2016 ANNUAL REPORT North Central North Dakota

North Dakota Farm and Ranch Business Management Education





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NORTH DAKOTA FARM BUSINESS MANAGEMENT EDUCATION

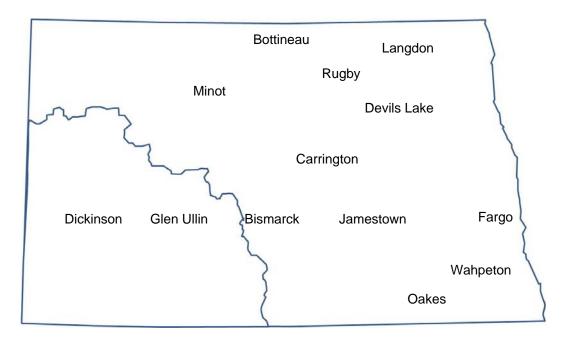
REGION 2 – NORTH CENTRAL AVERAGES 2016 ANNUAL REPORT

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

School	<u>Instructor</u>
Dakota College at Bottineau Dakota College at Bottineau - Minot	
Dakota College at Bottineau - Rugby	. Allen Graner
Lake Region State College - Devils Lake	. Jason Fewell Jeremiah Halley
Lake Region State College - Langdon	. Allison Thompson

This report was made possible by the farm families who cooperated with their farm management instructors in getting the records for 2016 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



2016 North Central Report North Dakota Farm Business Management Education

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INTRODUCTION

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

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

The 2016 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 28th 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" which refers to all other government payments such as disaster payments but not including CRP payments; and CRP payments.

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

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

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

Inventory Changes

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

Depreciation

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

Profitability Measures

This table shows profitability when capital assets are valued at cost. Various measures of performance are calculated. In the previous tables no opportunity costs are used. In this table, opportunity costs for labor, capital, and management <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 <u>Amortization</u>. This represents a measure of earnings available for debt repayment.</u>

Repayment Capacity

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

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

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

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

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

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

Efficiency

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

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

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

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

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

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

Crop Production and Marketing Summary

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

Household and Personal Expenses

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

Operator and Labor Information

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

Nonfarm Summary

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

Farm Income Statement

North Dakota Farm Business Management Education Region 2 - North Central North Dakota, 2016 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	<u>Low 20%</u>	40 - 60%	<u> High 20%</u>
Number of farms	165	33	33	33
Cash Farm Income				
Barley	51,969	34,298	39,224	115,508
Beans, Black Turtle Beans,	303	1,517	· -	, <u>-</u>
Navy	1,383	-	_	6,916
Beans, Pinto	16,862	7,236	7,647	50,308
Canola	63,824	42,477	72,488	84,533
Corn	26,165	11,061	24,050	49,042
Corn Silage	76	-	_ :,555	379
Flax	5,858	3,572	7,982	11,583
Hay, Grass	627	55	- ,002	2,810
Hay, Mixed	75	-	76	179
Lentils	273	_	, 6	-
Oats	407	68		1,600
Peas, Field	11,048	5,487	4,224	22,163
Potatoes	1,361	3,407	4,224	6,803
Safflower	1,301	- 504	-	0,803
Soybeans	138,256		1F3 833	272.050
Sunflowers		51,163	152,822	273,959
	9,979	3,789	-	15,878
Sunflowers, Confectionary	1,163	3,497	-	2,317
Wheat, Durum	6,105	10,329	1,159	8,609
Wheat, Spring	110,264	55,373	103,698	190,697
Wheat, Winter	1,755	-	-	5,914
Soybeans, Food	1,800	-		6,686
Miscellaneous crop income	188	244	136	<u>-</u>
Beef Cow-Calf, Beef Calves	24,507	47,425	17,156	6,490
Beef Replacement Heifers	2,264	3,478	-	4,793
Beef Backgrounding	6,421	11,119	-	-
Beef Finishing	382	56	-	-
Beef Stockers	364	1,820	-	-
Cull breeding livestock	3,364	6,011	1,603	-
Misc. livestock income	848	112	238	2,954
Crop government payments	44,468	24,468	44,207	73,157
CRP payments	1,919	1,017	1,177	3,353
Other government payments	10,035	10,933	7,346	16,607
Custom work income	8,375	1,633	11,638	17,862
Patronage dividends, cash	11,868	8,134	12,463	20,548
Crop insurance income	32,215	23,625	30,145	44,385
Property insurance income	1,903	1,918	3,562	2,143
Sale of resale items	298	449	-,-3-	969
Livestock insurance inc	42	-	112	45
Other farm income	10,409	6,628	10,404	12,488
Gross Cash Farm Income	609,499	379,496	553,559	1,061,680

Farm Income Statement (continued) North Dakota Farm Business Management Education Region 2 - North Central North Dakota, 2016 (Farms Sorted By Net Farm Income)

	Avg. Of _All Farms	Low 20%	<u>40 - 60%</u>	High 20%
Number of farms	165	33	33	33
Cash Farm Expense Seed Fertilizer Crop chemicals Crop insurance Drying expense	82,030 81,476 61,010 27,651 712	50,041 68,019 48,473 14,910 881	79,160 70,728 49,344 29,073 125	144,884 131,393 107,264 42,864 1,312
Stórage ' Crop marketing Crop miscellaneous Consultants Feeder livestock purchase Purchased feed Breeding fees Veterinary Supplies Grazing fees	243 324 1,171 1,727 1,652 4,729 103 1,541 1,609	14 142 1,421 1,798 3,895 10,464 69 2,663 2,056	92 829 1,111 133 2,949 114 1,151 1,502	516 1,060 2,371 4,006 - 1,204 - 285 289
Livestock marketing Interest Fuel & oil Repairs Custom hire Hired labor Land rent Machinery leases Building leases Real estate taxes Farm insurance Utilities Dues & professional fees Purchase of resale items Miscellaneous Total cash expense Net cash farm income	140 29,507 21,129 45,133 14,035 13,921 73,259 8,630 805 4,164 8,812 6,236 1,629 1,202 6,033 500,733 108,766	364 30,011 15,813 42,073 13,458 10,121 47,760 11,857 242 3,958 7,091 5,411 2,109 364 5,374 401,437 -21,941	87 26,072 21,010 41,292 9,767 11,073 61,827 6,287 308 3,442 6,994 5,260 1,223 4,043 434,994 118,564	40,880 30,703 67,299 20,718 26,715 132,020 17,455 2,113 5,528 14,132 9,942 2,349 1,313 9,391 818,007 243,674
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	1,633 5,959 1,597 -368 75,484 -3,190 639 602 4,592 655 87,604 196,370	6,651 16,897 -88 -6,338 -6,694 -1,314 -1,271 13,360 -712 33,168 11,227	-6,707 6,300 -1,361 -639 26,501 2,624 72 671 10,528 -532 37,457 156,022	8,537 -16,530 10,639 -998 233,400 -2,968 1,408 -535 -5,126 4,200 232,028 475,702
Depreciation Machinery and equipment Titled vehicles Buildings and improvements Total depreciation	-54,493 -5,115 -3,517 -63,125	-34,478 -4,425 -2,279 -41,181	-53,371 -3,355 -1,008 -57,734	-85,454 -6,751 -6,350 -98,554
Net farm income from operations Gain or loss on capital sales	133,245 518	-29,954 3,283	98,288 137	377,147 -362
Net farm income	133,763	-26,671	98,425	376,785

Inventory Changes North Dakota Farm Business Management Education Region 2 - North Central North Dakota, 2016 (Farms Sorted By Net Farm Income)

		<u> </u>		
	Avg. Of All Farms	Low 20%	<u>40 - 60%</u>	High 20%
Number of farms	165	33	33	33
Net cash farm income	108,766	-21,941	118,564	243,674
Crops and Feed	105 111	470.000	207.444	005.000
Ending inventory	405,111 329,627	178,808 172,470	287,444 260,943	885,006 651,606
Beginning inventory Inventory change	75,484	6,338	26,501	233,400
Market Livestock				
Ending inventory	25,357	42,462	14,404	6,066
Beginning inventory Inventory change	28,547 -3,190	49,155 -6,694	11,780 2,624	9,035 -2,968
Accts Receivable				
Ending inventory	26,282	29,632	22,302	25,440
Beginning inventory	20,322	12,734	16,002	41,970
Inventory change	5,959	16,897	6,300	-16,530
Prepaid Expenses and Supplies Ending inventory	44,308	18,060	33,805	116,044
Beginning inventory	44,308 42,675	11,408	40,512	107,507
Inventory change	1,633	6,651	-6,707	8,537
Hedging Activities				
Ending inventory	3,645 4,605	135	1,679 3,742	12,593
Withdrawals Beginning inventory	4,003 4,023	135	3,742 4,240	19,051 11,973
Deposits	2,630	88	2,542	9,032
Gain or loss	1,597	-88	-1,361	10,639
Other Current Assets	74.0			444
Ending inventory Beginning inventory	718 1,086		639	111 1,109
Inventory change	-368	-	-639	-998
Breeding Livestock				
Ending inventory	69,918	138,784	43,275	15,745
Capital sales Beginning inventory	3,761 66,697	1,895 132,646	2,251 36,654	605 14,079
Capital purchases	6,343	9,347	8,799	864
Depreciation, capital adjust	639	-1,314	72	1,408
Other Capital Assets	62,332	39,299	59,164	97,488
Ending inventory Capital sales	952	39,299 423	1,324	1,747
Beginning inventory	58,655	38,608	54,576	92,030
Capital purchases	4,026	2,385	5,241	7,740
Depreciation, capital adjust	602	-1,271	671	-535
Accounts Payable Beginning inventory	22,002	29,964	23,276	34,203
Ending inventory	17,410	16,603	12,748	39,329
Inventory change	4,592	13,360	10,528	-5,126
Accrued Interest	44.44	44.404	44.475	00.010
Beginning inventory	14,111 13,456	14,494 15,206	11,175 11,707	20,640 16,439
Ending inventory Inventory change	13,456 655	-712	-532	4,200
Total inventory change	87,604	33,168	37,457	232,028
, ,	•		•	
Net operating profit	196,370	11,227	156,022	475,702

Depreciation

North Dakota Farm Business Management Education Region 2 - North Central North Dakota, 2016 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	<u>40 - 60%</u>	High 20%
Number of farms	165	33	33	33
Net operating profit	196,370	11,227	156,022	475,702
Machinery and Equipment				
Ending inventory	611,898	393,598	600,539	1,023,004
Capital sales	7,745	3,850	12,107	6,425
Beginning inventory	620,359	403,012	625,990	1,003,585
Capital purchases	53,778	28,914	40,027	111,297
Depreciation, capital adjust.	-54,493	-34,478	-53,371	-85,454
Titled Vehicles				
Ending inventory	41,158	37,620	31,939	58,643
Capital sales	1,357	1,447	1,939	957
Beginning inventory	42,255	38,603	34,421	54,985
Capital purchases	5,375	4,889	2,811	11,365
Depreciation, capital adjust.	-5,115	-4,425	-3,355	-6,751
Buildings and Improvements				
Ending inventory	114,922	56,470	48,060	262,546
Capital sales	321	1,000	606	-
Beginning inventory	110,228	55,273	47,777	253,256
Capital purchases	8,532	4,475	1,897	15,640
Depreciation, capital adjust.	-3,517	-2,279	-1,008	-6,350
Total depreciation, capital adj.	-63,125	-41,181	-57,734	-98,554
Net farm income from operations	133,245	-29,954	98,288	377,147
Gain or loss on capital sales	518	3,283	137	-362
Net farm income	133,763	-26,671	98,425	376,785

Profitability Measures

North Dakota Farm Business Management Education Region 2 - North Central North Dakota, 2016 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	165	33	33	33
Profitability (assets valued at cost)				
Net farm income from operations	133,245	-29,954	98,288	377,147
Rate of return on assets	5.9 %	-2.6 %	5.1 %	10.5 %
Rate of return on equity	7.2 %	-11.3 %	5.8 %	13.7 %
Operating profit margin	16.1 %	-9.1 %	13.3 %	25.8 %
Asset turnover rate	36.7 %	29.1 %	38.2 %	40.6 %
Farm interest expense	28,852	30,724	26,604	36,679
Value of operator lbr and mgmt.	52,146	35,156	47,282	82,017
Return on farm assets	109,951	-34,386	77,610	331,810
Average farm assets	1,859,149	1,300,827	1,530,710	3,162,514
Return on farm equity	81,099	-65,110	51,006	295,131
Average farm equity	1,121,938	578,361	879,977	2,147,939
Value of farm production	683,227	378,642	585,284	1,284,346

