2015 ANNUAL REPORT Western North Dakota

North Dakota Farm and Ranch Business Management Education



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NORTH DAKOTA FARM BUSINESS MANAGEMENT EDUCATION

REGION 4 – WESTERN NORTH DAKOTA 2015 ANNUAL REPORT

The Western North Dakota (Region 4) farm business analyses were submitted by the following instructors represented by their cooperating schools.

<u>School</u>

Instructor

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This report was made possible by the farm families who cooperated with their farm management instructors in getting the records for 2015 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

2015 Western North Dakota Report North Dakota Farm Business Management Education

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INTRODUCTION

This report summarizes the individual farm records of the specific region or the whole state as identified on the acknowledgement page. The current financial status of farm operators and net returns from each crop and livestock enterprise is reported. In addition to the average of all farms, the averages for the high, middle, and low-income groups are also presented. All participating farm/ranch families are provided a copy of the regional averages report. They can compare their own Finan business analysis to the regional and/or state averages report and study the areas that may need management improvement. A review of the comparative information may reveal how certain aspects of the business or enterprises excel and help answer why they are profitable.

The regional and state averages reports are divided into three major sections; farm operators' reports, crop reports and livestock reports. Explanatory notes precede each section. The first section contains 15 tables with whole farm financial and operator information. The last three tables of this section are financial summaries in which farms are categorized by gross revenue, age of operator and farm type, respectively. The second section provides performance information on crop enterprises. The third section provides performance results on livestock enterprises. Lastly, figures 1 through 10 provide trend information for various measures of finance and/or production.

The 2015 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 27th year that the regional averages have been generated in North Dakota based upon the four regions shown in the state map on the cover of this publication. A regional report has been generated and published for Regions 2 – North Central, 3 – South Central and 4 - Western identified on the North Dakota map. Farms in Region 1 – Red River Valley are located within the Red River Valley. Those farms are contained in a combined Minnesota-North Dakota Red River Valley report. The state averages report includes all farms participating in the North Dakota Farm Business Management Education Program that were represented in the regional averages and also those farms which were processed and submitted after the March deadline date. All of these reports may be ordered from Farm Business Management, P.O. Box 6022, Bismarck, ND, 58506-6022 for \$5 per copy. The reports are available online at www.ndfarmmanagement.com.

EXPLANATORY NOTES FOR THE FARM OPERATORS' REPORTS

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

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

Farm Income Statement

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

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

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

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

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

Inventory Changes

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

Depreciation

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

Profitability Measures

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

"Rate of return on assets" is the "Return on farm assets" divided by "Average farm assets." "Rate of return on equity "is the "Return of farm equity" divided by "Average farm equity."

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

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

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

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

measures. A value of \$20,000 per full time operator plus 5% of value of farm production is used. "**Return of farm assets**" is calculated by adding "Farm interest expense" to "Net farm income" and then subtracting the "Value of operator's labor and management."

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

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

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

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

Liquidity & Repayment Capacity Measures

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

Balance Sheets

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

Statement of Cash Flows

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

Financial Standards Measures

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

Liquidity

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

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

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

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

Solvency

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

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

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

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

Profitability

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

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

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

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

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

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

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

Repayment Capacity

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

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

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

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

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

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

Efficiency

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

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

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

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

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

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

Crop Production and Marketing Summary

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

Household and Personal Expenses

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

Operator and Labor Information

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

Nonfarm Summary

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

Farm Income Statement North Dakota Farm Business Management Education Program Region 4 - Western North Dakota, 2015 (Farms Sorted By Net Farm Income)

	Avg. Of			
	All Farms	<u>Low 20%</u>	<u>40 - 60%</u>	<u>High 20%</u>
Number of farms	76	15	15	16
Cash Farm Income				
Barley	4,447	8,660	2,322	4,117
Beans, Garbonzo	729	-	-	3,355
Beans, Pinto	4,123	7,302	-	-
Canola	3,154	-	-	39
Corn	45,630	128,627	13,247	15,149
Flax	6,692	1,802	-	10,941
Hay, Alfalfa	1,846	-	-	8,769
Hay, Mixed Alfalfa/Grass	3,328	8,915	1,868	4,261
Lentils	3,685	15,481	3,190	-
Oats	1,023	615	1,828	1,552
Peas, Field	8,302	95	2,075	24,019
Radishes	1,290	6,535	-	-
Rye	2,441	-	-	11,597
Soybeans	15,820	27,254	11,789	9,522
Straw	80	-	-	198
Sunflowers	46,455	67,785	30,678	61,237
Sunflowers, Confectionary	648	-	1,392	1,775
Wheat, Durum	18,928	20,122	18,244	41,664
Wheat, Spring	99,622	179,711	51,681	71,579
Wheat, Winter	4,638	4,762	5,738	8,996
Miscellaneous crop income	4	-	-	-
Beef Bulls	12,683	-	3,050	43,740
Beef Cow-Calf, Beef Calves	64,305	40,433	42,984	145,495
Beef Replacement Heifers	9,554	-	3,679	38,971
Beef Backgrounding	49,299	91,772	16,991	53,820
Beef Finishing	819	127	-	-
Beef Finish Yearlings	11,199	-	-	41,655
Dairy, Milk	52,265	-	42,093	208,797
Dairy, Dairy Calves	3,609	-	2,765	14,550
Hogs, Finish Feeder Pigs	47	140	-	-
Honey Production, Honey	526	-	-	2,500
Dairy Backgrounding	207	-	-	985
Cull breeding livestock	22,477	10,104	13,527	46,718
Misc. livestock income	2,834	11,471	97	478
Crop government payments	7,582	8,573	3,871	8,226
CRP payments	36	-	-	166
Other government payments	8,832	9,208	5,725	18,243
Custom work income	9,026	15,774	1,839	11,181
Patronage dividends, cash	3,721	4,608	1,823	4,237
Crop insurance income	18,118	24,704	11,988	29,870
Property insurance income	6,106	1,214	220	20,766
Other farm income	13,900	8,247	6,181	21,874
Gross Cash Farm Income	570,031	704,040	300,884	991,041

Farm Income Statement (continued) North Dakota Farm Business Management Education Program Region 4 - Western North Dakota, 2015 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	<u> 40 - 60%</u>	<u> </u>
Number of farms	76	15	15	16
Cash Farm Expense Seed Fertilizer Crop chemicals Crop insurance Storage	32,248 68,950 34,820 17,212 511	67,353 122,180 62,726 22,831 267	11,843 40,239 30,294 11,627	29,851 62,223 37,514 23,135 629
Irrigation energy Crop marketing Crop miscellaneous Feeder livestock purchase Purchased feed Breeding fees Veterinary Supplies Livestock leases	315 142 863 14,318 38,635 612 7,568 2,094 959	582 203 2,109 4,183 15,939 54 3,445 454	94 51 638 22,774 40 5,639 1,833	170 1,910 62,229 127,034 1,980 19,110 6,289 4,414
Grazing fees Livestock marketing Interest Fuel & oil Repairs Custom hire Hired labor Land rent Machinery leases	123 5,009 30,711 22,604 37,549 24,676 17,963 55,978 2,391	1,537 54,269 25,781 40,616 33,758 15,470 93,312 3,419	1,352 18,256 13,203 24,080 14,442 11,947 42,689 1,533	341 19,271 42,591 33,648 56,755 42,013 52,673 70,141 5,429
Building leases Real estate taxes Farm insurance Utilities Dues & professional fees Miscellaneous Total cash expense Net cash farm income	230 2,232 8,703 7,428 1,402 10,263 446,509 123,522	638 2,698 8,978 7,454 1,504 13,799 605,559 98,480	876 5,503 4,347 667 5,163 269,132 31,752	4 2,301 15,066 13,963 1,868 13,798 746,348 244,693
Inventory Changes Prepaids and supplies Accounts receivable Hedging accounts Other current assets Crops and feed Market livestock Breeding livestock Other assets Accounts payable Accrued interest Total inventory change Net operating profit	-2,838 -5,043 4,581 574 -31,191 -886 -15,401 -1,694 -5,393 -2,932 -60,223 63,299	-4,959 -301 1,000 -13,909 -120,640 -21,926 -12,205 2,673 -16,910 -4,796 -191,974 -93,493	-5,177 -7,262 -20 -22 19,935 13,636 -21,509 2,680 3,690 -1,295 4,654 36,406	-904 -8,014 20,842 16,724 6,034 48,151 -36,946 -17,335 -22,723 -6,829 -999 243,694
Depreciation Machinery and equipment Titled vehicles Buildings and improvements Total depreciation	-35,132 -5,939 -5,157 -46,229	-49,041 -6,257 -4,898 -60,197	-18,076 -2,800 -1,381 -22,258	-51,421 -8,364 -11,173 -70,958
Net farm income from operations Gain or loss on capital sales	17,070 768	-153,690	14,148 -	172,737 3,258
Net farm income	17,838	-153,690	14,148	175,995

Inventory Changes North Dakota Farm Business Management Education Program Region 4 - Western North Dakota, 2015 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	76	15	15	16
Net cash farm income	123,522	98,480	31,752	244,693
Crops and Feed Ending inventory Beginning inventory Inventory change	251,382 282,573 -31,191	380,939 501,579 -120,640	139,972 120,037 19,935	318,205 312,171 6,034
Market Livestock Ending inventory Beginning inventory Inventory change	107,996 108,882 -886	97,908 119,834 -21,926	66,173 52,537 13,636	256,693 208,542 48,151
Accts Receivable Ending inventory Beginning inventory Inventory change	18,952 23,995 -5,043	17,349 17,650 -301	1,455 8,717 -7,262	32,335 40,349 -8,014
Prepaid Expenses and Supplies Ending inventory Beginning inventory Inventory change	21,229 24,067 -2,838	22,240 27,199 -4,959	5,262 10,440 -5,177	45,723 46,628 -904
Hedging Activities Ending inventory Withdrawals Beginning inventory Deposits Gain or loss	2,211 3,287 843 74 4,581	1,000 - - 1,000	873 600 293 -20	9,563 14,795 3,441 75 20,842
Other Current Assets Ending inventory Beginning inventory Inventory change	5,092 4,517 574	-13,909 -13,909	-22 -22	22,941 6,216 16,724
Breeding Livestock Ending inventory Capital sales Beginning inventory Capital purchases Depreciation, capital adjust	175,455 8,790 158,977 40,669 -15,401	145,849 12,738 145,458 25,334 -12,205	142,020 1,661 120,959 44,231 -21,509	356,799 16,592 309,698 100,639 -36,946
Other Capital Assets Ending inventory Capital sales Beginning inventory Capital purchases Depreciation, capital adjust	21,397 833 19,405 4,519 -1,694	24,740 25 22,058 33 2,673	18,820 67 10,390 5,817 2,680	18,235 3,870 23,517 15,923 -17,335
Accounts Payable Beginning inventory Ending inventory Inventory change	15,602 20,994 -5,393	14,323 31,233 -16,910	6,629 2,939 3,690	23,571 46,294 -22,723
Accrued Interest Beginning inventory Ending inventory Inventory change	11,139 14,072 -2,932	19,049 23,845 -4,796	6,840 8,135 -1,295	13,518 20,350 -6,829
Total inventory change	-60,223	-191,974	4,654	-999
Net operating profit	63,299	-93,493	36,406	243,694

Depreciation North Dakota Farm Business Management Education Program Region 4 - Western North Dakota, 2015 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	<u>40 - 60%</u>	High 20%
Number of farms	76	15	15	16
Net operating profit	63,299	-93,493	36,406	243,694
Machinery and Equipment				
Ending inventory	381,175	496,175	235,358	501,139
Capital sales	4,380	3,369	1,147	13,270
Beginning inventory	368,724	514,343	206,251	455,647
Capital purchases	51,963	34,242	48,330	110,183
Depreciation, capital adjust.	-35,132	-49,041	-18,076	-51,421
Titled Vehicles				
Ending inventory	56,718	68,924	37,827	75,655
Capital sales	1,001	220	2,067	640
Beginning inventory	56,183	73,857	39,026	64,198
Capital purchases	7,475	1,545	3,668	20,461
Depreciation, capital adjust.	-5,939	-6,257	-2,800	-8,364
Buildings and Improvements				
Ending inventory	127,818	112,825	60,325	260,876
Capital sales	263	-	-	1,250
Beginning inventory	124,167	107,777	60,271	260,236
Capital purchases	9,072	9,946	1,435	13,063
Depreciation, capital adjust.	-5,157	-4,898	-1,381	-11,173
Total depreciation, capital adj.	-46,229	-60,197	-22,258	-70,958
Net farm income from operations	17,070	-153,690	14,148	172,737
Gain or loss on capital sales	768	-	-	3,258
Net farm income	17,838	-153,690	14,148	175,995

