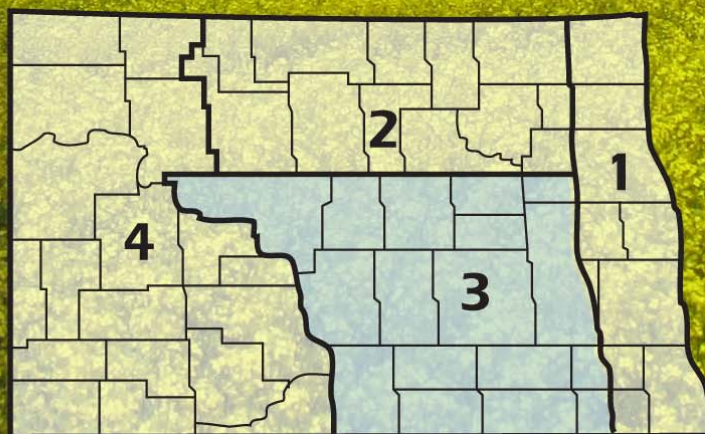


2010 ANNUAL REPORT

Region 3

North Dakota Farm and Ranch
Business Management Education

Regional Reporting Areas



www.ndfarmmanagement.com



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The N.D. Farm Management Education Association recognizes the listed organizations for their contribution toward the production and distribution of the N.D. Farm and Ranch Business Management Regional and State Averages for 2010

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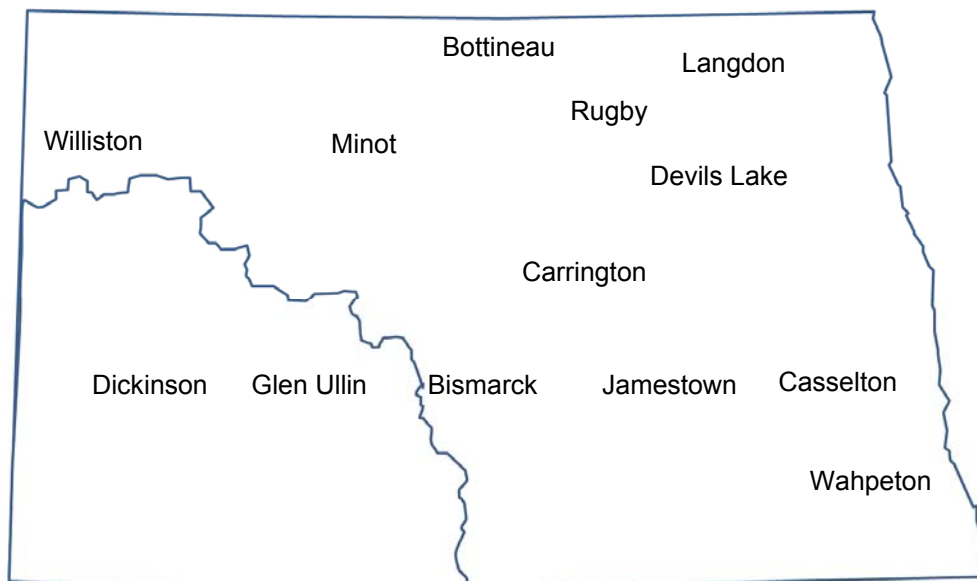
NORTH DAKOTA FARM BUSINESS MANAGEMENT EDUCATION

REGION 3 - SOUTH CENTRAL 2010 ANNUAL REPORT

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

<u>School</u>	<u>Instructor</u>
Bismarck State College	Mark Holkup
Carrington High School	Steve Metzger
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Jamestown (JVATC)	Virgil Dagman
Central Cass School, Casselton	Ron Smithberg
ND State College of Science Wahpeton	Keith Torgerson

This report was made possible by the farm families who cooperated with their farm management instructors in getting the records for 2010 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



2010 South Central Report North Dakota Farm Business Management Education

Introduction	1
Explanatory Notes for the Farm Operators' Reports	2
Farm Income Statement	7
Inventory Changes	9
Depreciation	10
Profitability Measures	11
Liquidity and Repayment Capacity Measures.....	12
Balance Sheet at Cost Values	13
Statement of Cash Flows	14
Financial Standards Measures	15
Crop Production and Marketing Summary	16
Household and Personal Expenses	17
Operator and Labor Information	18
Nonfarm Summary.....	19
Financial Summary (sorted by gross farm income)	20
Financial Summary (sorted by age of operator).....	21
Financial Summary (sorted by farm type).....	22
Explanatory Notes for Crop Tables.....	23
Barley on Owned Land	24
Barley on Cash Rent.....	25
Beans, Pinto on Cash Rent.....	26
Canola on Owned Land	27
Canola on Cash Rent	28
Corn on Owned Land.....	29
Corn on Cash Rent	30
Corn Silage on Owned Land	31
Corn Silage on Cash Rent	32
CRP on Owned Land	33
Hay, Alfalfa on Owned Land	34
Hay, Alfalfa on Cash Rent.....	35
Hay, Grass on Owned Land.....	36
Hay, Grass on Cash Rent	37
Hay, Mixed Alfalfa/Grass on Owned Land	38
Hay, Mixed Alfalfa/Grass on Cash Rent	39
Pasture on Owned Land	40
Pasture on Cash Rent	41
Peas, Field on Cash Rent	42
Prevented Planting on Owned Land	43
Prevented Planting on Cash Rent.....	44
Soybeans on Owned Land	45
Soybeans on Cash Rent	46
Soybeans on Share Rent	47
Sunflowers on Owned Land.....	48
Sunflowers on Cash Rent	49

Wheat, Durum on Cash Rent.....	50
Wheat, Spring on Owned Land	51
Wheat, Spring on Cash Rent	52
Wheat, Spring on Share Rent	53
Wheat, Winter on Owned Land.....	54
Wheat, Winter on Cash Rent	55
Explanatory Notes for Livestock Tables	56
Beef Cow-Calf – Average Per Cwt. Produced	57
Beef Cow-Calf – Average Per Cow	58
Beef Replacement Heifers – Average Per Head Sold / Trans	59
Beef, Background Beef – Average Per Cwt Produced	60
Beef, Background Beef – Average Per Head	61
Figure 1. Gross Cash Income per Farm	62
Figure 2. Net Farm Income (Accrual) per Farm	62
Figure 3. Financial Efficiency Measures	63
Figure 4. Profitability Measures per Farm	63
Figure 5. Assets and Liabilities per Farm, 2010	64
Figure 6. Total Farm Assets and Liabilities	64
Figure 7. Household and Personal Expenses	65
Figure 8. Crop Acreage per Farm	65
Figure 9. Spring Wheat Costs per Acre	66
Figure 10. Average Net Return per Beef Cow	66

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 2010 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 22nd 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. The "Direct & CC govt payments" are decoupled from crop production but the counter-cyclical payment is coupled to national average prices. "LDP payments" 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" refers to all other government payments such as disaster payments but not including CRP payments.

The second section of the income statement lists cash 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.

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

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

EBITDA: This factor stands for: Earnings Before Interest, Taxes, Depreciation and Amortization. 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 not just those reporting nonfarm income.

Farm Income Statement
North Dakota Farm Business Management Education
Region 3 - South Central North Dakota, 2010
(Farms Sorted By Net Farm Income)

	<u>Avg. Of</u> <u>All Farms</u>	<u>Low 20%</u>	<u>40 - 60%</u>	<u>High 20%</u>
Number of farms	147	29	30	30
Cash Farm Income				
Barley	24,645	1,845	17,851	64,853
Beans, Black Turtle	4,039	-	-	19,792
Beans, Navy	1,148	-	-	-
Beans, Pinto	6,805	-	1,168	26,810
Canola	12,801	438	998	42,002
Corn	65,800	13,059	72,426	141,278
Flax	4,178	164	-	14,622
Hay, Alfalfa	122	-	-	160
Hay, Grass	193	788	-	126
Hay, Mixed	119	128	167	294
Hay, Mixed Alfalfa/Grass	196	17	283	-
Hay, Small Grain	40	202	-	-
Lentils	526	-	-	1,970
Oats	209	-	-	-
Peas, Field	2,046	-	-	3,097
Potatoes	4,123	-	-	-
Rye	177	-	-	164
Soybeans	154,618	45,489	130,553	401,335
Sunflowers	20,114	754	5,069	67,021
Sunflowers, Confectionary	4,369	-	-	21,408
Wheat, Durum	3,901	-	372	6,629
Wheat, Spring	108,473	3,295	55,511	328,516
Wheat, Winter	6,068	131	6,813	9,988
Rented Out	1,602	1,838	208	5,697
Soybeans, Food	5,958	-	-	4,803
Miscellaneous crop income	84	-	-	-
Beef Bulls	926	677	190	-
Beef Cow-Calf, Beef Calves	19,037	21,993	22,952	14,294
Beef Replacement Heifers	1,510	2,508	161	2,016
Beef Backgrounding	26,187	29,704	9,658	33,799
Beef Finishing	15,599	73	7,463	22,710
Beef Yearlings	8,957	438	-	43,445
Beef Grazing	1,632	-	1,220	5,231
Dairy, Milk	24,005	-	-	107,306
Dairy, Dairy Calves	235	-	-	1,122
Hogs, Farrow To Finish, Raised Ho	2,362	-	-	-
Hogs, Feeder Pig Prod, Feeder Pig	182	-	-	-
Hogs, Finish Feeder Pigs	576	-	-	-
Sheep, Feeder Lamb Prod, Fdr Lamb	399	2,021	-	-
Sheep, Feeder Lamb Prod, Wool	40	200	-	-
Sheep, Lamb Finishing	558	757	2,000	-
Sheep, Market Lamb Prod, Mkt Lamb	78	-	293	-
Beef Finish Cull Cows	858	-	2,580	-
Dairy Feeder	239	-	-	-
Dairy Backgrounding	190	-	-	355
Cull breeding livestock	9,124	9,419	6,870	12,634
Misc. livestock income	2,302	196	279	3,770
LDP payments	2,505	69	308	5,065
Direct & CC govt payments	17,629	4,691	13,895	41,843
CRP payments	1,976	1,467	1,942	2,225
Other government payments	27,166	12,877	19,393	54,897
Custom work income	13,499	4,346	44,101	9,970
Patronage dividends, cash	3,671	271	1,140	12,706
Insurance income	30,033	8,019	22,844	66,117
Sale of resale items	724	-	3,550	-
Other farm income	5,832	3,709	2,310	9,996
Gross Cash Farm Income	650,382	171,582	454,565	1,610,065

Farm Income Statement (Continued)
North Dakota Farm Business Management Education
Region 3 - South Central North Dakota, 2010
(Farms Sorted By Net Farm Income)

	<u>Avg. Of All Farms</u>	<u>Low20%</u>	<u>40 - 60%</u>	<u>High 20%</u>
Number of farms	147	29	30	30
Cash Farm Expense				
Seed	60,458	14,448	46,131	154,344
Fertilizer	68,370	9,372	45,741	176,185
Crop chemicals	37,597	4,498	23,135	99,283
Crop insurance	22,038	4,528	16,258	55,355
Drying expense	1,315	77	1,161	2,369
Storage	801	-	841	2,493
Irrigation energy	201	-	-	535
Crop marketing	393	0	534	447
Crop miscellaneous	1,543	108	2,037	3,951
Feeder livestock purchase	24,847	3,785	8,357	63,100
Purchased feed	21,413	8,110	18,531	50,904
Breeding fees	358	120	29	1,458
Veterinary	3,491	1,779	2,734	7,204
Supplies	3,207	891	3,915	7,665
Livestock custom hire	65	-	8	208
Livestock machinery leases	23	-	113	-
Livestock leases	43	159	59	-
Livestock marketing	1,660	580	651	4,649
Interest	25,022	12,152	20,777	47,775
CCC buyback	1,673	-	662	5,469
Fuel & oil	31,263	9,788	28,321	66,394
Repairs	39,709	12,746	33,633	82,333
Custom hire	14,002	6,961	11,956	24,500
Hired labor	18,070	3,166	11,476	57,082
Land rent	60,854	19,912	45,235	146,462
Machinery leases	5,789	1,848	5,249	12,695
Building leases	374	-	317	671
Real estate taxes	3,533	1,775	2,669	6,418
Farm insurance	7,374	3,771	5,491	16,829
Utilities	6,444	2,809	5,827	13,372
Dues & professional fees	1,774	826	1,730	4,363
Miscellaneous	11,315	5,761	8,254	23,936
Total cash expense	475,020	129,971	351,830	1,138,448
Net cash farm income	175,362	41,610	102,736	471,617
Inventory Changes				
Prepays and supplies	17,654	-2,510	14,120	40,593
Accounts receivable	6,601	-4,649	13,341	14,040
Hedging accounts	-7,444	-6,330	-985	-19,025
Other current assets	777	-840	776	1,469
Crops and feed	92,168	12,523	17,136	344,547
Market livestock	12,939	1,191	10,862	22,570
Breeding livestock	-3,445	-11,065	-685	-7,241
Other assets	866	-52	2,634	-2,079
Accounts payable	6,099	2,225	4,560	11,179
Accrued interest	-396	-3,543	-720	2,638
Total inventory change	125,819	-13,049	61,038	408,691
Net operating profit	301,181	28,561	163,773	880,308
Depreciation				
Machinery and equipment	-33,287	-8,468	-16,526	-94,953
Titled vehicles	-2,170	-1,726	-1,986	-4,172
Buildings and improvements	-3,387	-747	-1,464	-11,376
Total depreciation	-38,844	-10,942	-19,976	-110,500
Net farm income from operations	262,337	17,619	143,798	769,809
Gain or loss on capital sales	10,674	1,348	8,222	42,246
Net farm income	273,012	18,966	152,019	812,055

Inventory Changes
North Dakota Farm Business Management Education
Region 3 - South Central North Dakota, 2010
(Farms Sorted By Net Farm Income)

	<u>Avg. Of All Farms</u>	<u>Low20%</u>	<u>40 - 60%</u>	<u>High 20%</u>
Number of farms	147	29	30	30
Net cash farm income	175,362	41,610	102,736	471,617
Crops and Feed				
Ending inventory	413,291	51,441	165,479	1,376,011
Beginning inventory	321,123	38,918	148,342	1,031,464
Inventory change	92,168	12,523	17,136	344,547
Market Livestock				
Ending inventory	54,494	36,647	45,573	67,654
Beginning inventory	41,554	35,457	34,711	45,084
Inventory change	12,939	1,191	10,862	22,570
Accts Receivable				
Ending inventory	18,652	6,777	30,744	32,192
Beginning inventory	12,050	11,426	17,403	18,151
Inventory change	6,601	-4,649	13,341	14,040
Prepaid Expenses and Supplies				
Ending inventory	67,900	4,738	39,351	198,788
Beginning inventory	50,246	7,247	25,231	158,195
Inventory change	17,654	-2,510	14,120	40,593
Hedging Activities				
Ending inventory	5,149	687	820	21,832
Withdrawals	1,240	-	344	2,826
Beginning inventory	2,858	-	566	11,467
Deposits	10,975	7,017	1,583	32,215
Gain or loss	-7,444	-6,330	-985	-19,025
Other Current Assets				
Ending inventory	2,461	115	1,774	4,189
Beginning inventory	1,685	955	998	2,720
Inventory change	777	-840	776	1,469
Breeding Livestock				
Ending inventory	92,972	91,234	78,588	125,234
Capital sales	2,713	4,639	83	3,703
Beginning inventory	82,898	76,587	71,459	121,336
Capital purchases	16,233	30,351	7,897	14,841
Depreciation, capital adjust	-3,445	-11,065	-685	-7,241
Other Capital Assets				
Ending inventory	27,580	2,473	22,009	81,769
Capital sales	4,736	61	24	19,962
Beginning inventory	21,537	2,586	7,525	69,331
Capital purchases	9,912	-	11,875	34,479
Depreciation, capital adjust	866	-52	2,634	-2,079
Accounts Payable				
Beginning inventory	22,631	21,038	16,123	44,108
Ending inventory	16,532	18,814	11,563	32,929
Inventory change	6,099	2,225	4,560	11,179
Accrued Interest				
Beginning inventory	11,131	6,431	7,285	23,528
Ending inventory	11,525	9,973	8,004	20,878
Inventory change	-396	-3,543	-720	2,638
Total inventory change	125,819	-13,049	61,038	408,691
Net operating profit	301,181	28,561	163,773	880,308

Depreciation
North Dakota Farm Business Management Education
Region 3 - South Central North Dakota, 2010
(Farms Sorted By Net Farm Income)

	<u>Avg. Of All Farms</u>	<u>Low 20%</u>	<u>40 - 60%</u>	<u>High 20%</u>
Number of farms	147	29	30	30
Net operating profit	301,181	28,561	163,773	880,308
Machinery and Equipment				
Ending inventory	374,024	118,070	213,915	954,714
Capital sales	6,312	8,135	860	10,481
Beginning inventory	323,380	106,350	192,688	811,499
Capital purchases	90,243	28,323	38,613	248,648
Depreciation, capital adjust.	-33,287	-8,468	-16,526	-94,953
Titled Vehicles				
Ending inventory	22,226	10,211	23,686	37,103
Capital sales	132	28	371	104
Beginning inventory	19,371	10,249	18,833	33,754
Capital purchases	5,156	1,716	7,210	7,625
Depreciation, capital adjust.	-2,170	-1,726	-1,986	-4,172
Buildings and Improvements				
Ending inventory	100,141	31,443	43,736	266,774
Capital sales	22	-	-	110
Beginning inventory	85,285	31,346	36,186	218,294
Capital purchases	18,266	844	9,014	59,965
Depreciation, capital adjust.	-3,387	-747	-1,464	-11,376
Total depreciation, capital adj.	-38,844	-10,942	-19,976	-110,500
Net farm income from operations	262,337	17,619	143,798	769,809
Gain or loss on capital sales	10,674	1,348	8,222	42,246
Net farm income	273,012	18,966	152,019	812,055