Liquidity & Repayment Capacity Measures North Dakota Farm Business Management Education Region 2 - North Central North Dakota, 2016 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	165	33	33	33
Liquidity				
Current ratio	1.80	1.06	1.52	2.39
Working capital	255,812	17,222	145,670	708,192
Working capital to gross inc	37.0 %	4.4 %	24.8 %	55.0 %
Current assets	575,211	301,742	426,828	1,216,672
Current liabilities	319,398	284,521	281,158	508,480
Gross revenues (accrual)	690,811	393,365	588,366	1,286,863
Repayment capacity				
Net farm income from operations	133,245	-29,954	98,288	377,147
Depreciation	63,125	41,181	57,734	98,554
Personal income	35,806	43,065	31,486	45,830
Family living/owner withdrawals	-62,164	-53,589	-54,343	-87,567
Cash discrepancy	-15	40	-103	-34
Payments on personal debt	-4,213	-5,040	-4,194	-5,112
Income taxes paid	-13,009	-3,647	-10,475	-29,409
Interest on term debt	18,994	18,935	17,080	24,439
Capital debt repayment capacity	171,784	10,951	135,576	423,883
Scheduled term debt payments	-85,127	-76,629	-73,000	-124,900
Capital debt repayment margin	86,656	-65,678	62,577	298,983
Cash replacement allowance	-25,708	-11,763	-29,085	-44,786
Replacement margin	60,948	-77,441	33,491	254,197
Term debt coverage ratio	2.02	0.14	1.86	3.39
Replacement coverage ratio	1.55	0.12	1.33	2.50

Balance Sheet at Cost Values North Dakota Farm Business Management Education Region 2 - North Central North Dakota, 2016 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	<u>40 - 60%</u>	High 20%
Number of farms	165	33	33	33
Assets				
Current Farm Assets				
Cash and checking balance	69,790	32,647	67,194	171,412
Prepaid expenses & supplies	44,308	18,060	33,805	116,044
Growing crops	423	-	-	-
Accounts receivable	26,282	29,632	22,302	25,440
Hedging accounts	3,645	135	1,679	12,593
Crops held for sale or feed	405,111	178,808	287,444	885,006
Market livestock held for sale	25,357	42,462	14,404	6,066
Other current assets	295	-	· -	111
Total current farm assets	575,211	301,742	426,828	1,216,672
Intermediate Farm Assets				
Breeding livestock	69,918	138,784	43,275	15,745
Machinery and equipment	611,898	393,598	600,539	1,023,004
Titled vehicles	41,158	37,620	31,939	58,643
Other intermediate assets	40,950	20,781	37,204	62,829
Total intermediate farm assets	763,925	590,784	712,957	1,160,222
Long Term Farm Assets				
Farm land	431,134	354,288	331,568	623,216
Buildings and improvements	114,922	56,470	48,060	262,546
Other long-term assets	21,381	18,518	21,959	34,659
Total long-term farm assets	567,438	429,276	401,588	920,421
Total Farm Assets	1,906,573	1,321,802	1,541,373	3,297,315
Total Nonfarm Assets	286,755	186,143	220,668	485,415
Total Assets	2,193,328	1,507,945	1,762,041	3,782,731
Liabilities				
Current Farm Liabilities				
Accrued interest	13,456	15,206	11,707	16,439
Accounts payable	17,410	16,603	12,748	39,329
Current notes	225,886	207,432	208,948	354,892
Principal due on term debt	62,646	45,280	47,754	97,819
Total current farm liabilities	319,398	284,521	281,158	508,480
Total intermediate farm liabs	171,110	150,461	174,924	223,543
Total long term farm liabilities	250,357	319,513	177,252	276,039
Total farm liabilities	740,865	754,495	633,333	1,008,062
Total nonfarm liabilities	62,565	49,215	65,468	76,750
Total liabilities	803,430	803,711	698,801	1,084,812
Net worth (farm and nonfarm)	1,389,897	704,235	1,063,240	2,697,918
Net worth change	100,027	-21,630	66,432	310,821
Percent net worth change	8 %	-3 %	7 %	13 %
Ratio Analysis				
Current farm liabilities / assets	56 %	94 %	66 %	42 %
Intermediate farm liab. / assets	22 %	25 %	25 %	19 %
Long term farm liab. / assets	44 %	74 %	44 %	30 %
Total debt to asset ratio	37 %	53 %	40 %	29 %
				- ,

Statement Of Cash Flows

North Dakota Farm Business Management Education Region 2 - North Central North Dakota, 2016 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
				
Number of farms	165	33	33	33
Beginning cash (farm & nonfarm)	79,741	37,702	62,306	201,739
Cash Provided By Operating Activities				
Gross cash farm income	609,499	379,496	553,559	1,061,680
Total cash farm expense	-500,733	-401,437	-434,994	-818,007
Net cash from hedging transactions	1,975	-88	1,200	10,020
Cash provided by operating	110,741	-22,028	119,764	253,693
Cash Provided By Investing Activities				
Sale of breeding livestock	3,759	1,883	2,251	605
Sale of machinery & equipment	7,739	3,878	12,110	6,266
Sale of titled vehicles	1,208	1,342	2,073	753
Sale of farm land	2,666	12,939	-	258
Sale of farm buildings	321	1,000	606	-
Sale of other farm assets	952	423	1,324	1,747
Sale of nonfarm assets	5,012	4,957	12,896	2,927
Purchase of breeding livestock	-6,343	-9,347	-8,799	-864
Purchase of machinery & equip.	-53,778	-28,914	-40,027	-111,297
Purchase of titled vehicles	-5,375	-4,889	-2,811	-11,365
Purchase of farm land	-20,924	-16,323	-5,267	-16,295
Purchase of farm buildings	-8,532	-4,475	-1,897	-15,640
Purchase of other farm assets	-4,026	-2,385	-5,241	-7,740
Purchase of nonfarm assets	-23,375	-21,673	-22,092	-26,925
Cash provided by investing	-100,695	-61,584	-54,874	-177,571
Cash Provided By Financing Activities				
Money borrowed	602,208	669,823	500,454	859,355
Principal payments	-582,283	-582,238	-521,693	-873,178
Personal income	35,806	43,065	31,486	45,830
Family living/owner withdrawals	-62,164	-53,589	-54,343	-87,567
Income and social security tax	-13,058	-3,677	-11,339	-29,332
Capital contributions	215	832	-	-
Capital distributions	-78	-391	-	-
Dividends paid	-	-	_	_
Cash gifts and inheritances	8,043	12,991	208	308
Gifts given	-181	-	-37	-412
Other cash flows	-	_	-	
Cash provided by financing	-11,493	86,815	-55,264	-84,996
Net change in cash balance	-1,447	3,203	9,626	-8,874
Ending cash (farm & nonfarm)	78,280	40,945	71,830	192,831
Discrepancy	15	-40	103	34

Financial Standards Measures North Dakota Farm Business Management Education Region 2 - North Central North Dakota, 2016 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	<u>Low 20%</u>	40 - 60%	High 20%
Number of farms	165	33	33	33
Liquidity				
Current ratio	1.80	1.06	1.52	2.39
Working capital	255,812	17,222	145,670	708,192
Working capital to gross inc	37.0 %	4.4 %	24.8 %	55.0 %
Solvency (cost)				
Farm debt to asset ratio	39 %	57 %	41 %	31 %
Farm equity to asset ratio	61 %	43 %	59 %	69 %
Farm debt to equity ratio	0.64	1.33	0.70	0.44
Profitability (cost)				
Rate of return on farm assets	5.9 %	-2.6 %	5.1 %	10.5 %
Rate of return on farm equity	7.2 %	-11.3 %	5.8 %	13.7 %
Operating profit margin	16.1 %	-9.1 %	13.3 %	25.8 %
Net farm income	133,763	-26,671	98,425	376,785
EBITDA	225,222	41,951	182,626	512,381
Repayment Capacity				
Capital debt repayment capacity	171,784	10,951	135,576	423,883
Capital debt repayment margin	86,656	-65,678	62,577	298,983
Replacement margin	60,948	-77,441	33,491	254,197
Term debt coverage ratio	2.02	0.14	1.86	3.39
Replacement coverage ratio	1.55	0.12	1.33	2.50
Efficiency				
Asset turnover rate (cost)	36.7 %	29.1 %	38.2 %	40.6 %
Operating expense ratio	67.4 %	89.3 %	69.0 %	60.2 %
Depreciation expense ratio	9.1 %	10.5 %	9.8 %	7.7 %
Interest expense ratio	4.2 %	7.8 %	4.5 %	2.9 %
Net farm income ratio	19.4 %	-6.8 %	16.7 %	29.3 %

Crop Production and Marketing Summary North Dakota Farm Business Management Education Region 2 - North Central North Dakota, 2016 (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	165	33	33	33
Acreage Summary				
Total acres owned	779	789	681	889
Total crop acres	2,069	1,518	1,825	3,436
Crop acres owned	531	395	540	702
Crop acres cash rented	1,354	980	1,180	2,290
Crop acres share rented	184	143	105	444
Total pasture acres	324	713	137	100
Percent crop acres owned	26 %	26 %	30 %	20 %
Mach invest/crop acre cost	318	286	354	311
Average Price Received (Cash Sale	s Only)			
Wheat, Spring per bushel	4.51	4.30	4.52	4.53
Soybeans per bushel	8.65	8.74	8.72	8.56
Canola per cwt	15.52	16.01	15.27	15.50
Barley per bushel	4.84	4.18	4.32	5.29
Corn per bushel	3.00	2.83	3.10	3.07
Peas, Field per bushel	7.05	-	-	7.07
Sunflowers per cwt	18.38	-	-	17.96
Flax per bushel	8.15	-	7.12	-
Beans, Pinto per cwt	24.46	-	-	24.48
Wheat, Durum per bushel	6.14	-	-	-
Wheat, Winter per bushel	3.14	-	-	-
Average Yield Per Acre				
Wheat, Spring (bushel)	53.91	51.39	51.86	57.89
Soybeans (bushel)	38.89	34.22	38.08	41.20
Canola (cwt)	18.61	16.42	18.72	19.93
Pasture (aum)	0.991	1.02	1.35	-
Barley (bushel)	72.39	69.70	56.66	78.20
Corn (bushel)	134.42	114.36	128.84	153.03
Hay, Grass (ton)	1.14	1.09	-	-
Sunflowers (cwt)	17.91	14.89	-	19.89
Peas, Field (bushel)	36.60	-	33.31	46.35
Wheat, Durum (bushel)	50.81	-	-	44.93
Beans, Pinto (cwt)	19.78	-	-	21.31
Flax (bushel)	24.63	-	21.42	-
Hay, Alfalfa (ton)	2.30	2.53	-	
Hay, Mixed Alfalfa/Grass (ton)	1.45	1.29	-	-
Hay, Mixed (ton)	1.13	1.10	-	-
Corn Silage (ton)	16.15	15.76	-	-
Hay, Small Grain (ton)	2.55	2.73	-	-

Household and Personal Expenses North Dakota Farm Business Management Education Region 2 - North Central North Dakota, 2016 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	83	16	18	20
Average family size	2.9	2.7	3.2	2.9
	-			
Family Living Expenses	7.700	0.040	7.007	7 000
Food and meals expense	7,729	8,910	7,287	7,228
Medical care	5,333	4,030	4,692	8,092
Health insurance	9,226	5,455	9,381	10,617
Cash donations	2,409	1,123	1,519	3,664
Household supplies	6,995	6,174	6,659	10,187
Clothing	2,165	1,810	1,369	3,920
Personal care	6,227	3,204	5,803	8,530
Child / Dependent care	820	485	731	1,142
Alimony and child support	10	51	-	-
Gifts	1,864	1,498	2,267	2,301
Education	1,260	362	628	2,418
Recreation	3,928	3,177	2,764	5,102
Utilities (household share)	3,837	3,043	3,658	4,831
Personal vehicle operating exp	2,793	4,125	2,913	2,160
Household real estate taxes	392	-	430	534
Dwelling rent	107	96	-	35
Household repairs	2,049	3,398	2,176	1,089
Personal interest	1,701	796	1,464	2,549
Disability / Long term care ins	366	80	192	354
Life insurance payments	3,408	1,373	1,214	8,503
Personal property insurance	396	1,286	131	164
Miscellaneous	5,465	5,052	5,827	6,080
Total cash family living expense	68,479	55,527	61,105	89,501
Family living from the farm	235	86	- -	-
Total family living	68,714	55,613	61,105	89,501
Other Nonfarm Expenditures				
Income taxes	14,853	2,602	11,781	31,441
Furnishing & appliance purchases	100	116	-	-
Nonfarm vehicle purchases	3,649	3,393	7,671	2,051
Nonfarm real estate purchases	6,367	14,289	1,441	6,750
Other nonfarm capital purchases	1,546	2,055	-,	-
Nonfarm savings & investments	3,811	674	4,057	9,481
Total other nonfarm expenditures	30,326	23,128	24,950	49,723
Total cash family living				
investment & nonfarm capital purch	98,804	78,655	86,055	139,224

