54,830	42,339	76,033
Family living from the farm	143	73	667	-
Total family living	62,302	54,903	43,005	76,033
Other Nonfarm Expenditures				
Income taxes	23,037	7,497	10,909	49,082
Furnishing & appliance purchases	466	46	-	-
Nonfarm vehicle purchases	4,033	2,462	-208	11,735
Nonfarm real estate purchases	11,406	-	20,092	781
Other nonfarm capital purchases	12,662	356	1,583	7,565
Nonfarm savings & investments	8,111	3,469	17,135	10,378
Total other nonfarm expenditures	59,714	13,830	49,511	79,540
Total cash family living				
investment & nonfarm capital purch	121,873	68,659	91,850	155,573

Operator and Labor Information North Dakota Farm Business Management Education Program Region 3 - South Central North Dakota, 2013 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	146	29	29	30
Operator Information				
Average number of operators	1.1	1.0	1.0	1.2
Average age of operators	46.2	46.9	41.8	48.7
Average number of years farming	22.7	22.2	18.4	25.7
Results Per Operator				
Working capital	419,716	10,959	170,163	1,232,109
Total assets (cost)	2,519,713	1,711,357	1,149,380	4,791,293
Total liabilities	793,305	915,629	438,842	1,110,700
Net worth (cost)	1,726,408	795,728	710,538	3,680,593
Gross farm income	835,229	651,165	370,654	1,658,277
Total farm expense	701,802	723,817	287,578	1,230,701
Net farm income from operations	133,428	-72,652	83,076	427,576
Net nonfarm income	31,070	33,568	21,449	32,303
Family living & tax withdrawals	86,276	65,478	56,050	133,179
Total acres owned	904.9	763.7	675.3	1,231.1
Total crop acres	1,826.5	1,316.6	960.8	3,473.4
Crop acres owned	528.6	374.8	378.2	854.5
Crop acres cash rented	1,216.0	918.4	523.7	2,489.6
Crop acres share rented	81.9	23.3	58.9	129.2
Total pasture acres	533.9	536.8	675.6	396.7
Labor Analysis				
Number of farms	146	29	29	30
Total unpaid labor hours	1,979	1,766	1,809	2,740
Total hired labor hours	1,660	4,264	550	2,056
Total labor hours per farm	3,639	6,029	2,359	4,796
Unpaid hours per operator	1,852	1,707	1,748	2,349

Nonfarm Summary North Dakota Farm Business Management Education Program Region 3 - South Central North Dakota, 2013 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	146	29	29	30
Nonfarm Income				
Personal wages & salary	18,687	25,153	16,351	9,318
Net nonfarm business income	7,489	7,169	2,193	20,265
Personal rental income	2,406	340	-	1,420
Personal interest income	447	2	240	1,608
Personal cash dividends	98	-	164	180
Taxrefunds	1,047	1,608	1,038	141
Other nonfarm income	3,024	454	2,202	4,756
Total nonfarm income	33,198	34,726	22,188	37,687
Gifts and inheritances	2,270	1,059	1,382	2,827

Financial Summary North Dakota Farm Business Management Education Program Region 3 - South 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	146	11	24	26	37	30	18
Income Statement							
Gross cash farm income	955,323	51,285	188,252	370,575	665,219	1,359,712	3,297,530
Total cash farm expense	674,927	40,855	139,331	316,016	454,184	924,356	2,333,003
Net cash farm income	280,396	10,430	48,921	54,559	211,034	435,356	964,527
Inventory change	-69,538	8,629	245	8,471	-50,551	-129,260	-262,523
Depreciation	-68,291	-2,724	-12,613	-20,645	-43,540	-103,714	-243,259
Net farm income from operations	142,567	16,335	36,554	42,385	116,943	202,382	458,744
Gain or loss on capital sales	538	241	-	628	419	321	1,914
Average net farm income	143,105	16,576	36,554	43,012	117,362	202,703	460,659
Median net farm income	85,146	9,283	32,548	60,250	110,841	174,141	351,417
Profitability (cost)							
Rate of return on assets	4.7 %	4.9 %	3.7 %	3.2 %	4.5 %	5.1 %	4.9 %
Rate of return on equity	5.3 %	4.6 %	3.8 %	2.4 %	4.8 %	6.1 %	5.4 %
Operating profit margin	13.6 %	23.8 %	13.3 %	7.3 %	15.3 %	13.4 %	14.0 %
Asset turnover rate	34.8 %	20.7 %	27.5 %	43.3 %	29.4 %	38.1 %	35.3 %
Liquidity & Repayment (end of							
Current assets	599,341	61,107	153,064	303,979	545,473	1,057,623	1,811,952
Current liabilities	309,389	21,945	70,297	218,778	242,062	514,122	1,020,897
Current ratio	1.94	2.78	2.18	1.39	2.25	2.06	1.77
Working capital	289,952	39,162	82,767	85,201	303,411	543,501	791,056
Working capital to gross inc	39.1 %	65.9 %	43.4 %	21.9 %	49.1 %	44.6 %	30.4 %
Term debt coverage ratio	1.77	1.61	1.70	1.01	1.93	1.46	2.13
Replacement coverage ratio	1.31	1.52	1.41	0.80	1.34	1.11	1.52
Solvency (end of year at cost)							
Number of sole proprietors	134	11	24	25	37	25	12
Total farm assets	1,987,640	290,087	654,674	880,519	2,014,838	3,121,565	6,069,963
Total farm liabilities	744,591	123,125	254,957	457,551	613,499	1,235,080	2,273,887
Total assets	2,253,448	345,104	783,920	997,858	2,390,119	3,481,638	6,577,501
Total liabilities	789,069	149,071	293,103	482,039	651,445	1,288,102	2,392,004
Net worth	1,464,379	196,032	490,817	515,820	1,738,675	2,193,536	4,185,497
Net worth change	76,053	17,947	37,624	11,140	80,394	76,082	327,971
Farm debt to asset ratio	37 %	42 %	39 %	52 %	30 %	40 %	37 %
Total debt to asset ratio	35 %	43 %	37 %	48 %	27 %	37 %	36 %
Nonfarm Information				_			
Net nonfarm income	33,198	37,953	43,967	21,458	42,543	15,397	43,352
Farms reporting living expenses	66	3	7	15	24	12	5
Total family living expense	62,302	-	42,238	50,053	57,573	92,469	99,030
Crop Acres							
Total acres owned	967	143	376	482	1,513	965	1,839
Total crop acres	1,952	186	550	1,021	1,532	2,750	5,775
Total crop acres owned	565	78	170	271	704	693	1,314
Total crop acres cash rented	1,299	95	315	646	768	1,992	4,229
Total crop acres share rented	87	12	65	105	60	65	231

Financial Summary North Dakota Farm Business Management Education Program Region 3 - South Central North Dakota, 2013 (Farms Sorted By Age Of Operator)