Profitability Measures North Dakota Farm Business Management Education Program Region 4 - Western North Dakota, 2015 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	<u> </u>
Number of farms	76	15	15	16
Profitability (assets valued at cost)				
Net farm income from operations	17,070	-153,690	14,148	172,737
Rate of return on assets	0.6 %	-8.0 %	0.2 %	6.4 %
Rate of return on equity	-3.2 %	-34.2 %	-4.6 %	8.5 %
Operating profit margin	1.8 %	-27.0 %	0.6 %	19.2 %
Asset turnover rate	30.3 %	29.7 %	33.0 %	33.2 %
Farm interest expense	33,643	59,066	19,552	49,419
Value of operator lbr and mgmt.	42,047	49,389	31,863	62,124
Return on farm assets	8,667	-144,013	1,837	160,032
Average farm assets	1,558,379	1,792,808	863,407	2,512,873
Return on farm equity	-24,976	-203,079	-17,714	110,613
Average farm equity	772,522	593,530	386,646	1,308,229
Value of farm production	471,410	532,518	284,909	833,373

Liquidity & Repayment Capacity Measures North Dakota Farm Business Management Education Program Region 4 - Western North Dakota, 2015 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	<u> 40 - 60%</u>	<u>High 20%</u>
Number of farms	76	15	15	16
Liquidity				
Current ratio	1.53	1.06	1.35	2.06
Working capital	148,041	28,985	61,118	393,728
Working capital to gross inc	31.7 %	5.4 %	20.0 %	46.7 %
Current assets	426,684	535,251	233,371	763,940
Current liabilities	278,643	506,266	172,253	370,212
Gross revenues (accrual)	467,599	531,957	305,848	843,045
Repayment capacity				
Net farm income from operations	17,070	-153,690	14,148	172,737
Depreciation	46,229	60,197	22,258	70,958
Personal income	37,293	26,131	59,034	12,428
Family living/owner withdrawals	-55,968	-58,971	-51,073	-56,301
Cash discrepancy	-360	1,805	-2,871	-104
Payments on personal debt	-3,947	-4,077	-4,526	-3,965
Income taxes paid	-9,514	-4,431	-9,728	-9,678
Interest on term debt	20,613	29,401	13,193	35,116
Capital debt repayment capacity	51,778	-105,439	43,306	221,294
Scheduled term debt payments	-86,940	-107,393	-50,666	-139,839
Capital debt repayment margin	-35,162	-212,832	-7,360	81,455
Cash replacement allowance	-11,341	-11,552	-6,787	-14,581
Replacement margin	-46,503	-224,384	-14,146	66,874
Term debt coverage ratio	0.60	-0.98	0.85	1.58
Replacement coverage ratio	0.53	-0.89	0.75	1.43

Balance Sheet at Cost Values North Dakota Farm Business Management Education Program Region 4 - Western North Dakota, 2015 (Farms Sorted By Net Farm Income)

	Avg. Of <u>All Farms</u>	Low 20%	40 - 60%	<u> </u>
Number of farms	70	13	14	13
Assets				
Current Farm Assets	20 425	0.047	04.004	70 500
Cash and checking balance Prepaid expenses & supplies	28,435 21,970	2,917 24,977	21,024 4,233	70,508 52,664
Growing crops	1,217	24,977	4,233	5,019
Accounts receivable	17,154	20,018	1,559	21,369
Hedging accounts	2,400	1,154	-	11,769
Crops held for sale or feed	246,230	364,735	135,655	338,098
Crops under government loan	4,479	24,118	-	-
Market livestock held for sale	104,799	97,331	70,899	264,512
Other current assets Total current farm assets	426,684	535,251	233,371	- 763,940
	420,004	555,251	255,571	703,940
Intermediate Farm Assets				
Breeding livestock	161,942	148,189	152,164	305,495
Machinery and equipment	365,066	423,149	229,497	527,895
Titled vehicles	54,784	62,980	38,793	74,939
Other intermediate assets	6,150 587,941	3,469	9,275	16,271
Total intermediate farm assets	567,941	637,787	429,730	924,601
Long Term Farm Assets				
Farm land	367,512	277,816	176,910	728,762
Buildings and improvements	98,286	99,095	60,684	138,410
Other long-term assets	14,827	17,038	8,107	5,071
Total long-term farm assets	480,625	393,949	245,701	872,244
Total Farm Assets	1,495,251	1,566,986	908,802	2,560,784
Total Nonfarm Assets	211,492	221,657	154,994	228,296
Total Assets	1,706,743	1,788,643	1,063,796	2,789,080
Liabilities				
Current Farm Liabilities				
Accrued interest	14,111	23,848	8,449	22,718
Accounts payable	14,494	36,038	3,149	12,286
Current notes	174,804	364,401	106,424	187,025
Government crop loans	2,877	15,489	-	-
Principal due on term debt	72,357	66,490	54,230	148,184
Total current farm liabilities	278,643	506,266	172,253	370,212
Total intermediate farm liabs	198,770	334,605	174,500	331,303
Total long term farm liabilities	275,220	282,786	161,665	498,984
Total farm liabilities	752,633	1,123,658	508,418	1,200,499
T () () () ()	10 7 10	07 70 4	00 70 /	17 100
Total nonfarm liabilities	46,746	27,721	63,764	17,423
Total liabilities	799,379	1,151,379	572,182	1,217,922
Net worth (farm and nonfarm)	907,364	637,264	491,614	1,571,157
Net worth change	-11,023	-176,884	10,512	106,897
Percent net worth change	-1 %	-22 %	2 %	7 %
Patio Analysis				
Ratio Analysis Current farm liabilities / assets	65 %	95 %	74 %	48 %
Intermediate farm liab. / assets	34 %	52 %	41 %	36 %
Long term farm liab. / assets	57 %	72 %	66 %	57 %
Total debt to asset ratio	47 %	64 %	54 %	44 %

Statement Of Cash Flows North Dakota Farm Business Management Education Program Region 4 - Western North Dakota, 2015 (Farms Sorted By Net Farm Income)

	Avg. Of			
	All Farms	Low 20%	<u> </u>	<u>High 20%</u>
Number of farms	76	15	15	16
Beginning cash (farm & nonfarm)	40,229	20,556	61,376	48,920
Cash Provided By Operating Activities				
Gross cash farm income	570,031	704,040	300,884	991,041
Total cash farm expense	-446,509	-605,559	-269,132	-746,348
Net cash from hedging transactions	3,213	-	580	14,720
Cash provided by operating	126,735	98,480	32,332	259,414
Cash Provided By Investing Activities				
Sale of breeding livestock	8,790	12,738	1,661	16,592
Sale of machinery & equipment	5,299	3,369	1,147	17,465
Sale of titled vehicles	1,047	220	2,067	640
Sale of farm land	-	-	-	-
Sale of farm buildings	66	-	-	313
Sale of other farm assets	833	25	67	3,870
Sale of nonfarm assets	1,082	-	3,571	-
Purchase of breeding livestock	-40,669	-25,334	-44,231	-100,639
Purchase of machinery & equip.	-51,963	-34,242	-48,330	-110,183
Purchase of titled vehicles	-7,475	-1,545	-3,668	-20,461
Purchase of farm land	-61,313	-30,662	-	-174,617
Purchase of farm buildings	-9,072	-9,946	-1,435	-13,063
Purchase of other farm assets	-4,519	-33	-5,817	-15,923
Purchase of nonfarm assets	-22,343	-32,495	-19,435	-9,280
Cash provided by investing	-180,238	-117,906	-114,404	-405,286
Cash Provided By Financing Activities				
Money borrowed	526,222	844,312	348,404	726,434
Principal payments	-450,693	-811,015	-279,528	-505,539
Personal income	37,293	26,131	59,034	12,428
Family living/owner withdrawals	-55,968	-58,971	-51,073	-56,301
Income and social security tax	-9,514	-4,431	-9,728	-9,678
Capital contributions	57	162	127	-
Capital distributions	-22	-	-	-106
Dividends paid	-	-	-	-
Cash gifts and inheritances	764	270	-	44
Gifts given	-162	-	-667	-58
Other cash flows	-	-	-	-
Cash provided by financing	47,977	-3,542	66,569	167,223
Net change in cash balance	-5,526	-22,968	-15,503	21,351
Ending cash (farm & nonfarm)	34,343	-607	43,002	70,167
Discrepancy	360	-1,805	2,871	104

Financial Standards Measures North Dakota Farm Business Management Education Program Region 4 - Western North Dakota, 2015 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	<u>High 20%</u>
Number of farms	76	15	15	16
Liquidity				
Current ratio	1.53	1.06	1.35	2.06
Working capital	148,041	28,985	61,118	393,728
Working capital to gross inc	31.7 %	5.4 %	20.0 %	46.7 %
Solvency (cost)				
Farm debt to asset ratio	50 %	72 %	56 %	47 %
Farm equity to asset ratio	50 %	28 %	44 %	53 %
Farm debt to equity ratio	1.01	2.53	1.27	0.88
Profitability (cost)				
Rate of return on farm assets	0.6 %	-8.0 %	0.2 %	6.4 %
Rate of return on farm equity	-3.2 %	-34.2 %	-4.6 %	8.5 %
Operating profit margin	1.8 %	-27.0 %	0.6 %	19.2 %
Net farm income	17,838	-153,690	14,148	175,995
EBITDA	96,943	-34,428	55,958	293,114
Repayment Capacity				
Capital debt repayment capacity	51,778	-105,439	43,306	221,294
Capital debt repayment margin	-35,162	-212,832	-7,360	81,455
Replacement margin	-46,503	-224,384	-14,146	66,874
Term debt coverage ratio	0.60	-0.98	0.85	1.58
Replacement coverage ratio	0.53	-0.89	0.75	1.43
Efficiency				
Asset turnover rate (cost)	30.3 %	29.7 %	33.0 %	33.2 %
Operating expense ratio	81.5 %	106.2 %	81.9 %	71.3 %
Depreciation expense ratio	8.8 %	10.9 %	7.2 %	6.9 %
Interest expense ratio	6.4 %	10.7 %	6.3 %	4.8 %
Net farm income ratio	3.4 %	-27.8 %	4.6 %	17.2 %

Crop Production and Marketing Summary North Dakota Farm Business Management Education Program Region 4 - Western North Dakota, 2015 (Farms Sorted By Net Farm Income)

	Avg. Of		40 000/	
	All Farms	Low 20%	<u>40 - 60%</u>	High 20%
Number of farms	76	15	15	16
Acreage Summary				
Total acres owned	963	998	355	1,434
Total crop acres	1,564	2,463	923	1,869
Crop acres owned	397	501	153	359
Crop acres cash rented	1,083	1,832	719	1,456
Crop acres share rented	83	130	51	54
Total pasture acres	1,619	1,441	1,263	2,489
Percent crop acres owned	25 %	20 %	17 %	19 %
Mach invest/crop acre cost	273	234	278	292
Average Price Received (Cash Sales	Only)			
Wheat, Spring per bushel	4.75	4.90	5.11	4.52
Sunflowers per cwt	18.27	17.25	-	19.68
Corn per bushel	3.24	3.25	-	3.26
Soybeans per bushel	8.49	-	-	-
Wheat, Durum per bushel	6.30	-	-	6.21
Barley per bushel	3.87	-	-	-
Hay, Mixed Alfalfa/Grass per ton	64.89	-	-	-
Flax per bushel	10.65	-	-	-
Oats per bushel	2.28	-	-	-
Wheat, Winter per bushel	4.27	-	-	-
Canola per cwt	16.06	-	-	-
Average Yield Per Acre	0.040	0.504	0.000	0 507
Pasture (aum)	0.619	0.584	0.886	0.587
Wheat, Spring (bushel)	50.83	47.95	49.12	52.52
Hay, Mixed Alfalfa/Grass (ton)	1.45	1.40	1.23	1.30
Corn (bushel)	78.17	75.29	71.27	93.69
Sunflowers (cwt)	15.66 2.77	14.04	17.13	21.01 3.08
Hay, Small Grain (ton)		2.80	-	
Hay, Grass (ton)	1.23 1.81	1.32 1.86	-	1.74 1.70
Hay, Alfalfa (ton) Barley (bushel)	54.16	1.00	61.03	55.06
Corn Silage (ton)		-	01.05	
Flax (bushel)	14.54 19.67	-	-	15.64 19.83
Oats (bushel)	78.90	- 60.81	-	19.03
Soybeans (bushel)	27.58	00.01	-	-
	21.30	-	-	-