Operator and Labor Information North Dakota Farm Business Management Education Region 2 - North Central North Dakota, 2016 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	165	33	33	33
Operator Information				
Average number of operators	1.0	1.0	1.0	1.1
Average age of operators	44.1	44.1	41.6	45.0
Average number of years farming	20.1	19.7	18.0	21.1
Results Per Operator				
Working capital	243,983	17,222	141,386	631,631
Total assets (cost)	2,091,902	1,507,945	1,710,216	3,373,787
Total liabilities	766,277	803,711	678,248	967,535
Net worth (cost)	1,325,625	704,235	1,031,968	2,406,252
Gross farm income	658,866	393,365	571,061	1,147,743
Total farm expense	531,783	423,319	475,664	811,368
Net farm income from operations	127,083	-29,954	95,397	336,375
Net nonfarm income	34,150	43,065	30,560	40,875
Family living & tax withdrawals	71,711	57,197	63,012	104,360
Total acres owned	743.0	788.6	661.3	792.9
Total crop acres	1,973.2	1,517.5	1,771.3	3,064.2
Crop acres owned	506.4	394.5	523.7	626.1
Crop acres cash rented	1,291.3	979.9	1,145.8	2,042.4
Crop acres share rented	175.5	143.0	101.9	395.6
Total pasture acres	309.5	712.6	133.4	89.4
Labor Analysis				
Number of farms	165	33	33	33
Total unpaid labor hours	2,108	1,964	2,091	2,430
Total hired labor hours	681	469	524	1,376
Total labor hours per farm	2,789	2,433	2,615	3,807
Unpaid hours per operator	2,011	1,964	2,029	2,168

Nonfarm Summary

North Dakota Farm Business Management Education Region 2 - North Central North Dakota, 2016 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	165	33	33	33
Nonfarm Income				
Personal wages & salary	18,838	21,458	23,656	14,339
Net nonfarm business income	5,954	10,725	1,390	15,508
Personal rental income	2,298	1,067	443	4,662
Personal interest income	439	7	87	1,080
Personal cash dividends	981	213	-	3,138
Tax refunds	1,065	1,267	825	117
Other nonfarm income	6,232	8,328	5,085	6,986
Total nonfarm income	35,806	43,065	31,486	45,830
Gifts and inheritances	8,043	12,991	208	308

Financial Summary

North Dakota Farm Business Management Education Region 2 - North Central North Dakota, 2016 (Farms Sorted By Gross Farm Income)

	Avg. Of All Farms	Less than 100,000	100,001 - 250,000	250,001 - 500,000	500,001 - 1,000,000	1,000,001- 2,000,000
Number of farms	165	19	23	36	61	24
Income Statement						
Gross cash farm income	609,499	54,449	186,209	401,441	724,805	1,332,364
Total cash farm expense	500,733	50,488	153,407	339,493	575,629	1,128,778
Net cash farm income	108,766	3,960	32,802	61,948	149,176	203,586
Inventory change	87,604	16,814	29,796	53,985	100,168	203,117
Depreciation	-63,125	-2,485	-14,494	-39,609	-77,579	-146,754
Net farm income from operations	133,245	18,289	48,105	76,323	171,764	259,949
Gain or loss on capital sales	518	-	226	-5	1,317	. 4
Average net farm income	133,763	18,289	48,331	76,319	173,081	259,953
Median net farm income	98,928	13,826	48,629	77,385	164,030	195,245
Profitability (cost)						
Rate of return on assets	5.9 %	4.7 %	5.4 %	4.4 %	6.2 %	6.3 %
Rate of return on equity	7.2 %	6.9 %	6.0 %	4.9 %	7.7 %	7.8 %
Operating profit margin	16.1 %	15.3 %	16.9 %	12.7 %	17.6 %	15.3 %
Asset turnover rate	36.7 %	30.9 %	31.8 %	34.9 %	35.5 %	41.3 %
Liquidity & Repayment (end of ye						
Current assets	575,211	71,006	151,696	353,861	692,850	1,197,276
Current liabilities	319,398	39,292	62,139	194,910	365,571	736,950
Current ratio	1.80	1.81	2.44	1.82	1.90	1.62
Working capital	255,812	31,714	89,558	158,951	327,278	460,326
Working capital to gross inc	37.0 %	42.4 %	42.3 %	35.2 %	40.3 %	30.3 %
Term debt coverage ratio	2.02	1.38	1.46	1.67	2.19	2.20
Replacement coverage ratio	1.55	1.33	1.24	1.31	1.66	1.61
Term debt to EBITDA	1.78	3.80	2.50	2.51	1.62	1.57
Solvency (end of year at cost)						
Number of farms	165	19	23	36	61	24
Total assets	2,193,328	290,118	752,771	1,523,460	2,663,705	4,292,191
Total liabilities	803,430	174,348	307,790	591,150	915,428	1,645,911
Net worth	1,389,897	115,770	444,980	932,310	1,748,277	2,646,280
Net worth change	100,027	20,671	40,859	64,324	108,697	225,375
Farm debt to asset ratio	39 %	60 %	42 %	43 %	36 %	41 %
Total debt to asset ratio	37 %	60 %	41 %	39 %	34 %	38 %
Change in earned net worth %	8 %	22 %	10 %	7 %	7 %	9 %
Nonfarm Information						
Net nonfarm income	35,806	30,296	27,050	36,727	43,721	28,981
Farms reporting living expenses	83	5	14	15	36	11
Total family living expense	68,714	33,918	50,273	51,561	76,248	93,537
Crop Acres						
Total crop acres	2,069	260	738	1,504	2,464	4,155
Total crop acres owned	531	34	214	371	785	751
Total crop acres cash rented	1,354	216	369	1,003	1,475	3,069
Total crop acres share rented	184	11	155	129	204	335
Machinery value per crop acre	318	98	224	286	317	356

Financial Summary

North Dakota Farm Business Management Education Region 2 - North Central North Dakota, 2016 (Farms Sorted By Age of Operator)

	Avg. Of All Farms	Less Than 31	31 - 40	41 - 50	<u>51 - 60</u>	Over 60
Number of farms	165	35	34	30	45	21
Income Statement						
Gross cash farm income	609,499	254,292	652,902	785,099	720,766	641,955
Total cash farm expense	500,733	203,978	565,845	679,656	587,511	448,352
Net cash farm income	108,766	50,314	87,057	105,444	133,255	193,603
Inventory change	87,604	57,785	120,988	127,337	83,275	35,766
Depreciation	-63,125	-14,479	-55,941	-84,639	-77,894	-93,451
Net farm income from operations	133,245	93,619	152,105	148,141	138,635	135,918
Gain or loss on capital sales	518	126	3,052	-486	-314	286
Average net farm income	133,763	93,746	155,156	147,655	138,322	136,204
Median net farm income	98,928	74,239	103,351	126,015	120,201	118,732
Profitability (cost)						
Rate of return on assets	5.9 %	14.9 %	8.4 %	5.4 %	4.6 %	3.9 %
Rate of return on equity	7.2 %	30.4 %	12.7 %	6.5 %	5.0 %	4.1 %
Operating profit margin	16.1 %	24.7 %	17.6 %	14.7 %	14.1 %	14.6 %
Asset turnover rate	36.7 %	60.4 %	47.9 %	37.0 %	32.2 %	26.8 %
Liquidity & Repayment (end of ye						
Current assets	575,211	194,122	473,390	717,921	797,160	695,732
Current liabilities	319,398	108,526	284,855	446,686	458,550	246,757
Current ratio	1.80	1.79	1.66	1.61	1.74	2.82
Working capital	255,812	85,596	188,535	271,235	338,611	448,974
Working capital to gross inc	37.0 %	27.7 %	25.3 %	30.0 %	42.1 %	65.1 %
Term debt coverage ratio	2.02	3.07	2.26	1.65	1.81	2.45
Replacement coverage ratio	1.55	2.78	1.79	1.42	1.32	1.47
Term debt to EBITDA	1.78	1.46	1.84	2.33	1.68	1.25
Solvency (end of year at cost)						
Number of farms	165	35	34	30	45	21
Total assets	2,193,328	633,588	1,863,803	2,927,732	2,789,091	3,000,625
Total liabilities	803,430	348,586	890,503	1,174,573	922,624	634,909
Net worth	1,389,897	285,001	973,299	1,753,160	1,866,468	2,365,716
Net worth change	100,027	74,169	123,922	108,694	108,440	74,026
Farm debt to asset ratio	39 %	56 %	49 %	45 %	35 %	22 %
Total debt to asset ratio	37 %	55 %	48 %	40 %	33 %	21 %
Change in earned net worth %	8 %	35 %	15 %	7 %	6 %	3 %
Nonfarm Information	05.000	04.070	00.040	E 4.044	00.050	40.440
Net nonfarm income	35,806	21,976	39,849	51,014	29,959	43,113
Farms reporting living expenses	83	13	15	15	22	18
Total family living expense	68,714	47,272	72,878	75,405	73,851	68,875
Crop Acres		·				
Total crop acres	2,069	917	2,146	2,746	2,468	2,041
Total crop acres owned	531	109	321	639	737	978
Total crop acres cash rented	1,354	689	1,566	1,912	1,554	892
Total crop acres share rented	184	119	259	194	177	171
Machinery value per crop acre	318	171	262	306	363	428

Financial Summary North Dakota Farm Business Management Education Region 2 - North Central North Dakota, 2016 (Farms Sorted By Farm Type)

	Avg. Of All Farms	Crop	Beef	Crop and Beef	Othe
Number of farms	165	116	15	20	14
	100	110	10	20	,-
Income Statement	COO 400	700 000	425 225	444 570	FF0 400
Gross cash farm income	609,499	706,008	135,335	444,576	553,489
Total cash farm expense	500,733	574,707	123,488	365,067	485,804
Net cash farm income	108,766	131,301	11,847	79,509	67,684
Inventory change	87,604	106,133	1,140	52,894	76,304
Depreciation	-63,125	-73,500	-15,684	-48,933	-48,26°
Net farm income from operations	133,245	163,934	-2,697	83,470	95,72
Gain or loss on capital sales	518	750	53	-113	05.70
Average net farm income Median net farm income	133,763 98,928	164,683 119,466	-2,644 -6,039	83,357 81,597	95,72 ² 100,10 ⁴
Wedian net farm income	90,920	119,400	-0,039	01,591	100,10-
Profitability (cost)	5 0 0/	0.0.0/	0.00/	0.4.0/	0.5.0
Rate of return on assets	5.9 %	6.6 %	-0.6 %	3.4 %	6.5 %
Rate of return on equity	7.2 %	8.4 %	-4.2 %	3.3 %	8.3 %
Operating profit margin	16.1 %	17.0 %	-4.7 %	13.2 %	13.8 %
Asset turnover rate	36.7 %	38.9 %	12.7 %	26.0 %	46.9 %
Liquidity & Repayment (end of year	r)				
Current assets	575,211	686,249	131,999	422,072	348,816
Current liabilities	319,398	374,485	88,895	264,562	188,27
Current ratio	1.80	1.83	1.48	1.60	1.8
Working capital	255,812	311,764	43,105	157,510	160,545
Working capital to gross inc	37.0 %	38.7 %	31.8 %	31.7 %	26.3 %
Term debt coverage ratio	2.02	2.30	0.12	1.24	1.97
Replacement coverage ratio	1.55	1.72	0.12	1.05	1.45
Term debt to EBITDA	1.78	1.53	7.77	2.85	2.44
Solvency (end of year at cost)					
Number of farms	165	116	15	20	14
Total assets	2,193,328	2,452,141	977,215	2,007,095	1,617,902
Total liabilities	803,430	868,398	392,706	742,256	792,577
Net worth	1,389,897	1,583,742	584,509	1,264,840	825,324
Net worth change	100,027	127,823	-18,502	43,340	77,696
Farm debt to asset ratio	39 %	38 %	42 %	38 %	51 %
Total debt to asset ratio	37 %	35 %	40 %	37 %	49 %
Change in earned net worth %	8 %	9 %	-3 %	4 %	10 %
Nonfarm Information					
Net nonfarm income	35,806	35,087	30,751	21,328	67,868
Farms reporting living expenses	83	57	8	11	07,000
Total family living expense	68,714	71,675	52,932	54,239	85,382
Cran Agras					
Crop Acres	2.060	2 252	560	1 024	1 660
Total crop acres	2,069	2,353	562 214	1,834	1,662
Total crop acres owned	531 1 254	553 1 501	214	745	382
Total crop acres cash rented	1,354	1,591	318	963	1,056
Total crop acres share rented	184	209	30	127	224
Machinery value per crop acre	318	323	315	274	327