Profitability Measures
North Dakota Farm Business Management Education
Region 3 - South Central North Dakota, 2010
(Farms Sorted By Net Farm Income)

	<u>Avg. Of All Farms</u>	<u>Low 20%</u>	<u>40 - 60%</u>	<u>High 20%</u>
Number of farms	147	29	30	30
Profitability (assets valued at cost)				
Net farm income from operations	262,337	17,619	143,798	769,809
Rate of return on assets	16.5 %	3.0 %	14.8 %	20.0 %
Rate of return on equity	24.2 %	0.4 %	23.2 %	26.8 %
Operating profit margin	34.0 %	11.1 %	27.4 %	38.4 %
Asset turnover rate	48.7 %	26.9 %	54.2 %	52.0 %
Farm interest expense	25,418	15,695	21,497	45,137
Value of operator lbr and mgmt.	47,955	16,683	36,206	105,092
Return on farm assets	239,800	16,631	129,088	709,853
Average farm assets	1,451,039	559,824	869,629	3,556,637
Return on farm equity	214,382	936	107,591	664,716
Average farm equity	885,454	218,325	464,334	2,484,495
Value of farm production	706,047	150,402	470,933	1,848,674

Liquidity & Repayment Capacity Measures
North Dakota Farm Business Management Education
Region 3 - South Central North Dakota, 2010
(Farms Sorted By Net Farm Income)

	<u>Avg. Of All Farms</u>	<u>Low 20%</u>	<u>40 - 60%</u>	<u>High 20%</u>
Number of farms	147	29	30	30
Liquidity				
Current ratio	2.05	0.94	1.76	2.65
Working capital	234,284	-7,616	124,613	787,361
Working capital to gross inc	37.0 %	-4.7 %	26.5 %	50.3 %
Current assets	456,880	116,154	289,374	1,265,726
Current liabilities	222,596	123,770	164,761	478,364
Gross revenues (accrual)	633,688	162,297	470,572	1,566,265
Repayment capacity				
Net farm income from operations	262,337	17,619	143,798	769,809
Depreciation	38,844	10,942	19,976	110,500
Personal income	39,525	43,166	28,767	70,442
Family living/owner withdrawals	-56,499	-33,419	-44,097	-107,272
Payments on personal debt	-3,823	-3,950	-3,746	-2,257
Income taxes paid	-10,375	-5,922	-7,742	-24,601
Interest on term debt	16,927	11,188	13,671	28,956
Capital debt repayment capacity	286,936	39,626	150,627	845,576
Scheduled term debt payments	-61,313	-31,319	-45,454	-128,526
Capital debt repayment margin	225,623	8,307	105,173	717,049
Cash replacement allowance	-19,655	-5,744	-12,793	-56,069
Replacement margin	205,968	2,562	92,380	660,980
Term debt coverage ratio	4.68	1.27	3.31	6.58
Replacement coverage ratio	3.54	1.07	2.59	4.58

Balance Sheet at Cost Values
North Dakota Farm Business Management Education
Region 3 - South Central North Dakota, 2010
(Farms Sorted By Net Farm Income)

	<u>Avg. Of All Farms</u>	<u>Low 20%</u>	<u>40 - 60%</u>	<u>High 20%</u>
Number of farms	138	29	28	25
Assets				
Current Farm Assets				
Cash and checking balance	21,967	15,749	9,158	50,955
Prepaid expenses & supplies	54,333	4,738	41,034	155,593
Growing crops	1,340	63	680	2,390
Accounts receivable	16,531	6,777	30,779	23,402
Hedging accounts	1,668	687	878	5,128
Crops held for sale or feed	293,066	51,441	166,932	882,718
Crops under government loan	16,476	-	-	90,946
Market livestock held for sale	50,584	36,647	38,692	53,973
Other current assets	916	52	1,220	620
Total current farm assets	456,880	116,154	289,374	1,265,726
Intermediate Farm Assets				
Breeding livestock	75,440	91,234	61,547	48,602
Machinery and equipment	321,950	118,070	197,099	828,825
Titled vehicles	19,838	10,211	24,619	24,193
Other intermediate assets	4,295	579	8,436	852
Total intermediate farm assets	421,523	220,094	291,701	902,472
Long Term Farm Assets				
Farm land	382,388	227,399	267,229	715,173
Buildings and improvements	83,059	31,443	45,931	190,824
Other long-term assets	11,532	1,894	15,145	22,467
Total long-term farm assets	476,979	260,735	328,305	928,464
Total Farm Assets	1,355,383	596,983	909,381	3,096,662
Total Nonfarm Assets	171,451	83,529	196,733	254,098
Total Assets	1,526,833	680,512	1,106,114	3,350,760
Liabilities				
Current Farm Liabilities				
Accrued interest	11,647	9,973	8,181	22,569
Accounts payable	14,610	18,814	11,431	25,094
Current notes	138,496	69,452	102,483	284,753
Government crop loans	8,639	-	-	47,690
Principal due on term debt	49,204	25,531	42,666	98,258
Total current farm liabilities	222,596	123,770	164,761	478,364
Total intermediate farm liabs	136,502	121,504	99,137	214,065
Total long term farm liabilities	213,982	123,568	147,002	373,385
Total farm liabilities	573,080	368,842	410,901	1,065,814
Total nonfarm liabilities	38,129	25,011	43,196	46,671
Total liabilities	611,209	393,854	454,096	1,112,484
Net worth (farm and nonfarm)	915,624	286,658	652,017	2,238,275
Net worth change	199,176	24,419	129,027	569,374
Percent net worth change	28 %	9 %	25 %	34 %
Ratio Analysis				
Current farm liabilities / assets	49 %	107 %	57 %	38 %
Intermediate farm liab. / assets	32 %	55 %	34 %	24 %
Long term farm liab. / assets	45 %	47 %	45 %	40 %
Total debt to asset ratio	40 %	58 %	41 %	33 %

Statement Of Cash Flows
North Dakota Farm Business Management Education
Region 3 - South Central North Dakota, 2010
(Farms Sorted By Net Farm Income)

	<u>Avg. Of All Farms</u>	<u>Low 20%</u>	<u>40 - 60%</u>	<u>High 20%</u>
Number of farms	147	29	30	30
Beginning cash (farm & nonfarm)	26,748	7,798	18,339	32,658
Cash Provided By Operating Activities				
Gross cash farm income	650,382	171,582	454,565	1,610,065
Total cash farm expense	-475,020	-129,971	-351,830	-1,138,448
Net cash from hedging transactions	-9,736	-7,017	-1,238	-29,389
Cash provided by operating	165,627	34,593	101,498	442,228
Cash Provided By Investing Activities				
Sale of breeding livestock	2,818	5,507	83	3,694
Sale of machinery & equipment	6,681	8,418	879	11,200
Sale of titled vehicles	169	100	371	167
Sale of farm land	6,655	2,069	10,556	20,053
Sale of farm buildings	22	-	-	110
Sale of other farm assets	10,765	186	24	49,382
Sale of nonfarm assets	5,168	9,448	283	2,646
Purchase of breeding livestock	-16,233	-30,351	-7,897	-14,841
Purchase of machinery & equip.	-90,243	-28,323	-38,613	-248,648
Purchase of titled vehicles	-5,156	-1,716	-7,210	-7,625
Purchase of farm land	-53,486	-34,833	-15,769	-84,990
Purchase of farm buildings	-18,266	-844	-9,014	-59,965
Purchase of other farm assets	-9,912	-	-11,875	-34,479
Purchase of nonfarm assets	-18,499	-13,377	-6,205	-36,688
Cash provided by investing	-179,517	-83,716	-84,387	-399,983
Cash Provided By Financing Activities				
Money borrowed	500,656	176,852	362,408	1,123,750
Principal payments	-454,295	-122,942	-360,245	-1,076,320
Personal income	39,525	43,166	28,767	70,442
Family living/owner withdrawals	-56,499	-33,419	-44,097	-107,272
Income and social security tax	-10,375	-5,922	-7,742	-24,601
Capital contributions	571	-	-	-
Capital distributions	-903	-	-3,589	-
Dividends paid	-	-	-	-
Cash gifts and inheritances	4,056	517	2,341	5,567
Gifts given	-992	-212	-	-4,468
Other cash flows	221	-	-	156
Cash provided by financing	21,966	58,042	-22,158	-12,747
Net change in cash balance	8,075	8,919	-5,047	29,498
Ending cash (farm & nonfarm)	34,823	16,717	13,292	62,157

Financial Standards Measures
North Dakota Farm Business Management Education
Region 3 - South Central North Dakota, 2010
(Farms Sorted By Net Farm Income)

	<u>Avg. Of All Farms</u>	<u>Low 20%</u>	<u>40 - 60%</u>	<u>High 20%</u>
Number of farms	147	29	30	30
Liquidity				
Current ratio	2.05	0.94	1.76	2.65
Working capital	234,284	-7,616	124,613	787,361
Working capital to gross inc	37.0 %	-4.7 %	26.5 %	50.3 %
Solvency (cost)				
Farm debt to asset ratio	42 %	62 %	45 %	34 %
Farm equity to asset ratio	58 %	38 %	55 %	66 %
Farm debt to equity ratio	0.73	1.62	0.82	0.52
Profitability (cost)				
Rate of return on farm assets	16.5 %	3.0 %	14.8 %	20.0 %
Rate of return on farm equity	24.2 %	0.4 %	23.2 %	26.8 %
Operating profit margin	34.0 %	11.1 %	27.4 %	38.4 %
Net farm income	273,012	18,966	152,019	812,055
EBIDTA	326,599	44,256	185,270	925,446
Repayment Capacity				
Capital debt repayment capacity	286,936	39,626	150,627	845,576
Capital debt repayment margin	225,623	8,307	105,173	717,049
Replacement margin	205,968	2,562	92,380	660,980
Term debt coverage ratio	4.68	1.27	3.31	6.58
Replacement coverage ratio	3.54	1.07	2.59	4.58
Efficiency				
Asset turnover rate (cost)	48.7 %	26.9 %	54.2 %	52.0 %
Operating expense ratio	56.6 %	72.7 %	62.8 %	52.8 %
Depreciation expense ratio	5.2 %	6.7 %	4.0 %	5.6 %
Interest expense ratio	3.3 %	7.5 %	4.2 %	2.4 %
Net farm income ratio	36.3 %	11.7 %	30.5 %	41.4 %

Crop Production and Marketing Summary
North Dakota Farm Business Management Education
Region 3 - South Central North Dakota, 2010
(Farms Sorted By Net Farm Income)

	<u>Avg. Of All Farms</u>	<u>Low 20%</u>	<u>40 - 60%</u>	<u>High 20%</u>
Number of farms	147	29	30	30
Acreage Summary				
Total acres owned	852	581	586	1,468
Total crop acres	1,797	581	1,328	4,261
Crop acres owned	500	202	356	1,038
Crop acres cash rented	1,201	362	931	3,015
Crop acres share rented	96	18	41	208
Total pasture acres	600	631	625	483
Percent crop acres owned	28 %	35 %	27 %	24 %
Average Price Received (Cash Sales Only)				
Soybeans per bushel	9.64	9.80	9.63	9.70
Wheat, Spring per bushel	5.45	-	5.64	5.56
Corn per bushel	3.46	2.91	3.45	3.54
Barley per bushel	4.05	-	4.43	4.05
Sunflowers per cwt	17.32	-	16.94	17.65
Canola per cwt	17.71	-	-	17.32
Wheat, Winter per bushel	3.95	-	4.60	-
Beans, Pinto per cwt	23.09	-	-	23.23
Wheat, Durum per bushel	5.16	-	-	-
Average Yield Per Acre				
Soybeans (bushel)	34.90	29.60	34.62	35.96
Wheat, Spring (bushel)	54.06	-	42.19	59.53
Pasture (aum)	0.968	0.891	1.04	0.976
Corn (bushel)	130.46	116.84	126.57	134.29
Hay, Mixed Alfalfa/Grass (ton)	1.82	1.73	1.86	2.08
Sunflowers (cwt)	17.15	-	-	18.05
Canola (cwt)	17.82	-	-	17.86
Hay, Grass (ton)	1.38	1.26	1.42	1.47
Barley (bushel)	77.54	-	-	80.09
Hay, Alfalfa (ton)	2.35	-	1.71	-
Beans, Pinto (cwt)	17.60	-	-	17.35
Corn Silage (ton)	14.93	-	-	-
Wheat, Winter (bushel)	56.08	-	-	60.16
Peas, Field (bushel)	47.04	-	-	-
Wheat, Durum (bushel)	50.06	-	-	-

Household and Personal Expenses
North Dakota Farm Business Management Education
Region 3 - South Central North Dakota, 2010
(Farms Sorted By Net Farm Income)

	<u>Avg. Of All Farms</u>	<u>Low 20%</u>	<u>40 - 60%</u>	<u>High 20%</u>
Number of farms	81	15	18	15
Average family size	2.6	1.8	2.4	3.1
Family Living Expenses				
Food and meals expense	7,222	5,922	6,294	7,603
Medical care	3,647	1,407	3,166	7,052
Health insurance	4,297	2,049	3,899	5,856
Cash donations	1,506	1,004	742	2,346
Household supplies	5,021	4,095	3,819	6,732
Clothing	1,577	790	1,523	2,453
Personal care	6,063	2,260	3,048	10,510
Child / Dependent care	437	424	650	547
Alimony and child support	-	-	-	-
Gifts	1,476	487	1,273	1,932
Education	1,368	333	911	1,199
Recreation	2,723	1,153	2,329	4,569
Utilities (household share)	2,332	1,698	1,643	3,379
Personal vehicle operating exp	3,034	2,240	2,649	3,176
Household real estate taxes	83	-	77	112
Dwelling rent	269	177	185	220
Household repairs	1,779	2,784	1,384	1,879
Personal interest	576	299	70	456
Disability / Long term care ins	222	5	255	284
Life insurance payments	1,703	708	730	3,949
Personal property insurance	79	76	58	-
Miscellaneous	1,656	1,043	1,647	2,412
Total cash family living expense	47,070	28,951	36,353	66,667
Family living from the farm	76	67	-	-
Total family living	47,146	29,017	36,353	66,667
Other Nonfarm Expenditures				
Income taxes	11,418	6,737	6,038	32,116
Furnishing & appliance purchases	559	-	56	627
Nonfarm vehicle purchases	2,635	873	1,503	8,934
Nonfarm real estate purchases	7,101	-4,133	311	21,726
Other nonfarm capital purchases	3,497	13,494	-	2,126
Nonfarm savings & investments	5,106	2,954	787	19,312
Total other nonfarm expenditures	30,317	19,925	8,694	84,841
Total cash family living investment & nonfarm capital purch	77,387	48,876	45,048	151,508

Operator and Labor Information
North Dakota Farm Business Management Education
Region 3 - South Central North Dakota, 2010
(Farms Sorted By Net Farm Income)

	<u>Avg. Of All Farms</u>	<u>Low 20%</u>	<u>40 - 60%</u>	<u>High 20%</u>
Number of farms	147	29	30	30
Operator Information				
Average number of operators	1.0	1.0	1.1	1.1
Average age of operators	44.6	37.0	46.0	49.5
Average number of years farming	20.7	13.2	22.3	26.2
Results Per Operator				
Working capital	349,874	-7,616	118,476	1,182,869
Total assets (cost)	1,692,022	680,512	1,049,218	3,815,665
Total liabilities	605,431	393,854	426,509	1,055,006
Net worth (cost)	1,086,590	286,658	622,709	2,760,659
Gross farm income	722,805	162,297	466,707	1,784,252
Total farm expense	470,755	144,678	331,897	1,084,426
Net farm income from operations	252,050	17,619	134,810	699,826
Net nonfarm income	37,975	43,166	26,969	64,038
Family living & tax withdrawals	64,251	39,340	48,599	119,885
Total acres owned	819.0	580.7	549.5	1,334.7
Total crop acres	1,726.3	581.4	1,245.1	3,873.7
Crop acres owned	480.3	201.6	333.6	943.7
Crop acres cash rented	1,153.8	362.0	873.2	2,741.1
Crop acres share rented	92.2	17.8	38.2	188.9
Total pasture acres	576.5	630.7	586.2	438.7
Labor Analysis				
Number of farms	147	29	30	30
Total unpaid labor hours	2,021	1,091	1,993	2,877
Total hired labor hours	1,129	231	701	3,795
Total labor hours per farm	3,151	1,322	2,694	6,672
Unpaid hours per operator	1,942	1,091	1,869	2,615

Nonfarm Summary
North Dakota Farm Business Management Education
Region 3 - South Central North Dakota, 2010
(Farms Sorted By Net Farm Income)

	<u>Avg. Of All Farms</u>	<u>Low 20%</u>	<u>40 - 60%</u>	<u>High 20%</u>
Number of farms	147	29	30	30
Nonfarm Income				
Personal wages & salary	17,935	27,299	15,304	10,191
Net nonfarm business income	2,844	158	10,583	1,798
Personal rental income	3,029	10,609	-	-
Personal interest income	297	16	25	633
Personal cash dividends	117	-	-	133
Tax refunds	741	1,951	376	98
Nontaxable personal inc.	221	-	-	156
Other nonfarm income	14,561	3,133	2,480	57,588
Total nonfarm income	39,745	43,166	28,767	70,597
Gifts and inheritances	4,056	517	2,341	5,567

Financial Summary
North Dakota Farm Business Management Education
Region 3 - South Central North Dakota, 2010
(Farms Sorted By Gross Farm Income)