Household and Personal Expenses North Dakota Farm Business Management Education Program Region 4 - Western North Dakota, 2015 (Farms Sorted By Net Farm Income)

	Avg. Of <u>All Farms</u>	Low 20%	40 - 60%
Number of farms	25	5	7
Average family size	2.8	1.8	2.3
Family Living Expenses			
Food and meals expense	9,221	5,717	9,499
Medical care	4,249	2,640	4,148
Health insurance	6,316	8,405	2,798
Cash donations	2,110	823	1,484
Household supplies	5,497	7,607	5,657
Clothing	1,287	174	1,506
Personal care	2,015	401	1,203
Child / Dependent care	279	-	627
Alimony and child support	-	-	-
Gifts	1,746	389	2,080
Education	629	10	361
Recreation	3,305	2,596	3,871
Utilities (household share)	3,175	3,178	2,397
Personal vehicle operating exp	3,893	3,219	4,231
Household real estate taxes	231	356	121
Dwelling rent	1,708	2,647	2,539
Household repairs	1,590	1,843	1,223
Personal interest	2,406	2,267	1,038
Disability / Long term care ins	500	, _	-
Life insurance payments	1,125	1,074	581
Personal property insurance	421	407	293
Miscellaneous	5,175	5,727	4,575
Total cash family living expense	56,879	49,479	50,232
Family living from the farm	306	-	
Total family living	57,185	49,479	50,232
Other Nonfarm Expenditures			
Income taxes	11,212	3,412	9,548
Furnishing & appliance purchases	-	-	-
Nonfarm vehicle purchases	1,013	-	-1,714
Nonfarm real estate purchases	38,578	83,534	-
Other nonfarm capital purchases	4,633	-	14,618
Nonfarm savings & investments	-6,279	-33,268	-841
Total other nonfarm expenditures	49,156	53,678	21,611
Total cash family living			
investment & nonfarm capital purch	106,035	103,157	71,843

Operator and Labor Information North Dakota Farm Business Management Education Program Region 4 - Western North Dakota, 2015 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	76	15	15	16
Operator Information				
Average number of operators	1.1	1.1	1.1	1.2
Average age of operators	43.8	45.8	37.6	42.8
Average number of years farming	19.8	22.2	12.0	19.3
Results Per Operator				
Working capital	123,087	-8,825	51,155	284,883
Total assets (cost)	1,662,821	1,693,598	972,040	2,470,476
Total liabilities	811,897	1,110,661	531,090	1,160,620
Net worth (cost)	850,924	582,937	440,949	1,309,857
Gross farm income	485,995	487,624	289,051	861,167
Total farm expense	470,174	623,233	275,787	715,705
Net farm income from operations	15,821	-135,609	13,264	145,463
Net nonfarm income	34,564	23,057	55,345	10,466
Family living & tax withdrawals	61,023	54,351	59,693	55,649
Total acres owned	892.3	880.9	333.1	1,207.4
Total crop acres	1,449.2	2,172.9	865.1	1,573.9
Crop acres owned	367.8	442.2	143.2	302.0
Crop acres cash rented	1,004.2	1,616.4	673.7	1,226.4
Crop acres share rented	77.2	114.3	48.1	45.5
Total pasture acres	1,500.6	1,271.1	1,183.6	2,096.3
Labor Analysis				
Number of farms	76	15	15	16
Total unpaid labor hours	2,120	2,520	1,503	2,872
Total hired labor hours	836	757	348	2,621
Total labor hours per farm	2,956	3,277	1,852	5,493
Unpaid hours per operator	1,965	2,224	1,409	2,418

Nonfarm Summary North Dakota Farm Business Management Education Program Region 4 - Western North Dakota, 2015 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	76	15	15	16
Nonfarm Income				
Personal wages & salary	30,000	19,995	48,151	8,372
Net nonfarm business income	1,388	4,435	5,343	584
Personal rental income	19	-	95	-
Personal interest income	221	1	14	983
Personal cash dividends	10	30	-	-
Tax refunds	1,343	652	2,815	156
Other nonfarm income	4,313	1,018	2,615	2,334
Total nonfarm income	37,293	26,131	59,034	12,428
Gifts and inheritances	764	270	-	44

Financial Summary North Dakota Farm Business Management Education Program Region 4 - Western North Dakota, 2015 (Farms Sorted By Gross Farm Income)

Number of farms 76 13 8 27 19 Income Statement Gross cash farm income 570,031 57,947 144,427 352,348 781,740 Total cash farm expense 446,509 51,831 122,779 258,830 581,135 Net cash farm income 123,522 6,115 21,648 93,517 200,604 Inventory change -60,223 20,535 -14,549 -31,883 -113,720 Depreciation -46,229 -6,293 -11,477 -26,755 -63,622 Net farm income from operations 17,070 20,357 -4,377 34,880 23,263 Gain or loss on capital sales 768 115 7,109 - - Average net farm income 17,838 20,473 2,732 34,880 23,263 Median net farm income 17,044 9,112 6,774 21,604 44,720 Profitability (cost) Rate of return on equity -3.2 % 6.3 % -1.6 % 2.1 % 0.3 % Asset turmover rate	1,126,159 222,277 -179,411
Gross cash farm income 570,031 57,947 144,427 352,348 781,740 Total cash farm expense 446,509 51,831 122,779 258,830 581,135 Net cash farm income 123,522 6,115 21,648 93,517 200,604 Inventory change -60,223 20,535 -14,549 -31,883 -113,720 Depreciation -46,229 -6,293 -11,477 -26,755 -63,622 Net farm income from operations 17,070 20,357 -4,377 34,880 23,263 Gain or loss on capital sales 768 115 7,109 - - Average net farm income 17,044 9,112 6,774 21,604 44,720 Profitability (cost) Rate of return on assets 0.6 % 4.5 % -1.6 % 2.1 % 0.3 % Asset turnover rate 30.3 % 23.7 % 19.6 % 27.2 % 28.6 % Liquidity & Repayment (end of year) Current assets 426,684 44,973 160,217 295,443 <th>1,126,159 222,277 -179,411</th>	1,126,159 222,277 -179,411
Total cash farm expense 446,509 51,831 122,779 258,830 581,135 Net cash farm income 123,522 6,115 21,648 93,517 200,604 Inventory change -60,223 20,535 -14,549 -31,883 -113,720 Depreciation -46,229 -6,293 -11,477 -26,755 -63,622 Net farm income from operations 17,070 20,357 -4,377 34,880 23,263 Gain or loss on capital sales 768 115 7,109 - - Average net farm income 17,838 20,473 2,732 34,880 23,263 Median net farm income 17,044 9,112 6,774 21,604 44,720 Profitability (cost) Rate of return on assets 0.6 % 4.5 % -1.6 % 2.1 % 0.3 % Operating profit margin 1.8 % 18.9 % -8.0 % 7.9 % 1.1 % Asset turnover rate 30.3 % 23.7 % 19.6 % 27.2 % 28.6 % Liquidity & Repayment (end of year) Eurrent liabilities 278,643 27,527	1,126,159 222,277 -179,411
Net cash farm income 123,522 6,115 21,648 93,517 200,604 Inventory change -60,223 20,535 -14,549 -31,883 -113,720 Depreciation -46,229 -6,293 -11,477 -26,755 -63,622 Net farm income from operations 17,070 20,357 -4,377 34,880 23,263 Gain or loss on capital sales 768 115 7,109 - - Average net farm income 17,838 20,473 2,732 34,880 23,263 Median net farm income 17,044 9,112 6,774 21,604 44,720 Profitability (cost) Table of return on assets 0.6 % 4.5 % -1.6 % 2.1 % 0.3 % Rate of return on equity -3.2 % 6.3 % -12.1 % 0.0 % -2.7 % Operating profit margin 1.8 % 18.9 % -8.0 % 7.9 % 1.1 % Asset turnover rate 30.3 % 23.7 % 19.6 % 27.2 % 28.6 % Current assets	222,277 -179,411
Inventory change -60,223 20,535 -14,549 -31,883 -113,720 Depreciation -46,229 -6,293 -11,477 -26,755 -63,622 Net farm income from operations 17,070 20,357 -4,377 34,880 23,263 Gain or loss on capital sales 768 115 7,109 - - Average net farm income 17,838 20,473 2,732 34,880 23,263 Median net farm income 17,044 9,112 6,774 21,604 44,720 Profitability (cost) Rate of return on assets 0.6 % 4.5 % -1.6 % 2.1 % 0.3 % Rate of return on equity -3.2 % 6.3 % -12.1 % 0.0 % -2.7 % Operating profit margin 1.8 % 18.9 % -8.0 % 7.9 % 1.1 % Asset turnover rate 30.3 % 23.7 % 19.6 % 27.2 % 28.6 % Liquidity & Repayment (end of year) Current assets 426,684 44,973 160,217 295,443 725,298	-179,411
Depreciation -46,229 -6,293 -11,477 -26,755 -63,622 Net farm income from operations 17,070 20,357 -4,377 34,880 23,263 Gain or loss on capital sales 768 115 7,109 - - Average net farm income 17,838 20,473 2,732 34,880 23,263 Median net farm income 17,044 9,112 6,774 21,604 44,720 Profitability (cost) Rate of return on assets 0.6 % 4.5 % -1.6 % 2.1 % 0.3 % Rate of return on equity -3.2 % 6.3 % -12.1 % 0.0 % -2.7 % Operating profit margin 1.8 % 18.9 % -8.0 % 7.9 % 1.1 % Asset turnover rate 30.3 % 23.7 % 19.6 % 27.2 % 28.6 % Liquidity & Repayment (end of year) Current assets 426,684 44,973 160,217 295,443 725,298 Current ratio 1.53 1.63 1.27 1.56 1.80 </td <td></td>	
Net farm income from operations 17,070 20,357 -4,377 34,880 23,263 Gain or loss on capital sales 768 115 7,109 - - Average net farm income 17,838 20,473 2,732 34,880 23,263 Median net farm income 17,044 9,112 6,774 21,604 44,720 Profitability (cost) Rate of return on assets 0.6 % 4.5 % -1.6 % 2.1 % 0.3 % Rate of return on equity -3.2 % 6.3 % -12.1 % 0.0 % -2.7 % Operating profit margin 1.8 % 18.9 % -8.0 % 7.9 % 1.1 % Asset turnover rate 30.3 % 23.7 % 19.6 % 27.2 % 28.6 % Liquidity & Repayment (end of year) Current assets 426,684 44,973 160,217 295,443 725,298 Current liabilities 278,643 27,527 125,947 189,130 401,875 Current ratio 1.53 1.63 1.27 1.56 1.80	-153.239
Gain or loss on capital sales7681157,109Average net farm income17,83820,4732,73234,88023,263Median net farm income17,0449,1126,77421,60444,720 Profitability (cost) Rate of return on assets0.6 %4.5 %-1.6 %2.1 %0.3 %Rate of return on equity-3.2 %6.3 %-12.1 %0.0 %-2.7 %Operating profit margin1.8 %18.9 %-8.0 %7.9 %1.1 %Asset turnover rate30.3 %23.7 %19.6 %27.2 %28.6 %Liquidity & Repayment (end of year)Current assets426,68444,973160,217295,443725,298Current liabilities278,64327,527125,947189,130401,875Current ratio1.531.631.271.561.80Working capital148,04117,44634,270106,313323,422Working capital to gross inc31.7 %29.5 %25.2 %33.0 %46.7 %Term debt coverage ratio0.602.190.480.720.46Replacement coverage ratio0.532.030.380.670.39	
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Median net farm income 17,044 9,112 6,774 21,604 44,720 Profitability (cost) Rate of return on assets 0.6 % 4.5 % -1.6 % 2.1 % 0.3 % Rate of return on equity -3.2 % 6.3 % -12.1 % 0.0 % -2.7 % Operating profit margin 1.8 % 18.9 % -8.0 % 7.9 % 1.1 % Asset turnover rate 30.3 % 23.7 % 19.6 % 27.2 % 28.6 % Liquidity & Repayment (end of year) Current assets 426,684 44,973 160,217 295,443 725,298 Current ratio 1.53 1.63 1.27 1.56 1.80 Working capital 148,041 17,446 34,270 106,313 323,422 Working capital to gross inc 31.7 % 29.5 % 25.2 % 33.0 % 46.7 % Term debt coverage ratio 0.60 2.19 0.48 0.72 0.46 Replacement coverage ratio 0.53 2.03 0.38 0.67 0.39	-
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Rate of return on assets0.6 %4.5 %-1.6 %2.1 %0.3 %Rate of return on equity-3.2 %6.3 %-12.1 %0.0 %-2.7 %Operating profit margin1.8 %18.9 %-8.0 %7.9 %1.1 %Asset turnover rate30.3 %23.7 %19.6 %27.2 %28.6 %Liquidity & Repayment (end of year)Current assets426,68444,973160,217295,443725,298Current liabilities278,64327,527125,947189,130401,875Current ratio1.531.631.271.561.80Working capital148,04117,44634,270106,313323,422Working capital to gross inc31.7 %29.5 %25.2 %33.0 %46.7 %Term debt coverage ratio0.602.190.480.720.46Replacement coverage ratio0.532.030.380.670.39	-8,991
Rate of return on equity-3.2 %6.3 %-12.1 %0.0 %-2.7 %Operating profit margin1.8 %18.9 %-8.0 %7.9 %1.1 %Asset turnover rate30.3 %23.7 %19.6 %27.2 %28.6 %Liquidity & Repayment (end of year)Current assets426,68444,973160,217295,443725,298Current liabilities278,64327,527125,947189,130401,875Current ratio1.531.631.271.561.80Working capital148,04117,44634,270106,313323,422Working capital to gross inc31.7 %29.5 %25.2 %33.0 %46.7 %Term debt coverage ratio0.602.190.480.720.46Replacement coverage ratio0.532.030.380.670.39	
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Liquidity & Repayment (end of year)Current assets426,68444,973160,217295,443725,298Current liabilities278,64327,527125,947189,130401,875Current ratio1.531.631.271.561.80Working capital148,04117,44634,270106,313323,422Working capital to gross inc31.7 %29.5 %25.2 %33.0 %46.7 %Term debt coverage ratio0.602.190.480.720.46Replacement coverage ratio0.532.030.380.670.39	-10.2 %
Current assets426,68444,973160,217295,443725,298Current liabilities278,64327,527125,947189,130401,875Current ratio1.531.631.271.561.80Working capital148,04117,44634,270106,313323,422Working capital to gross inc31.7 %29.5 %25.2 %33.0 %46.7 %Term debt coverage ratio0.602.190.480.720.46Replacement coverage ratio0.532.030.380.670.39	39.4 %
Current liabilities278,64327,527125,947189,130401,875Current ratio1.531.631.271.561.80Working capital148,04117,44634,270106,313323,422Working capital to gross inc31.7 %29.5 %25.2 %33.0 %46.7 %Term debt coverage ratio0.602.190.480.720.46Replacement coverage ratio0.532.030.380.670.39	
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Working capital to gross inc 31.7 % 29.5 % 25.2 % 33.0 % 46.7 % Term debt coverage ratio 0.60 2.19 0.48 0.72 0.46 Replacement coverage ratio 0.53 2.03 0.38 0.67 0.39	
Term debt coverage ratio0.602.190.480.720.46Replacement coverage ratio0.532.030.380.670.39	
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	0.08
Ierm debt to EBIIDA 4.75 4.37 11.29 4.25 4.42	0.06
	5.67
Solvency (end of year at cost)	
Number of sole proprietors 70 12 8 26 16	
Total assets 1,706,743 477,017 770,772 1,292,511 2,545,676	
Total liabilities799,379299,567437,923626,2121,049,158	
Net worth907,364177,450332,848666,2991,496,517	
Net worth change -11,023 26,411 2,342 8,146 -17,877	-159,982
Farm debt to asset ratio 50 % 63 % 64 % 51 % 44 %	47 %
Total debt to asset ratio 47 % 63 % 57 % 48 % 41 %	40 %
Change in earned net worth % -1 % 17 % 1 % 1 % -1 %	-7 %
Nonfarm Information	
Net nonfarm income 37,293 72,446 39,075 36,365 13,787	46,222
Farms reporting living expenses2543123	3
Total family living expense57,18558,614-	-
Crop Acres	
Total crop acres 1,564 152 628 1,139 2,367	
Total crop acres owned 397 89 196 340 739	
Total crop acres cash rented 1,083 62 257 716 1,494	424
Total crop acres share rented83-17583134	424 3,460
Machinery value per crop acre 273 468 155 218 295	3,906 424 3,460 22 323

