# 2019 ANNUAL REPORT State Averages

North Dakota Farm and Ranch Business

Management Education





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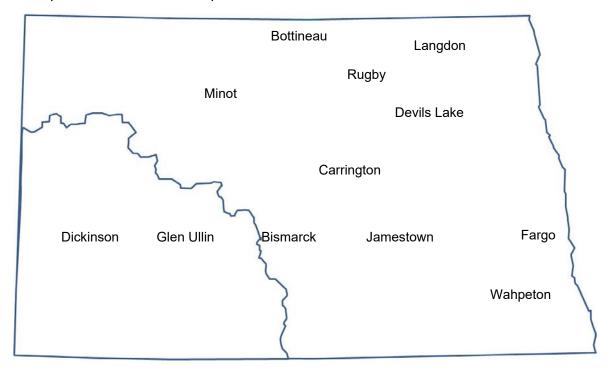
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## NORTH DAKOTA FARM BUSINESS MANAGEMENT EDUCATION

## 2019 ANNUAL REPORT

<u>Instructor</u>
. Kyle Olson
. Jeff Dragseth
. Rodney Armstrong
. Lynsey Aberle
. Sheila Braaten
. Kelcey Hoffmann
Ron Smithberg
. Ron Egli
. Jason Fewell
Virgil Dagman
.Joel Lemer
Steve Metzger
. Darren Wilcox
. Jeremiah Halley
. Kara Wulfekuhle

This report was made possible by the farm families who cooperated with their farm management instructors in getting the records for 2019 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.



## 2019 State 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 2019 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 31<sup>st</sup> 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 income statement is a table which lists <u>cash</u> farm income. There are several sources of cash farm income. Cash sales of crops are listed first followed by cash sales of livestock.

Government payments are categorized. "Crop government payments" are Agricultural Risk Coverage (ARC) and Price Loss Coverage (PLC) payments. "LDP payments" are loan deficiency payments that may be received on production when local prices are below the county loan rate for the crop. "Livestock government payments" include dairy MPP payments and other livestock related payments. "CRP payments" are funds received for land enrolled in the Conservation Reserve Program. "Other government payments" refers to all other government payments such as disaster payments, EQIP, CSP, and Market Facilitation Payments (MFP).

Lastly, cash income is categorized by sources such as custom work, cash patronage dividends, crop and property insurance indemnities, sale of resale items, and other.

The second section of the income statement lists <u>cash</u> expenses. "Hired labor" includes only labor which was hired and paid. "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 operators 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 operators labor and management that is used in the calculation of several financial performance measures. A value of \$25,000 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 Program State Report, 2019 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	366	73	73	74
Cash Farm Income				
Barley	20,962	11,294	5,023	66,221
Beans, Black Turtle	633	4	1,370	1,779
Beans, Faba	85	176	-	-
Beans, Garbonzo	1,152 115	4,734	- 578	325
Beans, Light Red Kidney Beans, Navy	1,650	2,074	3/6	802
Beans, Pinto	17,830	16,520	10,983	53,335
Buckwheat	79	395	-	-
Canola	30,933	15,696	14,122	71,565
Corn	143,129	120,416	107,139	247,719
Corn Silage	1,351	<u>_7</u>	-	
Hay, Alfalfa	570	71	-	7 <b>9</b>
Hay, Mixed	1,229	5,924	33	
Hay, Small Grain	640	2,607	224	2.065
Lentils Oats	431 682	67	1,626	2,065 515
Peas, Field	4,644	2,870	7,318	6,647
Potatoes	1,326	6,301	7,516	0,047
Rye	460	85	1,351	_
Soybeans	178,029	141,766	123,199	318,055
Sugar Beets	9,228	9,705	5,706	6,122
Sunflowers	12,162	21,996	1,314	28,570
Sunflowers, Confectionary	2,863	2,455	· -	4,208
Wheat, Durum	7,727	6,574	-	26,796
Wheat, Spring	122,998	129,620	71,749	258,235
Wheat, Winter	1,157	3,590	-	906
Rented Out	289	642	64	732
Soybeans, Natto	539	- 1 465	-	1,528
User Added Crop Miscellaneous crop income	346 6,499	1,465 2,444	1,066	266 8,055
Beef Bulls	1,058	306	1,000	179
Beef Cow-Calf, Beef Calves	27,754	41,359	28,788	29,194
Beef Replacement Heifers	1,216	386	3,843	1,415
Beef Backgrounding	7,529	9,352	12,525	5,608
Beef Finishing	20,116	99,185	68	1,579
Beef Finish Yearlings	1,628	2,985	1,469	47
Beef Stockers	683		-	_3,376
Dairy, Milk	23,248	49,675	-	55,339
Dairy, Dairy Calves	445	236	-	1,468
Horses, Breeding Mares, Foals Sheep, Feeder Lamb Prod, Fdr Lambs	57 39	- 194	281	-
Bison Cow-Calf, Bison Calves	315	194	<del>-</del>	-
Cull breeding livestock	6,566	8,209	6,499	7,925
Misc. livestock income	98	140	176	36
Crop government payments	16,943	13,808	7,367	38,279
CRP payments	1,222	527	1,044	3,102
Other government payments	68,404	63,903	43,275	127,817
Conservation govt payment	3,450	2,068	2,749	6,466
Custom work income	20,439	61,483	5,973	20,059
Patronage dividends, cash	5,022	6,284	3,853	6,471
Crop insurance income	46,600	64,788 4,771	20,072	92,870
Property insurance income Sale of resale items	2,776 297	4,771	2,177	3,956 909
Livestock insurance inc	297 27	- 14	114	909 -
Other farm income	20,854	15,734	21,835	23,929
Gross Cash Farm Income	846,523	954,899	514,996	1,534,550
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## Farm Income Statement (continued) North Dakota Farm Business Management Education Program State Report, 2019 (Farms Sorted By Net Farm Income)