27 27 96 17 38 -2 91 -2 67 63 38 05 46 5 % % 4 % 41 25 89 13 94 52 12 % 3	31 86,244 72,352 13,892 24,259 29,399 60,234 15 60,249 59,495 5.2 % 7.1 % 10.9 % 47.9 % 57,453 36,074 1.89 21,379 34.0 % 1.68	963,766 809,818 153,948 71,037 -52,785 172,201 642 172,843 94,980 7.8 % 11.0 % 15.1 % 51.8 %	24 1,303,612 823,484 480,128 -154,000 -94,152 231,976 612 232,588 137,804 7.2 % 9.0 % 18.0 % 39.9 % 819,162 427,596 1,92 391,566 33.2 %	1,338,351 964,721 373,631 -129,110 -100,648 143,872 905 144,776 123,377 3.0 % 2.7 % 10.3 % 29.0 % 768,818 432,749 1.78 336,069 41.6 %	779,247 511,528 267,719 -76,167 -58,503 133,049 482 133,531 105,047 4.1 % 4.3 % 14.5 % 28.6 % 534,354 189,510 2.82 344,844 64.0 %
27 27 96 17 38 -2 91 -2 67 63 38 05 46 5 % % 4 % 41 25 89 13 94 52 12 % 3	72,352 13,892 24,259 29,399 60,234 15 60,249 59,495 5.2 % 7.1 % 10.9 % 47.9 % 57,453 36,074 1.89 21,379 34.0 % 1.68	809,818 153,948 71,037 -52,785 172,201 642 172,843 94,980 7.8 % 11.0 % 15.1 % 51.8 % 682,446 409,870 1.67 272,577 27.0 %	823,484 480,128 -154,000 -94,152 231,976 612 232,588 137,804 7.2 % 9.0 % 18.0 % 39.9 % 819,162 427,596 1.92 391,566 33.2 %	964,721 373,631 -129,110 -100,648 143,872 905 144,776 123,377 3.0 % 2.7 % 10.3 % 29.0 % 768,818 432,749 1.78 336,069 41.6 %	511,528 267,719 -76,167 -58,503 133,049 482 133,531 105,047 4.1 % 4.3 % 14.5 % 28.6 % 534,354 189,510 2.82 344,844 64.0 %
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27 27 96 17 38 -2 91 -2 67 63 38 05 46 5 % % 4 % 41 25 89 13 94 52 12 % 3	72,352 13,892 24,259 29,399 60,234 15 60,249 59,495 5.2 % 7.1 % 10.9 % 47.9 % 57,453 36,074 1.89 21,379 34.0 % 1.68	153,948 71,037 -52,785 172,201 642 172,843 94,980 7.8 % 11.0 % 15.1 % 51.8 % 682,446 409,870 1.67 272,577 27.0 %	823,484 480,128 -154,000 -94,152 231,976 612 232,588 137,804 7.2 % 9.0 % 18.0 % 39.9 % 819,162 427,596 1.92 391,566 33.2 %	964,721 373,631 -129,110 -100,648 143,872 905 144,776 123,377 3.0 % 2.7 % 10.3 % 29.0 % 768,818 432,749 1.78 336,069 41.6 %	511,528 267,719 -76,167 -58,503 133,049 482 133,531 105,047 4.1 % 4.3 % 14.5 % 28.6 % 534,354 189,510 2.82 344,844 64.0 %
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91 -2 67 6 38 05 6 46 5 % % 4 % 4 89 13 94 52 12 % 3	29,399 60,234 15 60,249 59,495 5.2 % 7.1 % 10.9 % 47.9 % 57,453 36,074 1.89 21,379 34.0 % 1.68	-52,785 172,201 642 172,843 94,980 7.8 % 11.0 % 15.1 % 51.8 % 682,446 409,870 1.67 272,577 27.0 %	-94,152 231,976 612 232,588 137,804 7.2 % 9.0 % 18.0 % 39.9 % 819,162 427,596 1.92 391,566 33.2 %	-100,648 143,872 905 144,776 123,377 3.0 % 2.7 % 10.3 % 29.0 % 768,818 432,749 1.78 336,069 41.6 %	-58,503 133,049 482 133,531 105,047 4.1 % 4.3 % 14.5 % 28.6 % 534,354 189,510 2.82 344,844 64.0 %
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38 05 46 % % % % 1 % 41 25 89 13 94 52 12 % 3	15 60,249 59,495 5.2 % 7.1 % 10.9 % 47.9 % 57,453 36,074 1.89 21,379 34.0 % 1.68	642 172,843 94,980 7.8 % 11.0 % 15.1 % 51.8 % 682,446 409,870 1.67 272,577 27.0 %	612 232,588 137,804 7.2 % 9.0 % 18.0 % 39.9 % 819,162 427,596 1.92 391,566 33.2 %	905 144,776 123,377 3.0 % 2.7 % 10.3 % 29.0 % 768,818 432,749 1.78 336,069 41.6 %	482 133,531 105,047 4.1 % 4.3 % 14.5 % 28.6 % 534,354 189,510 2.82 344,844 64.0 %
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% 4 41 25 89 13 94 52 12 % 3	47.9 % 57,453 36,074 1.89 21,379 34.0 % 1.68	51.8 % 682,446 409,870 1.67 272,577 27.0 %	39.9 % 819,162 427,596 1.92 391,566 33.2 %	29.0 % 768,818 432,749 1.78 336,069 41.6 %	28.6 % 534,354 189,510 2.82 344,844 64.0 %
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89 13 94 52 12 % 3	36,074 1.89 21,379 34.0 % 1.68	409,870 1.67 272,577 27.0 %	427,596 1.92 391,566 33.2 %	432,749 1.78 336,069 41.6 %	189,510 2.82 344,844 64.0 %
94 52 12 % 3 77	1.89 21,379 34.0 % 1.68	1.67 272,577 27.0 %	1.92 391,566 33.2 %	1.78 336,069 41.6 %	2.82 344,844 64.0 %
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	47,431	1,767,536	2,877,960	2,760,973	1,862,964
	80,340	827,004	999,971	1,114,591	453,748
	23,243	1,978,333	3,241,661	3,070,711	2,237,142
	14,777	866,395	1,083,657	1,157,820	482,404
	08,467	1,111,938	2,158,004	1,912,891	1,754,738
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Financial Summary North Dakota Farm Business Management Education Program Region 3 - South Central North Dakota, 2013 (Farms Sorted By Farm Type)

	Avg. Of All Farms	Сгор	Beef	Crop and Beef	Other
Number of farms	146	85	8	36	15
Income Statement					
Gross cash farm income	955,323	1,143,845	344,563	640,958	629,737
Total cash farm expense	674,927	752,836	296,841	498,947	513,084
Net cash farm income	280,396	391,009	47,722	142,011	116,653
Inventory change	-69,538	-98,448	15,493	-26,507	10,926
Depreciation	-68,291	-88,875	-13,728	-40,091	-34,119
Net farm income from operations	142,567	203,685	49,487	75,413	93,460
Gain or loss on capital sales	538	608	-	356	43
Average net farm income	143,105	204,293	49,487	75,769	93,504
Median net farm income	85,146	128,792	34,606	66,024	59,495
Profitability (cost)					
Rate of return on assets	4.7 %	5.6 %	6.9 %	3.3 %	5.0 %
Rate of return on equity	5.3 %	6.5 %	10.2 %	3.1 %	5.3 %
Operating profit margin	13.6 %	15.7 %	23.8 %	10.9 %	12.7 %
Asset turnover rate	34.8 %	35.6 %	29.0 %	30.6 %	39.7 %
Liquidity & Repayment (end of year		707.044	0.40.000	500 400	000 000
Current assets	599,341	737,811	240,298	508,198	298,880
Current liabilities	309,389	352,679	156,903	296,554	198,699
Current ratio	1.94	2.09	1.53	1.71	1.50
Working capital	289,952	385,132	83,396	211,643	100,181
Working capital to gross inc	39.1 %	43.9 %	23.5 %	33.8 %	18.0 %
Term debt coverage ratio Replacement coverage ratio	1.77 1.31	2.24 1.53	1.83 1.83	1.33 1.12	2.02 1.48
Solvency (end of year at cost)					
Number of sole proprietors	134	76	8	36	13
Total farm assets	1,987,640	2,385,191	678,480	1,713,002	1,334,906
Total farm liabilities	744,591	850,242	367,972	676,365	566,199
Total assets	2,253,448	2,712,249	800,515	1,912,510	1,526,015
Total liabilities	789,069	903,252	453,976	705,769	579,503
Net worth	1,464,379	1,808,997	346,539	1,206,741	946,512
Net worth change	76,053	98,039	57,140	47,174	52,477
Farm debt to asset ratio	37 %	36 %	54 %	39 %	42 %
Total debt to asset ratio	35 %	33 %	57 %	37 %	38 %
Nonfarm Information					
Net nonfarm income	33,198	32,519	46,154	31,119	37,444
Farms reporting living expenses	66	44	2	17	2
Total family living expense	62,302	68,998	-	48,613	-
Crop Acres					
Total acres owned	967	959	234	1,097	1,081
Total crop acres	1,952	2,468	354	1,389	1,028
Total crop acres owned	565	666	97	546	280
Total crop acres cash rented	1,299	1,679	239	790	725
Total crop acres share rented	87	122	18	53	23