Financial Summary North Dakota Farm Business Management Education Program Region 4 - Western North Dakota, 2015 (Farms Sorted By Age of Operator)

	Avg. Of All Farms	Less Than 31	31 - 40	41 - 50	51 - 60	Over 60
				<u> </u>		
Number of farms	76	16	20	9	19	12
Income Statement						
Gross cash farm income	570,031	123,768	604,354	635,787	791,767	707,440
Total cash farm expense	446,509	96,923	469,653	487,805	617,523	572,304
Net cash farm income	123,522	26,845	134,701	147,982	174,244	135,137
Inventory change	-60,223	6,363	-80,913	-97,646	-96,680	-28,727
Depreciation	-46,229	-7,863	-38,925	-53,259	-83,414	-45,409
Net farm income from operations	17,070	25,345	14,863	-2,923	-5,850	61,001
Gain or loss on capital sales	768	391	2,606	-	-	-
Average net farm income	17,838	25,736	17,469	-2,923	-5,850	61,001
Median net farm income	17,044	15,123	13,086	62,416	18,686	20,235
Profitability (cost)						
Rate of return on assets	0.6 %	3.9 %	1.1 %	-1.5 %	-0.7 %	2.9 %
Rate of return on equity	-3.2 %	3.9 %	-5.1 %	-4.9 %	-4.9 %	1.9 %
Operating profit margin	1.8 %	14.1 %	3.9 %	-4.3 %	-2.4 %	8.6 %
Asset turnover rate	30.3 %	27.4 %	28.8 %	33.9 %	28.9 %	33.7 %
Liquidity & Repayment (end of ye	ear)					
Current assets	426,684	112,645	431,442	578,174	683,029	316,573
Current liabilities	278,643	85,989	346,458	392,753	366,153	187,311
Current ratio	1.53	1.31	1.25	1.47	1.87	1.69
Working capital	148,041	26,656	84,984	185,421	316,876	129,262
Working capital to gross inc	31.7 %	22.4 %	16.1 %	31.5 %	44.1 %	38.2 %
Term debt coverage ratio	0.60	1.56	0.49	0.00	0.55	0.92
Replacement coverage ratio	0.53	1.47	0.47	0.00	0.45	0.81
Term debt to EBITDA	4.75	3.13	6.26	3.82	5.09	3.53
Solvency (end of year at cost)						
Number of sole proprietors	70	15	19	9	17	10
Total assets	1,706,743	580,316	1,749,126	1,972,325	2,746,748	1,308,822
Total liabilities	799,379	353,960	1,113,021	806,759	1,081,286	385,705
Net worth	907,364	226,356	636,105	1,165,566	1,665,462	923,118
Net worth change	-11,023	26,665	-4,846	-76,347	-7,501	-26,484
Farm debt to asset ratio	50 %	61 %	66 %	42 %	43 %	36 %
Total debt to asset ratio	47 %	61 %	64 %	41 %	39 %	29 %
Change in earned net worth %	-1 %	13 %	-1 %	-6 %	0 %	-3 %
Nonfarm Information						
Net nonfarm income	37,293	50,614	34,211	19,493	43,307	28,497
Farms reporting living expenses	25	6	5	2	7	5
Total family living expense	57,185	42,501	53,933	-	69,417	54,867
Crop Acres						
Total crop acres	1,564	425	1,673	2,473	2,210	1,193
Total crop acres owned	397	60	287	448	741	446
Total crop acres cash rented	1,083	217	1,328	1,973	1,374	705
Total crop acres share rented	83	147	59	52	96	43
Machinery value per crop acre	273	190	203	233	353	307

Financial Summary North Dakota Farm Business Management Education Program Region 4 - Western North Dakota, 2015 (Farms Sorted By Farm Type)

	Avg. Of <u>All Farms</u>	Crop	Beef	Crop and Beef	Other
Number of farms	76	22	18	24	10
Income Statement					
Gross cash farm income	570,031	752,641	255,123	597,504	312,938
Total cash farm expense	446,509	594,264	162,209	481,031	217,550
Net cash farm income	123,522	158,377	92,913	116,472	95,388
Inventory change	-60,223	-94,126	-27,195	-77,901	-19,902
Depreciation	-46,229	-80,365	-13,658	-43,782	-24,614
Net farm income from operations	17,070	-16,114	52,060	-5,211	50,872
Gain or loss on capital sales	768	2,369	83	198	-
Average net farm income	17,838	-13,745	52,144	-5,013	50,872
Median net farm income	17,044	19,237	17,198	-7,307	39,996
Profitability (cost)		. –			. –
Rate of return on assets	0.6 %	-1.7 %	4.4 %	-0.4 %	4.7 %
Rate of return on equity	-3.2 %	-6.4 %	4.9 %	-6.6 %	5.8 %
Operating profit margin	1.8 %	-4.7 %	21.9 %	-1.4 %	14.8 %
Asset turnover rate	30.3 %	36.5 %	20.2 %	26.8 %	31.4 %
Liquidity & Repayment (end of year					
Current assets	426,684	559,493	249,978	529,955	212,484
Current liabilities	278,643	370,728	98,847	391,262	175,602
Current ratio	1.53	1.51	2.53	1.35	1.21
Working capital	148,041	188,764	151,131	138,693	36,882
Working capital to gross inc	31.7 %	27.1 %	66.7 %	27.0 %	12.7 %
Term debt coverage ratio	0.60	0.35	1.82	0.23	1.12
Replacement coverage ratio Term debt to EBITDA	0.53 4.75	0.29 3.98	1.56 3.90	0.21 6.68	1.04 3.31
Solveney (and of year at east)					
Solvency (end of year at cost) Number of sole proprietors	70	20	18	22	9
Total assets	1,706,743	2,315,002	1,142,499	1,839,188	1,068,074
Total liabilities	799,379	858,762	529,016	1,034,454	599,501
Net worth	907,364	1,456,240	613,483	804,734	468,572
Net worth change	-11,023	-47,088	54,953	-36,139	-2,988
Farm debt to asset ratio	50 %	43 %	48 %	58 %	58 %
Total debt to asset ratio	47 %	37 %	46 %	56 %	56 %
Change in earned net worth %	-1 %	-3 %	10 %	-4 %	-1 %
Nonfarm Information					
Net nonfarm income	37,293	36,004	63,924	22,119	29,647
Farms reporting living expenses	25	6	11	4	4
Total family living expense	57,185	67,244	45,162	-	-
Crop Acres					
Total crop acres	1,564	2,441	487	1,947	806
Total crop acres owned	397	473	238	534	185
Total crop acres cash rented	1,083	1,890	215	1,246	621
Total crop acres share rented	83	78	34	167	-
Machinery value per crop acre	273	314	279	207	266

EXPLANATORY NOTES FOR CROPS TABLES

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

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

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

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

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

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

Barley on Owned Land

	Avg. Of <u>All Farms</u>
Number of farms	7
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Other product return per acre Total product return per acre Gross return per acre	46.19 52.40 100.00 3.17 1.63 167.69 167.69
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Operating interest Total direct expenses per acre Return over direct exp per acre	12.28 47.60 23.56 14.52 10.12 17.11 0.94 3.02 129.15 38.54
Overhead Expenses Custom hire Hired labor Machinery leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	$\begin{array}{c} 0.04 \\ 1.63 \\ 0.30 \\ 2.54 \\ 4.71 \\ 2.26 \\ 1.02 \\ 19.95 \\ 16.30 \\ 6.60 \\ 55.34 \\ 184.49 \\ -16.80 \end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	4.75 -12.05 14.93 -26.98
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	2.46 3.52 3.40 3.68
Net value per unit Machinery cost per acre Est. labor hours per acre	3.17 46.42 1.10

Barley on Cash Rent

	Avg. Of <u>All Farms</u>
Number of farms	9
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Other product return per acre Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	196.90 54.48 100.00 3.91 0.77 214.03 7.85 1.11 222.98
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Land rent Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	$\begin{array}{c} 20.59 \\ 45.74 \\ 34.62 \\ 19.13 \\ 10.34 \\ 17.70 \\ 2.62 \\ 38.42 \\ 3.30 \\ 0.05 \\ 192.50 \\ 30.49 \end{array}$
Overhead Expenses Hired labor Machinery leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	$\begin{array}{c} 2.39\\ 0.55\\ 3.98\\ 1.87\\ 1.01\\ 3.61\\ 18.13\\ 5.06\\ 36.59\\ 229.08\\ -6.10\end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	7.65 1.55 19.91 -18.36
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management Net value per unit	3.53 4.20 3.89 4.25 3.91
Machinery cost per acre Est. labor hours per acre	51.83 1.25