	Avg. Of			
	All Farms	Low 20%	<u>40 - 60%</u>	High 20%
Number of farms	366	73	73	74
Cash Farm Expense				
Seed and plants	88,356	81,194	52,413	165,957
Fertilizer	102,154	118,338	57,573	187,136
Crop chemicals	64,094	68,580	34,810	123,884
Crop insurance	26,784	33,446	16,148	48,242
Drying expense Storage	3,703 954	3,534 729	2,559 295	6,540 1,708
Irrigation energy	243	729	296	349
Cropmiscellaneous	1,280	1,607	438	1,692
Crop consultants	2,268	1,393	824	4,863
Feeder livestock purchase	11,779	47,513	4,425	6,872
Purchased feed ·	18,294	41,712	7,375	28,768
Breeding fees	525	1,006	199	917
Veterinary	3,072	7,111	1,848	3,358
Supplies	7,597	31,878	874	2,991
Livestock leases	235	1,018	78	63
Livestock consultants	64	- 67.096	- 25 220	316
Interest Fuel&oil	42,962 33,289	67,986 43,000	25,329 19,664	58,333 53,097
Repairs	64,348	85,655	39,546	93,899
Custom hire	17,101	20,711	10,176	25,170
Hired labor	32,449	54,398	15,289	56,187
Land rent	118,371	121,387	67,739	202,009
Stock/quota lease	136	64	-	-
Machinery leases	11,035	14,564	6,074	19,535
Building leases	1,517	3,452	826	2,063
Real estate taxes	5,524	4,769	4,598	8,538
Farm insurance	12,184	15,780	8,408	18,927
Utilities	10,477	12,822	6,284	16,936
Hauling and trucking	775	3,886	1 246	2742
Marketing Dues & professional fees	1,869 4,527	3,382 5,785	1,346 2,837	2,742 8,188
Purchase of resale items	3,727	2,882	1,194	3,789
Miscellaneous	11,912	10,394	6,128	22,764
Total cash expense	703,605	909,976	395,593	1,175,833
Net cash farm income	142,917	44,923	119,402	358,717
Inventory Changes				
Prepaids and supplies	-2,359	-2,977	-7,691	4,899
Accounts receivable	10,604	20,099	4,956	12,982
Hedging accounts	2,381	3,031	144	6,013
Other current assets	4,934	5,898	243	-382
Crops and feed	3,383 -6,418	-34,958 -41,528	-25,690 4,166	78,299 7,143
Market livestock Breeding livestock	-0,416 -3,166	-41,526 -8,215	-8,100	-615
Other assets	-392	-236	2,484	-5,563
Accounts payable	-4,407	2,065	-1,804	-9,020
Accrued interest	-3,301	-5,344	-1,416	-6,627
Total inventory change	1,260	-62,166	-32,707	87,129
Net operating profit	144,178	-17,243	86,695	445,846
Depreciation				
Machinery and equipment	-59,783	-62,304	-38,348	-116,009
Titled vehicles	-6,694	-6,663	-4,182	-11,042
Buildings and improvements	-6,690	-9,122 70,000	-3,907	-14,860
Total depreciation	-73,167	-78,088	-46,437	-141,911
Net farm income from operations	71,010	-95,331	40,258	303,935
Gain or loss on capital sales	3,090	-825	-1,256	13,543
Netfarmincome	74,100	-96,157	39,002	317,478