	<u>Avg. Of</u> <u>All Farms</u>	<u>Less than</u> <u>50,000</u>	<u>50,001 -</u> <u>100,000</u>	<u>100,001 -</u> <u>250,000</u>	<u>250,001 -</u> <u>500,000</u>	<u>500,001 -</u> <u>1,000,000</u>	<u>Over</u> <u>1,000,000</u>
Number of farms	147	8	11	23	42	38	25
Income Statement							
Gross cash farm income	650,382	32,952	64,765	164,824	391,722	707,468	1,900,123
Total cash farm expense	475,020	40,438	51,057	119,772	288,897	503,945	1,396,180
Net cash farm income	175,362	-7,485	13,708	45,052	102,826	203,524	503,943
Inventory change	125,819	19,337	18,153	20,877	56,169	125,734	420,953
Depreciation	-38,844	-3,674	-4,057	-8,053	-20,894	-36,701	-127,145
Net farm income from operations	262,337	8,178	27,803	57,877	138,101	292,557	797,751
Gain or loss on capital sales	10,674	-	22,371	680	8,841	6,150	28,095
Average net farm income	273,012	8,178	50,174	58,557	146,942	298,707	825,846
Median net farm income	151,501	6,051	28,220	60,103	127,770	290,167	751,160
Profitability (cost)							
Rate of return on assets	16.5 %	0.5 %	6.7 %	11.0 %	12.3 %	17.2 %	19.2 %
Rate of return on equity	24.2 %	-1.0 %	11.4 %	19.6 %	18.6 %	26.6 %	26.0 %
Operating profit margin	34.0 %	2.1 %	29.2 %	28.4 %	29.9 %	34.7 %	35.7 %
Asset turnover rate	48.7 %	21.9 %	22.8 %	38.9 %	41.1 %	49.7 %	53.9 %
Liquidity & Repayment (end of year)							
Current assets	456,880	68,615	62,282	135,562	308,841	537,567	1,452,499
Current liabilities	222,596	34,871	32,532	82,292	167,267	283,692	601,894
Current ratio	2.05	1.97	1.91	1.65	1.85	1.89	2.41
Working capital	234,284	33,744	29,750	53,269	141,574	253,875	850,605
Working capital to gross inc	37.0 %	59.8 %	38.6 %	28.4 %	32.2 %	31.5 %	45.0 %
Term debt coverage ratio	4.68	3.17	1.09	2.78	3.17	4.66	6.22
Replacement coverage ratio	3.54	2.39	0.99	2.36	2.65	3.51	4.35
Solvency (end of year at cost)							
Number of sole proprietors	138	8	11	23	41	37	18
Total farm assets	1,355,383	279,478	322,097	521,132	1,095,858	1,730,639	3,350,782
Total farm liabilities	573,080	132,133	158,961	299,965	466,397	714,344	1,323,735
Total assets	1,526,833	318,879	374,472	616,944	1,305,429	1,925,356	3,615,683
Total liabilities	611,209	154,985	186,818	327,616	505,809	751,748	1,386,888
Net worth	915,624	163,894	187,654	289,328	799,621	1,173,609	2,228,795
Net worth change	199,176	26,650	45,611	54,348	135,882	251,881	590,587
Farm debt to asset ratio	42 %	47 %	49 %	58 %	43 %	41 %	40 %
Total debt to asset ratio	40 %	49 %	50 %	53 %	39 %	39 %	38 %
Nonfarm Information							
Net nonfarm income	39,525	42,690	28,414	30,903	37,635	32,984	64,448
Farms reporting living expenses	81	4	6	13	27	24	7
Total family living expense	47,146	-	26,807	24,332	44,657	63,140	72,264
Crop Acres							
Total acres owned	852	115	309	504	1,000	994	1,186
Total crop acres	1,797	181	276	589	1,181	2,039	4,760
Total crop acres owned	500	82	66	242	492	604	916
Total crop acres cash rented	1,201	99	124	295	641	1,251	3,725
Total crop acres share rented	96	-	85	51	48	184	119

Financial Summary
North Dakota Farm Business Management Education
Region 3 - South Central North Dakota, 2010
(Farms Sorted By Age Of Operator)

	<u>Avg. Of All Farms</u>	<u>Less Than 31</u>	<u>31 - 40</u>	<u>41 - 50</u>	<u>51 - 60</u>	<u>Over 60</u>
Number of farms	147	36	21	29	47	14
Income Statement						
Gross cash farm income	650,382	346,980	819,524	837,529	734,021	508,399
Total cash farm expense	475,020	260,884	703,946	567,587	523,024	329,362
Net cash farm income	175,362	86,096	115,578	269,942	210,997	179,037
Inventory change	125,819	48,596	167,710	114,830	169,873	136,420
Depreciation	-38,844	-14,905	-42,621	-53,496	-48,391	-32,331
Net farm income from operations	262,337	119,787	240,666	331,275	332,479	283,126
Gain or loss on capital sales	10,674	-58	103	4,845	17,253	44,116
Average net farm income	273,012	119,729	240,770	336,121	349,733	327,241
Median net farm income	151,501	66,385	117,670	259,748	214,960	128,595
Profitability (cost)						
Rate of return on assets	16.5 %	20.7 %	15.0 %	18.8 %	15.5 %	15.0 %
Rate of return on equity	24.2 %	47.5 %	26.0 %	30.7 %	20.6 %	17.5 %
Operating profit margin	34.0 %	28.4 %	28.7 %	34.5 %	36.0 %	42.0 %
Asset turnover rate	48.7 %	72.9 %	52.3 %	54.4 %	43.0 %	35.7 %
Liquidity & Repayment (end of year)						
Current assets	456,880	186,251	403,598	735,070	556,278	365,885
Current liabilities	222,596	96,229	299,458	379,985	232,881	104,413
Current ratio	2.05	1.94	1.35	1.93	2.39	3.50
Working capital	234,284	90,022	104,140	355,085	323,397	261,472
Working capital to gross inc	37.0 %	23.4 %	16.9 %	36.7 %	45.4 %	67.5 %
Term debt coverage ratio	4.68	4.68	2.43	4.92	5.57	8.23
Replacement coverage ratio	3.54	4.13	2.29	3.76	3.80	4.20
Solvency (end of year at cost)						
Number of sole proprietors	138	36	18	27	44	13
Total farm assets	1,355,383	604,270	1,322,035	1,888,538	1,717,242	1,149,479
Total farm liabilities	573,080	362,181	676,830	845,483	621,769	282,903
Total assets	1,526,833	658,637	1,429,197	2,103,860	1,922,571	1,528,397
Total liabilities	611,209	395,259	703,260	881,795	654,445	373,446
Net worth	915,624	263,378	725,937	1,222,066	1,268,126	1,154,951
Net worth change	199,176	105,669	162,766	290,548	234,798	198,192
Farm debt to asset ratio	42 %	60 %	51 %	45 %	36 %	25 %
Total debt to asset ratio	40 %	60 %	49 %	42 %	34 %	24 %
Nonfarm Information						
Net nonfarm income	39,525	19,356	21,839	23,654	61,671	76,444
Farms reporting living expenses	81	20	11	12	29	9
Total family living expense	47,146	25,083	41,710	66,778	55,483	49,773
Crop Acres						
Total acres owned	852	154	420	974	1,328	1,448
Total crop acres	1,797	998	1,620	2,417	2,208	1,449
Total crop acres owned	500	88	269	699	740	688
Total crop acres cash rented	1,201	879	1,340	1,522	1,340	686
Total crop acres share rented	96	31	12	196	128	76

Financial Summary
North Dakota Farm Business Management Education
Region 3 - South Central North Dakota, 2010
(Farms Sorted By Farm Type)

	<u>Avg. Of All Farms</u>	<u>Crop</u>	<u>Beef</u>	<u>Crop and Beef</u>	<u>Other</u>
Number of farms	147	87	15	27	16
Income Statement					
Gross cash farm income	650,382	751,647	332,952	488,072	404,452
Total cash farm expense	475,020	521,242	305,648	371,210	289,532
Net cash farm income	175,362	230,405	27,303	116,862	114,921
Inventory change	125,819	164,009	71,328	71,701	18,320
Depreciation	-38,844	-46,956	-14,039	-25,298	-23,524
Net farm income from operations	262,337	347,458	84,593	163,265	109,717
Gain or loss on capital sales	10,674	16,088	1,043	5,483	363
Average net farm income	273,012	363,545	85,635	168,748	110,080
Median net farm income	151,501	214,960	27,828	107,265	61,395
Profitability (cost)					
Rate of return on assets	16.5 %	18.4 %	12.5 %	13.1 %	10.4 %
Rate of return on equity	24.2 %	25.2 %	24.1 %	22.7 %	16.3 %
Operating profit margin	34.0 %	36.0 %	32.9 %	31.5 %	25.8 %
Asset turnover rate	48.7 %	51.0 %	38.0 %	41.6 %	40.2 %
Liquidity & Repayment (end of year)					
Current assets	456,880	553,535	220,048	415,443	243,543
Current liabilities	222,596	231,562	152,238	240,923	206,457
Current ratio	2.05	2.39	1.45	1.72	1.18
Working capital	234,284	321,973	67,810	174,520	37,085
Working capital to gross inc	37.0 %	42.5 %	17.8 %	31.7 %	10.5 %
Term debt coverage ratio	4.68	6.57	3.36	2.80	2.69
Replacement coverage ratio	3.54	4.39	2.80	2.55	2.20
Solvency (end of year at cost)					
Number of sole proprietors	138	82	14	26	15
Total farm assets	1,355,383	1,599,547	641,084	1,278,493	861,237
Total farm liabilities	573,080	593,540	399,365	648,861	490,215
Total assets	1,526,833	1,807,171	711,697	1,435,537	958,098
Total liabilities	611,209	641,380	428,268	666,329	519,716
Net worth	915,624	1,165,791	283,429	769,208	438,381
Net worth change	199,176	265,118	72,973	148,715	55,827
Farm debt to asset ratio	42 %	37 %	62 %	51 %	57 %
Total debt to asset ratio	40 %	35 %	60 %	46 %	54 %
Nonfarm Information					
Net nonfarm income	39,525	49,967	30,076	22,818	24,148
Farms reporting living expenses	81	54	8	13	5
Total family living expense	47,146	52,472	26,982	45,561	23,982
Crop Acres					
Total acres owned	852	913	242	904	1,058
Total crop acres	1,797	2,198	488	1,517	1,052
Total crop acres owned	500	574	100	602	336
Total crop acres cash rented	1,201	1,546	375	656	705
Total crop acres share rented	96	78	12	259	12

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 net return per acre. The classification is done separately for each table, i.e., an individual farm may be in the low 20% for one crop, the high 20% for a second, and the middle 20% for a third crop. When there are less than 25 total farms with any particular crop and farmer's tenure, only overall averages are presented.

Several cost items, such as "utilities," "hired labor," and "interest paid," are listed under both "direct" and "overhead" costs because some of these costs are specific to that crop whereas others are general overhead costs of the farm. For example, "Direct Lease Payments" refers to non-land inputs or resources leased and used only in that crop enterprise and not listed elsewhere under direct costs; the most common example is the lease of equipment that is crop specific. However, cost of leasing machinery that is used for the entire farm operation is listed as an overhead cost. Interest payments are likewise divided into those incurred directly for a specific crop and those that are not. "Land Rent" is listed as a 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.

Crop Enterprise Analysis
North Dakota Farm Business Management Education
Region 3 - South Central North Dakota, 2010
(Farms Sorted By Net Return)

Barley on Owned Land

	Avg. Of All Farms
Number of fields	12
Number of farms	11
Acres	181.81
Yield per acre (bu.)	73.24
Operators share of yield %	100.00
Value per bu.	3.89
Total product return per acre	285.11
Crop insurance per acre	0.67
Other crop income per acre	3.74
Gross return per acre	289.52
Direct Expenses	
Seed	12.40
Fertilizer	48.12
Crop chemicals	19.02
Crop insurance	15.15
Fuel & oil	13.36
Repairs	15.97
Custom hire	6.00
Operating interest	8.52
Total direct expenses per acre	138.55
Return over direct exp per acre	150.97
Overhead Expenses	
Hired labor	6.94
Building leases	0.12
RE & pers. property taxes	5.93
Farm insurance	3.64
Utilities	3.30
Dues & professional fees	0.93
Interest	18.14
Mach & bldg depreciation	22.90
Miscellaneous	7.17
Total overhead expenses per acre	69.06
Total dir & ovhd expenses per acre	207.61
Net return per acre	81.91
Government payments	12.82
Net return with govt pmts	94.73
Labor & management charge	23.64
Net return over lbr & mgt	71.09
Cost of Production	
Total direct expense per bu.	1.89
Total dir & ovhd exp per bu.	2.83
Less govt & other income	2.60
With labor & management	2.92
Net value per unit	3.89
Machinery cost per acre	61.18
Est. labor hours per acre	1.18

Crop Enterprise Analysis
North Dakota Farm Business Management Education
Region 3 - South Central North Dakota, 2010
(Farms Sorted By Net Return)

Barley on Cash Rent

	Avg. Of All Farms
Number of fields	17
Number of farms	12
Acres	360.52
Yield per acre (bu.)	79.46
Operators share of yield %	100.00
Value per bu.	4.26
Total product return per acre	338.30
Crop insurance per acre	5.70
Other crop income per acre	5.29
Gross return per acre	349.30
Direct Expenses	
Seed	9.79
Fertilizer	44.62
Crop chemicals	26.17
Crop insurance	15.45
Storage	0.48
Fuel & oil	13.68
Repairs	19.30
Custom hire	2.29
Land rent	46.95
Operating interest	2.48
Total direct expenses per acre	181.44
Return over direct exp per acre	167.86
Overhead Expenses	
Hired labor	9.01
Machinery leases	2.41
Farm insurance	3.33
Utilities	2.50
Dues & professional fees	1.94
Interest	1.84
Mach & bldg depreciation	28.64
Miscellaneous	8.87
Total overhead expenses per acre	58.54
Total dir & ovhd expenses per acre	239.98
Net return per acre	109.32
Government payments	11.25
Net return with govt pmts	120.56
Labor & management charge	26.07
Net return over lbr & mgt	94.49
Cost of Production	
Total direct expense per bu.	2.28
Total dir & ovhd exp per bu.	3.02
Less govt & other income	2.74
With labor & management	3.07
Net value per unit	4.26
Machinery cost per acre	66.58
Est. labor hours per acre	1.12

Crop Enterprise Analysis
North Dakota Farm Business Management Education
Region 3 - South Central North Dakota, 2010
(Farms Sorted By Net Return)

Beans, Pinto on Cash Rent

	Avg. Of All Farms
Number of fields	15
Number of farms	14
Acres	284.84
Yield per acre (cwt.)	18.24
Operators share of yield %	100.00
Value per cwt.	21.10
Total product return per acre	384.94
Crop insurance per acre	4.31
Gross return per acre	389.25
Direct Expenses	
Seed	38.61
Fertilizer	19.89
Crop chemicals	47.69
Crop insurance	17.14
Drying expense	1.00
Fuel & oil	12.70
Repairs	19.78
Custom hire	5.96
Land rent	47.95
Machinery leases	0.16
Operating interest	5.79
Miscellaneous	0.10
Total direct expenses per acre	216.77
Return over direct exp per acre	172.48
Overhead Expenses	
Hired labor	7.80
Machinery leases	4.83
Building leases	0.26
Farm insurance	2.48
Utilities	2.21
Dues & professional fees	0.80
Interest	4.03
Mach & bldg depreciation	25.89
Miscellaneous	5.87
Total overhead expenses per acre	54.18
Total dir & ovhd expenses per acre	270.95
Net return per acre	118.30
Government payments	11.29
Net return with govt pmts	129.60
Labor & management charge	29.36
Net return over lbr & mgt	100.23
Cost of Production	
Total direct expense per cwt.	11.88
Total dir & ovhd exp per cwt.	14.85
Less govt & other income	14.00
With labor & management	15.61
Net value per unit	21.10
Machinery cost per acre	71.16
Est. labor hours per acre	1.11

Crop Enterprise Analysis
North Dakota Farm Business Management Education
Region 3 - South Central North Dakota, 2010
(Farms Sorted By Net Return)

Canola on Owned Land

	Avg. Of All Farms
Number of fields	10
Number of farms	10
Acres	171.96
Yield per acre (cwt.)	16.85
Operators share of yield %	100.00
Value per cwt.	20.38
Total product return per acre	343.29
Gross return per acre	343.29
Direct Expenses	
Seed	45.72
Fertilizer	50.89
Crop chemicals	14.68
Crop insurance	8.56
Storage	0.09
Fuel & oil	13.61
Repairs	11.53
Custom hire	3.26
Operating interest	2.15
Total direct expenses per acre	150.48
Return over direct exp per acre	192.80
Overhead Expenses	
Hired labor	4.60
RE & pers. property taxes	5.98
Farm insurance	3.23
Utilities	1.82
Dues & professional fees	0.81
Interest	13.61
Mach & bldg depreciation	21.28
Miscellaneous	4.99
Total overhead expenses per acre	56.33
Total dir & ovhd expenses per acre	206.82
Net return per acre	136.47
Government payments	11.07
Net return with govt pmts	147.54
Labor & management charge	24.75
Net return over lbr & mgt	122.78
Cost of Production	
Total direct expense per cwt.	8.93
Total dir & ovhd exp per cwt.	12.28
Less govt & other income	11.62
With labor & management	13.09
Net value per unit	20.38
Machinery cost per acre	51.51
Est. labor hours per acre	1.07

Crop Enterprise Analysis
North Dakota Farm Business Management Education
Region 3 - South Central North Dakota, 2010
(Farms Sorted By Net Return)