Corn on Owned Land

	Avg. Of <u>All Farms</u>
Number of farms	13
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Crop insurance per acre Gross return per acre	177.11 75.27 100.00 3.13 235.36 22.76 258.12
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Drying expense Fuel & oil Repairs Custom hire Operating interest Total direct expenses per acre Return over direct exp per acre	71.92 75.30 19.17 13.05 1.46 13.63 20.08 2.65 11.60 229.11 29.01
Overhead Expenses Custom hire Hired labor Machinery leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	5.04 3.93 0.42 4.14 5.35 3.78 0.43 30.63 43.96 7.39 105.09 334.20 -76.08
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	10.33 -65.76 29.22 -94.97
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	3.04 4.44 4.00 4.39
Net value per unit Machinery cost per acre Est. labor hours per acre	3.13 87.53 1.63

Corn on Cash Rent

	Avg. Of <u>All Farms</u>
Number of farms	17
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Other product return per acre Total product return per acre Crop insurance per acre Gross return per acre	427.67 79.09 100.00 3.40 0.12 269.02 4.11 273.12
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Drying expense Fuel & oil Repairs Custom hire Land rent Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	$\begin{array}{c} 71.59\\ 72.57\\ 13.65\\ 9.98\\ 0.86\\ 11.49\\ 20.77\\ 3.66\\ 50.82\\ 0.83\\ 15.75\\ 0.38\\ 272.35\\ 0.78\end{array}$
Overhead Expenses Custom hire Hired labor Machinery leases Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	$\begin{array}{c} 10.42 \\ 12.59 \\ 1.32 \\ 0.93 \\ 3.40 \\ 3.18 \\ 0.27 \\ 8.16 \\ 36.00 \\ 4.09 \\ 80.36 \\ 352.71 \\ -79.59 \end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	9.94 -69.64 20.19 -89.83
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	3.44 4.46 4.28 4.54
Net value per unit Machinery cost per acre Est. labor hours per acre	3.40 88.46 1.40

Corn Silage on Owned Land

	Avg. Of <u>All Farms</u>
Number of farms	9
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Crop insurance per acre Gross return per acre	60.30 15.99 100.00 28.19 450.77 22.44 473.21
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Operating interest Total direct expenses per acre Return over direct exp per acre	54.94 48.08 9.46 10.67 19.07 27.95 37.30 4.99 212.46 260.75
Overhead Expenses Custom hire Hired labor RE & pers. property taxes Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	0.29 13.59 2.47 3.77 2.34 21.90 31.46 6.64 82.47 294.92 178.29
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	13.51 191.79 31.06 160.74
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management Net value per unit Machinery cost per acre	13.28 18.44 16.19 18.14 28.19 116.98 2.57
Est. labor hours per acre	2.57

Corn Silage on Cash Rent

	Avg. Of <u>All Farms</u>
Number of farms	8
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Gross return per acre	65.81 13.03 100.00 30.83 401.85 401.85
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Land rent Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	62.80 52.29 18.91 13.00 18.98 28.06 31.12 37.31 7.47 0.21 270.16 131.69
Overhead Expenses Hired labor Machinery leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	$\begin{array}{c} 7.16\\ 0.16\\ 2.59\\ 1.99\\ 0.40\\ 3.23\\ 25.42\\ 5.79\\ 46.74\\ 316.90\\ 84.95\end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	11.17 96.12 28.23 67.89
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management Net value per unit Machinery cost per acre Est. labor hours per acre	20.73 24.32 23.46 25.63 30.83 104.67 2.09

Flax on Cash Rent

	Avg. Of <u>All Farms</u>
Number of farms	5
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Crop insurance per acre Gross return per acre	306.77 19.84 100.00 9.08 180.03 1.95 181.97
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Land rent Operating interest Total direct expenses per acre Return over direct exp per acre	$17.45 \\ 50.74 \\ 21.75 \\ 13.78 \\ 9.53 \\ 15.05 \\ 1.30 \\ 36.29 \\ 5.03 \\ 170.92 \\ 11.05$
Overhead Expenses Custom hire Hired labor Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	2.42 4.60 0.26 3.74 1.58 1.21 6.06 20.18 1.72 41.78 212.70 -30.73
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	8.94 -21.79 16.77 -38.56
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management Net value per unit Machinery cost per acre Est. labor hours per acre	8.62 10.72 10.17 11.02 9.08 53.10 1.21

Hay, Alfalfa on Owned Land

	Avg. Of All Farms
Number of farms	9
Acres	79.80
Yield per acre (ton)	1.94
Operators share of yield %	100.00
Value per ton	63.27
Total product return per acre	122.86
Crop insurance per acre	13.76
Gross return per acre	136.61
Direct Expenses	
Crop insurance	10.15
Fuel & oil	8.60
Repairs	13.18
Custom hire	1.44
Operating interest	1.37
Total direct expenses per acre	35.30
Return over direct exp per acre	101.31
Overhead Expenses	
Hired labor	0.88
RE & pers. property taxes	2.51
Farm insurance	4.24
Utilities	2.21
Dues & professional fees	0.33
Interest	16.28
Mach & bldg depreciation	12.54
Miscellaneous	3.85
Total overhead expenses per acre	42.84
Total dir & ovhd expenses per acre	78.14
Net return per acre	58.47
Government payments	4.40
Net return with govt pmts	62.87
Labor & management charge	12.36
Net return over lbr & mgt	50.51
Cost of Production	
Total direct expense per ton	18.18
Total dir & ovhd exp per ton	40.24
Less govt & other income	30.89
With labor & management	37.26
Net value per unit	63.27
Machinery cost per acre	35.87
Est. labor hours per acre	0.84

Hay, Alfalfa on Cash Rent

	Avg. Of <u>All Farms</u>
Number of farms	11
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Crop insurance per acre Gross return per acre	122.66 1.77 100.00 64.54 114.05 23.23 137.27
Direct Expenses Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Land rent Operating interest Total direct expenses per acre Return over direct exp per acre	3.25 0.56 9.78 8.74 15.12 27.72 1.17 66.69 70.59
Overhead Expenses Hired labor Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	$ \begin{array}{c} 1.78\\ 3.26\\ 1.81\\ 0.61\\ 2.33\\ 16.97\\ 3.62\\ 30.37\\ 97.06\\ 40.22\\ \end{array} $
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	5.22 45.44 13.98 31.46
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management Net value per unit Machinery cost per acre Est. labor hours per acre	37.74 54.93 38.83 46.74 64.54 40.56 1.03

Hay, Grass on Owned Land

	Avg. Of <u>All Farms</u>
Number of farms	5
Acres	20.44
Yield per acre (ton)	1.10
Operators share of yield %	100.00
Value per ton	51.18
Total product return per acre	56.44
Gross return per acre	56.44
Direct Expenses	
Fuel & oil	7.27
Repairs	10.25
Operating interest	1.59
Total direct expenses per acre	19.12
Return over direct exp per acre	37.32
Overhead Expenses	
Hired labor	1.18
RE & pers. property taxes	1.44
Farm insurance	1.23
Utilities	0.74
Interest	5.84
Mach & bldg depreciation	7.21
Miscellaneous	3.15
Total overhead expenses per acre	20.78
Total dir & ovhd expenses per acre	39.90
Net return per acre	16.54
Government payments	-
Net return with govt pmts	16.54
Labor & management charge	11.64
Net return over lbr & mgt	4.90
Cost of Production	
Total direct expense per ton	17.34
Total dir & ovhd exp per ton	36.18
Less govt & other income	36.18
With labor & management	46.74
Net value per unit	51.18
Machinery cost per acre	25.04
Est. labor hours per acre	0.74

Hay, Grass on Cash Rent

	Avg. Of <u>All Farms</u>
Number of farms	9
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Gross return per acre Direct Expenses Fuel & oil	153.76 1.51 100.00 54.49 82.39 82.39 82.39
Repairs Custom hire Land rent Operating interest Total direct expenses per acre Return over direct exp per acre	9.16 1.73 16.70 1.47 35.93 46.46
Overhead Expenses Hired labor Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	1.91 1.07 0.58 0.69 7.15 3.86 15.25 51.18 31.21
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	0.46 31.67 7.57 24.10
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	23.76 33.85 33.55 38.55
Net value per unit Machinery cost per acre Est. labor hours per acre	54.49 25.15 0.66

Hay, Mixed Alfalfa/Grass on Owned Land

Avg. Of <u>All Farms</u>
16
154.05 1.50 100.00 59.90 89.59 1.19 90.78
3.07 7.22 12.35 7.56 3.12 0.14 33.47 57.31
$\begin{array}{c} 0.86\\ 1.45\\ 2.73\\ 2.96\\ 1.91\\ 0.94\\ 11.12\\ 8.82\\ 2.62\\ 33.41\\ 66.88\\ 23.90\\ \end{array}$
0.38 24.28 16.62 7.66
22.38 44.72 43.67 54.78 59.90 37.55 1.08

Hay, Mixed Alfalfa/Grass on Cash Rent

	Avg. Of <u>All Farms</u>
Number of farms	17
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Crop insurance per acre Gross return per acre	141.98 1.38 100.00 53.59 74.13 0.02 74.15
Direct Expenses Crop insurance Fuel & oil Repairs Custom hire Land rent Operating interest Total direct expenses per acre Return over direct exp per acre	4.78 7.14 11.57 0.21 23.36 2.48 49.55 24.60
Overhead Expenses Custom hire Hired labor Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre Government payments	1.11 1.53 3.51 1.83 0.83 1.98 10.32 4.43 25.54 75.09 -0.94 0.99
Net return with govt pmts Labor & management charge Net return over lbr & mgt	0.99 0.05 13.16 -13.11
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management Net value per unit Machinery cost per acre Est. labor hours per acre	35.82 54.29 53.55 63.07 53.59 31.51 0.98

Hay, Small Grain on Owned Land

	Avg. Of <u>All Farms</u>
Number of farms	12
Acres Yield per acre (ton) Operators share of yield % Value per ton Other product return per acre Total product return per acre Gross return per acre	65.15 2.69 100.00 57.14 0.95 154.86 154.86
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Operating interest Total direct expenses per acre Return over direct exp per acre	11.07 36.71 7.95 5.72 8.74 12.63 1.09 2.70 86.60 68.26
Overhead Expenses Hired labor Machinery leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	$\begin{array}{c} 2.19\\ 0.51\\ 3.27\\ 4.01\\ 2.29\\ 0.53\\ 14.76\\ 13.98\\ 8.02\\ 49.56\\ 136.16\\ 18.70\end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	8.74 27.44 12.89 14.55
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	32.15 50.55 46.95 51.73
Net value per unit Machinery cost per acre Est. labor hours per acre	57.14 39.59 0.96

Hay, Small Grain on Cash Rent

	Avg. Of <u>All Farms</u>
Number of farms	13
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Gross return per acre	83.61 2.60 100.00 52.80 137.45 137.45
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Land rent Operating interest Total direct expenses per acre Return over direct exp per acre	$\begin{array}{c} 16.20 \\ 28.93 \\ 9.55 \\ 5.24 \\ 9.16 \\ 13.49 \\ 8.21 \\ 37.65 \\ 3.81 \\ 132.24 \\ 5.21 \end{array}$
Overhead Expenses Custom hire Hired labor Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	$\begin{array}{c} 0.69\\ 3.16\\ 4.50\\ 2.78\\ 0.92\\ 3.66\\ 12.06\\ 6.83\\ 34.60\\ 166.84\\ -29.39\end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	8.42 -20.97 16.48 -37.45
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management Net value per unit Machinery cost per acre Est. labor hours per acre	50.80 64.09 60.86 67.19 52.80 46.67 1.35
	1.00

Oats on Owned Land

	Avg. Of <u>All Farms</u>
Number of farms	5
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Other product return per acre Total product return per acre Gross return per acre	83.51 63.01 100.00 1.95 12.75 135.71 135.71
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Operating interest Total direct expenses per acre Return over direct exp per acre	7.47 28.89 10.28 9.72 7.85 13.76 6.90 7.35 92.21 43.50
Overhead Expenses Hired labor RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	3.99 3.19 1.79 1.90 0.48 26.84 9.86 6.05 54.10 146.31 -10.61
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	6.43 -4.17 11.32 -15.49
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management Net value per unit Machinery cost per acre Est. labor hours per acre	1.46 2.32 2.02 2.20 1.95 42.03 1.11

Pasture on Owned Land				
	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	28	5	5	6
Acres Yield per acre (aum) Operators share of yield % Value per aum Total product return per acre Crop insurance per acre Gross return per acre Direct Expenses	779.51 0.65 100.00 22.53 14.69 0.19 14.88	538.09 0.46 100.00 20.98 9.61 - 9.61	1,366.00 0.50 100.00 21.89 10.94 0.23 11.18	440.00 0.81 100.00 25.07 20.22 - 20.22
Repairs Total direct expenses per acre Return over direct exp per acre	0.59 1.28 13.60	0.40 0.92 8.69	0.64 1.41 9.77	0.53 1.31 18.91
Overhead Expenses RE & pers. property taxes Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	1.37 6.31 0.53 0.89 9.11 10.39 4.50	1.48 13.49 0.41 0.40 15.78 16.70 -7.09	1.08 2.83 0.61 0.66 5.17 6.58 4.59	1.87 3.69 0.45 0.59 6.61 7.92 12.30