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 <u>All Farms</u>
Number of fields Number of farms	14 11
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Crop insurance per acre Gross return per acre	272.57 71.82 100.00 6.25 448.98 10.13 459.11
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Drying expense Fuel & oil Repairs Custom hire Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	21.74 76.72 30.50 20.14 0.72 22.26 21.59 5.60 2.30 0.26 201.84 257.27
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	7.83 1.04 6.17 4.37 2.66 1.00 12.83 34.12 8.45 78.46 280.30 178.81
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	15.22 194.03 27.14 166.89
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	2.81 3.90 3.55 3.93
Net value per unit Machinery cost per acre Est. labor hours per acre	6.25 83.47 1.21

Barley on Cash Rent

	Avg. Of All Farms
Number of fields Number of farms	19 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	437.88 75.41 100.00 6.55 494.28 11.95 1.13 507.36
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	20.53 79.22 33.02 15.16 0.33 18.25 17.94 5.92 62.69 1.11 0.53 254.71 252.65
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	9.05 0.35 4.76 3.52 2.35 0.69 32.44 7.11 60.27 314.98 192.38
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	11.26 203.65 22.11 181.54
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	3.38 4.18 3.85 4.15
Net value per unit Machinery cost per acre Est. labor hours per acre	6.55 73.13 0.96

Beans, Pinto on Owned Land

	Avg. Of All Farms
Number of fields Number of farms	10 8
Acres Yield per acre (cwt.) Operators share of yield % Value per cwt. Total product return per acre Crop insurance per acre Gross return per acre	209.28 18.77 100.00 31.34 588.46 0.82 589.28
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	49.62 43.49 67.09 19.51 24.27 32.54 4.65 3.49 0.51 245.17 344.11
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	22.85 2.24 5.77 8.08 3.58 3.69 15.60 44.98 10.94 117.74 362.91 226.37
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	12.50 238.87 29.66 209.21
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	13.06 19.33 18.62 20.20
Net value per unit Machinery cost per acre Est. labor hours per acre	31.34 109.53 1.42

Beans, Pinto on Cash Rent

	Avg. Of All Farms
Number of fields Number of farms	14 10
Acres Yield per acre (cwt.) Operators share of yield % Value per cwt. Total product return per acre Gross return per acre	363.81 20.19 100.00 35.39 714.46 714.46
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	47.17 48.90 60.14 22.20 19.39 28.01 10.05 69.15 4.77 2.10 311.89 402.58
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	18.19 4.45 5.57 4.53 1.63 4.00 45.28 7.30 90.94 402.82 311.64
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	9.60 321.24 32.28 288.95
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	15.45 19.95 19.48 21.08
Net value per unit Machinery cost per acre Est. labor hours per acre	35.39 106.93 1.31

Canola on Cash Rent

	Avg. Of All Farms
Number of fields Number of farms	8 7
Acres Yield per acre (cwt.) Operators share of yield % Value per cwt. Total product return per acre Crop insurance per acre Gross return per acre	192.10 17.45 100.00 21.65 377.87 2.26 380.13
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	49.55 85.19 25.00 12.67 14.23 14.75 8.68 47.29 3.95 0.67 261.97 118.16
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	6.72 0.77 2.68 2.33 0.21 2.91 22.41 4.17 42.19 304.17 75.97
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	12.55 88.52 19.11 69.41
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	15.01 17.43 16.58 17.67
Net value per unit Machinery cost per acre Est. labor hours per acre	21.65 62.83 0.97

Corn on Owned Land

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of fields	52	10	11	10
Number of farms	47	9	10	10
Acres	223.25	209.35	187.85	218.82
Yield per acre (bu.) Operators share of yield %	107.98 100.00	90.79 100.00	100.37 100.00	115.23 100.00
Value per bu.	3.87	3.66	3.85	4.20
Total product return per acre	417.69	332.15	386.89	483.65
Crop insurance per acre Other crop income per acre	28.91 1.42	5.68	34.47 7.99	87.82
Gross return per acre	448.02	337.83	429.35	571.47
Direct Expenses				
Seed	86.89	90.21	82.06	95.48
Fertilizer Crop chemicals	123.12 21.89	114.42 19.43	133.67 22.98	107.66 18.91
Crop insurance	25.10	26.07	31.95	19.18
Drying expense	17.66	9.08	20.88	17.09
Fuel & oil	28.05 28.77	31.94 46.78	21.98 25.18	23.54 24.23
Repairs Custom hire	7.91	11.64	5.48	6.12
Operating interest	5.70	9.23	3.49	3.06
Miscellaneous	0.63	250.04	2.92	245.27
Total direct expenses per acre Return over direct exp per acre	345.71 102.31	358.81 -20.99	350.60 78.75	315.27 256.20
Overhead Expenses				
Hired labor •	11.85	19.43	6.21	13.22
Machinery leases	2.07 0.78	0.34 0.25	3.90 0.03	4.13 0.21
Building leases RE & pers. property taxes	6.95	6.29	7.56	6.88
Farm insurance	4.73	5.86	7.00	3.71
Utilities	3.77 1.80	3.37 2.18	4.05	3.91
Dues & professional fees Interest	1.60 24.77	2.10 31.76	0.83 16.32	1.18 22.67
Mach & bldg depreciation	53.55	52.04	49.55	45.44
Miscellaneous	6.32	10.05	8.22	4.33
Total overhead expenses per acre Total dir & ovhd expenses per acre	116.59 462.31	131.57 490.38	103.67 454.26	105.68 420.95
Net return per acre	-14.28	-152.56	-24.92	150.52
Government payments	10.63	9.55	9.33	12.99
Net return with govt pmts	-3.65	-143.00	-15.58	163.51
Labor & management charge Net return over lbr & mgt	37.69 -41.34	36.72 -179.73	35.79 -51.37	40.47 123.04
Cost of Production				
Total direct expense per bu.	3.20	3.95	3.49	2.74
Total dir & ovhd exp per bu. Less govt & other income	4.28 3.90	5.40 5.23	4.53 4.01	3.65 2.78
With labor & management	4.25	5.64	4.37	3.13
Net value per unit	3.87	3.66	3.85	4.20
Machinery cost per acre	119.42	145.11	103.89	101.22
Est. labor hours per acre	1.86	2.02	1.62	1.63

Corn on Cash Rent

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of fields	85	18	17	20
Number of farms	64	12	13	13
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	442.74 110.60 100.00 3.82 422.99 40.24 1.01	372.24 108.30 100.00 3.66 395.90 8.33	371.24 109.30 100.00 3.81 416.02 35.76 0.48	364.06 117.73 100.00 4.09 481.83 66.82 1.69
Gross return per acre	464.24	404.23	452.26	550.34
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	91.17 120.21 25.38 22.34 13.27 28.54 38.07 7.50 68.01 5.92 1.53 421.94 42.30	103.41 143.40 21.11 25.25 26.35 30.79 42.29 14.20 72.42 9.78 1.70 490.70 -86.47	94.84 111.02 21.81 20.45 14.87 29.41 37.44 3.87 73.04 4.21 0.16 411.14 41.12	85.48 113.42 23.06 21.15 12.56 19.15 28.57 6.46 62.88 3.39 0.56 376.68 173.67
Overhead Expenses	40.40	04.00	40.00	44.00
Hired labor Machinery leases Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	18.10 4.89 0.47 4.77 3.70 1.31 3.81 49.49 5.59 92.14 514.08 -49.84	21.90 1.86 0.21 5.19 3.49 2.09 6.24 59.40 7.19 107.57 598.27 -194.04	16.92 5.13 0.14 3.98 3.54 0.86 3.59 53.53 6.13 93.83 504.96 -52.70	14.60 8.44 0.58 3.63 5.47 0.44 1.90 33.24 5.42 73.71 450.39 99.96
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	10.72 -39.11 34.81 -73.93	7.77 -186.27 37.33 -223.60	12.55 -40.16 36.05 -76.20	14.16 114.11 35.90 78.21
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	3.81 4.65 4.18 4.49	4.53 5.52 5.38 5.72	3.76 4.62 4.17 4.50	3.20 3.83 3.12 3.43
Net value per unit Machinery cost per acre Est. labor hours per acre	3.82 128.81 1.72	3.66 149.90 2.16	3.81 128.90 1.60	4.09 95.03 1.33