EXPLANATORY NOTES FOR CROPS TABLES

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

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

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

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

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

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

Barley on Owned Land

	Avg. Of All Farms
Number of farms	16
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	145.93 65.36 100.00 4.23 276.30 7.73 5.54 289.57
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	14.80 47.79 30.45 14.63 9.00 14.78 1.34 2.47 1.71 136.98 152.58
Overhead Expenses Custom hire Hired labor Machinery leases Building leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	3.07 6.44 1.25 0.42 5.38 3.67 2.60 0.42 15.90 29.81 1.98 70.93 207.92 81.65
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	21.32 102.97 18.73 84.24
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	2.10 3.18 2.65 2.94
Net value per unit Machinery cost per acre Est. labor hours per acre	4.23 60.59 1.23

Barley on Cash Rent

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	41	8	8	9
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	360.12 73.12 100.00 4.18 305.70 12.45 3.20 321.35	235.45 46.69 100.00 3.56 166.08 26.03 1.33 193.43	354.01 81.38 100.00 3.94 320.91 4.06	564.24 78.90 100.00 4.62 364.27 14.08 5.39 383.75
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	17.53	14.41	20.56	18.09
	49.94	42.87	53.21	54.60
	35.00	28.99	31.28	34.90
	14.53	17.00	10.46	15.67
	10.22	9.62	10.18	9.09
	18.41	16.15	27.70	14.99
	5.23	3.70	17.43	1.94
	53.17	60.00	57.79	47.74
	4.76	6.64	4.93	4.85
	1.48	2.95	1.10	1.57
	210.27	202.33	234.64	203.44
	111.08	-8.90	90.34	180.31
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	1.73	0.98	0.27	2.75
	8.38	8.89	12.42	6.80
	3.14	7.53	2.70	2.21
	0.63	0.39	2.46	0.03
	3.81	3.62	4.32	3.27
	2.48	1.75	2.65	3.15
	0.80	0.88	0.27	0.49
	3.04	4.94	3.35	1.78
	27.91	36.23	26.75	24.94
	3.13	2.95	3.00	2.07
	55.04	68.17	58.19	47.49
	265.31	270.50	292.83	250.93
	56.05	-77.07	32.14	132.82
Government payments	21.98	24.51	21.77	23.67
Net return with govt pmts	78.03	-52.55	53.91	156.49
Labor & management charge	22.97	23.22	24.23	22.55
Net return over lbr & mgt	55.06	-75.77	29.67	133.94
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	2.88	4.33	2.88	2.58
	3.63	5.79	3.60	3.18
	3.11	4.68	3.28	2.63
	3.43	5.18	3.58	2.92
Net value per unit	4.18	3.56	3.94	4.62
Machinery cost per acre	68.10	78.82	87.32	56.40
Est. labor hours per acre	1.13	1.30	1.35	1.01

Beans, Pinto on Owned Land

	Avg. Of All Farms
Number of farms	7
Acres Yield per acre (cwt.) Operators share of yield % Value per cwt. Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	221.47 18.94 100.00 27.95 529.53 1.43 1.81 532.77
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	52.56 42.86 81.09 19.89 10.96 22.89 11.55 5.11 0.27 247.18 285.58
Overhead Expenses Custom hire Hired labor Machinery leases Building leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	1.24 20.90 1.81 0.53 7.46 7.56 4.81 0.77 16.92 50.13 3.03 115.16 362.35 170.42
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	23.06 193.49 34.07 159.41
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	13.05 19.13 17.74 19.54
Net value per unit Machinery cost per acre Est. labor hours per acre	27.95 96.95 1.92

Beans, Pinto on Cash Rent

	Avg. Of All Farms
Number of farms	10
Acres Yield per acre (cwt.) Operators share of yield % Value per cwt. Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	410.95 19.82 100.00 26.77 530.69 5.76 4.16 540.62
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	62.70 36.00 85.62 19.43 12.94 22.93 3.28 50.26 7.05 0.22 300.43 240.19
Overhead Expenses Custom hire Hired labor Machinery leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	1.48 9.59 1.27 3.63 2.99 0.38 3.50 34.12 7.38 64.34 364.77 175.85
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	23.77 199.63 30.37 169.25
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	15.15 18.40 16.70 18.23
Net value per unit Machinery cost per acre Est. labor hours per acre	26.77 79.00 1.41

Canola on Owned Land

	Avg. Of _All Farms	Low 20%	40 - 60%	High 20%
Number of farms	29	5	6	6
Acres Yield per acre (cwt.) Operators share of yield % Value per cwt. Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	244.34 19.09 100.00 16.32 311.57 6.75 1.71 320.03	192.67 13.91 100.00 16.28 226.41 3.37	272.87 19.20 100.00 16.54 317.59 1.44 319.04	336.60 21.09 100.00 16.50 347.83 21.98 3.62 373.43
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	54.37 57.74 23.27 13.61 10.80 19.15 2.04 3.24 0.95 185.17 134.86	66.52 50.24 24.89 13.07 11.37 18.32 0.70 5.27	53.01 60.41 26.06 12.24 12.24 16.39 5.19 4.94 0.14 190.61 128.43	50.36 58.69 18.23 13.88 8.31 17.23 1.60 1.79 1.89 171.98 201.46
Overhead Expenses Custom hire Hired labor Machinery leases Building leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	1.50	1.07	1.24	0.86
	5.79	8.62	9.61	4.18
	0.82	0.12	0.86	0.43
	0.32	0.13	0.36	0.58
	7.10	10.35	7.59	6.41
	3.93	3.57	4.66	4.24
	3.28	3.72	2.96	3.83
	0.80	0.35	0.94	0.55
	13.08	20.37	10.73	8.81
	33.43	40.15	30.26	31.47
	2.15	3.34	1.52	1.21
	72.20	91.80	70.73	62.58
	257.37	282.18	261.34	234.56
	62.66	-52.40	57.69	138.88
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	30.46	34.51	29.50	34.30
	93.12	-17.89	87.20	173.18
	23.83	25.71	22.25	25.08
	69.29	-43.60	64.95	148.10
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	9.70	13.69	9.93	8.16
	13.48	20.29	13.61	11.12
	11.45	17.57	12.00	8.28
	12.69	19.42	13.16	9.47
Net value per unit	16.32	16.28	16.54	16.50
Machinery cost per acre	68.16	67.54	66.15	59.98
Est. labor hours per acre	1.26	1.45	1.29	1.17

Canola on Cash Rent

	Avg. Of All Farms	Low 20%	<u>40 - 60%</u>	High 20%
Number of farms	57	11	12	12
Acres Yield per acre (cwt.) Operators share of yield % Value per cwt. Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	319.90	246.96	336.39	303.97
	17.98	15.47	18.94	19.48
	100.00	100.00	100.00	100.00
	16.52	15.98	16.58	17.33
	297.05	247.16	314.16	337.52
	9.76	21.02	3.59	10.79
	2.84	0.88	5.94	3.22
	309.65	269.06	323.70	351.53
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	56.70	59.68	58.51	54.61
	59.76	66.65	57.21	52.98
	24.15	30.66	25.82	20.90
	13.94	14.96	14.88	10.78
	9.76	10.96	10.52	7.55
	19.99	22.19	24.61	21.09
	4.13	10.11	4.26	4.44
	49.37	48.24	50.18	48.46
	4.87	9.45	3.64	3.51
	1.40	2.49	1.63	0.92
	244.07	275.41	251.28	225.24
	65.58	-6.35	72.41	126.29
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	2.41	1.51	3.71	0.54
	4.33	2.03	6.10	5.12
	2.92	2.55	-	5.05
	0.82	0.49	0.38	2.52
	3.91	5.75	4.27	3.60
	2.49	2.47	3.47	1.61
	0.91	0.26	1.04	0.63
	3.71	4.14	3.94	2.13
	29.46	41.94	30.63	17.66
	3.32	3.86	2.56	1.82
	54.26	65.01	56.10	40.69
	298.34	340.42	307.38	265.93
	11.31	-71.36	16.31	85.60
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	27.16	30.09	27.44	22.45
	38.47	-41.27	43.76	108.05
	24.60	25.51	26.93	21.72
	13.87	-66.78	16.82	86.33
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	13.57	17.81	13.27	11.56
	16.59	22.01	16.23	13.65
	14.38	18.65	14.27	11.78
	15.75	20.30	15.70	12.90
Net value per unit	16.52	15.98	16.58	17.33
Machinery cost per acre	71.47	92.55	75.62	57.67
Est. labor hours per acre	1.20	1.19	1.39	1.09

Corn on Owned Land

	Avg. Of _All Farms
Number of farms	21
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Other product return per acre Total product return per acre Hedging gains/losses per acre Crop insurance per acre Other crop income per acre Gross return per acre	205.48 127.85 100.00 2.84 4.63 367.24 3.85 2.79 3.83 377.71
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Drying expense Fuel & oil Repairs Custom hire Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	77.63 79.10 22.15 17.40 4.35 17.69 35.50 5.54 0.88 9.28 0.60 270.11 107.60
Overhead Expenses Custom hire Hired labor Machinery leases Building leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	1.24 17.03 1.63 0.29 7.28 5.46 4.82 1.09 17.69 59.69 2.81 119.02 389.13 -11.42
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	25.57 14.15 36.58 -22.42
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	2.11 3.04 2.73 3.01
Net value per unit Machinery cost per acre Est. labor hours per acre	2.87 120.81 2.01

Corn on Cash Rent

	Avg. Of			
	All Farms	Low 20%	<u>40 - 60%</u>	<u> High 20%</u>
Number of farms	35	7	7	7
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Hedging gains/losses per acre	282.94 135.60 100.00 2.91 393.98 2.58	265.29 114.26 100.00 2.70 308.76	216.31 136.14 100.00 2.94 400.38	286.09 161.16 100.00 3.11 501.02 12.76
Crop insurance per acre Other crop income per acre Gross return per acre	5.53 2.24 404.33	2.91 0.18 311.84	11.58 2.34 414.30	4.86 518.64
Direct Expenses				
Seed Fertilizer Crop chemicals Crop insurance Drying expense Fuel & oil Repairs Custom hire Land rent Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	87.33 81.08 20.90 17.84 3.71 16.44 32.27 3.05 54.60 7.13 2.03 326.39 77.94	82.26 91.79 17.64 17.91 6.61 21.97 32.53 6.96 58.23 8.25 4.42 348.56 -36.72	90.94 76.53 19.76 25.02 2.56 9.34 33.47 58.14 6.68 3.13 325.57 88.74	91.82 87.47 17.65 18.74 4.37 16.31 31.97 1.71 60.08 3.84 0.09 334.06 184.58
Overhead Expenses				
Custom hire Hired labor Machinery leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	2.55 12.93 3.77 4.36 3.00 1.46 4.95 41.30 5.64 79.96 406.35 -2.01	1.27 9.72 7.67 5.22 3.17 3.96 3.73 55.96 16.81 107.51 456.07 -144.23	3.10 7.76 0.01 5.35 1.98 0.15 9.86 48.89 3.49 80.59 406.16 8.14	0.77 4.21 4.26 3.06 2.44 0.89 4.54 26.22 2.14 48.53 382.59 136.06
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	23.79 21.78 36.26 -14.48	26.91 -117.32 37.48 -154.79	35.08 43.22 40.93 2.29	16.52 152.57 36.61 115.96
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	2.41 3.00 2.74 3.01	3.05 3.99 3.73 4.06	2.39 2.98 2.62 2.92	2.07 2.37 2.16 2.39
Net value per unit Machinery cost per acre Est. labor hours per acre	2.92 102.20 1.79	2.70 127.71 1.77	2.94 103.60 2.08	3.19 84.71 1.48

Corn Silage on Owned Land

	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 Other crop income per acre Gross return per acre	60.74 16.89 100.00 27.75 468.63 0.46 469.09
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	63.71 42.45 18.04 12.33 19.54 37.45 30.02 6.91 0.43 230.87 238.22
Overhead Expenses Custom hire Hired labor Machinery leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	2.13 3.46 2.89 5.04 5.30 2.74 1.11 15.65 40.86 1.70 80.86 311.73 157.35
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	17.40 174.75 33.93 140.82
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	13.67 18.46 17.40 19.41
Net value per unit Machinery cost per acre Est. labor hours per acre	27.75 131.01 2.58

CRP on Owned Land

	Avg. Of All Farms
Number of farms	23
Acres Yield per acre (\$) Operators share of yield % Value per \$ Total product return per acre Gross return per acre	148.29 34.89 100.00 1.00 34.89 34.89
Direct Expenses Crop chemicals Fuel & oil Repairs Total direct expenses per acre Return over direct exp per acre	0.71 0.46 0.62 2.10 32.79
Overhead Expenses Hired labor RE & pers. property taxes Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	0.59 6.64 5.33 1.42 0.63 14.61 16.70 18.19