Pasture on Cash Rent				
	Avg. Of All Farms	Low 20%	40 - 60%	<u> </u>
Number of farms	28	5	5	6
Acres Yield per acre (aum) Operators share of yield % Value per aum Total product return per acre Crop insurance per acre Gross return per acre	1,624.14 0.61 100.00 22.29 13.60 0.28 13.88	1,305.06 0.51 100.00 20.82 10.52 - 10.52	1,275.12 0.54 100.00 20.77 11.19 - 11.19	721.92 1.02 100.00 21.63 22.09 1.60 23.68
Direct Expenses Crop insurance Repairs Land rent Total direct expenses per acre Return over direct exp per acre	0.19 0.55 13.08 14.37 -0.50	0.53 18.13 19.22 -8.70	0.58 10.31 11.28 -0.09	1.16 0.47 14.24 16.39 7.29
Overhead Expenses Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	0.51 0.65 1.17 15.54 -1.66	0.59 0.93 1.52 20.74 -10.22	0.44 0.61 1.06 12.33 -1.14	0.72 0.79 1.51 17.91 5.78

Prevented Planting on Cash Rent

	Avg. Of <u>All Farms</u>
Number of farms	6
Acres Yield per acre	112.14
Operators share of yield % Value	100.00
Total product return per acre	-
Crop insurance per acre Gross return per acre	107.26 107.26
Direct Expenses	
Seed Fertilizer	7.86 32.61
Crop chemicals	8.92
Crop insurance	11.18
Fuel & oil	2.52
Repairs	5.17
Land rent	24.96
Operating interest	3.61
Total direct expenses per acre	96.84 10.43
Return over direct exp per acre	10.43
Overhead Expenses	
Custom hire	2.72
Hired labor	2.28
Farm insurance	1.29
Utilities	1.14
Interest March & black descention	9.23
Mach & bldg depreciation Miscellaneous	7.68 3.68
Total overhead expenses per acre	28.02
Total dir & ovhd expenses per acre	124.86
Net return per acre	-17.59
Government payments	11.08
Net return with govt pmts	-6.52
Labor & management charge	4.39
Net return over lbr & mgt	-10.91

Soybeans on Owned Land

	Avg. Of <u>All Farms</u>
Number of farms	5
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Gross return per acre	101.84 24.07 100.00 8.10 195.06 195.06
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	75.45 12.50 13.88 9.72 8.48 15.32 5.20 4.98 1.26 146.80 48.27
Overhead Expenses Hired labor RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	3.45 4.10 5.31 3.86 0.53 34.61 29.09 3.65 84.59 231.39 -36.32
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	15.91 -20.41 22.02 -42.43
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management Net value per unit Machinery cost per acre Est. labor hours per acre	6.10 9.61 8.95 9.87 8.10 58.53 1.26

Soybeans on Cash Rent

	Avg. Of <u>All Farms</u>
Number of farms	7
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Crop insurance per acre Gross return per acre	462.83 28.13 100.00 8.18 230.19 2.64 232.83
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Land rent Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	$\begin{array}{c} 79.16\\ 23.00\\ 20.60\\ 12.33\\ 10.58\\ 16.08\\ 12.93\\ 54.51\\ 1.87\\ 5.48\\ 0.99\\ 237.52\\ -4.70\end{array}$
Overhead Expenses Hired labor Machinery leases Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	9.10 0.76 3.26 2.12 2.65 26.56 2.96 47.42 284.94 -52.12
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	7.29 -44.83 19.22 -64.05
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management Net value per unit Machinery cost per acre Est. labor hours per acre	8.44 10.13 9.78 10.46 8.18 68.72 0.99

Sunflowers on Owned Land

	Avg. Of <u>All Farms</u>
Number of farms	11
Acres Yield per acre (cwt.) Operators share of yield % Value per cwt. Total product return per acre Crop insurance per acre Gross return per acre	157.35 15.75 100.00 17.74 279.28 4.38 283.65
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	$\begin{array}{c} 36.92 \\ 50.44 \\ 28.51 \\ 12.58 \\ 12.82 \\ 20.77 \\ 13.13 \\ 0.29 \\ 5.21 \\ 0.37 \\ 181.06 \\ 102.60 \end{array}$
Overhead Expenses Custom hire Hired labor Machinery leases RE & pers. property taxes Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	3.05 2.56 0.60 4.66 3.33 2.26 18.42 18.85 5.05 58.77 239.83 43.82
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	7.24 51.06 21.13 29.93
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	11.50 15.23 14.49 15.84
Net value per unit Machinery cost per acre Est. labor hours per acre	17.74 70.72 1.23

Sunflowers on Cash Rent

	Avg. Of <u>All Farms</u>
Number of farms	18
Acres Yield per acre (cwt.) Operators share of yield % Value per cwt. Total product return per acre Crop insurance per acre Gross return per acre	322.23 15.64 100.00 18.58 290.63 2.41 293.04
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Land rent Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	$\begin{array}{c} 32.14\\ 48.82\\ 32.62\\ 11.82\\ 10.44\\ 15.61\\ 11.50\\ 40.67\\ 0.45\\ 6.50\\ 0.23\\ 210.80\\ 82.24 \end{array}$
Overhead Expenses Custom hire Hired labor Machinery leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	$\begin{array}{c} 1.81\\ 3.97\\ 1.22\\ 3.03\\ 1.77\\ 0.38\\ 3.35\\ 22.29\\ 2.82\\ 40.64\\ 251.44\\ 41.60\end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	5.77 47.37 21.62 25.75
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	13.48 16.08 15.55 16.94
Net value per unit Machinery cost per acre Est. labor hours per acre	18.58 64.65 1.11

Wheat, Spring on Owned Land

	Avg. Of <u>All Farms</u>	Low 20%	<u> </u>	<u> </u>
Number of farms	28	5	5	6
Acres	299.66	286.46	212.00	491.48
Yield per acre (bu.)	49.04	40.68	47.64	55.84
Operators share of yield %	100.00	100.00	100.00	100.00
Value per bu.	4.48	4.21	4.31	4.73
Other product return per acre	0.33	-	-	0.44
Total product return per acre	220.25	171.28	205.49	264.28
Crop insurance per acre	1.80	2.02	8.40	1.13
Other crop income per acre	0.18 222.24	173.30	213.90	- 265.41
Gross return per acre	222.24	175.50	213.90	203.41
Direct Expenses	40.40	40.05	40.74	44.00
Seed	13.16	18.35	13.71	11.06
Fertilizer	59.44	63.74	49.86	59.33
Crop chemicals	28.79	31.61	32.21	26.48
Crop insurance Fuel & oil	14.74 10.48	17.83 12.11	12.64 9.42	14.34 9.50
Repairs	15.85	20.72	9.42 15.07	9.50 14.63
Custom hire	9.24	31.31	9.86	5.82
Operating interest	3.48	2.63	3.13	1.30
Miscellaneous	0.25	2.00	5.10	0.64
Total direct expenses per acre	155.43	198.30	145.89	143.10
Return over direct exp per acre	66.80	-25.00	68.00	122.31
Overhead Expenses Custom hire	1.53	4.38	_	0.99
Hired labor	2.61	2.15	0.91	4.64
Machinery leases	0.20		1.15	0.13
RE & pers. property taxes	3.30	4.01	2.76	3.06
Farm insurance	4.82	4.41	5.01	6.50
Utilities	2.67	3.12	3.38	2.67
Dues & professional fees	0.44	0.84	0.50	0.05
Interest	14.92	16.38	13.88	11.66
Mach & bldg depreciation	23.56	18.60	18.92	29.64
Miscellaneous	5.44	5.77	11.56	4.40
Total overhead expenses per acre	59.50	59.66	58.07	63.74
Total dir & ovhd expenses per acre	214.94	257.96	203.97	206.84
Net return per acre	7.30	-84.66	9.93	58.57
Government payments	9.41	28.33	6.38	4.35
Net return with govt pmts	16.71	-56.33	16.31	62.92
Labor & management charge	20.22	24.42	18.50	21.34
Net return over lbr & mgt	-3.51	-80.75	-2.19	41.58
Cost of Production				
Total direct expense per bu.	3.17	4.87	3.06	2.56
Total dir & ovhd exp per bu.	4.38	6.34	4.28	3.70
Less govt & other income	4.14	5.59	3.97	3.60
With labor & management	4.56	6.20	4.36	3.98
Net value per unit	4.48	4.21	4.31	4.73
Machinery cost per acre	61.51	86.85	55.09	59.58
Est. labor hours per acre	1.10	1.35	1.10	1.03

Wheat, Spring on Cash Rent

	Avg. Of <u>All Farms</u>	Low 20%	40 - 60%	<u> </u>
Number of farms	27	5	6	6
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Other product return per acre Total product return per acre Crop insurance per acre Gross return per acre	603.86 51.00 100.00 4.59 0.18 234.19 4.71 238.90	461.44 37.83 100.00 4.75 - 179.71 11.88 191.60	793.69 46.95 100.00 4.48 0.24 210.78 2.63 213.41	598.03 54.38 100.00 4.82 0.50 262.60 7.72 270.32
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Land rent Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	$12.44 \\ 64.33 \\ 35.90 \\ 14.47 \\ 9.63 \\ 14.21 \\ 6.41 \\ 45.59 \\ 0.89 \\ 5.38 \\ 0.38 \\ 209.63 \\ 29.27 \\ 1200000000000000000000000000000000000$	11.82 70.67 40.37 12.92 8.96 7.89 4.83 39.74 8.27 0.02 205.48 -13.88	$12.17 \\ 57.88 \\ 32.54 \\ 14.74 \\ 9.91 \\ 15.12 \\ 4.49 \\ 40.81 \\ 0.61 \\ 6.13 \\ 0.61 \\ 195.02 \\ 18.40 \\ 1.000 \\ 18.40 \\ 1.000 \\ $	13.14 62.43 33.60 13.99 8.92 16.71 6.01 40.27 3.73 0.49 199.28 71.04
Overhead Expenses Custom hire Hired labor Machinery leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	$\begin{array}{c} 1.01\\ 4.15\\ 0.62\\ 3.46\\ 1.98\\ 0.40\\ 3.04\\ 24.14\\ 3.83\\ 42.63\\ 252.27\\ -13.36\end{array}$	$\begin{array}{c} 2.86\\ 0.46\\ 0.05\\ 3.70\\ 1.36\\ 0.75\\ 4.90\\ 27.78\\ 2.72\\ 44.57\\ 250.05\\ -58.45\end{array}$	3.12 0.20 2.95 1.53 0.48 1.87 23.81 3.64 37.61 232.62 -19.21	3.47 2.23 4.31 2.01 0.60 3.07 23.08 2.28 41.04 240.33 29.99
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	6.98 -6.38 18.78 -25.16	3.35 -55.10 26.34 -81.44	4.77 -14.44 15.68 -30.12	9.64 39.63 17.40 22.23
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	4.11 4.95 4.71 5.08	5.43 6.61 6.21 6.90	4.15 4.95 4.79 5.13	3.66 4.42 4.09 4.41
Net value per unit Machinery cost per acre Est. labor hours per acre	4.59 58.03 0.95	4.75 55.57 0.82	4.48 54.57 0.88	4.82 57.46 0.94

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.