Corn Silage on Owned Land

	Avg. Of All Farms
Number of fields Number of farms	12 12
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Crop insurance per acre Gross return per acre	87.09 12.96 100.00 31.42 407.16 109.70 516.86
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	84.14 118.75 20.31 24.16 26.70 23.68 37.49 5.66 340.90 175.96
Overhead Expenses Hired labor Machinery leases Building leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	6.88 2.01 0.53 7.66 4.49 3.56 0.99 40.89 35.12 4.55 106.68 447.58 69.28
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	14.07 83.35 31.22 52.12
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	26.31 34.54 24.99 27.40
Net value per unit Machinery cost per acre Est. labor hours per acre	31.42 124.33 2.34

Corn Silage on Cash Rent

	Avg. Of All Farms
Number of fields Number of farms	14 14
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Crop insurance per acre Gross return per acre	89.74 13.89 100.00 36.55 507.59 47.99 555.58
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	88.71 95.30 29.94 21.69 29.98 47.34 19.77 71.34 8.04 412.11 143.46
Overhead Expenses Hired labor Machinery leases Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	18.37 8.40 0.34 5.09 2.29 1.42 7.75 35.51 1.85 81.02 493.14 62.44
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	10.88 73.32 21.80 51.52
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	29.68 35.51 31.27 32.84
Net value per unit Machinery cost per acre Est. labor hours per acre	36.55 145.35 1.96

CRP on Owned Land

	Avg. Of All Farms
Number of fields Number of farms	18 17
Acres Yield per acre (\$) Operators share of yield % Value per \$ Total product return per acre Gross return per acre	183.24 51.39 100.00 1.00 51.39 51.39
Direct Expenses Fuel & oil Repairs Total direct expenses per acre Return over direct exp per acre	0.53 0.70 1.52 49.87
Overhead Expenses RE & pers. property taxes Farm insurance Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	6.85 1.08 11.83 1.01 0.85 21.62 23.14 28.25

Hay, Alfalfa on Owned Land

	Avg. Of All Farms
Number of fields Number of farms	13 13
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Crop insurance per acre Gross return per acre	65.98 1.77 100.00 74.99 132.87 1.54 134.41
Direct Expenses Seed Fertilizer Crop insurance Fuel & oil Repairs Custom hire Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	3.08 3.06 1.34 15.22 13.72 1.81 1.42 1.13 40.80 93.61
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	1.23 3.30 0.76 5.89 4.84 4.10 0.82 16.12 23.86 4.76 65.68 106.48 27.92
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	9.13 37.05 21.34 15.71
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	23.03 60.10 54.07 66.12
Net value per unit Machinery cost per acre Est. labor hours per acre	74.99 55.76 1.48

Hay, Alfalfa on Cash Rent

	Avg. Of All Farms
Number of fields Number of farms	13 13
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Crop insurance per acre Gross return per acre	69.30 2.38 100.00 82.88 197.17 1.64 198.81
Direct Expenses Seed Fertilizer Crop insurance Fuel & oil Repairs Custom hire Land rent Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	4.24 3.20 2.91 16.71 19.13 3.35 48.92 2.32 2.36 103.14 95.68
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	7.57 3.11 3.91 3.11 1.23 2.02 26.03 1.51 48.50 151.63 47.18
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	12.15 59.33 20.46 38.87
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	43.35 63.73 57.94 66.54
Net value per unit Machinery cost per acre Est. labor hours per acre	82.88 67.30 1.49

Hay, Grass on Owned Land

	Avg. Of All Farms
Number of fields Number of farms	9 9
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Gross return per acre	172.61 1.75 100.00 45.17 79.20 79.20
Direct Expenses Fuel & oil Repairs Custom hire Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	11.02 9.50 3.25 2.28 2.83 28.87 50.33
Overhead Expenses Hired labor Machinery leases Building leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	5.62 0.72 0.64 3.22 1.09 0.90 0.42 13.78 18.17 2.00 46.55 75.42 3.78
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	3.78 12.66 -8.88
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	16.46 43.01 43.01 50.23
Net value per unit Machinery cost per acre Est. labor hours per acre	45.17 41.92 0.95

Hay, Grass on Cash Rent

	Avg. Of All Farms
Number of fields Number of farms	14 10
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Gross return per acre	300.81 1.51 100.00 56.21 84.74 84.74
Direct Expenses Fuel & oil Repairs Custom hire Land rent Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	12.21 12.80 2.71 15.51 2.17 2.20 47.60 37.15
Overhead Expenses 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	9.98 1.30 0.93 0.48 1.46 14.62 2.19 30.96 78.56 6.18
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	6.18 13.52 -7.34
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	31.57 52.11 52.11 61.07
Net value per unit Machinery cost per acre Est. labor hours per acre	56.21 43.14 1.09

Hay, Mixed Alfalfa/Grass on Owned Land

	Avg. Of _All Farms
Number of fields Number of farms	18 13
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Crop insurance per acre Gross return per acre	91.62 1.59 100.00 62.14 98.68 1.19 99.86
Direct Expenses Fertilizer Crop insurance Fuel & oil Repairs Custom hire Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	9.07 1.60 9.55 11.99 2.07 1.75 0.33 36.36 63.50
Overhead Expenses Custom hire Hired labor Machinery leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	0.90 4.02 0.78 4.83 3.20 3.06 0.17 13.07 16.08 3.97 50.08 86.43 13.43
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	4.30 17.73 15.25 2.47
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	22.90 54.43 50.98 60.58
Net value per unit Machinery cost per acre Est. labor hours per acre	62.14 42.18 1.05

Hay, Mixed Alfalfa/Grass on Cash Rent

	Avg. Of _All Farms
Number of fields Number of farms	21 17
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Crop insurance per acre Gross return per acre	174.03 1.55 100.00 60.55 94.02 0.40 94.42
Direct Expenses Fertilizer Crop insurance Fuel & oil Repairs Custom hire Land rent Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	1.68 0.54 9.26 12.12 0.37 16.14 2.30 0.76 43.18 51.24
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	0.16 2.24 0.76 0.11 3.07 2.68 0.22 3.47 14.45 2.86 30.01 73.19 21.23
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	3.75 24.98 14.79 10.19
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	27.81 47.14 44.47 53.99
Net value per unit Machinery cost per acre Est. labor hours per acre	60.55 39.24 0.99

Pasture on Owned Land

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
				<u></u>
Number of fields	37	6	7	9
Number of farms	34	6	7	7
Acres	428.46	482.67	338.64	404.30
Yield per acre (aum)	0.97	1.11	0.92	1.13
Operators share of yield %	100.00	100.00	100.00	100.00
Value per aum	22.10	21.81	20.86	23.43
Total product return per acre	21.50	24.12	19.21	26.52
Crop insurance per acre	0.30	-	1.94	-
Gross return per acre	21.80	24.12	21.15	26.52
Direct Expenses				
Fuel & oil	0.50	0.58	0.58	0.40
Repairs	0.56	0.70	0.81	0.45
Total direct expenses per acre	1.35	1.43	1.94	1.21
Return over direct exp per acre	20.45	22.69	19.21	25.31
Overhead Expenses				
RE & pers. property taxes	2.75	4.12	3.15	2.36
Farm insurance	0.29	0.56	0.83	0.08
Dues & professional fees	0.15	0.68	0.01	0.01
Interest	7.37	25.02	2.66	1.39
Mach & bldg depreciation	0.69	0.34	0.95	0.49
Miscellaneous	0.86	0.83	1.64	0.80
Total overhead expenses per acre	12.11	31.56	9.25	5.13
Total dir & ovhd expenses per acre	13.45	32.99	11.18	6.33
Net return per acre	8.35	-8.86	9.97	20.19

Pasture on Cash Rent

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of fields	51	9	9	10
Number of farms	42	8	9	9
Acres	748.21	625.46	875.28	479.00
Yield per acre (aum)	0.95	0.89	0.84	1.26
Operators share of yield %	100.00	100.00	100.00	100.00
Value per aum	19.41	22.46	19.28	19.66
Total product return per acre	18.42	19.94	16.25	24.80
Crop insurance per acre	0.30	-	1.39	-
Gross return per acre	18.71	19.94	17.64	24.80
Direct Expenses				
Repairs	0.55	0.57	0.52	0.40
Land rent	14.25	21.85	13.54	10.00
Total direct expenses per acre	15.50	22.91	15.13	11.00
Return over direct exp per acre	3.21	-2.97	2.52	13.80
Overhead Expenses				
Farm insurance	0.26	0.71	0.10	0.55
Dues & professional fees	0.21	0.64	0.03	0.75
Mach & bldg depreciation	0.76	0.32	0.99	0.84
Miscellaneous	0.84	1.56	0.53	0.91
Total overhead expenses per acre	2.08	3.23	1.65	3.05
Total dir & ovhd expenses per acre	17.57	26.14	16.78	14.05
Net return per acre	1.14	-6.20	0.86	10.75