Fallow on Owned Land

Number of farms 10 Acres 74.25 Yield per acre - Operators share of yield % - Value per 0 - Total product return per acre - Gross return per acre - Direct Expenses - Crop chemicals 1.90 Fuel & oil 4.53 Repairs 5.88 Operating interest 2.61 Total direct expenses per acre 14.92 Return over direct exp per acre 14.92 Return over direct exp per acre 9.48 Hired labor 1.35 Building leases 0.18 RE & pers. property taxes 5.58 Farm insurance 1.89 Utilities 1.13 Dues & professional fees 0.96 Interest 7.08 Mach & bldg depreciation 8.76 Miscellaneous 1.28 Total overhead expenses per acre 28.69 Total dir & ovhd expenses per acre 43.61 Net return per acre 43.61		Avg. Of All Farms
Yield per acre - Operators share of yield % - Value per 0 - Total product return per acre - Gross return per acre - Direct Expenses - Crop chemicals 1.90 Fuel & oil 4.53 Repairs 5.88 Operating interest 2.61 Total direct expenses per acre 14.92 Return over direct exp per acre -14.92 Overhead Expenses 0.48 Custom hire 0.48 Hired labor 1.35 Building leases 0.18 RE & pers. property taxes 5.58 Farm insurance 1.89 Utilities 1.13 Dues & professional fees 0.96 Interest 7.08 Mach & bldg depreciation 8.76 Miscellaneous 1.28 Total overhead expenses per acre 28.69 Total dir & ovhd expenses per acre 43.61	Number of farms	10
Operators share of yield % - Value per 0 - Total product return per acre - Gross return per acre - Direct Expenses - Crop chemicals 1.90 Fuel & oil 4.53 Repairs 5.88 Operating interest 2.61 Total direct expenses per acre 14.92 Return over direct exp per acre -14.92 Overhead Expenses - Custom hire 0.48 Hired labor 1.35 Building leases 0.18 RE & pers. property taxes 5.58 Farm insurance 1.89 Utilities 1.13 Dues & professional fees 0.96 Interest 7.08 Mach & bldg depreciation 8.76 Miscellaneous 1.28 Total overhead expenses per acre 28.69 Total dir & ovhd expenses per acre 43.61	- 10.00	74.25
Value per 0 - Total product return per acre - Gross return per acre - Direct Expenses - Crop chemicals 1.90 Fuel & oil 4.53 Repairs 5.88 Operating interest 2.61 Total direct expenses per acre 14.92 Return over direct exp per acre -14.92 Overhead Expenses -14.92 Custom hire 0.48 Hired labor 1.35 Building leases 0.18 RE & pers. property taxes 5.58 Farm insurance 1.89 Utilities 1.13 Dues & professional fees 0.96 Interest 7.08 Mach & bldg depreciation 8.76 Miscellaneous 1.28 Total overhead expenses per acre 28.69 Total dir & ovhd expenses per acre 43.61	•	-
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Direct Expenses Crop chemicals 1.90 Fuel & oil 4.53 Repairs 5.88 Operating interest 2.61 Total direct expenses per acre 14.92 Return over direct exp per acre -14.92 Overhead Expenses Custom hire 0.48 Hired labor 1.35 Building leases 0.18 RE & pers. property taxes 5.58 Farm insurance 1.89 Utilities 1.13 Dues & professional fees 0.96 Interest 7.08 Mach & bldg depreciation 8.76 Miscellaneous 1.28 Total overhead expenses per acre 28.69 Total dir & ovhd expenses per acre 43.61	•	_
Direct Expenses Crop chemicals 1.90 Fuel & oil 4.53 Repairs 5.88 Operating interest 2.61 Total direct expenses per acre 14.92 Return over direct exp per acre -14.92 Overhead Expenses Custom hire 0.48 Hired labor 1.35 Building leases 0.18 RE & pers. property taxes 5.58 Farm insurance 1.89 Utilities 1.13 Dues & professional fees 0.96 Interest 7.08 Mach & bldg depreciation 8.76 Miscellaneous 1.28 Total overhead expenses per acre 28.69 Total dir & ovhd expenses per acre 43.61	·	- -
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Overhead Expenses Custom hire 0.48 Hired labor 1.35 Building leases 0.18 RE & pers. property taxes 5.58 Farm insurance 1.89 Utilities 1.13 Dues & professional fees 0.96 Interest 7.08 Mach & bldg depreciation 8.76 Miscellaneous 1.28 Total overhead expenses per acre 28.69 Total dir & ovhd expenses per acre 43.61		
Custom hire 0.48 Hired labor 1.35 Building leases 0.18 RE & pers. property taxes 5.58 Farm insurance 1.89 Utilities 1.13 Dues & professional fees 0.96 Interest 7.08 Mach & bldg depreciation 8.76 Miscellaneous 1.28 Total overhead expenses per acre 28.69 Total dir & ovhd expenses per acre 43.61	Return over direct exp per acre	-14.32
Hired labor 1.35 Building leases 0.18 RE & pers. property taxes 5.58 Farm insurance 1.89 Utilities 1.13 Dues & professional fees 0.96 Interest 7.08 Mach & bldg depreciation 8.76 Miscellaneous 1.28 Total overhead expenses per acre 28.69 Total dir & ovhd expenses per acre 43.61	Overhead Expenses	
Building leases 0.18 RE & pers. property taxes 5.58 Farm insurance 1.89 Utilities 1.13 Dues & professional fees 0.96 Interest 7.08 Mach & bldg depreciation 8.76 Miscellaneous 1.28 Total overhead expenses per acre 28.69 Total dir & ovhd expenses per acre 43.61	Custom hire	0.48
RE & pers. property taxes 5.58 Farm insurance 1.89 Utilities 1.13 Dues & professional fees 0.96 Interest 7.08 Mach & bldg depreciation 8.76 Miscellaneous 1.28 Total overhead expenses per acre 28.69 Total dir & ovhd expenses per acre 43.61		1.35
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Total overhead expenses per acre 28.69 Total dir & ovhd expenses per acre 43.61		
Total dir & ovhd expenses per acre 43.61		_
Net return per acre -43.61	·	43.61
	Net return per acre	-43.61

Flax on Owned Land

	Avg. Of All Farms
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 Other crop income per acre Gross return per acre	148.90 26.60 100.00 8.13 0.32 216.47 0.35 216.83
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	13.07 22.38 16.80 8.15 9.11 13.68 6.75 3.53 0.30 93.77 123.06
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	3.13 5.66 3.38 1.91 0.69 5.12 25.10 1.54 46.53 140.30 76.53
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	21.66 98.19 19.31 78.88
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	3.53 5.28 4.44 5.16
Net value per unit Machinery cost per acre Est. labor hours per acre	8.13 53.83 1.15

Flax on Cash Rent

	Avg. Of <u>All Farms</u>
Number of farms	6
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Gross return per acre	302.85 24.22 100.00 8.89 215.30 215.30
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	15.29 32.95 16.48 13.47 7.37 16.42 7.85 44.92 3.52 0.03 158.30 57.00
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	1.28 3.69 0.17 4.13 2.38 0.41 4.14 23.99 1.91 42.10 200.41 14.90
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	16.64 31.54 19.53 12.01
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	6.54 8.27 7.59 8.39
Net value per unit Machinery cost per acre Est. labor hours per acre	8.89 57.95 1.05

Hay, Alfalfa on Owned Land

	Avg. Of All Farms
Number of farms	10
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Gross return per acre	123.68 2.25 100.00 77.35 174.36 174.36
Direct Expenses Seed Fertilizer Fuel & oil Repairs Custom hire Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	0.33 1.26 7.60 13.01 1.13 1.79 0.15 25.27 149.10
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	4.91 2.19 0.91 4.92 3.68 2.89 0.34 13.61 20.04 1.36 54.85 80.12 94.25
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	2.59 96.84 11.60 85.23
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	11.21 35.54 34.39 39.54 77.35 47.82 0.96

Hay, Alfalfa on Cash Rent

	Avg. Of All Farms
Number of farms	8
Acres	88.33
Yield per acre (ton)	2.38
Operators share of yield %	100.00
Value per ton	85.88
Total product return per acre	204.08
Gross return per acre	204.08
Direct Expenses	
Fertilizer	3.07
Fuel & oil	6.34
Repairs	20.02
Custom hire	0.78
Land rent	26.21
Operating interest Miscellaneous	1.94
Total direct expenses per acre	0.25 58.60
Return over direct exp per acre	145.47
Return over direct exp per acre	145.47
Overhead Expenses	
Hired labor	2.68
Farm insurance	5.41
Utilities	3.12
Dues & professional fees	0.50
Interest	2.79
Mach & bldg depreciation	19.35
Miscellaneous Total evertoad expenses per acro	0.26 34.11
Total overhead expenses per acre Total dir & ovhd expenses per acre	92.71
Net return per acre	111.36
Government payments	0.14
Net return with govt pmts	111.50
Labor & management charge	15.51
Net return over lbr & mgt	95.99
Cost of Production	
Total direct expense per ton	24.66
Total dir & ovhd exp per ton	39.01
Less govt & other income	38.95
With labor & management	45.48
Net value per unit	85.88
Machinery cost per acre	47.76
Est. labor hours per acre	1.41

Hay, Grass on Owned Land

	Avg. Of All Farms
Number of farms	17
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Other crop income per acre Gross return per acre	120.31 1.29 100.00 32.88 42.48 0.17 42.65
Direct Expenses Fuel & oil Repairs Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	5.02 11.13 1.37 0.23 17.75 24.90
Overhead Expenses Custom hire Hired labor Machinery leases Building leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	0.60 2.85 0.44 0.22 2.74 1.14 0.84 0.36 7.57 12.85 0.33 29.92 47.67 -5.02
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	0.30 -4.73 10.80 -15.52
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	13.74 36.90 36.54 44.90 32.88 30.11 0.90

Hay, Grass on Cash Rent

	Avg. Of All Farms
Number of farms	18
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Gross return per acre	323.51 1.05 100.00 31.96 33.54 33.54
Direct Expenses Crop chemicals Fuel & oil Repairs Land rent Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	0.10 4.69 11.94 16.04 1.35 0.82 34.94 -1.40
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	3.78 0.13 1.48 0.78 0.71 12.94 0.84 20.66 55.59 -22.05
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	0.36 -21.69 10.52 -32.21
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	33.29 52.97 52.62 62.65 31.96 30.00
Est. labor hours per acre	1.01

Hay, Mixed Alfalfa/Grass on Cash Rent

	Avg. Of All Farms
Number of farms	9
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Other crop income per acre Gross return per acre	76.63 1.63 100.00 47.53 77.23 2.26 79.49
Direct Expenses Fuel & oil Repairs Land rent Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	4.91 10.06 23.87 1.60 1.10 41.55 37.95
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	0.36 2.12 0.20 3.55 1.81 0.91 3.61 12.43 0.26 25.26 66.80 12.69
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	12.69 10.78 1.91
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	25.57 41.11 39.72 46.35
Net value per unit Machinery cost per acre Est. labor hours per acre	47.53 30.75 0.90

Hay, Small Grain on Owned Land

	Avg. Of <u>All Farms</u>
Number of farms	7
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	42.77 2.96 100.00 44.89 7.22 140.27
Direct Expenses Seed Fertilizer Crop chemicals Fuel & oil Repairs Custom hire Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	11.54 20.99 6.46 7.90 17.09 2.07 2.32 0.93 69.31 70.97
Overhead Expenses Custom hire Hired labor Machinery leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	2.95 2.91 1.76 4.47 3.67 2.38 2.00 10.00 12.73 1.92 44.79 114.10 26.18
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	16.05 42.22 14.14 28.09
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	23.38 38.49 30.64 35.41
Net value per unit Machinery cost per acre Est. labor hours per acre	44.89 48.75 1.21

Pasture on Owned Land

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	28	5	5	6
Acres	443.73	365.00	315.00	647.31
Yield per acre (aum)	1.02	0.93	0.86	1.20
Operators share of yield %	100.00	100.00	100.00	100.00
Value per aum	16.40	15.74	16.80	17.34
Total product return per acre	16.71	14.63	14.46	20.87
Other crop income per acre	0.19	-	-	-
Gross return per acre	16.90	14.63	14.46	20.87
Direct Expenses				
Fuel & oil	0.41	1.15	0.35	0.24
Repairs	0.88	2.05	0.67	0.63
Total direct expenses per acre	1.69	3.38	1.09	0.93
Return over direct exp per acre	15.22	11.26	13.37	19.93
Overhead Expenses				
RE & pers. property taxes	3.63	7.13	4.83	2.35
Farm insurance	0.20	0.53	0.16	0.10
Interest	9.45	36.92	2.27	2.61
Mach & bldg depreciation	1.10	3.24	1.21	0.43
Miscellaneous	0.47	0.97	0.35	0.26
Total overhead expenses per acre	14.85	48.78	8.81	5.73
Total dir & ovhd expenses per acre	16.54	52.16	9.90	6.67
Net return per acre	0.37	-37.53	4.56	14.20