Canola on Cash Rent

	Avg. Of All Farms
Number of fields	26
Number of farms	16
Acres	177.90
Yield per acre (cwt.)	18.62
Operators share of yield %	100.00
Value per cwt.	19.32
Total product return per acre	359.68
Gross return per acre	359.68
Direct Expenses	
Seed	46.82
Fertilizer	48.54
Crop chemicals	18.96
Crop insurance	13.15
Storage	0.20
Fuel & oil	13.57
Repairs	16.15
Custom hire	3.31
Land rent	36.92
Machinery leases	0.39
Operating interest	1.68
Total direct expenses per acre	199.70
Return over direct exp per acre	159.98
Overhead Expenses	
Hired labor	7.70
Machinery leases	2.16
Building leases	0.25
Farm insurance	2.39
Utilities	1.86
Dues & professional fees	1.00
Interest	1.61
Mach & bldg depreciation	19.19
Miscellaneous	5.48
Total overhead expenses per acre	41.65
Total dir & ovhd expenses per acre	241.35
Net return per acre	118.33
Government payments	10.95
Net return with govt pmts	129.28
Labor & management charge	23.43
Net return over lbr & mgt	105.85
Cost of Production	
Total direct expense per cwt.	10.72
Total dir & ovhd exp per cwt.	12.96
Less govt & other income	12.37
With labor & management	13.63
Net value per unit	19.32
Machinery cost per acre	54.87
Est. labor hours per acre	1.13

Crop Enterprise Analysis
North Dakota Farm Business Management Education
Region 3 - South Central North Dakota, 2010
(Farms Sorted By Net Return)

Corn on Owned Land

	<u>Avg. Of</u> <u>All Farms</u>	<u>Low 20%</u>	<u>40 - 60%</u>	<u>High 20%</u>
Number of fields	37	7	7	7
Number of farms	35	7	7	7
Acres	149.83	155.89	204.29	143.43
Yield per acre (bu.)	121.25	98.03	118.05	153.16
Operators share of yield %	100.00	100.00	100.00	100.00
Value per bu.	4.72	4.11	4.82	4.99
Total product return per acre	572.85	402.40	569.41	763.88
Crop insurance per acre	1.46	4.79	2.01	-
Gross return per acre	574.31	407.19	571.42	763.88
Direct Expenses				
Seed	71.15	71.59	69.67	77.75
Fertilizer	73.07	93.37	66.98	77.32
Crop chemicals	21.57	28.79	22.72	18.13
Crop insurance	20.10	14.65	24.36	23.97
Drying expense	2.05	3.41	4.71	0.87
Fuel & oil	20.13	31.09	16.62	21.05
Repairs	26.46	33.95	19.52	19.61
Custom hire	10.69	16.19	5.80	1.99
Operating interest	7.00	8.26	7.35	4.81
Miscellaneous	0.52	-	-	-
Total direct expenses per acre	252.75	301.30	237.73	245.50
Return over direct exp per acre	321.57	105.88	333.70	518.39
Overhead Expenses				
Hired labor	7.72	4.49	15.58	1.82
Machinery leases	1.04	0.99	0.42	0.36
Building leases	0.22	0.23	0.55	-
RE & pers. property taxes	5.65	6.81	5.13	6.16
Farm insurance	3.20	4.02	2.62	3.86
Utilities	3.61	3.60	2.40	4.41
Dues & professional fees	0.72	1.00	0.46	0.65
Interest	26.22	40.87	22.75	22.40
Mach & bldg depreciation	25.78	19.15	30.91	21.30
Miscellaneous	3.62	2.08	4.36	3.15
Total overhead expenses per acre	77.78	83.22	85.18	64.12
Total dir & ovhd expenses per acre	330.52	384.52	322.91	309.62
Net return per acre	243.79	22.66	248.51	454.27
Government payments	12.72	15.42	11.45	13.25
Net return with govt pmnts	256.51	38.09	259.97	467.52
Labor & management charge	34.79	40.67	32.49	31.31
Net return over lbr & mgt	221.73	-2.58	227.48	436.20
Cost of Production				
Total direct expense per bu.	2.08	3.07	2.01	1.60
Total dir & ovhd exp per bu.	2.73	3.92	2.74	2.02
Less govt & other income	2.61	3.72	2.62	1.94
With labor & management	2.90	4.13	2.90	2.14
Net value per unit	4.72	4.11	4.82	4.99
Machinery cost per acre	89.73	100.88	81.32	71.29
Est. labor hours per acre	1.98	2.65	1.80	1.63

Crop Enterprise Analysis
North Dakota Farm Business Management Education
Region 3 - South Central North Dakota, 2010
(Farms Sorted By Net Return)

Corn on Cash Rent

	<u>Avg. Of All Farms</u>	<u>Low 20%</u>	<u>40 - 60%</u>	<u>High 20%</u>
Number of fields	49	11	10	10
Number of farms	42	8	9	9
Acres	284.13	209.36	316.51	470.20
Yield per acre (bu.)	134.20	118.11	129.19	146.74
Operators share of yield %	100.00	100.00	100.00	100.00
Value per bu.	4.57	3.71	4.32	5.19
Other product return per acre	0.18	-	-	0.53
Total product return per acre	613.49	438.70	558.10	762.76
Crop insurance per acre	3.53	8.67	0.68	1.22
Gross return per acre	617.02	447.37	558.78	763.98
Direct Expenses				
Seed	74.92	75.79	78.46	63.17
Fertilizer	79.36	88.56	72.56	65.59
Crop chemicals	18.93	26.62	18.82	13.87
Crop insurance	18.46	18.91	15.51	19.07
Drying expense	4.83	16.02	1.86	1.79
Fuel & oil	23.36	29.69	24.06	21.81
Repairs	36.18	29.02	53.95	36.15
Custom hire	6.47	8.63	6.81	4.97
Land rent	50.61	64.79	43.42	47.99
Operating interest	5.03	6.41	3.28	3.75
Miscellaneous	0.88	-	-	1.68
Total direct expenses per acre	319.03	364.43	318.73	279.83
Return over direct exp per acre	297.99	82.94	240.04	484.15
Overhead Expenses				
Hired labor	14.03	16.62	17.86	11.92
Machinery leases	3.99	0.87	5.06	5.35
Farm insurance	2.91	0.95	3.84	3.40
Utilities	3.15	4.77	2.27	2.54
Dues & professional fees	1.20	1.82	0.41	1.35
Interest	4.28	5.04	5.29	3.91
Mach & bldg depreciation	29.14	20.38	31.87	36.93
Miscellaneous	5.08	2.65	3.19	6.81
Total overhead expenses per acre	63.78	53.11	69.79	72.21
Total dir & ovhd expenses per acre	382.81	417.55	388.53	352.04
Net return per acre	234.21	29.83	170.25	411.94
Government payments	10.85	11.84	10.15	9.37
Net return with govt pmts	245.06	41.66	180.40	421.31
Labor & management charge	32.56	30.13	26.35	38.79
Net return over lbr & mgt	212.50	11.53	154.05	382.52
Cost of Production				
Total direct expense per bu.	2.38	3.09	2.47	1.91
Total dir & ovhd exp per bu.	2.85	3.54	3.01	2.40
Less govt & other income	2.74	3.36	2.92	2.32
With labor & management	2.99	3.62	3.13	2.59
Net value per unit	4.57	3.71	4.32	5.19
Machinery cost per acre	102.58	93.28	124.65	107.54
Est. labor hours per acre	1.90	2.21	1.83	1.70

Crop Enterprise Analysis
North Dakota Farm Business Management Education
Region 3 - South Central North Dakota, 2010
(Farms Sorted By Net Return)

Corn Silage on Owned Land

	Avg. Of All Farms
Number of fields	10
Number of farms	10
Acres	109.32
Yield per acre (ton)	15.39
Operators share of yield %	100.00
Value per ton	29.41
Total product return per acre	452.46
Gross return per acre	452.46
Direct Expenses	
Seed	70.25
Fertilizer	58.10
Crop chemicals	10.63
Crop insurance	10.05
Fuel & oil	22.49
Repairs	41.57
Custom hire	30.77
Operating interest	3.84
Total direct expenses per acre	247.70
Return over direct exp per acre	204.75
Overhead Expenses	
Hired labor	14.99
Machinery leases	2.60
RE & pers. property taxes	6.02
Farm insurance	3.41
Utilities	3.70
Dues & professional fees	0.45
Interest	48.76
Mach & bldg depreciation	25.24
Miscellaneous	3.54
Total overhead expenses per acre	108.70
Total dir & ovhd expenses per acre	356.41
Net return per acre	96.05
Government payments	9.02
Net return with govt pmts	105.06
Labor & management charge	22.24
Net return over lbr & mgt	82.82
Cost of Production	
Total direct expense per ton	16.10
Total dir & ovhd exp per ton	23.17
Less govt & other income	22.58
With labor & management	24.02
Net value per unit	29.41
Machinery cost per acre	127.00
Est. labor hours per acre	2.20

Crop Enterprise Analysis
North Dakota Farm Business Management Education
Region 3 - South Central North Dakota, 2010
(Farms Sorted By Net Return)

Corn Silage on Cash Rent

	Avg. Of All Farms
Number of fields	11
Number of farms	11
Acres	56.01
Yield per acre (ton)	14.13
Operators share of yield %	100.00
Value per ton	29.78
Total product return per acre	420.73
Gross return per acre	420.73
Direct Expenses	
Seed	71.52
Fertilizer	62.79
Crop chemicals	16.41
Crop insurance	14.83
Fuel & oil	22.74
Repairs	38.99
Custom hire	28.07
Land rent	41.39
Operating interest	2.72
Miscellaneous	0.71
Total direct expenses per acre	300.16
Return over direct exp per acre	120.58
Overhead Expenses	
Custom hire	0.19
Hired labor	10.66
Machinery leases	3.07
Farm insurance	2.90
Utilities	2.86
Interest	3.50
Mach & bldg depreciation	18.80
Miscellaneous	4.28
Total overhead expenses per acre	46.26
Total dir & ovhd expenses per acre	346.41
Net return per acre	74.32
Government payments	10.13
Net return with govt pmts	84.45
Labor & management charge	20.95
Net return over lbr & mgt	63.50
Cost of Production	
Total direct expense per ton	21.25
Total dir & ovhd exp per ton	24.52
Less govt & other income	23.80
With labor & management	25.29
Net value per unit	29.78
Machinery cost per acre	113.45
Est. labor hours per acre	1.80

Crop Enterprise Analysis
North Dakota Farm Business Management Education
Region 3 - South Central North Dakota, 2010
(Farms Sorted By Net Return)

CRP on Owned Land

	Avg. Of All Farms
Number of fields	21
Number of farms	19
Acres	264.54
Yield per acre (\$)	36.00
Operators share of yield %	100.00
Value per \$	1.00
Total product return per acre	36.00
Gross return per acre	36.00
Direct Expenses	
Crop chemicals	0.22
Fuel & oil	0.59
Repairs	0.80
Total direct expenses per acre	1.76
Return over direct exp per acre	34.24
Overhead Expenses	
Hired labor	0.30
RE & pers. property taxes	4.81
Farm insurance	1.30
Utilities	0.59
Dues & professional fees	0.31
Interest	7.79
Mach & bldg depreciation	1.00
Miscellaneous	0.35
Total overhead expenses per acre	16.46
Total dir & ovhd expenses per acre	18.22
Net return per acre	17.78

Crop Enterprise Analysis
North Dakota Farm Business Management Education
Region 3 - South Central North Dakota, 2010
(Farms Sorted By Net Return)

Hay, Alfalfa on Owned Land

	Avg. Of All Farms
Number of fields	15
Number of farms	15
Acres	97.21
Yield per acre (ton)	2.14
Operators share of yield %	100.00
Value per ton	51.87
Total product return per acre	111.23
Gross return per acre	111.23
Direct Expenses	
Crop insurance	1.78
Fuel & oil	14.55
Repairs	17.95
Custom hire	1.65
Operating interest	2.34
Miscellaneous	0.43
Total direct expenses per acre	38.70
Return over direct exp per acre	72.53
Overhead Expenses	
Hired labor	3.68
RE & pers. property taxes	4.26
Farm insurance	2.33
Utilities	2.18
Interest	7.14
Mach & bldg depreciation	14.12
Miscellaneous	1.87
Total overhead expenses per acre	35.57
Total dir & ovhd expenses per acre	74.27
Net return per acre	36.96
Government payments	7.65
Net return with govt pmts	44.60
Labor & management charge	17.10
Net return over lbr & mgt	27.51
Cost of Production	
Total direct expense per ton	18.05
Total dir & ovhd exp per ton	34.64
Less govt & other income	31.07
With labor & management	39.04
Net value per unit	51.87
Machinery cost per acre	49.52
Est. labor hours per acre	1.24

Crop Enterprise Analysis
North Dakota Farm Business Management Education
Region 3 - South Central North Dakota, 2010
(Farms Sorted By Net Return)

Hay, Alfalfa on Cash Rent

	Avg. Of All Farms
Number of fields	10
Number of farms	9
Acres	86.39
Yield per acre (ton)	2.70
Operators share of yield %	100.00
Value per ton	55.26
Total product return per acre	149.16
Gross return per acre	149.16
Direct Expenses	
Seed	2.32
Fertilizer	3.09
Crop insurance	1.55
Fuel & oil	14.69
Repairs	16.69
Custom hire	0.89
Land rent	35.05
Operating interest	2.13
Miscellaneous	4.06
Total direct expenses per acre	80.48
Return over direct exp per acre	68.67
Overhead Expenses	
Hired labor	4.29
Machinery leases	1.01
Farm insurance	2.36
Utilities	2.61
Interest	2.84
Mach & bldg depreciation	18.20
Miscellaneous	0.98
Total overhead expenses per acre	32.30
Total dir & ovhd expenses per acre	112.78
Net return per acre	36.38
Government payments	10.92
Net return with govt pmts	47.30
Labor & management charge	20.13
Net return over lbr & mgt	27.17
Cost of Production	
Total direct expense per ton	29.82
Total dir & ovhd exp per ton	41.78
Less govt & other income	37.74
With labor & management	45.19
Net value per unit	55.26
Machinery cost per acre	52.32
Est. labor hours per acre	1.27

Crop Enterprise Analysis
North Dakota Farm Business Management Education
Region 3 - South Central North Dakota, 2010
(Farms Sorted By Net Return)

Hay, Grass on Owned Land

	Avg. Of All Farms
Number of fields	9
Number of farms	9
Acres	153.67
Yield per acre (ton)	1.21
Operators share of yield %	100.00
Value per ton	33.75
Total product return per acre	40.79
Gross return per acre	40.79
Direct Expenses	
Fuel & oil	9.86
Repairs	9.90
Custom hire	3.48
Operating interest	1.25
Miscellaneous	2.08
Total direct expenses per acre	26.56
Return over direct exp per acre	14.22
Overhead Expenses	
Hired labor	3.90
RE & pers. property taxes	1.46
Farm insurance	0.80
Utilities	0.91
Interest	1.64
Mach & bldg depreciation	11.32
Miscellaneous	2.42
Total overhead expenses per acre	22.46
Total dir & ovhd expenses per acre	49.02
Net return per acre	-8.23
Government payments	0.48
Net return with govt pmts	-7.76
Labor & management charge	14.02
Net return over lbr & mgt	-21.78
Cost of Production	
Total direct expense per ton	21.98
Total dir & ovhd exp per ton	40.56
Less govt & other income	40.17
With labor & management	51.77
Net value per unit	33.75
Machinery cost per acre	34.40
Est. labor hours per acre	1.03

Crop Enterprise Analysis
North Dakota Farm Business Management Education
Region 3 - South Central North Dakota, 2010
(Farms Sorted By Net Return)

Hay, Grass on Cash Rent

	Avg. Of All Farms
Number of fields	12
Number of farms	9
Acres	211.27
Yield per acre (ton)	1.38
Operators share of yield %	100.00
Value per ton	40.78
Total product return per acre	56.20
Gross return per acre	56.20
Direct Expenses	
Fuel & oil	9.22
Repairs	16.71
Land rent	14.70
Operating interest	1.05
Miscellaneous	2.07
Total direct expenses per acre	43.76
Return over direct exp per acre	12.44
Overhead Expenses	
Hired labor	7.05
Machinery leases	1.31
Farm insurance	1.11
Utilities	0.85
Dues & professional fees	0.34
Interest	0.99
Mach & bldg depreciation	10.26
Miscellaneous	3.60
Total overhead expenses per acre	25.52
Total dir & ovhd expenses per acre	69.28
Net return per acre	-13.08
Government payments	-
Net return with govt pmts	-13.08
Labor & management charge	10.77
Net return over lbr & mgt	-23.85
Cost of Production	
Total direct expense per ton	31.75
Total dir & ovhd exp per ton	50.27
Less govt & other income	50.27
With labor & management	58.08
Net value per unit	40.78
Machinery cost per acre	37.88
Est. labor hours per acre	0.93

Crop Enterprise Analysis
North Dakota Farm Business Management Education
Region 3 - South Central North Dakota, 2010
(Farms Sorted By Net Return)