Avg. Of <u>All Farms</u> Low 20% 40 - 60% High 20% Number of farms 25 5 5 5 Quantity Value Quantity Value Quantity Value Quantity Value Beef Calves sold (lb) 31.85 64.09 20.03 33.04 44.20 53.16 115.53 23.28 79.97 76.72 Transferred out (lb) 68.15 124.84 138.50 142.02 46.84 93.80 Cull sales (lb) 30.20 17.34 24.18 33.74 Other income 0.27 0.65 -33.34 -16.88 Purchased (lb) -19.38 -11.93 Transferred in (lb) -26.05 -9.29 -4.45 Inventory change (lb) 0.22 -19.70 -3.22 -22.22 181.01 205.12 Gross margin 174.19 135.84 **Direct Expenses** 18.05 22.59 4.60 18.85 5.95 15.84 5.82 Protein Vit Minerals (Ib.) 5.13 5.46 0.07 Complete Ration (lb.) 22.79 0.90 140.53 0.72 0.23 5.06 Aftermath Grazing (aum) 0.18 4.05 0.25 6.57 0.05 1.33 Corn Silage (lb.) 250.17 3.35 89.46 1.12 449.08 6.49 199.14 1.99 Hay, Alfalfa (lb.) 20.38 0.60 76.79 1.92 56.13 1.96 Hav, Grass (lb.) 1,083.25 30.09 1,421.06 45.05 728.44 20.25 1,106.76 29.93 Pasture (aum) 1.33 30.59 1.00 22.78 1.31 33.51 1.78 40.66 Other feed stuffs (lb) 47.95 0.81 26.74 31.27 1 42 66.56 0.63 0.92 Breeding fees 0.74 0.89 3.80 5.18 Veterinary 4.13 2.93 Supplies 0.66 0.71 0.48 Fuel & oil 4.82 6.05 4.05 5.35 6.39 7.07 5.47 5.56 Repairs 2.30 2.67 Custom hire 2.89 1.46 Marketing 1.48 1.03 1.29 1.36 2.27 Operating interest 2.35 3.47 1.55 Total direct expenses 99.01 106.37 100.69 101.37 Return over direct expense 75.18 29.48 80.32 103.75 **Overhead Expenses** Hired labor 0.89 0.08 0.15 1.49 Farm insurance 2.78 3.07 3.99 2.12 Utilities 2.33 2.32 3.03 2.11 2.98 4.83 5.26 1.53 Interest 7.37 9.55 5.00 Mach & bldg depreciation 9.16 Miscellaneous 4.14 3.20 3.38 3.83 Total overhead expenses 20.48 22.67 25.35 16.07 Total dir & ovhd expenses 119.49 129.03 126.05 117.45 Net return 54.70 6.81 54.96 87.67 Labor & management charge 15.75 14.16 17.83 14.95 -7.35 Net return over lbr & mgt 38.95 37.13 72.73 **Cost of Production Per Cwt. Produced** Total direct expense per unit 99.00 106.32 100.69 101.37 Total dir& ovhd expense per unit 119.48 128.98 126.05 117.45 With other revenue adjustments 134.43 164.66 131.26 122.31 137.25 With labor and management 150.18 178.82 149.09 1.09 Est. labor hours per unit 1.17 1.10 1.19 Other Information Number of cows 126.6 91.8 100.0 199.4 Pregnancy percentage 97.5 95.0 96.6 99.3 Pregnancy loss percentage 2.8 0.6 3.3 4.2 Culling percentage Calving percentage 11.5 9.8 14.0 8.3 94.8 94.4 93.3 95.2 Weaning percentage 90.1 90.1 91.5 90.3 0.95 Calves sold per cow 0.94 0.92 0.95 Calf death loss percent 3.5 4.1 4.7 4.2 Cow death loss percent 1.6 1.5 1.0 1.7 Average weaning weight 541 562 541 522 Lb. weaned/exposed female 488 507 488 477 Feed cost per cow 383.68 418.70 415.70 395.44 Avg wgt/ Beef Calves sold 544 599 543 641 201.21 Avg price / cwt. 165.00 189.84 217.34

Beef Cow-Calf -- Average Per Cwt. Produced

_	Avg. Of All Farms		Low 2	Low 20%		40 - 60%		High 20%	
Number of farms		25 5		5		5	5		
Beef Calves sold (lb) Transferred out (lb) Cull sales (lb) Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 160.5 343.4	Value 323.01 629.16 152.21 -97.67 -131.30 1.09 877.85	Quantity 103.1 411.7	Value 170.12 713.01 89.26 -171.65 -101.40 699.34	Quantity 119.3 393.1	Value 226.45 727.66 123.89 -86.50 -47.60 -16.48 927.43	Quantity 261.3 230.3	Value 567.98 461.13 165.87 3.21 -58.66 -21.87 -109.24 1,008.43	
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Aftermath Grazing (aum) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) Other feed stuffs (lb) Breeding fees Veterinary Supplies Fuel & oil Repairs Custom hire Marketing Operating interest Total direct expenses Return over direct expense	91.0 114.8 0.9 1,260.8 102.7 5,459.2 6.7 241.7	$\begin{array}{c} 25.87\\ 4.54\\ 20.40\\ 16.90\\ 3.02\\ 151.63\\ 154.17\\ 7.14\\ 3.75\\ 20.84\\ 3.31\\ 24.28\\ 32.21\\ 11.57\\ 7.47\\ 11.87\\ 498.98\\ 378.88\end{array}$	116.3 1.2 460.6 395.3 7,315.8 5.1 342.7	$\begin{array}{c} 23.70\\ 26.04\\ 5.76\\ 9.88\\ 231.92\\ 117.25\\ 4.16\\ 4.59\\ 15.08\\ 3.63\\ 31.17\\ 36.39\\ 14.86\\ 5.31\\ 17.85\\ 547.58\\ 151.76\end{array}$	96.6 720.0 1.3 2,300.9 287.6 3,732.2 6.7 137.0	$\begin{array}{c} 30.49\\ 28.00\\ 33.67\\ 33.26\\ 10.07\\ 103.78\\ 171.71\\ 4.72\\ 19.48\\ -\\ 20.77\\ 28.03\\ 13.66\\ 6.63\\ 11.64\\ 515.91\\ 411.52\\ \end{array}$	77.9 3.6 0.2 979.0 5,441.1 8.7 153.7	28.60 0.36 6.55 9.79 147.16 199.88 3.09 25.48 2.34 26.28 27.34 26.28 27.34 7.15 6.70 7.64 498.38 510.05	
Overhead Expenses Hired labor Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		4.46 14.00 11.74 14.99 37.15 20.88 103.22 602.20 275.65		0.44 15.82 11.95 24.85 47.14 16.50 116.69 664.28 35.06		0.77 20.43 15.51 26.93 48.95 17.33 129.90 645.81 281.61		7.33 10.41 10.37 7.51 24.58 18.83 79.02 577.40 431.03	
Labor & management charge Net return over lbr & mgt		79.37 196.28		72.91 -37.84		91.37 190.25		73.49 357.54	
Cost of Production Per Cwt. Produce Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management	ed	99.00 119.48 134.43 150.18		106.32 128.98 164.66 178.82		100.69 126.05 131.26 149.09		101.37 117.45 122.31 137.25	
Est. labor hours per unit		5.48		6.02		5.61		5.84	
Other Information Number of cows Pregnancy percentage Pregnancy loss percentage Culling percentage Calving percentage Weaning percentage Calves sold per cow Calf death loss percent Cow death loss percent Average weaning weight Lb. weaned/exposed female Feed cost per cow Avg wgt/ Beef Calves sold Avg price / cwt.		126.6 97.5 2.8 11.5 94.8 90.1 0.94 4.1 1.6 541 488 383.68 544 201.21		91.8 95.0 0.6 8.3 94.4 90.1 0.92 4.7 1.5 562 507 418.70 599 165.00		100.0 96.6 3.3 9.8 93.3 90.3 0.95 4.2 1.0 541 488 415.70 641 189.84		199.4 99.3 4.2 95.2 91.5 0.95 3.5 1.7 522 477 395.44 543 217.34	

Beef Cow-Calf -- Average Per Cow

	Avg. (All Far	
Number of farms		5
Beef Calves sold (lb) Transferred out (lb) Other income Gross margin	Quantity 13.28 86.72	Value 23.15 141.76 164.92
Direct Expenses Protein Vit Minerals (lb.) Aftermath Grazing (aum) Corn Silage (lb.) Hay, Grass (lb.) Pasture (aum) DDGS, dry (lb.) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Custom hire Livestock leases Operating interest Total direct expenses Return over direct expense	18.07 0.12 559.55 1,007.03 0.83 10.13 16.31	$5.34 \\ 2.69 \\ 7.36 \\ 32.92 \\ 18.37 \\ 1.71 \\ 0.18 \\ 3.36 \\ 0.22 \\ 5.61 \\ 6.74 \\ 3.00 \\ 54.60 \\ 2.73 \\ 144.82 \\ 20.10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 $
Overhead Expenses Hired labor Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		1.08 1.43 1.78 0.28 2.02 5.08 1.30 12.98 157.80 7.12
Labor & management charge Net return over lbr & mgt		10.68 -3.56
Cost of Production Per Cwt. Produced Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management		144.82 157.80 157.80 168.48
Est. labor hours per unit		0.87
Other Information Number of cows Pregnancy percentage Pregnancy loss percentage Culling percentage Calving percentage Weaning percentage Calves sold per cow Calf death loss percent Cow death loss percent Average weaning weight Lb. weaned/exposed female Feed cost per cow Avg wgt/ Beef Calves sold Avg price / cwt.		89.2 92.6 0.7 2.9 92.0 88.7 0.96 5.8 0.2 532 472 394.55 631 174.34

Beef Cow-Calf (Shares) -- Average Per Cwt. Produced

Avg. Of <u>All Farms</u> Number of farms 5 Quantity Value Beef Calves sold (lb) 133.22 76.4 Transferred out (lb) 499.0 815.68 Other income 948.90 Gross margin **Direct Expenses** Protein Vit Minerals (lb.) 103.9 30.70 Aftermath Grazing (aum) 15.48 0.7 Corn Silage (lb.) 3.219.5 42.37 Hay, Grass (lb.) Pasture (aum) 189.40 105.71 5,794.2 4.8 58.3 DDGS, dry (lb.) 9.87 Other feed stuffs (lb) 93.9 1.03 Veterinary 19.31 Supplies 1.25 Fuel & oil 32.27 38.79 Repairs 17.29 Custom hire Livestock leases 314.13 15.68 Operating interest Total direct expenses 833.27 Return over direct expense 115.62 **Overhead Expenses** Hired labor 6.24 8.22 10.25 Farm insurance Utilities Dues & professional fees 1.59 11.62 Interest Mach & bldg depreciation 29.24 Miscellaneous 7.49 Total overhead expenses 74.66 Total dir & ovhd expenses 907.93 40.96 Net return 61.47 Labor & management charge Net return over Ibr & mgt -20.51 **Cost of Production Per Cwt. Produced** Total direct expense per unit 144.82 Total dir& ovhd expense per unit 157.80 With other revenue adjustments 157.80 With labor and management 168.48 Est. labor hours per unit 5.01 Other Information 89.2 Number of cows Pregnancy percentage Pregnancy loss percentage 92.6 0.7 2.9 Culling percentage 92.0 Calving percentage Weaning percentage 88.7 Calves sold per cow 0.96 Calf death loss percent 5.8 Cow death loss percent Average weaning weight 0.2 532 Lb. weaned/exposed female 472 Feed cost per cow 394.55 Avg wgt/ Beef Calves sold 631 Avg price / cwt. 174.34

Beef Cow-Calf (Shares) -- Average Per Cow

Beef Replacement Heifers -- Average Per Head Sold/Trans

	Avg. All Fai	
Number of farms		19
Beef Replace sold (hd) Transferred out (hd) Cull sales (hd) Other income	Quantity 0.1 0.9 0.0	Value 219.77 1,363.97 6.55
Other income Transferred in (hd) Inventory change (hd) Gross margin	0.5 -0.6	-462.07 -795.10 333.12
Direct Expenses Protein Vit Minerals (Ib.) Complete Ration (Ib.) Aftermath Grazing (aum) Corn (bu.) Corn Silage (Ib.) Hay, Alfalfa (Ib.) Hay, Grass (Ib.) Oats (bu.) Pasture (aum) DDGS, dry (Ib.) Other feed stuffs (Ib) Veterinary Supplies Fuel & oil Repairs Custom hire Operating interest Total direct expenses Return over direct expense	342.6 91.7 0.3 5.5 2,896.4 18.3 2,028.4 1.8 2.4 74.5 149.2	$\begin{array}{c} 13.91\\ 3.71\\ 6.58\\ 15.92\\ 16.20\\ 0.64\\ 56.74\\ 4.69\\ 56.57\\ 6.07\\ 2.29\\ 15.87\\ 0.33\\ 8.85\\ 10.05\\ 3.19\\ 3.95\\ 225.57\\ 107.55\end{array}$
Overhead Expenses Hired labor Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		1.03 4.33 3.85 0.98 5.55 11.98 3.07 30.81 256.38 76.74
Labor & management charge Net return over lbr & mgt		22.59 54.16
Est. labor hours per unit		1.54
Other Information No. purchased or trans in Number sold or trans out Average number of head Percentage death loss Feed cost/head sold/trans		22 48 31 0.3 183.33