Prevented planting on Cash Rent

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of fields	54	15	9	11
Number of farms	41	8	8	9
Acres Yield per acre Operators share of yield % Value Total product return per acre Crop insurance per acre Gross return per acre	259.44 - - - - 182.13 182.13	185.90 - - - 126.38 126.38	215.82 - - - 190.22 190.22	239.48 - - - 241.81 241.81
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Land rent Machinery leases Operating interest Total direct expenses per acre Return over direct exp per acre	2.95 0.68 9.44 18.14 6.44 7.35 1.93 62.38 0.39 1.08 110.79 71.35	9.65 1.74 4.35 10.59 8.36 7.57 73.57 0.64 116.47 9.91	13.26 17.14 6.37 6.07 58.81 2.83 1.23 105.71 84.51	3.56 22.61 5.54 6.70 4.91 54.16 0.70 98.18 143.63
Overhead Expenses Hired labor Machinery leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	3.07	6.07	4.22	2.27
	0.40	0.01	1.15	0.09
	4.87	7.15	3.91	4.65
	3.05	2.43	3.82	3.45
	1.69	3.58	0.63	2.06
	3.23	2.22	2.32	1.71
	11.81	14.63	9.71	8.36
	6.22	9.06	8.17	5.81
	34.34	45.14	33.92	28.40
	145.13	161.62	139.63	126.58
	37.01	-35.23	50.58	115.23
Government payments	12.55	10.74	15.34	12.71
Net return with govt pmts	49.55	-24.49	65.93	127.94
Labor & management charge	8.78	9.33	8.85	6.23
Net return over lbr & mgt	40.78	-33.82	57.07	121.71

Soybeans on Owned Land

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of fields	65	10	13	11
Number of farms	51	10	10	11
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Hedging gains/losses per acre	307.29 32.14 100.00 12.42 399.05 -0.14	246.12 21.66 100.00 12.29 266.22 -1.16	197.27 33.14 100.00 12.40 410.88	433.40 39.33 100.00 12.48 490.61
Crop insurance per acre Other crop income per acre Gross return per acre	8.48	20.67	17.03	0.53
	0.94	2.84	-	-
	408.33	288.56	427.91	491.15
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Hired labor Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	67.63 18.35 22.48 18.65 19.52 22.10 7.05 0.31 4.10 0.75 180.95 227.39	66.17 36.46 31.42 18.61 22.06 44.45 6.98 2.55 7.24 0.18 236.13 52.43	71.82 7.88 22.86 20.01 19.54 23.70 11.53 4.97 1.20 183.50 244.41	60.06 13.60 21.09 17.20 17.49 18.98 2.62 - 2.23 1.17 154.43 336.71
Overhead Expenses Hired labor Machinery leases Building leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	8.49 1.97 0.25 7.62 4.83 3.24 1.14 19.57 34.26 6.96 88.33 269.27 139.06	16.00 6.87 10.43 5.43 3.35 1.36 25.29 19.78 2.50 91.00 327.13 -38.56	10.37 6.02 0.02 5.86 3.05 3.96 0.79 32.85 29.05 7.64 99.60 283.11 144.81	5.62 1.08 0.72 7.50 4.83 2.99 0.97 13.12 40.86 4.32 82.00 236.43 254.72
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	10.65	10.74	18.36	7.93
	149.71	-27.83	163.16	262.65
	25.24	20.42	29.75	23.38
	124.48	-48.25	133.41	239.27
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	5.63	10.90	5.54	3.93
	8.38	15.10	8.54	6.01
	7.76	13.57	7.47	5.80
	8.54	14.52	8.37	6.39
Net value per unit	12.41	12.23	12.40	12.48
Machinery cost per acre	86.07	103.81	88.59	78.88
Est. labor hours per acre	1.27	1.62	1.76	0.82

Soybeans on Cash Rent

	Avg. Of All Farms	Low20%	40 - 60%	High 20%
Number of fields	119	15	25	20
Number of farms	71	14	14	15
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Hedging gains/losses per acre Crop insurance per acre Other crop income per acre Gross return per acre	461.67 31.92 100.00 12.32 393.10 -0.04 11.84 0.35 405.25	505.07 21.20 100.00 12.44 263.65 - 22.73	550.58 32.15 100.00 12.09 388.59 - 9.49 - 398.08	654.33 38.29 100.00 12.45 476.65 12.15
Gross return per acre	403.23	200.30	390.00	400.00
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Land rent Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	69.41 19.57 19.93 17.83 17.65 21.58 5.13 68.54 0.78 3.40 0.86 244.68 160.57	72.85 27.54 26.86 20.50 19.54 27.11 7.07 68.91 7.57 0.35 278.30 8.08	64.57 24.50 16.95 19.43 19.13 19.61 5.07 66.36 3.08 2.36 0.37 241.43	64.99 11.19 19.84 13.06 17.49 19.98 2.35 68.65 0.06 2.06 0.30 219.96 268.83
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	10.45	8.27	11.14	10.91
	1.69	3.06	0.29	1.84
	4.39	3.50	4.45	3.67
	3.22	4.60	2.92	3.34
	1.23	1.38	2.02	0.53
	3.11	4.94	2.57	1.58
	31.71	18.39	31.39	36.36
	5.76	4.84	6.41	4.71
	61.57	48.99	61.18	62.94
	306.25	327.28	302.61	282.90
	99.00	-40.90	95.48	205.89
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	9.79	10.14	10.44	10.81
	108.79	-30.76	105.91	216.70
	23.48	19.96	21.77	25.26
	85.31	-50.72	84.15	191.45
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	7.67	13.13	7.51	5.74
	9.59	15.44	9.41	7.39
	8.91	13.89	8.79	6.79
	9.64	14.83	9.47	7.45
Net value per unit	12.31	12.44	12.09	12.45
Machinery cost per acre	78.98	78.91	80.03	75.66
Est. labor hours per acre	1.06	1.28	0.92	0.82

Soybeans on Share Rent

	Avg. Of All Farms
Number of fields Number of farms	14 13
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Crop insurance per acre Gross return per acre	285.28 30.96 70.18 12.33 267.97 4.16 272.12
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	78.07 13.38 15.64 15.00 15.59 18.82 5.83 0.22 3.54 166.10 106.03
Overhead Expenses Hired labor Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	10.29 0.54 5.08 3.21 1.01 3.37 25.81 9.65 58.95 225.05 47.08
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	7.44 54.52 23.08 31.43
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	7.65 10.36 9.82 10.89
Net value per unit Machinery cost per acre Est. labor hours per acre	12.33 69.01 1.10

Sunflowers on Owned Land

	Avg. Of All Farms
Number of fields Number of farms	6 6
Acres Yield per acre (cwt.) Operators share of yield % Value per cwt. Total product return per acre Gross return per acre	148.99 14.83 100.00 20.06 297.49 297.49
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Drying expense Fuel & oil Repairs Custom hire Operating interest Total direct expenses per acre Return over direct exp per acre	36.04 67.61 39.55 18.93 0.62 13.07 19.56 12.61 2.50 210.49 87.00
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	7.99 2.48 4.96 3.39 3.09 0.92 10.85 24.04 4.92 62.64 273.13 24.36
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	17.69 42.05 24.45 17.59
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	14.19 18.42 17.22 18.87
Net value per unit Machinery cost per acre Est. labor hours per acre	20.06 71.25 1.38