Hay, Mixed Alfalfa/Grass on Owned Land

	Avg. Of All Farms
Number of fields	24
Number of farms	12
Acres	73.50
Yield per acre (ton)	1.77
Operators share of yield %	100.00
Value per ton	42.90
Other product return per acre	9.25
Total product return per acre	85.16
Gross return per acre	85.16
Direct Expenses	
Crop insurance	0.77
Fuel & oil	8.17
Repairs	10.14
Custom hire	3.69
Operating interest	3.03
Miscellaneous	1.01
Total direct expenses per acre	26.80
Return over direct exp per acre	58.36
Overhead Expenses	
Hired labor	1.77
Machinery leases	1.01
RE & pers. property taxes	4.53
Farm insurance	2.91
Utilities	2.74
Interest	12.54
Mach & bldg depreciation	11.46
Miscellaneous	1.87
Total overhead expenses per acre	38.83
Total dir & ovhd expenses per acre	65.63
Net return per acre	19.54
Government payments	8.71
Net return with govt pmts	28.24
Labor & management charge	15.08
Net return over lbr & mgt	13.16
Cost of Production	
Total direct expense per ton	15.15
Total dir & ovhd exp per ton	37.09
Less govt & other income	26.94
With labor & management	35.46
Net value per unit	42.90
Machinery cost per acre	36.24
Est. labor hours per acre	1.06

Crop Enterprise Analysis
North Dakota Farm Business Management Education
Region 3 - South Central North Dakota, 2010
(Farms Sorted By Net Return)

Hay, Mixed Alfalfa/Grass on Cash Rent

	Avg. Of All Farms
Number of fields	22
Number of farms	18
Acres	241.38
Yield per acre (ton)	1.95
Operators share of yield %	100.00
Value per ton	42.04
Total product return per acre	82.11
Gross return per acre	82.11
Direct Expenses	
Crop insurance	0.41
Fuel & oil	10.27
Repairs	13.44
Custom hire	0.60
Land rent	19.09
Operating interest	2.21
Miscellaneous	0.88
Total direct expenses per acre	46.89
Return over direct exp per acre	35.23
Overhead Expenses	
Hired labor	1.41
Machinery leases	0.44
Farm insurance	3.81
Utilities	2.65
Interest	4.12
Mach & bldg depreciation	9.18
Miscellaneous	2.98
Total overhead expenses per acre	24.57
Total dir & ovhd expenses per acre	71.45
Net return per acre	10.66
Government payments	2.22
Net return with govt pmts	12.88
Labor & management charge	14.06
Net return over lbr & mgt	-1.18
Cost of Production	
Total direct expense per ton	24.00
Total dir & ovhd exp per ton	36.58
Less govt & other income	35.44
With labor & management	42.64
Net value per unit	42.04
Machinery cost per acre	37.78
Est. labor hours per acre	1.13

Crop Enterprise Analysis
North Dakota Farm Business Management Education
Region 3 - South Central North Dakota, 2010
(Farms Sorted By Net Return)

Pasture on Owned Land

	<u>Avg. Of All Farms</u>	<u>Low 20%</u>	<u>40 - 60%</u>	<u>High 20%</u>
Number of fields	45	6	6	19
Number of farms	33	6	6	7
Acres	378.48	116.00	401.98	490.72
Yield per acre (aum)	1.04	0.95	0.86	1.16
Operators share of yield %	100.00	100.00	100.00	100.00
Value per aum	20.67	18.30	18.65	21.84
Total product return per acre	21.42	17.46	15.95	25.38
Other crop income per acre	0.19	-	-	0.35
Gross return per acre	21.62	17.46	15.95	25.73
Direct Expenses				
Seed	0.52	-	-	0.94
Crop insurance	0.48	0.35	-	0.57
Fuel & oil	0.62	1.02	0.59	0.56
Repairs	0.77	2.60	0.86	0.63
Custom hire	0.32	-	-	0.56
Total direct expenses per acre	3.16	4.25	1.77	3.87
Return over direct exp per acre	18.46	13.21	14.19	21.86
Overhead Expenses				
RE & pers. property taxes	2.06	4.15	2.68	1.54
Farm insurance	0.33	1.00	0.23	0.13
Dues & professional fees	0.04	0.66	0.03	0.00
Interest	3.22	19.24	4.31	1.01
Mach & bldg depreciation	0.73	0.62	0.41	0.85
Miscellaneous	0.95	1.32	0.53	1.10
Total overhead expenses per acre	7.33	26.99	8.19	4.64
Total dir & ovhd expenses per acre	10.48	31.24	9.96	8.51
Net return per acre	11.13	-13.78	6.00	17.22

Crop Enterprise Analysis
North Dakota Farm Business Management Education
Region 3 - South Central North Dakota, 2010
(Farms Sorted By Net Return)

Pasture on Cash Rent

	<u>Avg. Of All Farms</u>	<u>Low 20%</u>	<u>40 - 60%</u>	<u>High 20%</u>
Number of fields	62	9	13	14
Number of farms	45	9	9	9
Acres	605.10	498.78	508.17	579.63
Yield per acre (aum)	0.97	0.87	0.77	1.54
Operators share of yield %	100.00	100.00	100.00	100.00
Value per aum	18.06	21.52	19.44	15.65
Total product return per acre	17.43	18.72	14.87	24.04
Other crop income per acre	0.33	-	-	1.52
Gross return per acre	17.76	18.72	14.87	25.56
Direct Expenses				
Fuel & oil	0.68	1.50	0.59	0.61
Repairs	0.91	2.67	0.59	0.77
Land rent	13.41	19.95	12.99	9.43
Total direct expenses per acre	15.46	24.43	14.33	11.08
Return over direct exp per acre	2.29	-5.71	0.54	14.48
Overhead Expenses				
Farm insurance	0.26	1.04	0.21	0.25
Interest	0.24	0.84	0.09	0.12
Mach & bldg depreciation	0.60	1.12	0.43	0.91
Miscellaneous	0.78	2.03	0.51	0.70
Total overhead expenses per acre	1.89	5.03	1.23	1.99
Total dir & ovhd expenses per acre	17.35	29.46	15.56	13.07
Net return per acre	0.41	-10.74	-0.69	12.49

Crop Enterprise Analysis
North Dakota Farm Business Management Education
Region 3 - South Central North Dakota, 2010
(Farms Sorted By Net Return)

Peas, Field on Cash Rent

	Avg. Of All Farms
Number of fields	9
Number of farms	8
Acres	141.78
Yield per acre (bu.)	46.84
Operators share of yield %	100.00
Value per bu.	5.48
Total product return per acre	256.57
Gross return per acre	256.57
Direct Expenses	
Seed	22.95
Fertilizer	12.57
Crop chemicals	47.61
Crop insurance	5.44
Drying expense	0.84
Fuel & oil	12.81
Repairs	16.60
Custom hire	8.30
Land rent	38.96
Operating interest	6.13
Total direct expenses per acre	172.20
Return over direct exp per acre	84.38
Overhead Expenses	
Custom hire	1.73
Hired labor	8.90
Machinery leases	1.73
Farm insurance	2.15
Utilities	3.18
Dues & professional fees	0.14
Interest	4.25
Mach & bldg depreciation	21.46
Miscellaneous	5.58
Total overhead expenses per acre	49.12
Total dir & ovhd expenses per acre	221.32
Net return per acre	35.26
Government payments	17.21
Net return with govt pmts	52.47
Labor & management charge	27.85
Net return over lbr & mgt	24.62
Cost of Production	
Total direct expense per bu.	3.68
Total dir & ovhd exp per bu.	4.73
Less govt & other income	4.36
With labor & management	4.95
Net value per unit	5.48
Machinery cost per acre	64.88
Est. labor hours per acre	1.31

Crop Enterprise Analysis
North Dakota Farm Business Management Education
Region 3 - South Central North Dakota, 2010
(Farms Sorted By Net Return)

Prevented planting on Owned Land

	<u>Avg. Of All Farms</u>	<u>Low 20%</u>	<u>40 - 60%</u>	<u>High 20%</u>
Number of fields	33	5	8	9
Number of farms	27	5	6	6
Acres	86.95	106.24	57.40	85.60
Yield per acre	-	-	-	-
Operators share of yield %	-	-	-	-
Value per 0	-	-	-	-
Total product return per acre	-	-	-	-
Crop insurance per acre	137.36	86.01	111.94	170.05
Gross return per acre	137.36	86.01	111.94	170.05
Direct Expenses				
Crop chemicals	2.34	3.20	0.83	0.01
Crop insurance	11.96	13.55	7.50	11.22
Fuel & oil	4.46	5.81	2.30	3.46
Repairs	5.33	7.20	2.20	3.27
Custom hire	1.06	3.34	0.10	0.88
Operating interest	2.00	2.84	0.32	1.05
Total direct expenses per acre	27.87	35.93	13.26	19.88
Return over direct exp per acre	109.48	50.08	98.68	150.17
Overhead Expenses				
Hired labor	1.79	1.37	0.87	2.49
RE & pers. property taxes	5.84	4.73	6.43	6.75
Farm insurance	3.54	3.32	3.17	2.86
Utilities	3.43	8.23	2.02	1.71
Dues & professional fees	0.81	0.57	1.41	0.44
Interest	19.42	9.05	13.13	24.38
Mach & bldg depreciation	6.23	7.97	2.56	3.82
Miscellaneous	3.68	2.57	2.82	1.59
Total overhead expenses per acre	44.73	37.81	32.41	44.04
Total dir & ovhd expenses per acre	72.61	73.74	45.67	63.93
Net return per acre	64.75	12.27	66.27	106.13
Government payments	13.17	12.11	13.53	14.69
Net return with govt pmts	77.92	24.38	79.80	120.82
Labor & management charge	7.22	8.01	3.90	4.87
Net return over lbr & mgt	70.70	16.37	75.90	115.95

Crop Enterprise Analysis
North Dakota Farm Business Management Education
Region 3 - South Central North Dakota, 2010
(Farms Sorted By Net Return)

Prevented planting on Cash Rent

	<u>Avg. Of All Farms</u>	<u>Low 20%</u>	<u>40 - 60%</u>	<u>High 20%</u>
Number of fields	80	14	19	13
Number of farms	59	11	12	12
Acres	176.60	156.67	177.53	303.56
Yield per acre (\$)	-	-	-	-
Operators share of yield %	-	-	-	-
Value per \$	-	-	-	-
Total product return per acre	-	-	-	-
Crop insurance per acre	163.53	104.97	135.69	233.10
Gross return per acre	163.53	104.97	135.69	233.10
Direct Expenses				
Seed	0.20	-	-	0.58
Fertilizer	0.48	1.91	-	0.66
Crop chemicals	3.74	3.12	0.99	5.12
Crop insurance	13.75	13.49	12.76	15.98
Fuel & oil	4.04	4.38	1.62	4.80
Repairs	5.89	5.69	2.89	6.96
Custom hire	1.34	1.59	0.99	0.60
Land rent	55.11	68.50	61.66	51.41
Machinery leases	0.16	-	0.65	-
Operating interest	1.11	1.05	0.50	1.37
Total direct expenses per acre	86.05	99.74	82.07	87.50
Return over direct exp per acre	77.48	5.22	53.62	145.61
Overhead Expenses				
Hired labor	2.28	1.52	0.93	3.06
Machinery leases	0.43	0.11	0.16	0.62
Farm insurance	2.69	2.88	2.08	2.38
Utilities	1.75	1.57	1.14	1.58
Dues & professional fees	0.94	0.69	0.32	1.04
Interest	2.75	2.56	3.83	2.94
Mach & bldg depreciation	5.76	4.66	3.36	6.37
Miscellaneous	4.26	5.75	1.92	2.62
Total overhead expenses per acre	20.86	19.76	13.74	20.61
Total dir & ovhd expenses per acre	106.91	119.50	95.81	108.10
Net return per acre	56.62	-14.53	39.88	125.00
Government payments	11.79	9.62	10.44	14.27
Net return with govt pmts	68.41	-4.91	50.31	139.27
Labor & management charge	6.21	6.72	2.67	6.94
Net return over lbr & mgt	62.20	-11.63	47.64	132.33

Crop Enterprise Analysis
North Dakota Farm Business Management Education
Region 3 - South Central North Dakota, 2010
(Farms Sorted By Net Return)

Soybeans on Owned Land

	<u>Avg. Of All Farms</u>	<u>Low 20%</u>	<u>40 - 60%</u>	<u>High 20%</u>
Number of fields	52	12	12	8
Number of farms	40	8	8	8
Acres	273.19	240.98	166.18	373.81
Yield per acre (bu.)	34.03	29.71	34.30	40.18
Operators share of yield %	100.00	100.00	100.00	100.00
Value per bu.	10.56	9.77	10.39	11.74
Total product return per acre	359.26	290.18	356.45	471.91
Crop insurance per acre	2.04	-	10.28	-
Gross return per acre	361.31	290.18	366.74	471.91
Direct Expenses				
Seed	54.40	58.45	50.58	51.15
Fertilizer	14.41	18.66	19.34	9.35
Crop chemicals	15.04	22.78	13.99	11.93
Crop insurance	16.58	19.15	12.49	15.13
Fuel & oil	14.10	14.76	10.53	14.35
Repairs	19.17	24.94	15.53	21.79
Custom hire	8.47	10.62	23.33	7.26
Machinery leases	0.22	0.70	-	0.14
Operating interest	4.77	12.24	4.16	2.39
Miscellaneous	0.52	1.21	-	-
Total direct expenses per acre	147.68	183.52	149.95	133.49
Return over direct exp per acre	213.63	106.66	216.78	338.41
Overhead Expenses				
Hired labor	4.97	6.74	1.39	4.44
Machinery leases	1.41	0.69	5.67	0.42
RE & pers. property taxes	6.69	7.32	7.90	5.64
Farm insurance	3.79	6.02	3.67	2.49
Utilities	2.77	3.59	2.95	2.13
Dues & professional fees	0.83	1.33	0.67	0.42
Interest	19.03	30.60	18.50	15.71
Mach & bldg depreciation	20.30	18.15	11.98	27.70
Miscellaneous	4.57	6.71	3.06	5.51
Total overhead expenses per acre	64.35	81.14	55.79	64.45
Total dir & ovhd expenses per acre	212.03	264.66	205.74	197.95
Net return per acre	149.27	25.52	161.00	273.96
Government payments	11.91	14.05	12.31	10.04
Net return with govt pmts	161.18	39.57	173.31	284.00
Labor & management charge	24.07	30.95	17.39	25.15
Net return over lbr & mgt	137.11	8.62	155.93	258.85
Cost of Production				
Total direct expense per bu.	4.34	6.18	4.37	3.32
Total dir & ovhd exp per bu.	6.23	8.91	6.00	4.93
Less govt & other income	5.82	8.43	5.34	4.68
With labor & management	6.53	9.48	5.85	5.30
Net value per unit	10.57	9.77	10.39	11.74
Machinery cost per acre	66.66	75.87	67.54	72.67
Est. labor hours per acre	1.39	1.92	1.16	1.25

Crop Enterprise Analysis
North Dakota Farm Business Management Education
Region 3 - South Central North Dakota, 2010
(Farms Sorted By Net Return)

Soybeans on Cash Rent

	<u>Avg. Of</u> <u>All Farms</u>	<u>Low 20%</u>	<u>40 - 60%</u>	<u>High 20%</u>
Number of fields	97	12	21	21
Number of farms	60	12	12	12
Acres	439.49	554.98	478.56	477.24
Yield per acre (bu.)	35.30	30.21	35.89	38.84
Operators share of yield %	100.00	100.00	100.00	100.00
Value per bu.	10.55	9.69	10.12	12.12
Total product return per acre	372.24	292.71	363.33	470.54
Crop insurance per acre	0.81	0.52	-	1.74
Gross return per acre	373.05	293.23	363.33	472.28
Direct Expenses				
Seed	52.19	54.92	51.60	50.17
Fertilizer	11.83	21.02	9.61	7.11
Crop chemicals	13.50	21.05	12.35	11.28
Crop insurance	15.42	17.20	14.14	13.53
Fuel & oil	14.86	15.56	17.50	13.67
Repairs	23.24	22.82	30.06	21.41
Custom hire	5.49	16.93	6.40	0.62
Land rent	50.63	61.74	51.96	48.46
Machinery leases	0.42	0.74	0.35	0.31
Operating interest	3.48	8.08	2.63	1.24
Miscellaneous	0.22	0.34	0.11	0.01
Total direct expenses per acre	191.28	240.38	196.72	167.83
Return over direct exp per acre	181.77	52.85	166.61	304.45
Overhead Expenses				
Hired labor	8.34	10.74	12.81	8.94
Machinery leases	3.65	1.45	3.49	4.50
Farm insurance	3.10	3.86	3.26	2.69
Utilities	2.36	4.26	2.18	2.40
Dues & professional fees	1.04	1.81	0.44	1.99
Interest	3.10	3.96	4.04	1.39
Mach & bldg depreciation	21.83	17.99	19.89	25.35
Miscellaneous	5.39	6.67	3.42	8.11
Total overhead expenses per acre	48.82	50.74	49.53	55.38
Total dir & ovhd expenses per acre	240.10	291.12	246.26	223.21
Net return per acre	132.95	2.10	117.07	249.07
Government payments	11.08	12.75	10.49	9.61
Net return with govt pmts	144.03	14.85	127.56	258.69
Labor & management charge	22.24	21.51	20.98	21.41
Net return over lbr & mgt	121.79	-6.65	106.58	237.28
Cost of Production				
Total direct expense per bu.	5.42	7.96	5.48	4.32
Total dir & ovhd exp per bu.	6.80	9.64	6.86	5.75
Less govt & other income	6.46	9.20	6.57	5.46
With labor & management	7.09	9.91	7.15	6.01
Net value per unit	10.55	9.69	10.12	12.12
Machinery cost per acre	71.39	79.15	80.45	66.10
Est. labor hours per acre	1.21	1.52	1.38	1.03

Crop Enterprise Analysis
North Dakota Farm Business Management Education
Region 3 - South Central North Dakota, 2010
(Farms Sorted By Net Return)