Pasture on Cash Rent

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	38	7	7	8
Acres	705.77	205.49	432.15	255.83
Yield per acre (aum)	0.98	1.04	1.03	1.47
Operators share of yield %	100.00	100.00	100.00	100.00
Value per aum	16.61	14.87	14.72	15.95
Total product return per acre	16.29	15.52	15.16	23.50
Other crop income per acre	0.32	-	-	4.17
Gross return per acre	16.61	15.52	15.16	27.67
Direct Expenses				
Fuel & oil	0.36	0.81	0.24	0.35
Repairs	0.85	1.29	0.71	0.64
Land rent	16.22	29.30	13.84	13.50
Total direct expenses per acre	17.74	31.97	14.91	14.56
Return over direct exp per acre	-1.14	-16.45	0.25	13.11
Overhead Expenses				
Mach & bldg depreciation	0.86	2.80	0.56	0.39
Miscellaneous	0.77	1.30	0.68	0.88
Total overhead expenses per acre	1.63	4.10	1.24	1.27
Total dir & ovhd expenses per acre	19.37	36.07	16.15	15.82
Net return per acre	-2.76	-20.55	-0.99	11.85

Peas, Field on Owned Land

	Avg. Of All Farms
Number of farms	8
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	168.84 45.31 100.00 6.60 298.91 8.21 2.73 309.85
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	39.48 16.30 38.13 13.34 9.65 19.69 10.57 4.53 3.43 155.12 154.73
Overhead Expenses Custom hire Hired labor Machinery leases Building leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	4.48 16.20 0.27 0.65 6.01 4.22 3.46 1.02 18.44 36.09 2.12 92.96 248.08 61.77
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	21.40 83.17 23.06 60.11
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	3.42 5.48 4.76 5.27
Net value per unit Machinery cost per acre Est. labor hours per acre	6.60 79.26 1.44

Peas, Field on Cash Rent

	Avg. Of All Farms
Number of farms	17
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	272.86 27.70 100.00 8.05 222.84 60.78 1.01 284.62
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	38.76 13.91 38.13 13.65 12.06 22.62 7.08 48.90 0.55 7.00 0.77 203.42 81.20
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	2.75 9.84 1.15 0.94 4.26 2.33 0.89 5.23 30.08 2.96 60.43 263.85 20.77
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	21.21 41.98 25.16 16.82
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	7.34 9.53 6.53 7.44
Net value per unit Machinery cost per acre Est. labor hours per acre	8.05 78.11 1.38

Soybeans on Owned Land

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	47	9	10	10
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Hedging gains/losses per acre Crop insurance per acre Other crop income per acre Gross return per acre	281.76 38.30 100.00 8.93 341.91 3.64 19.47 5.31 370.33	212.97 29.40 100.00 8.75 257.20 - 15.82 9.06 282.09	263.39 39.15 100.00 8.82 345.29 0.71 1.76 347.75	267.93 47.30 100.00 8.93 422.52 6.47 8.14 6.11 443.24
Direct Expenses	60.25	62.20	E0.76	74.00
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	69.35 11.73 21.53 14.13 9.77 20.33 1.44 3.96 1.01 153.25 217.08	62.39 15.72 21.51 14.21 12.30 21.76 3.06 4.85 2.82 158.61 123.48	59.76 17.70 25.89 11.78 9.70 24.82 2.30 3.41 0.45 155.81 191.94	71.82 10.86 20.53 11.99 8.40 16.72 1.05 1.43 1.84 144.65 298.59
Overhead Expenses Custom hire Hired labor Machinery leases Building leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	1.26 6.29 2.93 0.26 7.30 4.47 3.37 0.75 21.70 34.04 3.05 85.42 238.67 131.66	1.15 4.10 4.62 0.12 7.74 5.13 3.27 1.86 30.10 28.97 5.16 92.22 250.82 31.26	2.34 6.89 3.18 0.33 7.44 3.74 2.41 0.74 16.20 27.93 2.84 74.06 229.87 117.88	0.86 4.04 1.36 0.81 6.89 3.69 3.47 0.43 18.97 37.64 4.16 82.32 226.96 216.27
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	24.70 156.36 22.87 133.49	21.06 52.32 22.21 30.12	24.87 142.75 20.23 122.53	23.14 239.42 23.14 216.28
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	4.00 6.23 4.84 5.44	5.40 8.53 6.97 7.73	3.98 5.87 5.17 5.69	3.06 4.80 3.87 4.36
Net value per unit Machinery cost per acre Est. labor hours per acre	9.02 70.55 1.22	8.75 73.05 1.17	8.82 72.60 1.14	9.07 67.64 1.19

Soybeans on Cash Rent

	Avg. Of _All Farms	Low 20%	<u>40 - 60%</u>	High 20%
Number of farms	78	15	15	16
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Hedging gains/losses per acre Crop insurance per acre Other crop income per acre Gross return per acre	503.09 39.25 100.00 8.98 352.37 0.74 10.60 2.33 366.05	314.54 32.48 100.00 8.84 286.98 9.31	639.12 39.28 100.00 9.03 354.79 - 6.20 4.95 365.94	591.95 44.46 100.00 9.08 403.60 1.13 13.36 1.74 419.84
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	68.56	75.90	62.55	66.23
	13.06	21.75	10.57	9.85
	22.38	18.27	24.77	18.26
	13.51	14.70	13.69	13.06
	9.71	11.69	10.32	8.92
	19.66	21.10	23.06	16.57
	2.37	4.42	2.74	1.58
	54.48	47.91	56.42	56.90
	5.25	5.29	5.32	4.52
	1.65	3.36	2.24	0.71
	210.63	224.38	212.86	196.60
	155.41	71.91	153.08	223.23
Overhead Expenses Custom hire Hired labor Machinery leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	1.47	2.45	2.58	0.48
	6.13	6.36	5.48	4.10
	5.78	2.93	9.66	4.69
	4.16	4.66	4.96	3.67
	3.03	2.75	3.58	2.82
	1.00	1.91	0.88	0.82
	3.16	5.40	2.97	4.03
	26.55	32.81	27.15	25.83
	2.53	2.56	2.22	2.16
	53.82	61.84	59.49	48.60
	264.46	286.22	272.36	245.20
	101.59	10.07	93.59	174.63
Government payments	23.40	28.36	24.12	18.41
Net return with govt pmts	124.99	38.42	117.70	193.04
Labor & management charge	24.96	25.85	24.16	24.44
Net return over lbr & mgt	100.03	12.57	93.55	168.60
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	5.37	6.91	5.42	4.42
	6.74	8.81	6.93	5.51
	5.79	7.65	6.04	4.74
	6.43	8.45	6.65	5.29
Net value per unit	9.00	8.84	9.03	9.10
Machinery cost per acre	68.16	80.68	77.83	62.34
Est. labor hours per acre	1.18	1.42	1.04	1.04

Soybeans on Share Rent

	Avg. Of All Farms
Number of farms	23
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Hedging gains/losses per acre Crop insurance per acre Other crop income per acre Gross return per acre	318.46 37.93 62.01 8.90 209.34 1.07 18.20 3.27 231.88
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	48.88 14.17 18.10 9.62 7.52 15.81 3.49 5.39 122.97 108.91
Overhead Expenses Custom hire Hired labor Machinery leases Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	1.40 4.17 2.13 3.37 2.67 1.59 31.02 3.18 49.54 172.51 59.37
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	17.12 76.49 19.48 57.01
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	5.23 7.33 5.65 6.48
Net value per unit Machinery cost per acre Est. labor hours per acre	8.95 59.27 0.90

Sunflowers on Owned Land

	Avg. Of All Farms
Number of farms	9
Acres Yield per acre (cwt.) Operators share of yield % Value per cwt. Total product return per acre Crop insurance per acre Gross return per acre	179.07 19.68 100.00 17.10 336.40 20.57 356.97
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	38.84 50.22 38.98 15.52 11.39 22.95 1.05 6.98 186.05 170.92
Overhead Expenses Custom hire Hired labor Machinery leases Building 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	2.59 7.57 1.90 0.77 6.14 4.38 2.85 19.84 32.57 3.43 82.05 268.10 88.87
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	20.19 109.06 24.89 84.17
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	9.46 13.63 11.55 12.82
Net value per unit Machinery cost per acre Est. labor hours per acre	17.10 72.08 1.25

Sunflowers on Cash Rent

	Avg. Of All Farms
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 Other crop income per acre Gross return per acre	253.71 16.41 100.00 17.08 280.20 34.74 3.66 318.60
Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Drying expense Fuel & oil Repairs Custom hire Land rent Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	38.80 42.37 33.74 17.26 0.64 10.71 20.67 4.30 53.69 8.28 1.21 231.67 86.93
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	4.02 8.89 2.64 0.92 3.72 2.60 1.19 2.20 26.75 3.14 56.07 287.75 30.85
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	19.36 50.21 28.09 22.13
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	14.12 17.54 14.02 15.73
Net value per unit Machinery cost per acre Est. labor hours per acre	17.08 68.61 1.39

Wheat, Durum on Owned Land

	Avg. Of <u>All Farms</u>
Number of farms	12
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	180.80 41.81 100.00 5.47 228.62 48.64 277.26
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	27.17 61.86 46.03 20.56 8.31 16.76 10.20 6.22 0.36 197.47 79.79
Overhead Expenses Custom hire Hired labor Machinery leases Building leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	2.47 8.21 0.59 0.55 5.83 4.40 2.47 0.62 23.65 25.77 3.12 77.68 275.15 2.11
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	20.82 22.93 22.83 0.10
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	4.72 6.58 4.92 5.46
Net value per unit Machinery cost per acre Est. labor hours per acre	5.47 66.51 1.16

Wheat, Durum on Cash Rent

	Avg. Of All Farms
Number of farms	15
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	297.30 45.72 100.00 5.48 250.68 40.81 0.60 292.09
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	27.29 59.71 41.20 18.33 9.37 19.61 9.14 46.58 5.15 0.42 236.78 55.30
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	2.80 9.40 1.67 1.50 4.42 2.36 0.79 4.25 31.37 2.46 61.02 297.81 -5.72
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	21.39 15.67 21.98 -6.31
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	5.18 6.51 5.14 5.62
Net value per unit Machinery cost per acre Est. labor hours per acre	5.48 75.43 1.15

Wheat, Spring on Owned Land

	Avg. Of			
	_All Farms	Low 20%	<u>40 - 60%</u>	<u> High 20%</u>
Number of farms	50	10	10	10
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	258.74 53.43 100.00 4.74 0.02 253.32 8.70 1.95 263.96	168.51 46.20 100.00 4.63 214.03 2.65 3.96 220.65	246.65 48.69 100.00 4.70 0.09 228.77 6.47	301.73 67.16 100.00 5.02 336.90 13.81 1.26 351.98
Direct Expenses	45.00	44.50	40.04	40.00
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	15.22 53.24 31.99 13.71 10.62 19.90 4.04 3.97 1.31 154.00 109.96	14.56 53.64 41.24 17.69 10.59 26.37 13.71 3.69 0.29 181.77 38.88	12.04 52.87 23.86 14.27 9.87 23.09 1.65 3.48 0.13 141.26 93.97	16.36 57.16 33.69 13.04 8.84 15.22 2.33 4.18 1.21 152.02 199.96
Overhead Expenses Custom hire Hired labor Machinery leases Building leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	1.56 6.57 1.29 0.18 7.45 4.75 3.61 0.86 13.17 36.98 2.76 79.17 233.17 30.79	2.22 10.91 1.05 0.20 5.81 4.24 3.59 0.68 16.70 29.88 2.27 77.56 259.33 -38.68	1.84 6.10 0.59 9.04 3.51 3.19 0.52 7.60 39.67 1.82 73.87 215.13 20.10	1.26 8.88 0.73 0.52 7.02 6.06 3.76 0.55 14.25 36.83 2.94 82.81 234.83 117.15
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	27.62 58.42 22.99 35.43	25.63 -13.05 22.35 -35.40	26.43 46.53 22.80 23.73	26.81 143.96 26.42 117.53
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	2.88 4.36 3.65 4.08	3.93 5.61 4.92 5.40	2.90 4.42 3.74 4.21	2.26 3.50 2.87 3.27
Net value per unit Machinery cost per acre Est. labor hours per acre	4.74 74.66 1.28	4.63 84.71 1.70	4.70 79.26 1.25	5.02 64.49 1.31