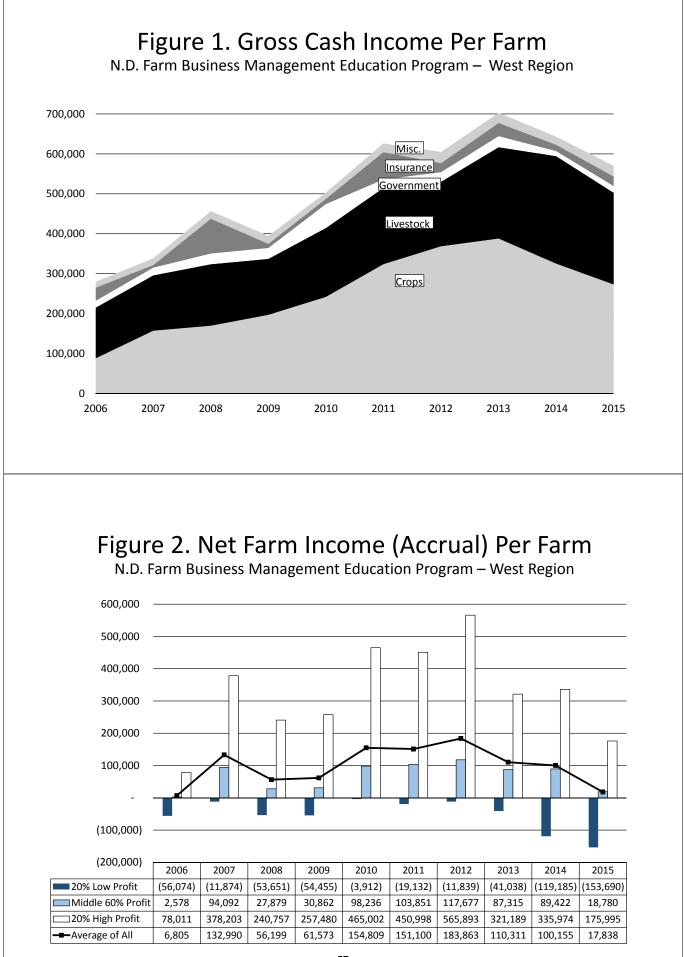
Beef Backgrounding -- Average Per Cwt. Produced

		. Of arms
Number of farms		6
Backgnd Beef sold (lb) Transferred out (lb) Other income	Quantity 390.05 77.03	Value 730.19 124.87
Transferred in (lb) Inventory change (lb) Gross margin	-242.46 -124.62	-468.21 -271.82 115.03
Direct Expenses Protein Vit Minerals (lb.) Barley (bu.) Corn (bu.) Corn Silage (lb.) Hay, Grass (ib.) Oats (bu.) DDGS, dry (lb.) DDGS, wet (lb.) Other feed stuffs (lb) Veterinary Fuel & oil Repairs Custom hire Marketing Operating interest Total direct expenses Return over direct expense	78.42 1.41 8.65 764.80 413.79 3.68 24.62 92.43 0.22	6.68 3.87 22.16 13.00 11.38 8.78 1.48 2.81 0.43 9.44 2.90 3.53 3.94 7.61 1.70 99.72 15.31
Overhead Expenses Hired labor Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		0.37 1.47 1.10 0.46 2.14 4.54 1.04 11.13 110.84 4.19
Labor & management charge Net return over lbr & mgt		7.98 -3.79
Cost of Production Per Cwt. Produced Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management		179.79 182.17 182.17 183.88
Est. labor hours per unit		0.53
Other Information No. purchased or trans in Number sold or trans out Percentage death loss Avg. daily gain (lb.) Lb. of conc / lb. of gain Lb. of feed / lb. of gain Feed cost per cwt. of gain Feed cost per head Avg wgt / Backgnd Beef sold Avg sales price / cwt.		87 128 0.4 1.74 8.78 15.47 70.59 109.30 728 187.20

Avg. Of <u>All Farms</u> Number of farms 6 Quantity Value Backgnd Beef sold (lb) 604.0 1.130.65 Transferred out (lb) 119.3 193.35 Other income -725.00 -375.4 Transferred in (lb) Inventory change (lb) -193.0 -420.89 Gross margin 178.12 **Direct Expenses** Protein Vit Minerals (lb.) 121.4 10.34 Barley (bu.) 6.00 2.2 34.32 20.13 13.4 Corn (bu.) Corn Silage (lb.) 1,184.2 Hay, Grass (lb.) 640.7 17.62 Oats (bu.) DDGS, dry (lb.) DDGS, wet (lb.) 5.7 13.60 38.1 2.29 143.1 4.35 Other feed stuffs (lb) 0.3 0.67 Veterinary 14.62 4.50 Fuel & oil 5.47 Repairs Custom hire 6.10 Marketing 11.79 Operating interest 2.63 154.41 Total direct expenses Return over direct expense 23.71 **Overhead Expenses** 0.58 Hired labor Farm insurance 2.28 Utilities 1.71 Interest 3.31 Mach & bldg depreciation 7.03 Miscellaneous 2.32 17.23 Total overhead expenses Total dir & ovhd expenses 171.63 Net return 6.48 Labor & management charge 12.35 Net return over lbr & mgt -5.87 **Cost of Production Per Cwt. Produced** Total direct expense per unit 179.79 Total dir& ovhd expense per unit 182.17 With other revenue adjustments 182.17 With labor and management 183.88 Est. labor hours per unit 0.82 **Other Information** No. purchased or trans in 87 Number sold or trans out 128 Percentage death loss 0.4 Avg. daily gain (lb.) 1.74 Lb. of conc / lb. of gain 8.78 Lb. of feed / lb. of gain 15.47 Feed cost per cwt. of gain Feed cost per head 70.59 109.30 Avg wgt / Backgnd Beef sold 728 187.20

Beef Backgrounding -- Average Per Head

Avg sales price / cwt.



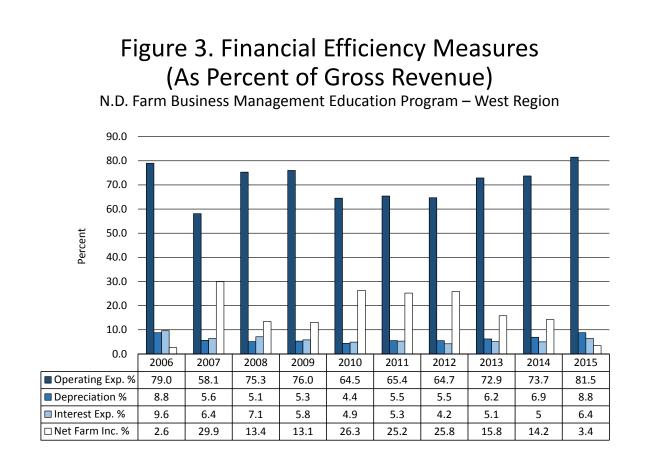


Figure 4. Profitability Measures Per Farm

 $U_{\text{eq}} = \frac{25.0}{20.0}$

N.D. Farm Business Management Education Program – West Region

-10.0										
10.0	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Rate of Return on Assets	0.5	15.2	5.0	4.6	11.9	9.7	10.3	5.1	5.0	0.6
Rate of Return on Equity	-6.9	24.1	4.0	4.3	20.5	14.7	15.2	5.9	5.8	-3.2

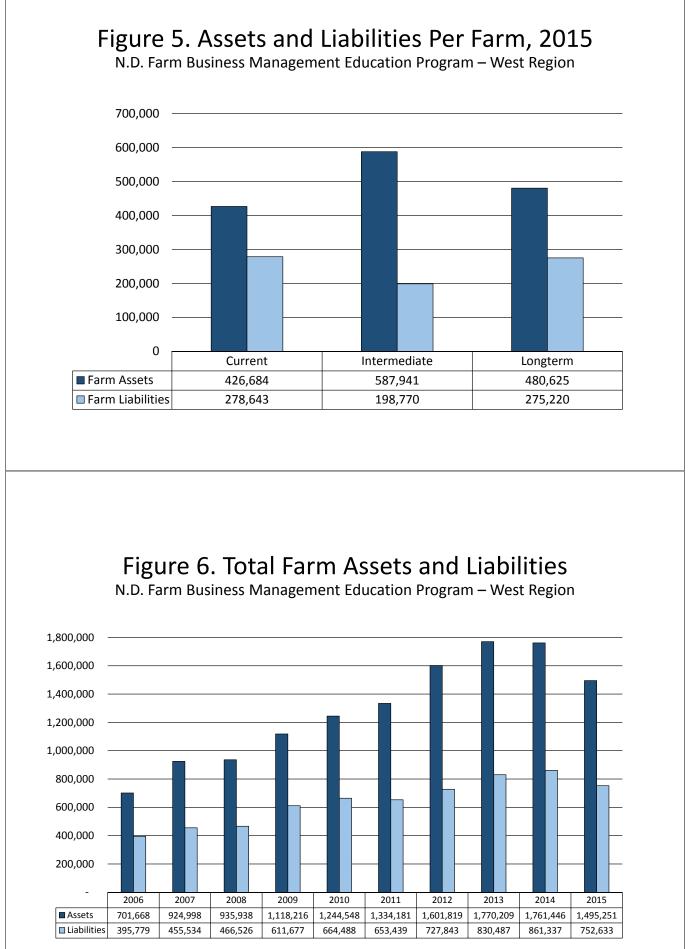
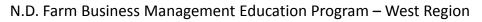
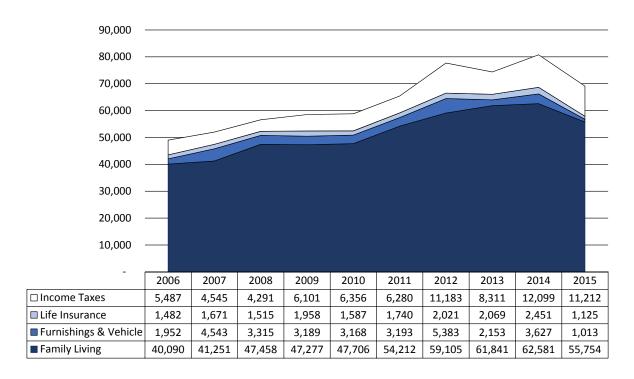
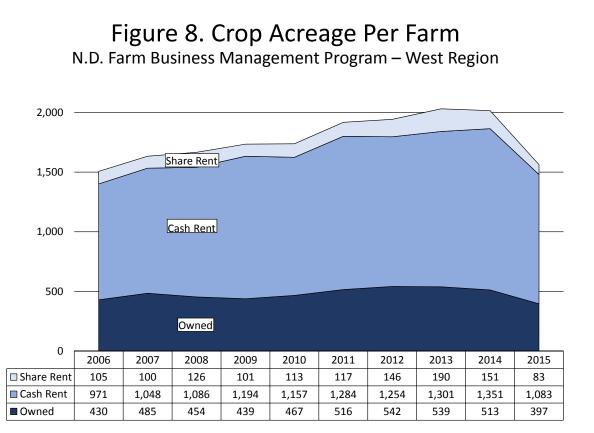


Figure 7. Household and Personal Expenses







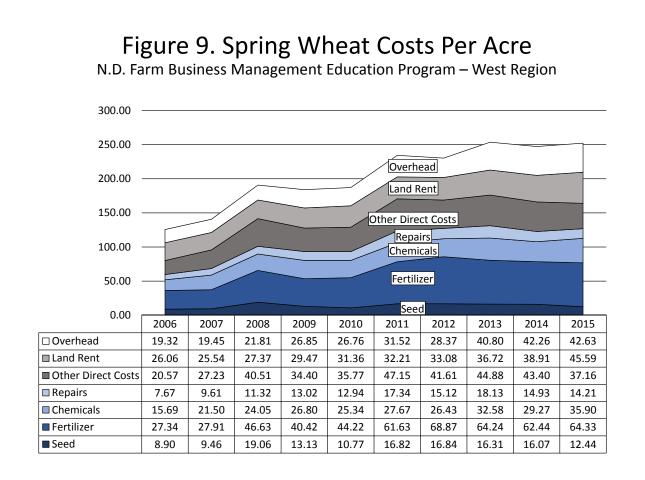
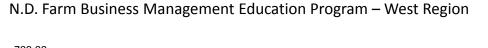
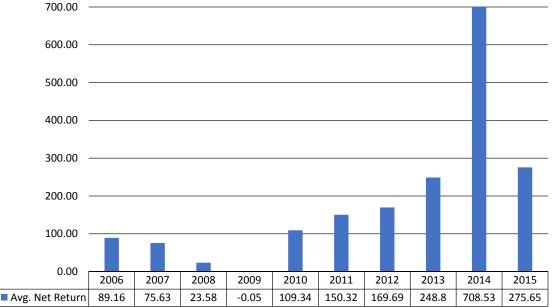


Figure 10. Average Net Return Per Beef Cow





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