Soybeans on Share Rent

	Avg. Of All Farms
Number of fields	6
Number of farms	6
Acres	334.00
Yield per acre (bu.)	32.50
Operators share of yield %	67.71
Value per bu.	10.55
Total product return per acre	232.23
Gross return per acre	232.23
Direct Expenses	
Seed	56.06
Fertilizer	6.94
Crop chemicals	16.49
Crop insurance	12.40
Fuel & oil	12.02
Repairs	16.13
Custom hire	1.12
Machinery leases	3.27
Operating interest	4.64
Total direct expenses per acre	129.07
Return over direct exp per acre	103.17
Overhead Expenses	
Hired labor	8.06
Building leases	0.72
Farm insurance	2.85
Utilities	1.67
Dues & professional fees	0.53
Interest	8.06
Mach & bldg depreciation	19.90
Miscellaneous	3.79
Total overhead expenses per acre	45.58
Total dir & ovhd expenses per acre	174.65
Net return per acre	57.59
Government payments	5.57
Net return with govt pmts	63.16
Labor & management charge	20.22
Net return over lbr & mgt	42.94
Cost of Production	
Total direct expense per bu.	5.87
Total dir & ovhd exp per bu.	7.94
Less govt & other income	7.68
With labor & management	8.60
Net value per unit	10.55
Machinery cost per acre	59.70
Est. labor hours per acre	1.24

Crop Enterprise Analysis
North Dakota Farm Business Management Education
Region 3 - South Central North Dakota, 2010
(Farms Sorted By Net Return)

Sunflowers on Owned Land

	Avg. Of All Farms
Number of fields	16
Number of farms	13
Acres	180.64
Yield per acre (cwt.)	16.61
Operators share of yield %	100.00
Value per cwt.	20.81
Total product return per acre	345.59
Crop insurance per acre	8.14
Gross return per acre	353.73
Direct Expenses	
Seed	33.13
Fertilizer	44.38
Crop chemicals	39.66
Crop insurance	11.96
Drying expense	1.13
Storage	0.33
Fuel & oil	16.82
Repairs	15.79
Custom hire	9.19
Operating interest	2.44
Total direct expenses per acre	174.83
Return over direct exp per acre	178.91
Overhead Expenses	
Hired labor	5.43
Machinery leases	0.82
RE & pers. property taxes	4.38
Farm insurance	2.40
Utilities	2.17
Dues & professional fees	0.95
Interest	5.12
Mach & bldg depreciation	30.18
Miscellaneous	5.13
Total overhead expenses per acre	56.58
Total dir & ovhd expenses per acre	231.40
Net return per acre	122.33
Government payments	15.39
Net return with govt pmts	137.72
Labor & management charge	28.11
Net return over lbr & mgt	109.61
Cost of Production	
Total direct expense per cwt.	10.53
Total dir & ovhd exp per cwt.	13.93
Less govt & other income	12.51
With labor & management	14.21
Net value per unit	20.81
Machinery cost per acre	71.43
Est. labor hours per acre	1.17

Crop Enterprise Analysis
North Dakota Farm Business Management Education
Region 3 - South Central North Dakota, 2010
(Farms Sorted By Net Return)

Sunflowers on Cash Rent

	<u>Avg. Of All Farms</u>	<u>High 20%</u>
Number of fields	32	8
Number of farms	21	5
Acres	250.70	379.04
Yield per acre (cwt.)	17.39	19.99
Operators share of yield %	100.00	100.00
Value per cwt.	20.79	21.76
Total product return per acre	361.66	434.98
Crop insurance per acre	0.54	-
Other crop income per acre	0.50	-
Gross return per acre	362.70	434.98
Direct Expenses		
Seed	35.01	33.49
Fertilizer	42.65	34.96
Crop chemicals	38.77	47.85
Crop insurance	12.51	10.81
Drying expense	0.73	1.93
Fuel & oil	15.38	14.65
Repairs	15.77	13.60
Custom hire	10.02	10.07
Land rent	38.56	37.47
Operating interest	2.89	1.41
Total direct expenses per acre	212.50	206.69
Return over direct exp per acre	150.20	228.30
Overhead Expenses		
Custom hire	1.16	-
Hired labor	5.33	7.19
Machinery leases	1.16	0.36
Farm insurance	2.41	2.59
Utilities	2.30	2.25
Interest	1.87	1.30
Mach & bldg depreciation	23.17	23.42
Miscellaneous	5.32	4.41
Total overhead expenses per acre	42.72	41.53
Total dir & ovhd expenses per acre	255.21	248.21
Net return per acre	107.49	186.77
Government payments	12.43	11.96
Net return with govt pmts	119.92	198.73
Labor & management charge	25.87	23.31
Net return over lbr & mgt	94.05	175.42
Cost of Production		
Total direct expense per cwt.	12.22	10.34
Total dir & ovhd exp per cwt.	14.67	12.42
Less govt & other income	13.90	11.82
With labor & management	15.39	12.98
Net value per unit	20.79	21.76
Machinery cost per acre	66.63	61.01
Est. labor hours per acre	1.19	1.03

Crop Enterprise Analysis
North Dakota Farm Business Management Education
Region 3 - South Central North Dakota, 2010
(Farms Sorted By Net Return)

Wheat, Durum on Cash Rent

	Avg. Of All Farms
Number of fields	9
Number of farms	9
Acres	329.64
Yield per acre (bu.)	50.46
Operators share of yield %	100.00
Value per bu.	6.74
Total product return per acre	339.98
LDP income per acre	87.76
Other crop income per acre	3.27
Gross return per acre	431.01
Direct Expenses	
Seed	15.07
Fertilizer	47.73
Crop chemicals	23.27
Crop insurance	10.10
Drying expense	1.40
Fuel & oil	12.73
Repairs	15.75
Custom hire	10.24
Land rent	36.49
Operating interest	2.16
Total direct expenses per acre	174.95
Return over direct exp per acre	256.06
Overhead Expenses	
Hired labor	5.57
Farm insurance	3.45
Utilities	3.40
Dues & professional fees	0.31
Interest	2.28
Mach & bldg depreciation	21.44
Miscellaneous	7.30
Total overhead expenses per acre	43.75
Total dir & ovhd expenses per acre	218.69
Net return per acre	212.32
Government payments	9.08
Net return with govt pmts	221.39
Labor & management charge	25.53
Net return over lbr & mgt	195.86
Cost of Production	
Total direct expense per bu.	3.47
Total dir & ovhd exp per bu.	4.33
Less govt & other income	2.35
With labor & management	2.86
Net value per unit	8.48
Machinery cost per acre	60.98
Est. labor hours per acre	1.35

Crop Enterprise Analysis
North Dakota Farm Business Management Education
Region 3 - South Central North Dakota, 2010
(Farms Sorted By Net Return)

Wheat, Spring on Owned Land

	<u>Avg. Of All Farms</u>	<u>Low 20%</u>	<u>40 - 60%</u>	<u>High 20%</u>
Number of fields	59	9	13	13
Number of farms	42	8	9	9
Acres	233.60	167.81	191.59	332.15
Yield per acre (bu.)	53.33	36.52	50.60	61.77
Operators share of yield %	100.00	100.00	100.00	100.00
Value per bu.	6.82	6.15	6.92	7.30
Other product return per acre	0.04	-	-	-
Total product return per acre	363.64	224.74	350.41	451.11
Crop insurance per acre	2.23	9.91	4.09	-
Gross return per acre	365.87	234.65	354.50	451.11
Direct Expenses				
Seed	15.57	13.45	16.97	15.61
Fertilizer	50.75	53.13	54.50	43.70
Crop chemicals	25.93	27.39	23.59	24.64
Crop insurance	13.24	11.62	13.38	12.32
Drying expense	0.68	-	0.83	1.34
Fuel & oil	12.82	14.42	12.22	13.17
Repairs	17.15	17.20	28.23	12.65
Custom hire	8.10	6.41	8.67	2.69
Operating interest	2.69	7.26	1.91	2.33
Miscellaneous	0.48	-	-	0.66
Total direct expenses per acre	147.42	150.88	160.30	129.11
Return over direct exp per acre	218.45	83.77	194.20	322.00
Overhead Expenses				
Hired labor	4.10	0.97	4.15	6.60
Machinery leases	0.62	0.07	0.01	0.74
RE & pers. property taxes	5.41	5.06	6.84	4.81
Farm insurance	3.12	3.81	3.76	3.10
Utilities	2.35	3.61	2.20	2.03
Dues & professional fees	0.60	0.14	0.45	1.19
Interest	14.63	16.28	20.79	12.86
Mach & bldg depreciation	20.17	16.35	15.02	24.32
Miscellaneous	4.74	6.87	3.44	4.01
Total overhead expenses per acre	55.74	53.16	56.65	59.67
Total dir & ovhd expenses per acre	203.16	204.03	216.95	188.78
Net return per acre	162.71	30.62	137.55	262.33
Government payments	12.83	15.85	10.36	12.73
Net return with govt pmnts	175.54	46.47	147.91	275.06
Labor & management charge	22.53	23.48	15.17	24.66
Net return over lbr & mgt	153.01	22.99	132.74	250.40
Cost of Production				
Total direct expense per bu.	2.76	4.13	3.17	2.09
Total dir & ovhd exp per bu.	3.81	5.59	4.29	3.06
Less govt & other income	3.53	4.88	4.00	2.85
With labor & management	3.95	5.52	4.30	3.25
Net value per unit	6.82	6.15	6.92	7.30
Machinery cost per acre	60.41	57.71	64.42	56.89
Est. labor hours per acre	1.18	1.51	1.05	1.04

Crop Enterprise Analysis
North Dakota Farm Business Management Education
Region 3 - South Central North Dakota, 2010
(Farms Sorted By Net Return)

Wheat, Spring on Cash Rent

	<u>Avg. Of All Farms</u>	<u>Low 20%</u>	<u>40 - 60%</u>	<u>High 20%</u>
Number of fields	81	14	12	25
Number of farms	50	10	10	10
Acres	343.72	209.74	452.78	323.70
Yield per acre (bu.)	55.74	42.35	57.08	62.05
Operators share of yield %	100.00	100.00	100.00	100.00
Value per bu.	6.77	5.93	6.41	7.21
Other product return per acre	0.01	-	0.07	-
Total product return per acre	377.39	251.28	366.24	447.64
Crop insurance per acre	0.15	1.02	0.20	-
Gross return per acre	377.54	252.30	366.43	447.64
Direct Expenses				
Seed	16.58	15.22	18.61	15.72
Fertilizer	54.06	62.51	45.04	46.78
Crop chemicals	28.40	25.61	32.14	24.92
Crop insurance	13.33	14.68	11.28	11.81
Drying expense	0.79	-	0.72	2.19
Fuel & oil	12.73	13.93	12.64	13.04
Repairs	15.96	17.88	18.15	12.01
Custom hire	4.89	3.58	5.01	5.11
Land rent	46.18	53.16	42.46	43.80
Operating interest	2.97	4.62	3.37	1.75
Miscellaneous	0.31	0.12	1.00	0.34
Total direct expenses per acre	196.19	211.32	190.40	177.46
Return over direct exp per acre	181.34	40.98	176.04	270.18
Overhead Expenses				
Custom hire	0.25	2.29	0.04	-
Hired labor	5.68	6.53	5.51	6.82
Machinery leases	5.52	2.09	0.90	3.23
Farm insurance	2.50	1.62	2.79	2.47
Utilities	2.22	2.54	1.93	2.33
Dues & professional fees	0.66	1.08	0.21	0.62
Interest	2.59	3.53	3.24	1.83
Mach & bldg depreciation	19.96	13.58	26.27	20.79
Miscellaneous	4.99	4.32	5.94	3.56
Total overhead expenses per acre	44.38	37.58	46.82	41.66
Total dir & ovhd expenses per acre	240.57	248.90	237.22	219.11
Net return per acre	136.96	3.40	129.21	228.52
Government payments	12.67	10.80	12.56	12.13
Net return with govt pmts	149.63	14.21	141.77	240.65
Labor & management charge	23.27	18.56	22.50	25.36
Net return over lbr & mgt	126.36	-4.36	119.28	215.30
Cost of Production				
Total direct expense per bu.	3.52	4.99	3.34	2.86
Total dir & ovhd exp per bu.	4.32	5.88	4.16	3.53
Less govt & other income	4.09	5.60	3.93	3.34
With labor & management	4.50	6.04	4.33	3.74
Net value per unit	6.77	5.93	6.41	7.21
Machinery cost per acre	60.42	56.64	65.28	53.86
Est. labor hours per acre	1.04	1.26	0.93	1.06

Crop Enterprise Analysis
North Dakota Farm Business Management Education
Region 3 - South Central North Dakota, 2010
(Farms Sorted By Net Return)

Wheat, Spring on Share Rent

	Avg. Of All Farms
Number of fields	10
Number of farms	10
Acres	221.96
Yield per acre (bu.)	45.93
Operators share of yield %	68.27
Value per bu.	7.58
Total product return per acre	237.70
Crop insurance per acre	4.45
Gross return per acre	242.14
Direct Expenses	
Seed	13.89
Fertilizer	41.66
Crop chemicals	19.27
Crop insurance	10.74
Drying expense	0.11
Fuel & oil	11.76
Repairs	19.24
Custom hire	11.08
Operating interest	3.05
Total direct expenses per acre	131.21
Return over direct exp per acre	110.94
Overhead Expenses	
Hired labor	7.12
Machinery leases	3.70
Building leases	0.37
Farm insurance	2.88
Utilities	1.76
Dues & professional fees	0.49
Interest	6.33
Mach & bldg depreciation	18.03
Miscellaneous	4.50
Total overhead expenses per acre	45.17
Total dir & ovhd expenses per acre	176.37
Net return per acre	65.77
Government payments	6.99
Net return with govt pmts	72.77
Labor & management charge	20.30
Net return over lbr & mgt	52.47
Cost of Production	
Total direct expense per bu.	4.18
Total dir & ovhd exp per bu.	5.62
Less govt & other income	5.26
With labor & management	5.91
Net value per unit	7.58
Machinery cost per acre	69.39
Est. labor hours per acre	1.33

Crop Enterprise Analysis
North Dakota Farm Business Management Education
Region 3 - South Central North Dakota, 2010
(Farms Sorted By Net Return)

Wheat, Winter on Owned Land

	Avg. Of All Farms
Number of fields	7
Number of farms	7
Acres	71.96
Yield per acre (bu.)	53.68
Operators share of yield %	100.00
Value per bu.	5.03
Total product return per acre	269.94
Gross return per acre	269.94
Direct Expenses	
Seed	11.57
Fertilizer	52.62
Crop chemicals	25.57
Crop insurance	10.73
Storage	0.39
Fuel & oil	10.29
Repairs	15.08
Custom hire	8.11
Operating interest	2.97
Total direct expenses per acre	137.32
Return over direct exp per acre	132.62
Overhead Expenses	
Hired labor	6.20
Machinery leases	0.27
RE & pers. property taxes	5.39
Farm insurance	2.35
Utilities	2.49
Dues & professional fees	0.20
Interest	14.58
Mach & bldg depreciation	17.14
Miscellaneous	4.43
Total overhead expenses per acre	53.04
Total dir & ovhd expenses per acre	190.36
Net return per acre	79.58
Government payments	12.03
Net return with govt pmts	91.61
Labor & management charge	18.17
Net return over lbr & mgt	73.44
Cost of Production	
Total direct expense per bu.	2.56
Total dir & ovhd exp per bu.	3.55
Less govt & other income	3.32
With labor & management	3.66
Net value per unit	5.03
Machinery cost per acre	52.24
Est. labor hours per acre	1.17

Crop Enterprise Analysis
North Dakota Farm Business Management Education
Region 3 - South Central North Dakota, 2010
(Farms Sorted By Net Return)

Wheat, Winter on Cash Rent

	Avg. Of All Farms
Number of fields	11
Number of farms	9
Acres	185.07
Yield per acre (bu.)	56.62
Operators share of yield %	100.00
Value per bu.	5.34
Total product return per acre	302.10
Gross return per acre	302.10
Direct Expenses	
Seed	10.31
Fertilizer	59.95
Crop chemicals	33.76
Crop insurance	14.07
Storage	0.35
Fuel & oil	11.12
Repairs	16.42
Custom hire	8.47
Land rent	39.37
Operating interest	2.84
Total direct expenses per acre	196.67
Return over direct exp per acre	105.44
Overhead Expenses	
Custom hire	0.54
Hired labor	6.61
Machinery leases	1.07
Farm insurance	2.74
Utilities	2.64
Dues & professional fees	1.06
Interest	2.50
Mach & bldg depreciation	18.55
Miscellaneous	5.03
Total overhead expenses per acre	40.74
Total dir & ovhd expenses per acre	237.41
Net return per acre	64.69
Government payments	13.69
Net return with govt pmts	78.38
Labor & management charge	18.81
Net return over lbr & mgt	59.57
Cost of Production	
Total direct expense per bu.	3.47
Total dir & ovhd exp per bu.	4.19
Less govt & other income	3.95
With labor & management	4.28
Net value per unit	5.34
Machinery cost per acre	57.63
Est. labor hours per acre	1.14

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.