Wheat, Spring on Cash Rent

	Avg. Of _All Farms	Low 20%	<u>40 - 60%</u>	High 20%
Number of farms	83	16	16	17
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Hedging gains/losses per acre Crop insurance per acre Other crop income per acre Gross return per acre	482.06 52.91 100.00 4.75 251.15 0.06 15.74 2.91 269.86	356.25 46.05 100.00 4.61 212.25 - 2.43 1.26 215.94	600.09 50.60 100.00 4.70 237.95 - 18.16 1.42 257.52	452.50 64.33 100.00 4.83 310.99 39.31 5.78 356.07
Direct Expenses	44.40	40.00	40.70	45.04
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	14.48	16.23	13.73	15.94
	56.43	60.07	55.85	61.72
	32.20	33.01	32.56	31.16
	15.68	14.52	15.29	18.52
	9.17	12.10	8.04	8.64
	19.44	21.16	18.01	17.24
	3.21	5.66	4.86	1.88
	49.21	52.34	45.78	55.18
	5.24	4.48	5.78	3.54
	1.61	1.52	0.52	1.61
	206.67	221.07	200.43	215.44
	63.19	-5.13	57.09	140.63
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	2.19	2.85	3.55	0.98
	5.43	8.28	5.85	2.34
	3.90	4.42	0.99	13.16
	0.53	0.42	0.89	0.48
	4.19	4.17	4.02	4.36
	2.81	3.72	2.77	2.81
	0.78	2.39	0.39	0.65
	3.25	3.90	3.44	1.75
	29.16	31.63	29.12	29.76
	2.37	2.64	2.65	2.15
	54.60	64.41	53.67	58.43
	261.27	285.49	254.10	273.87
	8.59	-69.55	3.42	82.20
Government payments	24.60	18.22	21.58	28.01
Net return with govt pmts	33.19	-51.33	25.00	110.20
Labor & management charge	24.39	21.97	23.10	28.70
Net return over lbr & mgt	8.79	-73.30	1.90	81.50
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	3.91	4.80	3.96	3.35
	4.94	6.20	5.02	4.26
	4.12	5.72	4.21	3.12
	4.58	6.20	4.66	3.57
Net value per unit	4.75	4.61	4.70	4.83
Machinery cost per acre	69.06	79.57	66.79	71.81
Est. labor hours per acre	1.20	1.37	1.11	1.07

Wheat, Spring on Share Rent

	Avg. Of			
	<u>All Farms</u>	<u>Low 20%</u>	<u>40 - 60%</u>	<u>High 20%</u>
Number of farms	25	5	5	5
Acres	361.04	251.68	181.02	542.30
Yield per acre (bu.)	59.02	48.73	48.72	68.89
Operators share of yield %	60.07	58.89	61.62	65.76
Value per bu.	4.64 164.68	4.76 136.61	4.38 131.49	4.62
Total product return per acre Crop insurance per acre	6.42	6.35	3.59	209.50
Other crop income per acre	1.44	0.55	6.14	- -
Gross return per acre	172.55	142.96	141.23	209.50
Direct Expenses				
Seed	9.70	6.99	6.59	8.23
Fertilizer	42.46	51.71	32.54	43.98
Crop chemicals	27.57 9.67	29.19	15.19	32.65
Crop insurance Fuel & oil	9.67 7.48	10.79 11.80	6.75 5.88	9.30 6.69
Repairs	16.69	24.29	12.80	13.94
Custom hire	1.60	7.25	1.81	1.36
Operating interest	3.93	10.61	1.07	2.77
Miscellaneous	2.67	1.03	8.19	-
Total direct expenses per acre	121.76	153.65	90.82	118.91
Return over direct exp per acre	50.79	-10.70	50.41	90.59
Overhead Expenses	4.70	4.04	4.00	0.04
Custom hire	1.76	4.01	1.90	0.24
Hired labor	3.19 2.83	8.74 0.34	5.81	0.63 7.42
Machinery leases Farm insurance	2.98	3.58	4.06	2.11
Utilities	2.57	5.92	2.32	1.12
Interest	1.57	2.12	0.55	0.57
Mach & bldg depreciation	25.31	29.23	37.39	9.20
Miscellaneous	3.75	4.06	0.92	2.73
Total overhead expenses per acre	43.96	57.99	52.95	24.01
Total dir & ovhd expenses per acre	165.72	211.65	143.77	142.92
Net return per acre	6.83	-68.69	-2.55	66.58
Government payments	17.19	33.66	15.01	15.46
Net return with govt pmts	24.02	-35.03	12.46	82.04
Labor & management charge	19.24	24.18	20.76	17.10
Net return over lbr & mgt	4.78	-59.21	-8.30	64.94
Cost of Production				
Total direct expense per bu.	3.43	5.35	3.03	2.63
Total dir & ovhd exp per bu.	4.67	7.37	4.79	3.16
Less govt & other income	3.97 4.51	5.98 6.82	3.96 4.66	2.81 3.19
With labor & management				
Net value per unit	4.64	4.76	4.38	4.62
Machinery cost per acre	56.36	78.56	59.09	39.16
Est. labor hours per acre	1.02	1.59	1.31	0.78

EXPLANATORY NOTES FOR LIVESTOCK TABLES

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

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

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

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

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

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

Beef Cow-Calf -- Average Per Cwt. Produced

	Avg. O All Farm	f IS	40 - 6	0%	High 2	0%
Number of farms		22		5	ŭ	5
Beef Calves sold (lb) Transferred out (lb) Cull sales Other income Purchased Transferred in Inventory change Gross margin	Quantity 41.91 57.95	Value 55.66 76.27 27.36 0.21 -11.99 -34.87 10.70 123.35	Quantity 26.17 73.33	Value 34.13 98.31 20.18 0.40 -7.97 -49.92 32.99 128.12	Quantity 39.83 60.17	Value 51.96 76.83 29.35 0.29 -5.58 -34.43 23.15 141.55
Protein Vit Minerals (lb.) Creep / Starter (lb.) Corn Silage (lb.) Hay, Aflaffa (lb.) Hay, Grass (lb.) Pasture (aum) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Custom hire Marketing Operating interest Total direct expenses Return over direct expense	4.59 48.65 504.65 157.99 953.79 1.25 24.83	2.53 2.90 6.46 3.85 19.51 24.30 1.19 4.26 2.68 4.58 10.39 0.76 0.39 1.60 85.40 37.95	9.58 10.36 516.04 242.61 961.53 1.46 80.01	5.31 1.14 8.41 5.93 16.47 39.65 2.12 2.71 0.12 3.89 11.23 0.03 0.43 2.88 100.29 27.83	0.97 111.12 662.21 125.60 815.50 1.03 3.06	0.31 5.08 8.27 3.71 19.64 15.99 0.79 4.68 0.93 3.19 8.34 1.31 0.02 0.96 73.22 68.33
Overhead Expenses Custom hire Hired labor Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		0.47 2.30 2.42 1.70 2.16 11.62 1.13 21.81 107.21 16.14		0.08 2.55 2.45 1.99 1.24 13.03 0.53 21.88 122.17 5.95		0.79 2.70 1.69 0.94 0.44 7.57 1.04 15.17 88.39 53.16
Labor & management charge Net return over lbr & mgt		12.29 3.84		10.83 -4.88		10.73 42.43
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		85.40 107.21 115.57 127.86		100.29 122.17 126.89 137.72		73.22 88.39 75.91 86.64
Est. labor hours per unit		0.99		0.74		0.97
Other Information Number of cows Pregnancy percentage Pregnancy loss percentage Culling percentage Calving percentage Weaning percentage Weaning percentage Calves sold per cow Calf death loss percent Cow death loss percent Average weaning weight Lb. weaned/exposed female Feed cost per cow Avg wgt/ Beef Calves sold Avg price / cwt.		146.2 91.4 5.3 15.3 86.5 83.3 0.96 3.8 1.6 604 503 336.38 597 132.82		179.1 89.6 7.9 10.3 82.5 80.0 0.96 3.4 0.9 601 481 437.39 624 130.44		187.7 92.8 0.1 18.4 92.6 89.6 1.08 2.9 1.6 675 605 349.93 611 130.46

Beef Cow-Calf -- Average Per Cow

	Avg. C All Farn		40 - 6	0%	High 2	0%
Number of farms		22		5	-	5
Beef Calves sold (lb) Transferred out (lb) Cull sales Other income Purchased Transferred in Inventory change Gross margin	Quantity 232.1 320.9	Value 308.22 422.30 151.52 1.17 -66.38 -193.09 59.26 683.00	Quantity 144.9 405.9	Value 188.94 544.22 111.70 2.23 -44.11 -276.34 182.62 709.26	Quantity 259.1 391.5	Value 338.00 499.79 190.90 1.86 -36.33 -223.97 150.58 920.84
Direct Expenses Protein Vit Minerals (lb.) Creep / Starter (lb.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Custom hire Marketing Operating interest Total direct expenses Return over direct expense	25.4 269.4 2,794.3 874.8 5,281.2 6.9 137.5	14.03 16.05 35.76 21.34 108.05 134.58 6.56 23.59 14.86 25.34 57.50 4.22 2.14 8.85 472.88 210.12	53.0 57.4 2,856.7 1,343.0 5,322.8 8.1 442.9	29.37 6.30 46.55 32.82 91.17 219.47 11.72 14.99 0.64 21.52 62.14 0.19 2.36 15.96 555.19 154.06	6.3 722.9 4,307.9 817.1 5,305.1 6.7 19.9	1.98 33.05 53.78 24.16 127.80 104.04 5.12 30.45 6.03 20.74 54.26 8.54 0.11 6.27 476.33 444.51
Overhead Expenses Custom hire Hired labor Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		2.60 12.76 13.42 9.42 11.96 64.33 6.28 120.78 593.66 89.34		0.43 14.14 13.55 11.02 6.89 72.13 2.96 121.12 676.31 32.95		5.11 17.58 10.98 6.11 2.87 49.28 6.76 98.68 575.01 345.83
Labor & management charge Net return over lbr & mgt		68.05 21.29		59.95 -27.00		69.82 276.01
Cost of Production Per Cwt. Produced Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management		85.40 107.21 115.57 127.86		100.29 122.17 126.89 137.72		73.22 88.39 75.91 86.64
Est. labor hours per unit		5.50		4.12		6.29
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.		146.2 91.4 5.3 15.3 86.5 83.3 0.96 3.8 1.6 604 503 336.38 597 132.82		179.1 89.6 7.9 10.3 82.5 80.0 0.96 3.4 0.9 601 481 437.39 624 130.44		187.7 92.8 0.1 18.4 92.6 89.6 1.08 2.9 1.6 675 605 349.93 611 130.46

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

	Avg. Of All Farms		
Number of farms		10	
Beef Calves sold (lb) Transferred out (lb) Cull sales Other income Purchased Transferred in Inventory change Gross margin	Quantity 84.24 5.98	Value 120.91 9.37 17.68 0.41 -18.64 -9.35 -20.44 99.93	
Direct Expenses Protein Vit Minerals (lb.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Custom hire Hired labor Utilities Marketing Operating interest Total direct expenses Return over direct expense	4.45 0.22 154.39 174.37 1,053.63 1.10 47.42	1.40 0.58 2.16 4.36 20.90 14.01 2.00 5.69 6.40 5.79 11.21 2.09 1.43 2.09 0.17 1.43 81.72 18.22	
Overhead Expenses Hired labor Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		0.33 2.54 0.31 7.81 11.58 1.00 23.56 105.28 -5.35	
Labor & management charge Net return over lbr & mgt		15.84 -21.18	
Cost of Production Per Cwt. Produced Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management		81.72 105.28 126.32 142.15	
Est. labor hours per unit		1.11	
Other Information Number of cows Pregnancy percentage Pregnancy loss percentage Culling percentage Calving percentage Weaning percentage Calves sold per cow Calf death loss percent Cow death loss percent Average weaning weight Lb. weaned/exposed female Feed cost per cow Avg wgt/ Beef Calves sold Avg price / cwt.		108.7 89.6 1.0 10.8 88.7 84.3 0.77 4.7 0.9 565 4476 244.46 619 143.52	

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

	Avg. All Fai	
Number of farms		10
Beef Calves sold (lb) Transferred out (lb) Cull sales Other income Purchased Transferred in Inventory change Gross margin	Quantity 453.5 32.2	Value 650.83 50.43 95.17 2.21 -100.33 -50.33 -110.03 537.95
Direct Expenses Protein Vit Minerals (lb.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Custom hire Hired labor Utilities Marketing Operating interest Total direct expenses Return over direct expense	24.0 1.2 831.1 938.6 5,671.6 5.9 255.3	7.52 3.11 11.62 23.47 112.53 75.43 10.79 30.65 34.45 31.16 60.33 11.26 7.72 11.23 0.91 7.72 439.89 98.05
Overhead Expenses Hired labor Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		1.76 13.69 1.66 42.03 62.33 5.37 126.83 566.73 -28.78
Labor & management charge Net return over lbr & mgt		85.24 -114.02
Cost of Production Per Cwt. Produced Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management		81.72 105.28 126.32 142.15
Est. labor hours per unit		5.95
Other Information Number of cows Pregnancy percentage Pregnancy loss percentage Culling percentage Calving percentage Weaning percentage Weaning percentage Calves sold per cow Calf death loss percent Cow death loss percent Average weaning weight Lb. weaned/exposed female Feed cost per cow Avg wgt/ Beef Calves sold Avg price / cwt.		108.7 89.6 1.0 10.8 88.7 84.3 0.77 4.7 0.9 565 476 244.46 619 143.52