Sunflowers on Cash Rent

	Avg. Of All Farms
Number of fields Number of farms	18 11
Acres Yield per acre (cwt.) Operators share of yield % Value per cwt. Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	178.32 9.04 100.00 23.35 210.95 90.94 2.18 304.07
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	38.87 56.91 38.70 15.85 0.61 14.20 18.59 13.69 38.57 6.17 0.36 242.52 61.55
Overhead Expenses Hired labor Machinery leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	5.80 2.60 2.74 3.39 0.13 2.68 22.52 5.05 44.91 287.44 16.63
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	14.64 31.27 20.07 11.20
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	26.84 31.81 19.89 22.11
Net value per unit Machinery cost per acre Est. labor hours per acre	23.35 72.06 1.19

Wheat, Spring on Owned Land

	Avg. Of All Farms	Low 20%	<u>40 - 60%</u>	<u> High 20%</u>
Number of fields	42	6	7	12
Number of farms	33	6	6	7
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Hedging gains/losses per acre	250.75 55.71 100.00 6.61 368.12 0.81	214.99 41.55 100.00 6.21 258.11	274.20 48.26 100.00 6.33 305.57	287.26 66.04 100.00 6.73 444.39
Crop insurance per acre Other crop income per acre Gross return per acre	5.48	7.16	4.03	9.61
	0.56	-	-	0.06
	374.98	265.27	309.59	454.06
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Drying expense Fuel & oil Repairs Custom hire Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	24.29	25.04	20.83	23.10
	82.21	84.41	76.21	84.95
	35.46	36.38	32.06	37.17
	15.87	10.08	15.28	17.73
	0.62	-	0.72	1.48
	16.46	13.15	16.79	16.79
	21.72	25.15	16.43	17.72
	10.89	25.56	24.76	4.21
	1.66	0.70	0.91	1.46
	0.99	-	3.30	-
	210.17	220.48	207.29	204.62
	164.80	44.79	102.31	249.44
Overhead Expenses Hired labor Machinery leases Building leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	8.71 1.02 0.13 5.56 4.03 3.08 1.09 11.02 32.25 5.36 72.25 282.42 92.56	4.58 0.91 6.98 3.33 2.26 0.38 18.66 31.10 6.79 74.99 295.47 -30.20	2.07 0.08 0.68 5.62 3.48 3.33 0.07 8.90 29.27 2.99 56.49 263.77 45.82	13.39 2.25 0.02 4.94 3.36 3.19 1.18 8.26 34.76 7.07 78.41 283.03 171.03
Government payments	12.08	11.46	10.31	12.97
Net return with govt pmts	104.63	-18.74	56.13	184.00
Labor & management charge	25.53	26.53	22.51	26.31
Net return over lbr & mgt	79.10	-45.27	33.63	157.69
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	3.77	5.31	4.30	3.10
	5.07	7.11	5.47	4.29
	4.73	6.66	5.17	3.94
	5.19	7.30	5.63	4.34
Net value per unit	6.62	6.21	6.33	6.73
Machinery cost per acre	81.76	94.67	87.21	73.69
Est. labor hours per acre	1.19	1.50	1.10	0.97

Wheat, Spring on Cash Rent

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of fields	81	7	25	25
Number of farms	36	7	7	8
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Hedging gains/losses per acre Crop insurance per acre Other crop income per acre Gross return per acre	273.29 56.66 100.00 6.59 373.14 0.24 2.23 0.18 375.79	320.78 42.32 100.00 5.99 253.31 - 1.94 - 255.25	282.51 54.72 100.00 6.55 358.54 5.04 0.18 363.76	203.84 65.66 100.00 7.00 459.72 1.06 0.51 461.29
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Drying expense Fuel & oil Repairs Custom hire Land rent Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	23.45 86.05 34.35 18.34 0.46 16.02 19.70 6.28 54.38 0.84 2.93 0.44 263.23 112.56	20.90 80.00 30.89 17.69 - 13.06 18.36 8.19 66.33 - 3.85 1.52 260.79 -5.54	20.80 94.59 37.79 19.44 1.44 18.13 15.94 7.67 50.53 2.54 0.07 268.93 94.83	22.58 91.18 34.81 18.48 14.12 20.42 4.20 50.59 1.40 0.51 258.29 203.00
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	10.26 2.39 0.11 3.78 3.66 0.86 2.35 29.19 6.09 58.69 321.93 53.86	4.19 0.17 1.11 3.88 3.54 0.95 2.78 22.95 5.44 45.02 305.81 -50.56	11.93 1.58 2.80 2.95 0.86 1.21 29.54 7.87 58.72 327.65 36.11	12.93 4.86 3.76 5.92 0.79 1.59 30.48 4.98 65.31 323.60 137.69
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	12.78	6.92	12.53	17.01
	66.64	-43.64	48.64	154.71
	24.06	20.84	22.62	29.29
	42.59	-64.48	26.02	125.42
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	4.65	6.16	4.91	3.93
	5.68	7.23	5.99	4.93
	5.41	7.02	5.66	4.65
	5.83	7.51	6.08	5.09
Net value per unit	6.59	5.99	6.55	7.02
Machinery cost per acre	74.59	63.91	72.08	73.30
Est. labor hours per acre	1.06	1.20	1.12	0.93

Wheat, Spring on Share Rent

	Avg. Of All Farms
Number of fields Number of farms	12 11
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Crop insurance per acre Gross return per acre	116.17 58.76 66.65 6.58 257.61 0.62 258.23
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	22.41 70.97 21.42 13.36 17.89 26.09 4.82 2.17 179.13 79.10
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	10.52 0.61 0.59 5.31 2.68 1.88 1.77 30.80 8.45 62.62 241.74 16.49
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	9.03 25.52 26.08 -0.57
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	4.57 6.17 5.93 6.59
Net value per unit Machinery cost per acre Est. labor hours per acre	6.58 80.71 1.15

Wheat, Winter on Owned Land

	Avg. Of All Farms
Number of fields Number of farms	5 5
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Crop insurance per acre Gross return per acre	117.88 49.74 100.00 6.26 311.35 24.89 336.23
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	32.12 89.50 47.99 24.76 14.10 18.63 14.78 4.21 246.09 90.14
Overhead Expenses Hired labor Machinery leases 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	9.39 2.77 5.69 3.37 3.20 23.67 20.93 7.84 76.85 322.94 13.29
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	17.13 30.42 22.25 8.17
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	4.95 6.49 5.65 6.10
Net value per unit Machinery cost per acre Est. labor hours per acre	6.26 71.82 1.58

Wheat, Winter on Cash Rent

	Avg. Of All Farms
Number of fields Number of farms	6 6
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Crop insurance per acre Gross return per acre	131.82 36.07 100.00 6.18 222.94 29.18 252.12
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	31.02 89.58 42.00 22.77 14.03 17.24 18.81 53.75 7.57 296.79 -44.66
Overhead Expenses Custom hire Hired labor Machinery leases Building leases Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	0.18 6.22 3.63 1.28 2.94 3.01 1.91 18.24 7.03 44.46 341.25 -89.12
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	7.70 -81.42 19.97 -101.39
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	8.23 9.46 8.44 8.99
Net value per unit Machinery cost per acre Est. labor hours per acre	6.18 72.18 1.15

EXPLANATORY NOTES FOR LIVESTOCK TABLES

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

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

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

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

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

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

Beef Cow-Calf -- Average Per Cwt. Produced

	Avg. All Fa	
Number of farms		23
Beef Calves sold (lb) Transferred out (lb) Cull sales Other income Purchased Transferred in Inventory change Gross margin	Quantity 38.05 61.95	Value 65.75 109.34 23.70 0.22 -29.00 -21.27 9.82 158.54
Pirect Expenses Protein Vit Minerals (lb.) Creep / Starter (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Custom hire Bedding Operating interest Total direct expenses Return over direct expense	17.92 16.72 64.04 0.15 214.94 109.20 1,155.44 1.28 103.09	4.79 2.44 3.35 0.74 3.66 3.29 29.43 21.34 3.98 4.76 3.08 4.82 4.63 2.29 0.88 1.55 95.05 63.49
Overhead Expenses Hired labor Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		3.83 2.05 1.28 2.40 6.43 3.59 19.57 114.62 43.92
Labor & management charge Net return over lbr & mgt		13.02 30.90
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		95.05 114.62 131.39 144.40
Est. labor hours per unit		0.99
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.		173.7 98.4 0.6 15.0 97.8 90.9 0.93 7.5 1.5 554 553 381.51 574 172.78