Livestock Enterprise Analysis
North Dakota Farm Business Management Education
Region 3 - South Central North Dakota, 2010
(Farms Sorted By Net Return Per Unit)

Beef Cow-Calf -- Average Per Cwt. Produced

	<u>Avg. Of All Farms</u>		<u>Low20%</u>		<u>40 - 60%</u>		<u>High 20%</u>	
	35		7		7		7	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Number of farms								
Beef Calves sold (lb)	39.66	47.25	20.62	24.40	67.54	80.83	39.87	46.67
Transferred out (lb)	60.52	73.19	80.29	100.94	32.46	38.50	60.13	69.64
Cull sales (lb)		21.42		27.24		22.83		18.43
Other income		1.57		0.50		0.63		0.42
Purchased (lb)		-23.86		-51.03		-16.43		-16.04
Transferred in (lb)		-17.97		-2.97		-25.52		-7.17
Inventory change (lb)		10.06		17.93		14.04		-1.84
Gross margin		111.67		117.01		114.88		110.11
Direct Expenses								
Midds (lb.)	7.75	0.54	42.11	2.95	-	-	-	-
Protein Vit Minerals (lb.)	15.08	3.10	17.05	3.47	24.37	3.53	17.27	4.59
Creep / Starter (lb.)	26.86	2.41	21.67	2.17	36.38	3.18	38.06	3.49
Complete Ration (lb.)	64.47	1.52	17.82	1.52	265.84	5.32	-	-
Corn Silage (lb.)	276.51	3.26	649.98	7.04	-	-	297.94	3.41
Hay, Alfalfa (lb.)	87.48	1.87	220.22	4.75	-	-	205.24	4.36
Hay, Grass (lb.)	1,183.72	23.41	1,314.17	23.52	1,220.04	26.68	840.52	15.23
Pasture (aum)	1.25	20.46	1.37	16.70	1.21	25.99	1.35	17.74
Other feed stuffs (lb)	36.47	1.14	102.61	2.24	-	-	54.27	1.40
Breeding fees		0.50		1.92		-		0.62
Veterinary		3.96		5.88		3.30		3.70
Supplies		3.64		3.69		3.73		2.98
Fuel & oil		4.10		6.28		3.70		2.98
Repairs		5.24		8.67		4.93		2.83
Custom hire		1.22		1.24		0.41		1.78
Bedding		0.43		1.85		-		0.31
Total direct expenses		76.80		93.90		80.77		65.42
Return over direct expense		34.87		23.11		34.11		44.69
Overhead Expenses								
Hired labor		1.91		6.98		1.06		0.54
Farm insurance		1.61		2.14		1.65		1.06
Utilities		1.57		1.79		1.99		1.22
Interest		2.44		3.26		1.79		1.76
Mach & bldg depreciation		4.41		5.26		3.90		4.34
Miscellaneous		3.20		7.37		3.54		1.75
Total overhead expenses		15.13		26.80		13.93		10.68
Total dir & ovhd expenses		91.93		120.70		94.70		76.10
Net return		19.73		-3.69		20.18		34.02
Labor & management charge		12.03		12.37		11.12		11.17
Net return over lbr & mgt		7.70		-16.06		9.05		22.85
Cost of Production Per Cwt. Produced								
Total direct expense per unit		76.80		93.90		80.77		65.42
Total dir & ovhd expense per unit		91.93		120.70		94.70		76.10
With other revenue adjustments		101.63		133.34		99.79		82.42
With labor and management		113.67		145.72		110.91		93.59
Est. labor hours per unit		0.93		1.18		0.74		0.79
Other Information								
Number of cows		170.5		173.9		184.3		186.1
Pregnancy percentage		97.4		96.7		98.7		96.9
Pregnancy loss percentage		2.3		0.6		0.6		0.5
Culling percentage		15.4		17.9		15.3		14.2
Calving percentage		95.2		96.2		98.1		96.5
Weaning percentage		91.2		88.7		94.2		89.8
Calves sold per cow		0.92		0.91		0.96		0.92
Calf death loss percent		5.2		7.9		3.9		4.5
Cow death loss percent		1.0		0.7		1.2		1.2
Average weaning weight		548		515		557		580
Lbs weaned/exposed female		500		457		524		521
Feed cost per cow		300.88		302.75		358.45		274.53
Avg wgt/ Beef Calves sold		587		527		592		628
Avg price / cwt.		119.13		118.36		119.68		117.05

Livestock Enterprise Analysis
North Dakota Farm Business Management Education
Region 3 - South Central North Dakota, 2010
(Farms Sorted By Net Return Per Unit)

Beef Cow-Calf -- Average Per Cow

	<u>Avg. Of All Farms</u>		<u>Low20%</u>		<u>40 - 60%</u>		<u>High 20%</u>	
	35		7		7		7	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Number of farms								
Beef Calves sold (lb)	206.8	246.31	97.0	114.77	374.2	447.84	218.0	255.21
Transferred out (lb)	315.5	381.53	377.6	474.70	179.8	213.32	328.8	380.81
Cull sales (lb)		111.68		128.11		126.48		100.79
Other income		8.19		2.37		3.49		2.31
Purchased (lb)		-124.37		-240.01		-91.04		-87.72
Transferred in (lb)		-93.68		-13.97		-141.40		-39.21
Inventory change (lb)		52.46		84.30		77.80		-10.08
Gross margin		582.13		550.27		636.49		602.11
Direct Expenses								
Midds (lb.)	40.4	2.83	198.0	13.86	-	-	-	-
Protein Vit Minerals (lb.)	78.6	16.14	80.2	16.34	135.0	19.54	94.4	25.12
Creep / Starter (lb.)	140.0	12.56	101.9	10.22	201.6	17.64	208.1	19.07
Complete Ration (lb.)	336.1	7.94	83.8	7.16	1,472.9	29.46	-	-
Corn Silage (lb.)	1,441.5	17.00	3,056.7	33.11	-	-	1,629.2	18.65
Hay, Alfalfa (lb.)	456.1	9.75	1,035.7	22.34	-	-	1,122.3	23.82
Hay, Grass (lb.)	6,170.9	122.04	6,180.3	110.62	6,759.7	147.83	4,596.0	83.26
Pasture (aum)	6.5	106.65	6.5	78.56	6.7	143.99	7.4	96.99
Other feed stuffs (lb)	190.1	5.96	482.6	10.54	-	-	296.8	7.63
Breeding fees		2.59		9.02		-		3.42
Veterinary		20.66		27.64		18.30		20.25
Supplies		13.92		19.81		11.77		9.06
Fuel & oil		21.36		29.54		20.50		16.31
Repairs		27.32		40.77		27.31		15.45
Custom hire		6.34		5.82		2.27		9.75
Operating interest		7.29		6.23		8.91		8.94
Total direct expenses		400.37		441.59		447.52		357.72
Return over direct expense		181.77		108.68		188.97		244.38
Overhead Expenses								
Hired labor		9.96		32.83		5.90		2.97
Farm insurance		8.39		10.07		9.12		5.82
Utilities		8.17		8.44		11.02		6.65
Interest		12.72		15.32		9.90		9.62
Mach & bldg depreciation		22.98		24.72		21.62		23.76
Miscellaneous		16.68		34.66		19.63		9.55
Total overhead expenses		78.90		126.04		77.19		58.37
Total dir & ovhd expenses		479.27		567.63		524.71		416.09
Net return		102.87		-17.35		111.78		186.01
Labor & management charge		62.73		58.20		61.64		61.09
Net return over lbr & mgt		40.14		-75.55		50.15		124.92
Cost of Production Per Cwt. Produced								
Total direct expense per unit		76.80		93.90		80.77		65.42
Total dir & ovhd expense per unit		91.93		120.70		94.70		76.10
With other revenue adjustments		101.63		133.34		99.79		82.42
With labor and management		113.67		145.72		110.91		93.59
Est. labor hours per unit		4.84		5.56		4.12		4.34
Other Information								
Number of cows		170.5		173.9		184.3		186.1
Pregnancy percentage		97.4		96.7		98.7		96.9
Pregnancy loss percentage		2.3		0.6		0.6		0.5
Culling percentage		15.4		17.9		15.3		14.2
Calving percentage		95.2		96.2		98.1		96.5
Weaning percentage		91.2		88.7		94.2		89.8
Calves sold per cow		0.92		0.91		0.96		0.92
Calf death loss percent		5.2		7.9		3.9		4.5
Cow death loss percent		1.0		0.7		1.2		1.2
Average weaning weight		548		515		557		580
Lbs weaned/exposed female		500		457		524		521
Feed cost per cow		300.88		302.75		358.45		274.53
Avg wgt/ Beef Calves sold		587		527		592		628
Avg price / cwt.		119.13		118.36		119.68		117.05

Livestock Enterprise Analysis
North Dakota Farm Business Management Education
Region 3 - South Central North Dakota, 2010
(Farms Sorted By Net Return Per Unit)

Beef Replacement Heifers -- Average Per Head Sold/Trans

	<u>Avg. Of</u>	
	<u>All Farms</u>	
Number of farms	16	
	Quantity	Value
Beef Replace sold (hd)	0.0	19.25
Transferred out (hd)	1.0	1,065.05
Other income		9.71
Transferred in (hd)	0.8	-483.53
Inventory change (hd)	-0.2	-140.24
Gross margin		470.23
Direct Expenses		
Corn Distillers Grn (dry) (lb.)	97.1	1.13
Protein Vit Minerals (lb.)	21.2	5.62
Complete Ration (lb.)	468.0	21.84
Corn (bu.)	7.3	32.66
Corn Silage (lb.)	413.6	5.72
Hay, Alfalfa (lb.)	168.5	4.21
Hay, Grass (lb.)	3,996.9	84.40
Pasture (aum)	4.4	78.34
DDGS (lb.)	56.0	2.91
Other feed stuffs (lb)	116.0	4.36
Veterinary		10.24
Supplies		4.09
Fuel & oil		3.48
Repairs		4.73
Custom hire		2.97
Total direct expenses		266.74
Return over direct expense		203.50
Overhead Expenses		
Custom hire		0.71
Farm insurance		1.97
Utilities		1.82
Interest		2.98
Mach & bldg depreciation		4.45
Miscellaneous		2.22
Total overhead expenses		14.15
Total dir & ovhd expenses		280.89
Net return		189.35
Labor & management charge		13.00
Net return over lbr & mgt		176.35
Est. labor hours per unit		0.89
Other Information		
No. purchased or trans in		25
Number sold or trans out		32
Average number of head		31
Percentage death loss		0.2
Feed cost per average head		249.53

Livestock Enterprise Analysis
North Dakota Farm Business Management Education
Region 3 - South Central North Dakota, 2010
(Farms Sorted By Net Return Per Unit)

Beef Backgrounding -- Average Per Cwt. Produced

	<u>Avg. Of</u>	
	<u>All Farms</u>	
Number of farms	12	
	Quantity	Value
Backgnd Beef sold (lb)	263.90	280.46
Transferred out (lb)	145.88	174.84
Other income		2.83
Purchased (lb)	-10.33	-12.62
Transferred in (lb)	-304.42	-339.55
Inventory change (lb)	4.97	15.58
Gross margin		121.54
Direct Expenses		
Protein Vit Minerals (lb.)	19.97	5.27
Complete Ration (lb.)	162.86	9.41
Barley (bu.)	0.24	0.43
Corn (bu.)	2.91	9.61
Corn Silage (lb.)	509.43	6.23
Hay, Grass (lb.)	455.21	8.57
Peas, Field (lb.)	0.19	0.67
Wheat, Spring (bu.)	0.19	0.46
Screenings, Heavy (lb.)	46.27	1.78
DDGS (lb.)	27.49	1.42
Other feed stuffs (lb)	21.26	1.05
Veterinary		3.64
Supplies		0.83
Fuel & oil		1.78
Repairs		1.83
Custom hire		1.76
Marketing		5.16
Bedding		0.59
Operating interest		0.87
Total direct expenses		61.34
Return over direct expense		60.20
Overhead Expenses		
Hired labor		0.60
Farm insurance		0.68
Utilities		0.55
Interest		1.06
Mach & bldg depreciation		2.25
Miscellaneous		1.32
Total overhead expenses		6.46
Total dir & ovhd expenses		67.80
Net return		53.74
Labor & management charge		5.85
Net return over lbr & mgt		47.89
Cost of Production Per Cwt. Produced		
Total direct expense per unit		97.11
Total dir & ovhd expense per unit		98.69
With other revenue adjustments		97.99
With labor and management		99.42
Est. labor hours per unit		0.51
Other Information		
No. purchased or trans in		146
Number sold or trans out		144
Percentage death loss		0.3
Avg. daily gain (lbs)		1.75
Lbs of conc / lb of gain		4.64
Lbs of feed / lb of gain		11.00
Feed cost per cwt of gain		44.89
Feed cost per head		70.69
Avg wgt / Backgnd Beef sold		656
Avg sales price / cwt.		106.28

Livestock Enterprise Analysis
North Dakota Farm Business Management Education
Region 3 - South Central North Dakota, 2010
(Farms Sorted By Net Return Per Unit)

Beef Backgrounding -- Average Per Head

	<u>Avg. Of</u>	
	<u>All Farms</u>	
Number of farms	12	
	Quantity	Value
Backgnd Beef sold (lb)	415.5	441.62
Transferred out (lb)	229.7	275.32
Other income		4.46
Purchased (lb)	-16.3	-19.88
Transferred in (lb)	-479.4	-534.68
Inventory change (lb)	7.8	24.53
Gross margin		191.38
Direct Expenses		
Protein Vit Minerals (lb.)	31.5	8.30
Complete Ration (lb.)	256.4	14.83
Barley (bu.)	0.4	0.67
Corn (bu.)	4.6	15.14
Corn Silage (lb.)	802.2	9.81
Hay, Grass (lb.)	716.8	13.50
Peas, Field (lb.)	0.3	1.05
Wheat, Spring (bu.)	0.3	0.72
Screenings, Heavy (lb.)	72.9	2.81
DDGS (lb.)	43.3	2.23
Other feed stuffs (lb)	33.5	1.65
Veterinary		5.73
Supplies		1.30
Fuel & oil		2.81
Repairs		2.87
Custom hire		2.76
Marketing		8.12
Bedding		0.92
Operating interest		1.36
Total direct expenses		96.58
Return over direct expense		94.80
Overhead Expenses		
Hired labor		0.95
Farm insurance		1.08
Utilities		0.86
Interest		1.67
Mach & bldg depreciation		3.54
Miscellaneous		2.07
Total overhead expenses		10.17
Total dir & ovhd expenses		106.76
Net return		84.63
Labor & management charge		9.21
Net return over lbr & mgt		75.42
Cost of Production Per Cwt. Produced		
Total direct expense per unit		97.11
Total dir & ovhd expense per unit		98.69
With other revenue adjustments		97.99
With labor and management		99.42
Est. labor hours per unit		0.81
Other Information		
No. purchased or trans in		146
Number sold or trans out		144
Percentage death loss		0.3
Avg. daily gain (lbs)		1.75
Lbs of conc / lb of gain		4.64
Lbs of feed / lb of gain		11.00
Feed cost per cwt of gain		44.89
Feed cost per head		70.69
Avg wgt / Backgnd Beef sold		656
Avg sales price / cwt.		106.28

Figure 1. Gross Cash Income Per Farm

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

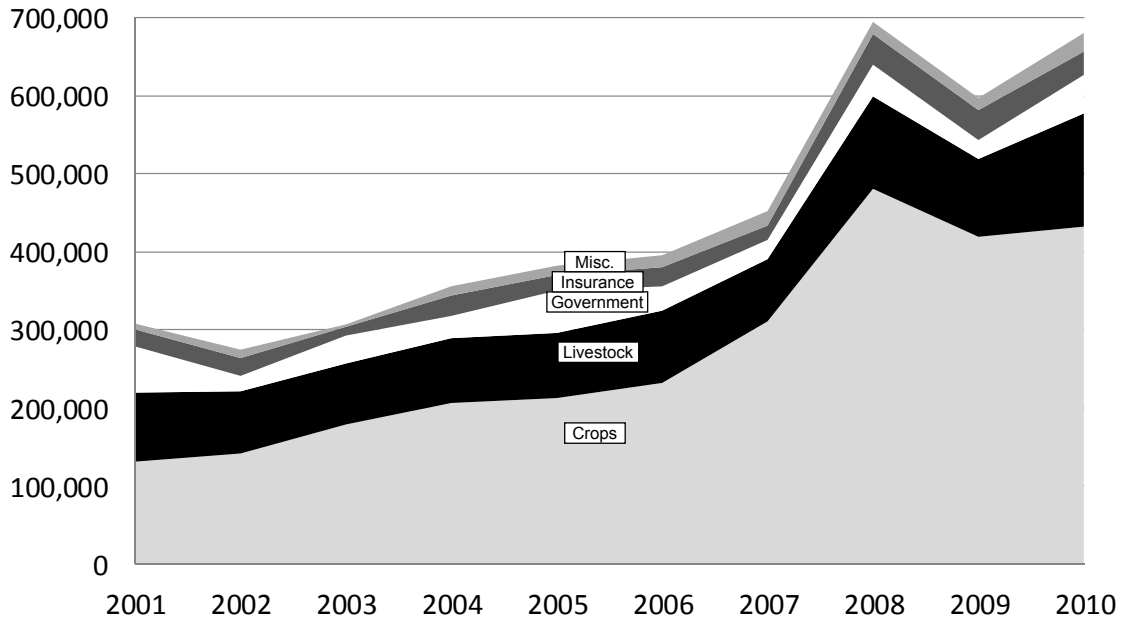


Figure 2. Net Farm Income (Accrual) Per Farm

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

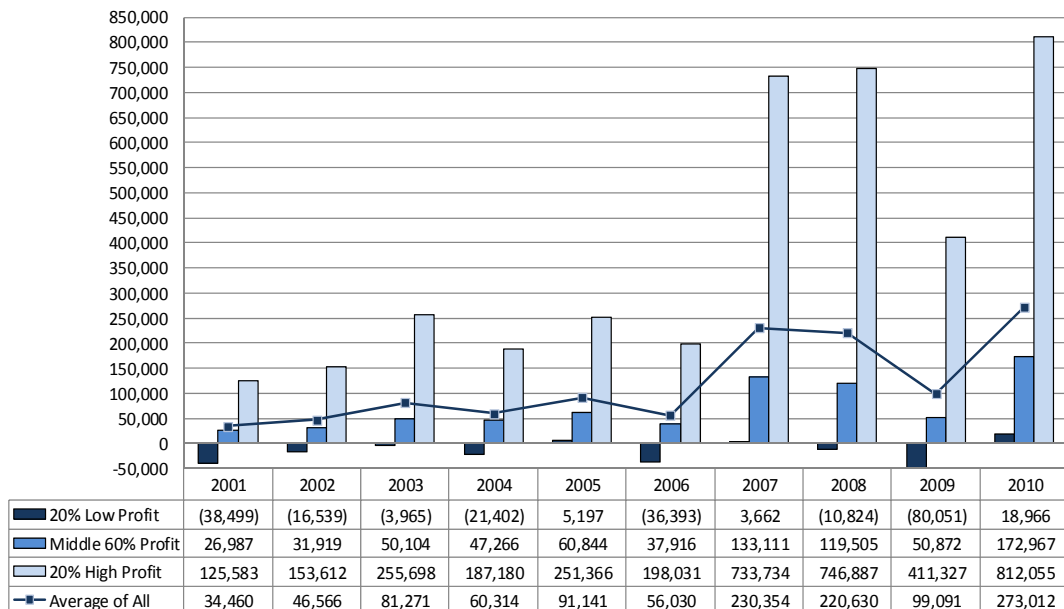


Figure 3. Financial Efficiency Measures (As Percent of Gross Revenue)