Beef Replacement Heifers -- Average Per Head

	Avg ———All F	Avg. Of All Farms		
Number of farms		13		
Beef Replace sold (hd) Transferred out (hd) Cull sales (hd)	Quantity 0.11 0.79 0.02	Value 169.98 1,142.73 14.98		
Other income Purchased (hd) Transferred in (hd) Inventory change (hd) Gross margin	0.05 0.77 -0.11	-55.12 -732.01 -208.44 332.12		
Direct Expenses Protein Vit Minerals (lb.) Creep / Starter (lb.) Corn (bu.) Com Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Oats (bu.) Pasture (aum) DDGS, dry (lb.) Other feed stuffs (lb) Breeding fees Veterinary Supplies Fuel & oil Repairs Custom hire Marketing Operating interest Total direct expenses Return over direct expense	32.04 41.84 4.02 1,276.56 924.28 1,735.30 3.29 3.09 50.11 103.89	7.40 2.89 10.50 13.42 19.94 38.88 6.42 64.11 3.01 5.38 16.00 8.37 3.14 2.86 5.95 0.49 0.18 1.01 209.95 122.17		
Overhead Expenses Hired labor Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		1.83 1.57 1.20 1.18 6.49 1.10 13.37 223.33 108.79		
Labor & management charge Net return over lbr & mgt		7.24 101.56		
Est. labor hours per unit		0.67		
Other Information No. purchased or trans in Number sold or trans out Average number of head Percentage death loss Feed cost per average head		45 50 55 0.2 171.95		

Beef Replacement Heifers -- Average Per Head Sold/Trans

		Avg. Of All Farms		
Number of farms		13		
Beef Replace sold (hd) Transferred out (hd) Cull sales (hd) Otheringere	Quantity 0.1 0.9 0.0	Value 187.87 1,262.98 16.56		
Other income Purchased (hd) Transferred in (hd) Inventory change (hd) Gross margin	0.1 0.9 -0.1	-60.92 -809.03 -230.38 367.07		
Pirect Expenses Protein Vit Minerals (lb.) Creep / Starter (lb.) Corn (bu.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Oats (bu.) Pasture (aum) DDGS, dry (lb.) Other feed stuffs (lb) Breeding fees Veterinary Supplies Fuel & oil Repairs Custom hire Marketing Operating interest Total direct expenses Return over direct expense	35.4 46.2 4.4 1,410.9 1,021.5 1,917.9 3.6 3.4 55.4 114.8	8.17 3.19 11.60 14.83 22.04 42.97 7.10 70.86 3.32 5.95 17.68 9.25 3.47 3.16 6.58 0.20 1.12 232.05 135.02		
Overhead Expenses Hired labor Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		2.03 1.74 1.33 1.30 7.17 1.21 14.78 246.83 120.24		
Labor & management charge Net return over lbr & mgt		8.00 112.24		
Est. labor hours per unit		0.74		
Other Information No. purchased or trans in Number sold or trans out Average number of head Percentage death loss Feed cost/head sold/trans		45 50 55 0.2 190.04		

Beef Backgrounding -- Average Per Cwt. Produced

	Avg. All Far	
Number of farms		14
Backgnd Beef sold (lb) Transferred out (lb) Other income Transferred in (lb) Inventory change (lb) Gross margin	Quantity 335.80 101.01 -116.23 -221.63	Value 503.78 142.73 1.26 -156.03 -382.48 109.26
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Barley (bu.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Oats (bu.) Pasture (aum) DDGS, wet (lb.) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Custom hire Marketing Total direct expenses Return over direct expense	16.70 7.31 0.45 2.20 383.39 75.18 426.66 0.81 0.11 3.00 66.06	3.46 0.47 1.12 5.80 5.23 1.55 9.16 1.87 2.86 0.53 1.11 1.39 0.95 0.82 1.93 0.41 1.20 39.88 69.38
Overhead Expenses Hired labor Farm insurance Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		0.68 0.47 2.35 1.04 4.54 44.42 64.84
Labor & management charge Net return over lbr & mgt		2.98 61.86
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		132.13 133.17 133.17 133.85
Est. labor hours per unit		0.20
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.		43 121 0.4 1.54 2.03 8.95 33.18 52.43 694 150.03

Beef Backgrounding -- Average Per Head

	Avg. Of All Farms		
Number of farms		14	
Backgnd Beef sold (lb) Transferred out (lb) Other income Transferred in (lb) Inventory change (lb) Gross margin	Quantity 530.7 159.6 -183.7 -350.3	Value 796.14 225.56 1.99 -246.59 -604.45 172.66	
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Barley (bu.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Oats (bu.) Pasture (aum) DDGS, wet (lb.) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Custom hire Marketing Total direct expenses Return over direct expense	26.4 11.5 0.7 3.5 605.9 118.8 674.3 1.3 0.2 4.7 104.4	5.47 0.75 1.77 9.17 8.26 2.45 14.47 2.96 4.51 0.85 1.76 2.20 1.50 1.29 3.05 0.65 1.90 63.02	
Overhead Expenses Hired labor Farm insurance Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		1.08 0.74 3.72 1.65 7.18 70.20 102.46	
Labor & management charge Net return over lbr & mgt		4.71 97.75	
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		132.13 133.17 133.17 133.85	
Est. labor hours per unit		0.32	
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.		43 121 0.4 1.54 2.03 8.95 33.18 52.43 694 150.03	

Figure 1. Gross Cash Income Per Farm

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

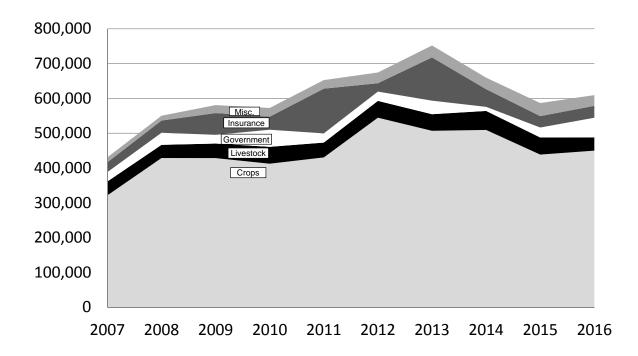


Figure 2. Net Farm Income (Accrual) Per Farm

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

750,000 700,000 650,000 600,000 550,000 500,000 450,000 400,000 350,000 300,000 250,000 200,000 150,000 100,000 50,000 -50,000 -100,000 -150,000 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 ■20% Low Profit 13,514 20,712 11,620 (59,984)511 (20,324)23,973 51,285 (124,340)(26,671)■Middle 60% Profit 156,790 159,529 82,288 180,154 160,933 245,816 131,506 72,312 14,371 106,234 ■20% High Profit 479,660 488,927 309,693 559,230 518,935 710,094 435,606 284,398 183,031 376,785 ■—Average of All 193,952 193,605 108,397 233,968 205,803 302,314 169,771 89,569 20,361 133,763

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

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

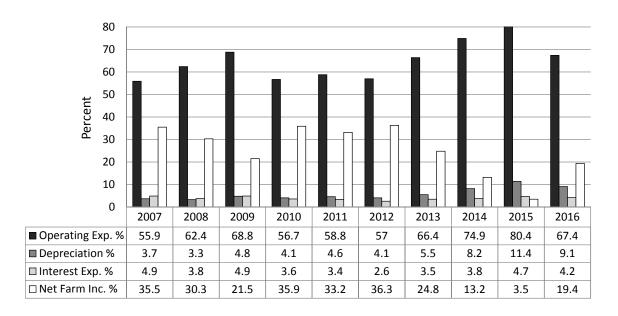


Figure 4. Profitability Measures Per Farm

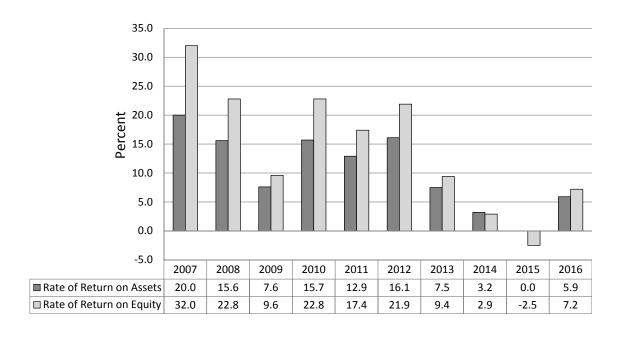


Figure 5. Assets and Liabilities Per Farm, 2016

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

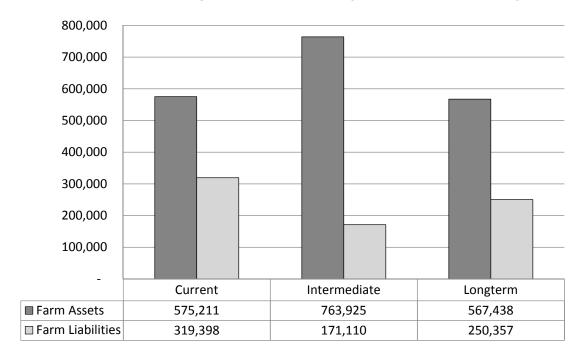


Figure 6. Total Farm Assets and Liabilities

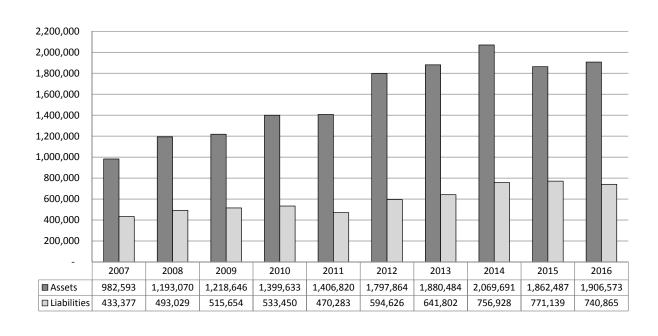


Figure 7. Household and Personal Expenses

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

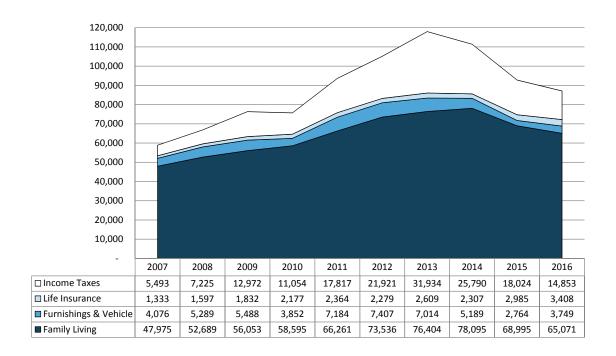


Figure 8. Crop Acreage Per Farm

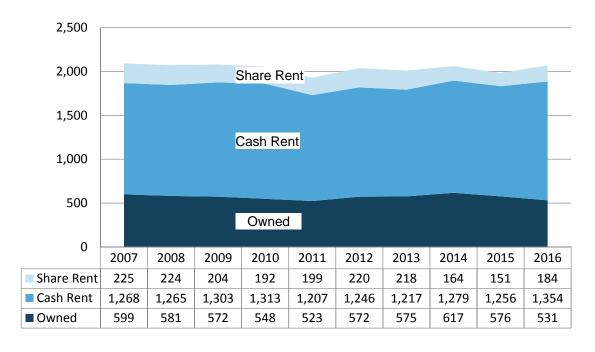


Figure 9. Spring Wheat Costs Per Acre

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

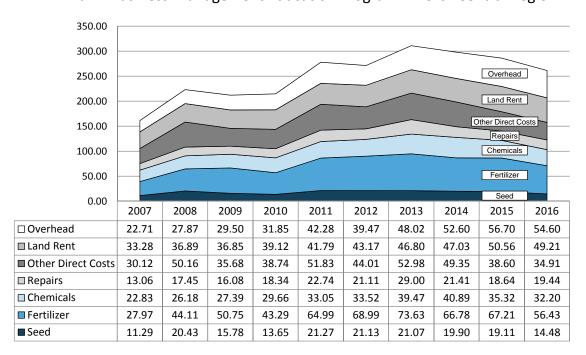
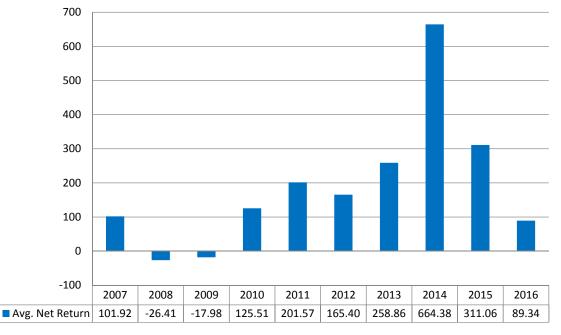
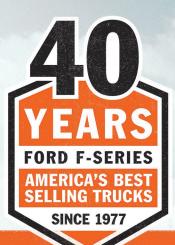


Figure 10. Average Net Return Per Beef Cow





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