Beef Cow-Calf -- Average Per Cow

	Avg. AII Fa	
Number of farms		23
Beef Calves sold (lb) Transferred out (lb) Cull sales Other income Purchased Transferred in Inventory change Gross margin	Quantity 198.8 323.6	Value 343.51 571.22 123.80 1.15 -151.54 -111.15 51.29 828.29
Pirect Expenses Protein Vit Minerals (lb.) Creep / Starter (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Custom hire Bedding Operating interest Total direct expenses Return over direct expense	93.6 87.4 334.6 0.8 1,123.0 570.5 6,036.6 6.7 538.6	25.02 12.75 17.52 3.86 19.11 17.19 153.77 111.51 20.77 24.89 16.10 25.21 24.21 11.95 4.61 8.12 496.59 331.70
Overhead Expenses Hired labor Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		19.98 10.70 6.66 12.52 33.61 18.75 102.23 598.82 229.46
Labor & management charge Net return over lbr & mgt		68.01 161.45
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		95.05 114.62 131.39 144.40
Est. labor hours per unit		5.17
Other Information Number of cows Pregnancy percentage Pregnancy loss percentage Culling percentage Calving percentage Weaning percentage Weaning percentage Calves sold per cow Calf death loss percent Cow death loss percent Average weaning weight Lb. weaned/exposed female Feed cost per cow Avg wgt/ Beef Calves sold Avg price / cwt.		173.7 98.4 0.6 15.0 97.8 90.9 0.93 7.5 1.5 554 503 381.51 574 172.78

Livestock Enterprise Analysis

North Dakota Farm Business Management Education Program Region 3 - South Central North Dakota, 2013 (Farms Sorted By Net Return Per Unit)

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

	Avg. All Fa	
Number of farms		12
Beef Calves sold (lb) Transferred out (lb) Cull sales Other income Purchased Transferred in Inventory change Gross margin	Quantity 26.21 62.64	Value 43.75 107.09 24.68 1.15 -13.32 -36.30 39.58 166.62
Direct Expenses Protein Vit Minerals (lb.) Barley (bu.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Custom hire Livestock leases Marketing Total direct expenses Return over direct expense	29.27 0.24 0.45 734.09 106.48 884.13 1.01 58.20	6.88 0.85 2.08 10.82 2.86 26.72 22.20 2.96 4.24 1.85 6.19 7.20 2.42 1.98 1.82
Overhead Expenses Machinery leases Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		1.79 1.88 2.15 2.20 6.05 4.29 18.35 119.43 47.19
Labor & management charge Net return over lbr & mgt		14.18 33.01
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		101.08 119.43 127.45 141.62
Est. labor hours per unit		0.94
Other Information Number of cows Pregnancy percentage Pregnancy loss percentage Culling percentage Calving percentage Weaning percentage Weaning percentage Calves sold per cow Calf death loss percent Cow death loss percent Average weaning weight Lb. weaned/exposed female Feed cost per cow Avg wgt/ Beef Calves sold Avg price / cwt.		91.7 97.8 0.5 14.3 97.4 90.4 0.78 5.4 1.3 541 489 424.66 615 166.93

Livestock Enterprise Analysis

North Dakota Farm Business Management Education Program Region 3 - South Central North Dakota, 2013 (Farms Sorted By Net Return Per Unit)

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

	Avg. Of All Farms	
Number of farms		12
Beef Calves sold (lb) Transferred out (lb) Cull sales Other income Purchased Transferred in Inventory change Gross margin	Quantity 147.7 353.0	Value 246.50 603.39 139.04 6.50 -75.03 -204.55 223.01 938.87
Direct Expenses Protein Vit Minerals (lb.) Barley (bu.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Protein Supplement (lb.) Pasture (aum) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Custom hire Livestock leases Marketing Total direct expenses Return over direct expense	164.9 1.4 2.5 4,136.4 600.0 4,981.8 16.4 5.7 311.6	38.77 4.77 11.71 60.96 16.14 150.55 2.25 125.07 14.46 23.91 10.41 34.90 40.60 13.65 11.17 10.26 569.56 369.30
Overhead Expenses Machinery leases Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		10.11 10.58 12.09 12.38 34.08 24.17 103.40 672.96 265.90
Labor & management charge Net return over lbr & mgt		79.88 186.03
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		101.08 119.43 127.45 141.62
Est. labor hours per unit		5.28
Other Information Number of cows Pregnancy percentage Pregnancy loss percentage Culling percentage Calving percentage Weaning percentage Weaning percentage Calves sold per cow Calf death loss percent Cow death loss percent Average weaning weight Lb. weaned/exposed female Feed cost per cow Avg wgt/ Beef Calves sold Avg price / cwt.		91.7 97.8 0.5 14.3 97.4 90.4 0.78 5.4 1.3 541 489 424.66 615 166.93

Beef Replacement Heifers -- Average Per Head Sold/Trans

		Avg. Of All Farms	
Number of farms		18	
Beef Replace sold (hd) Transferred out (hd) Cull sales (hd) Other income	Quantity 0.3 0.7 0.1	Value 513.41 1,026.66 67.09	
Purchased (hd) Transferred in (hd) Inventory change (hd) Gross margin	0.4 0.6 -0.1	-414.59 -545.55 -43.90 603.12	
Birect Expenses Beet Pulp (dry) (lb.) Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Oats (bu.) Pasture (aum) Screenings, Heavy (lb.) DDGS, dry (lb.) Other feed stuffs (lb) Breeding fees Veterinary Supplies Fuel & oil Repairs Custom hire Utilities Marketing Bedding Total direct expenses Return over direct expense	248.7 67.7 214.5 5.2 1,316.4 213.1 2,174.0 1.8 4.8 30.1 139.1 89.0	12.04 16.53 14.45 28.08 23.89 6.79 70.65 4.84 86.22 2.36 17.94 1.61 9.31 13.29 5.93 9.64 5.58 13.24 0.73 2.69 4.11 350.62 252.50	
Overhead Expenses Hired labor Farm insurance Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		12.53 5.54 16.40 17.91 52.39 403.01 200.11	
Labor & management charge Net return over lbr & mgt		31.19 168.92	
Est. labor hours per unit		1.75	
Other Information No. purchased or trans in Number sold or trans out Average number of head Percentage death loss Feed cost/head sold/trans		52 52 46 0.6 286.09	

Beef Backgrounding -- Average Per Cwt. Produced

	Avg. Of All Farms	
Number of farms		7
Backgnd Beef sold (lb) Transferred out (lb) Other income Transferred in (lb) Inventory change (lb) Gross margin	Quantity 360.43 132.03 -349.99 -42.47	Value 610.20 229.08 -1.95 -623.15 -63.70 150.48
Direct Expenses Protein Vit Minerals (lb.) Creep / Starter (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Screenings, Heavy (lb.) DDGS, dry (lb.) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Custom hire Utilities Marketing Bedding Operating interest Total direct expenses Return over direct expense	10.20 9.85 84.15 3.64 598.72 90.69 325.80 247.88 52.60 10.87	3.22 2.33 6.88 14.79 9.81 2.69 6.95 12.50 3.93 0.96 3.41 0.98 4.59 3.59 0.27 0.39 7.65 2.29 1.51 88.72 61.76
Overhead Expenses Hired labor Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		3.55 1.71 3.40 5.03 13.69 102.40 48.07
Labor & management charge Net return over lbr & mgt		7.59 40.48
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		157.49 160.27 160.67 162.21
Est. labor hours per unit		0.62
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.		188 207 0.3 1.81 6.20 12.47 64.05 90.86 730 169.30

Beef Backgrounding -- Average Per Head

	Avg. Of All Farms	
Number of farms		7
Backgnd Beef sold (lb) Transferred out (lb) Other income Transferred in (lb) Inventory change (lb) Gross margin	Quantity 511.3 187.3 -496.5 -60.2	Value 865.56 324.95 -2.77 -883.93 -90.36 213.45
Direct Expenses Protein Vit Minerals (lb.) Creep / Starter (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Screenings, Heavy (lb.) DDGS, dry (lb.) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Utilities Marketing Bedding Operating interest Total direct expenses Return over direct expense	14.5 14.0 119.4 5.2 849.3 128.6 462.1 351.6 74.6 15.4	4.56 3.31 9.77 20.98 13.91 3.82 9.85 17.73 5.57 1.36 4.83 1.76 6.51 5.10 0.55 10.85 3.24 2.14 125.84 87.61
Overhead Expenses Hired labor Farm insurance Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		5.03 1.85 2.43 4.82 5.28 19.41 145.26 68.19
Labor & management charge Net return over lbr & mgt		10.77 57.42
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		157.49 160.27 160.67 162.21
Est. labor hours per unit		0.88
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.		188 207 0.3 1.81 6.20 12.47 64.05 90.86 730 169.30