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

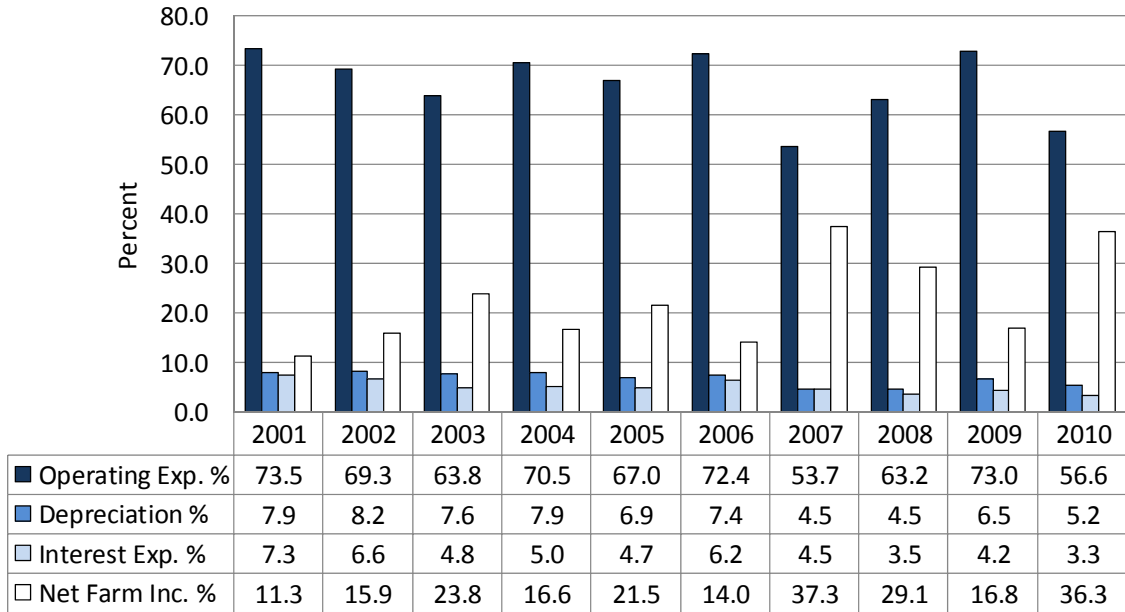


Figure 4. Profitability Measures Per Farm

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

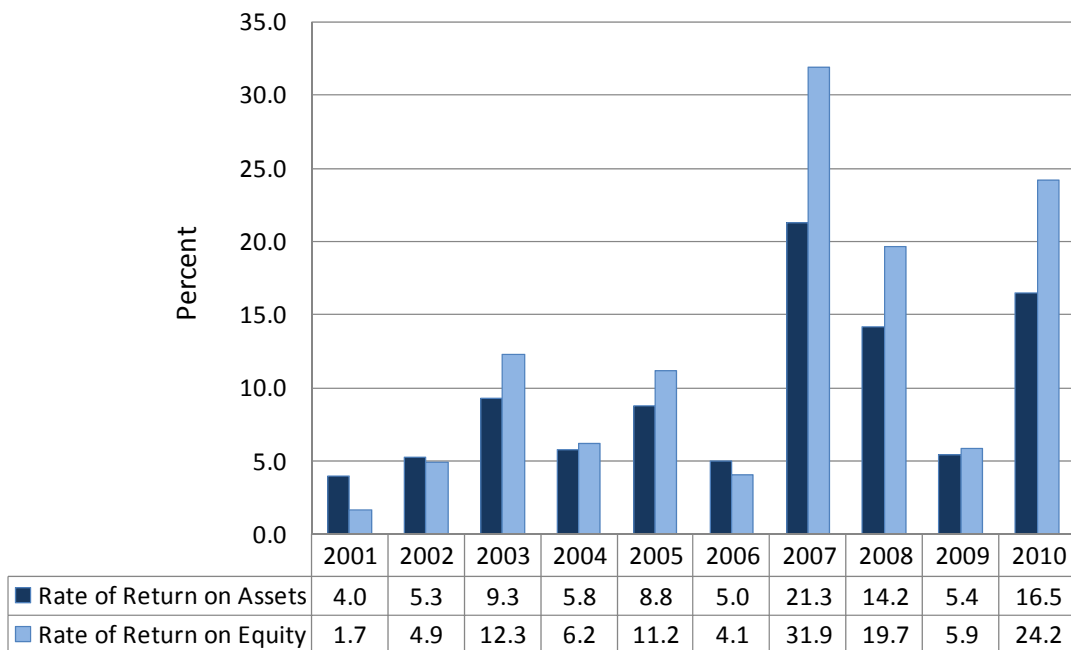


Figure 5. Assets and Liabilities Per Farm, 2010

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

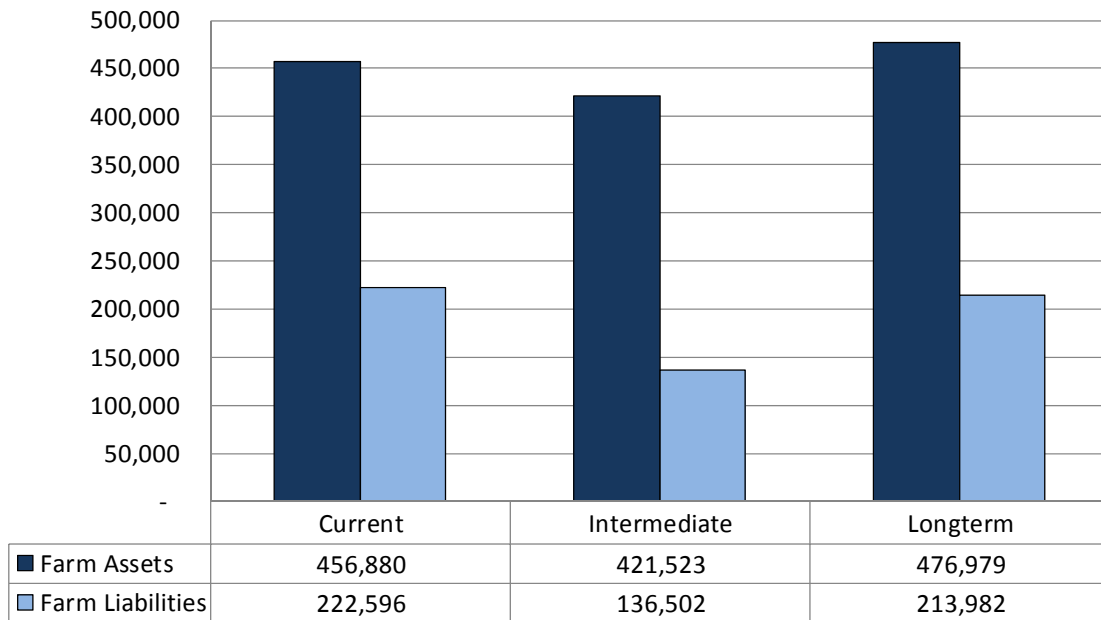


Figure 6. Total Farm Assets and Liabilities

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

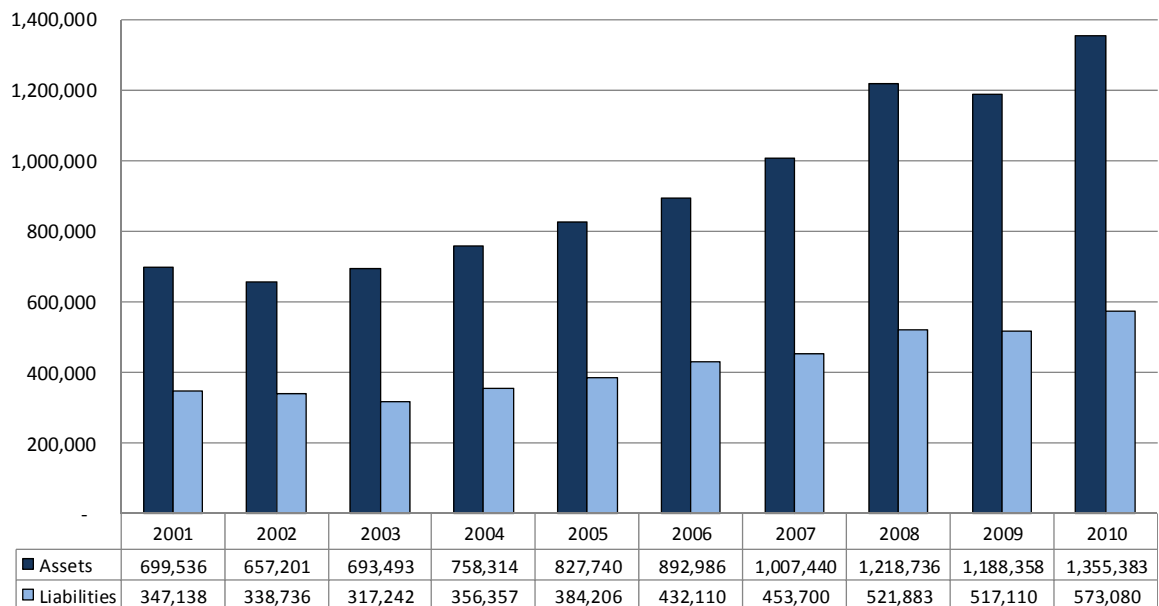


Figure 7. Household and Personal Expenses

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

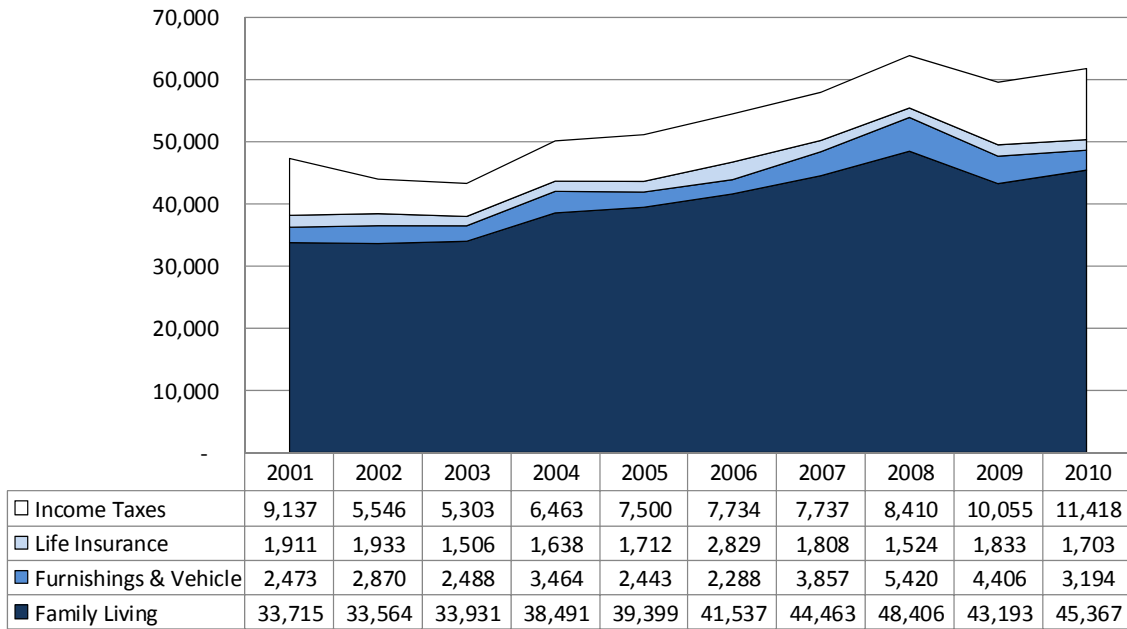


Figure 8. Crop Acreage Per Farm

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

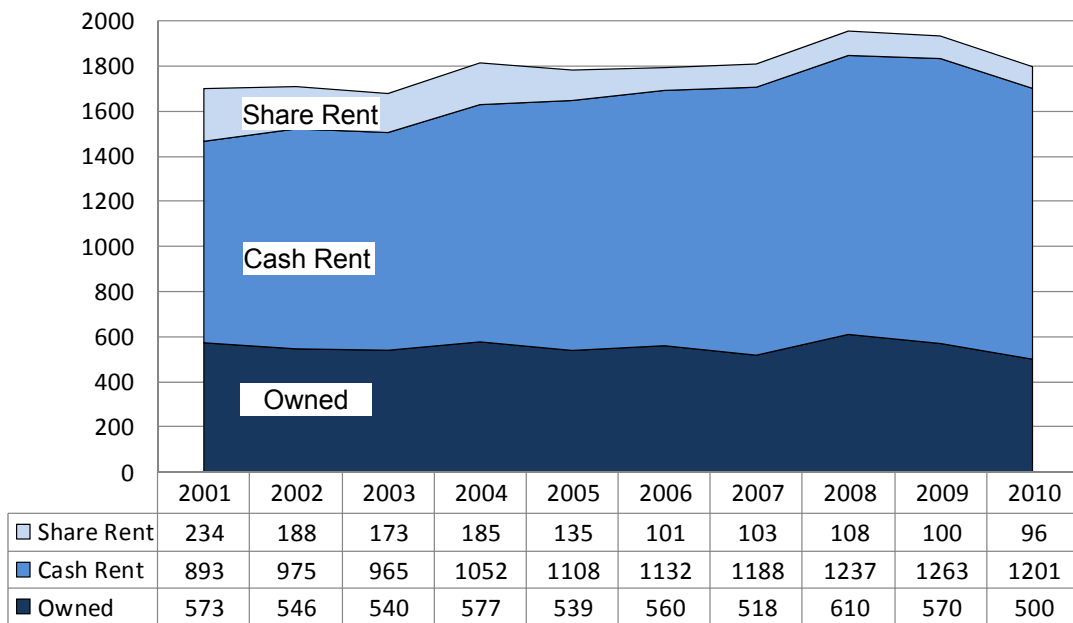


Figure 9. Spring Wheat Costs Per Acre

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

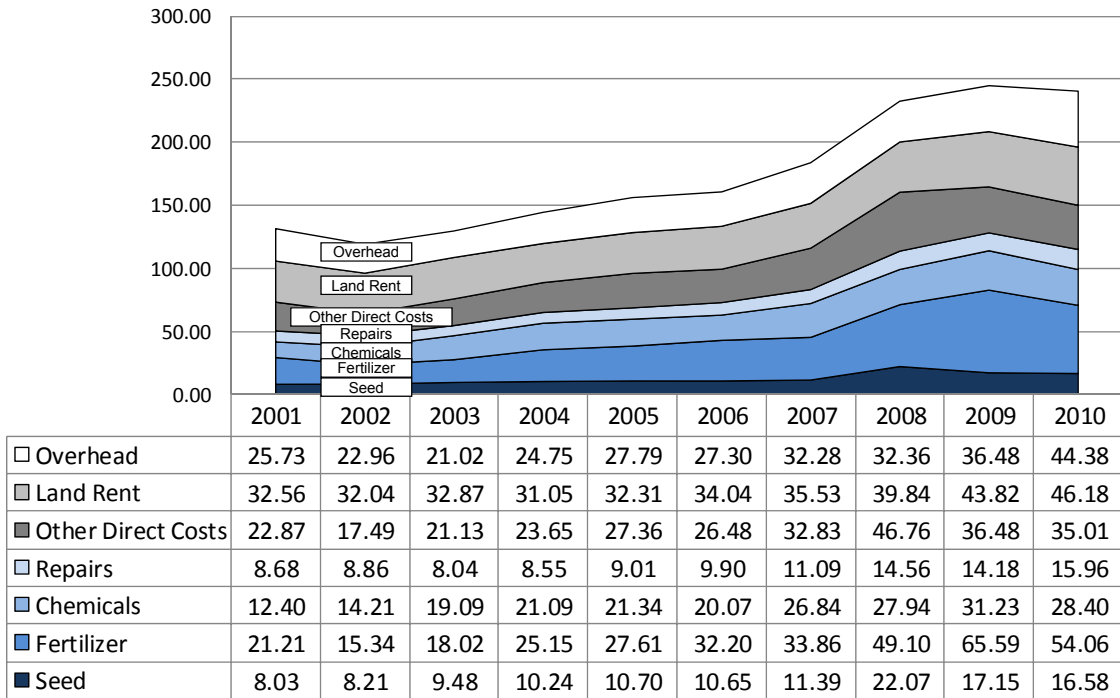


Figure 10. Average Net Return Per Beef Cow

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