Figure 1. Gross Cash Income Per Farm

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

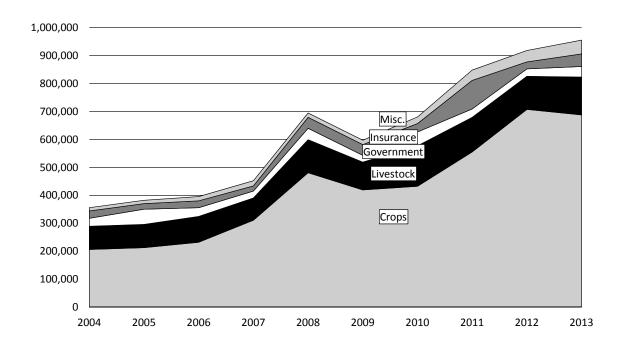


Figure 2. Net Farm Income (Accrual) Per Farm

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

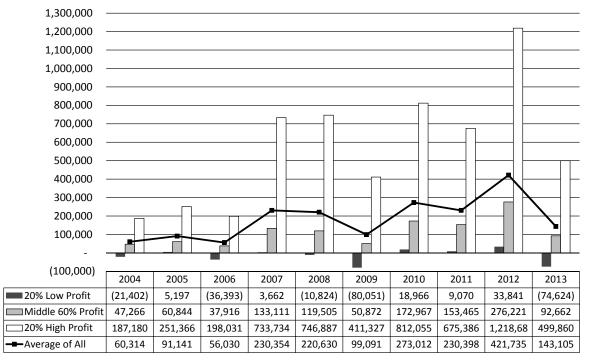


Figure 3. Financial Efficiency Measures (As Percent of Gross Revenue)

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

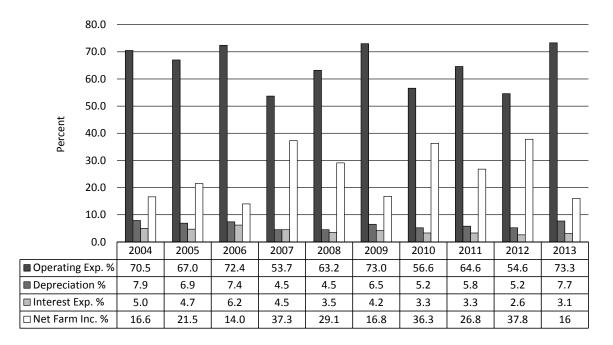


Figure 4. Profitability Measures Per Farm

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

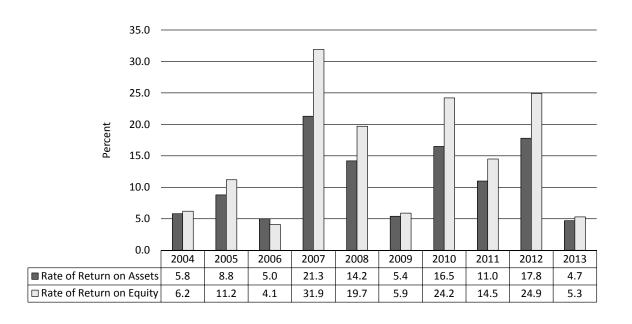


Figure 5. Assets and Liabilities Per Farm, 2013

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

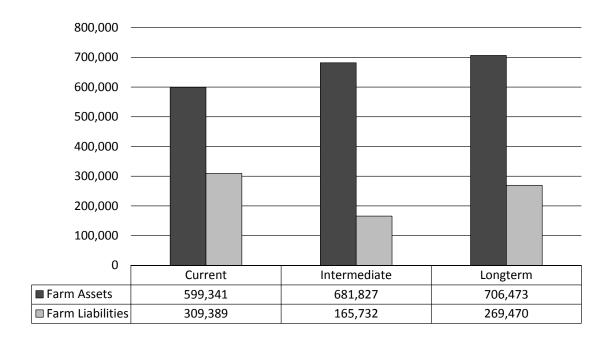


Figure 6. Total Farm Assets and Liabilities

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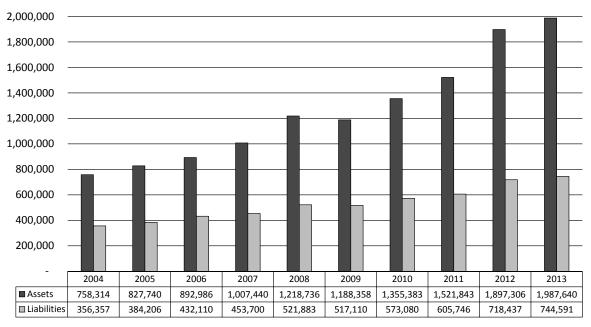


Figure 7. Household and Personal Expenses

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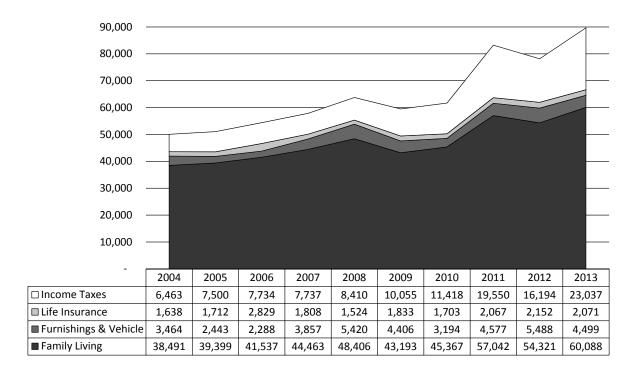


Figure 8. Crop Acreage Per Farm

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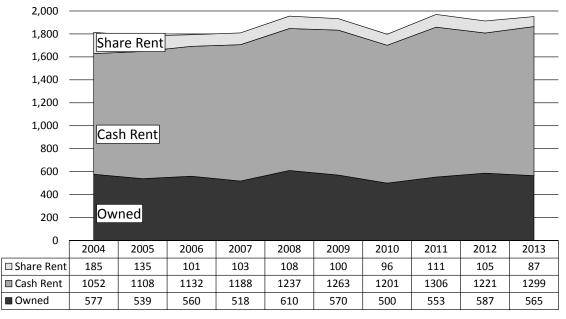


Figure 9. Spring Wheat Costs Per Acre

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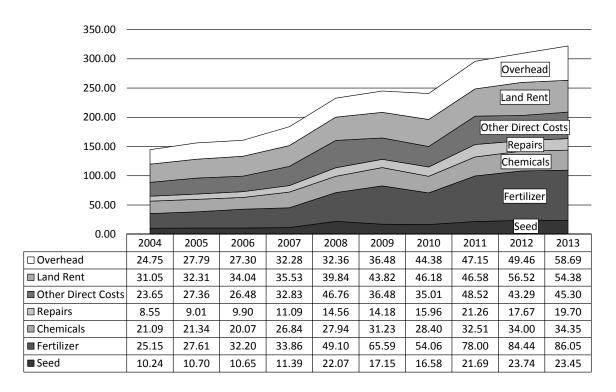
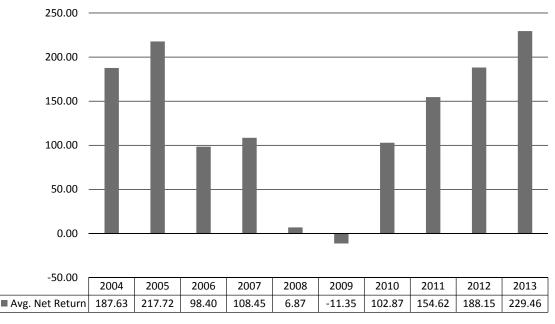


Figure 10. Average Net Return Per Beef Cow

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