## Inventory Changes North Dakota Farm Business Management Education Program State Report, 2019 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	366	73	73	74
Net cash farm income	142,917	44,923	119,402	358,717
Crops and Feed Ending inventory Beginning inventory Inventory change	503,122 499,739 3,383	407,768 442,726 -34,958	277,932 303,622 -25,690	1,158,636 1,080,337 78,299
Market Livestock Ending inventory Beginning inventory Inventory change	40,183 46,601 -6,418	66,117 107,645 -41,528	42,222 38,056 4,166	36,937 29,793 7,143
Accts Receivable Ending inventory Beginning inventory Inventory change	67,058 56,453 10,604	81,819 61,720 20,099	28,660 23,704 4,956	126,301 113,320 12,982
Prepaid Expenses and Supplies Ending inventory Beginning inventory Inventory change	61,352 63,711 -2,359	35,422 38,399 -2,977	31,832 39,523 -7,691	169,770 164,871 4,899
Hedging Activities Ending inventory Withdrawals Beginning inventory Deposits Gain or loss	6,701 5,264 5,621 3,962 2,381	4,353 4,488 3,808 2,001 3,031	3,386 4,713 3,935 4,020 144	19,297 13,467 16,363 10,389 6,013
Other Current Assets Ending inventory Beginning inventory Inventory change	7,454 2,520 4,934	10,721 4,823 5,898	1,424 1,180 243	1,270 1,652 -382
Breeding Livestock Ending inventory Capital sales Beginning inventory Capital purchases Depreciation, capital adjust	80,040 1,187 77,501 6,892 -3,166	109,861 1,281 110,157 9,200 -8,215	59,720 1,376 55,314 13,882 -8,100	97,785 2,001 97,446 2,955 -615
Other Capital Assets Ending inventory Capital sales Beginning inventory Capital purchases Depreciation, capital adjust	120,550 1,971 112,507 10,406 -392	82,612 1,209 80,072 3,985 -236	89,298 5,774 91,647 941 2,484	242,647 2,139 210,253 40,096 -5,563
Accounts Payable Beginning inventory Ending inventory Inventory change	26,803 31,209 -4,407	47,395 45,330 2,065	10,061 11,864 -1,804	38,627 47,647 -9,020
Accrued Interest Beginning inventory Ending inventory Inventory change	17,887 21,188 -3,301	26,916 32,261 -5,344	10,263 11,679 -1,416	24,396 31,022 -6,627
Total inventory change	1,260	-62,166	-32,707	87,129
Net operating profit	144,178	-17,243	86,695	445,846

## Depreciation North Dakota Farm Business Management Education Program State Report, 2019 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	<u>40 - 60%</u>	High 20%
Number of farms	366	73	73	74
Net operating profit	144,178	-17,243	86,695	445,846
Machinery and Equipment				
Ending inventory	626,227	606,586	438,455	1,181,152
Capital sales	22,699	22,830	12,994	60,801
Beginning inventory	615,803	623,064	426,721	1,132,115
Capital purchases	92,906	68,656	63,075	225,847
Depreciation, capital adjust.	-59,783	-62,304	-38,348	-116,009
Titled Vehicles				
Ending inventory	54,824	51,757	37,089	93,029
Capital sales	1,727	1,669	957	2,512
Beginning inventory	53,318	53,600	37,039	87,196
Capital purchases	9,927	6,489	5,188	19,388
Depreciation, capital adjust.	-6,694	-6,663	-4,182	-11,042
Buildings and Improvements				
Ending inventory	204,247	229,650	133,393	410,054
Capital sales	832	2,119	70	1,949
Beginning inventory	197,072	224,758	133,889	393,528
Capital purchases	14,697	16,133	3,481	33,336
Depreciation, capital adjust.	-6,690	-9,122	-3,907	-14,860
Total depreciation, capital adj.	-73,167	-78,088	-46,437	-141,911
Net farm income from operations	71,010	-95,331	40,258	303,935
Gain or loss on capital sales	3,090	-825	-1,256	13,543
Net farm income	74,100	-96,157	39,002	317,478

## Profitability Measures North Dakota Farm Business Management Education Program State Report, 2019 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	366	73	73	74
Profitability (assets valued at cost)				
Net farm income from operations	71,010	-95,331	40,258	303,935
Rate of return on assets	2.3 %	-3.7 %	1.2 %	5.9 %
Rate of return on equity	0.6 %	-16.0 %	-0.6 %	6.7 %
Operating profit margin	6.6 %	-10.4 %	4.3 %	16.7 %
Asset turnover rate	34.6 %	35.2 %	28.9 %	35.3 %
Farm interest expense	46,262	73,330	26,744	64,960
Value of operator lbr and mgmt.	62,966	61,883	46,571	102,794
Return on farm assets	54,307	-83,884	20,432	266,101
Average farm assets	2,373,670	2,287,496	1,662,490	4,516,704
Return on farm equity	8,045	-157,214	-6,313	201,141
Average farm equity	1,403,253	980,933	1,081,974	3,018,952
Value of farm production	820,674	805,899	480,339	1,593,803

## Liquidity & Repayment Capacity Measures North Dakota Farm Business Management Education Program State Report, 2019 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	366	73	73	74
Liquidity				
Current ratio	1.59	1.01	2.09	1.97
Working capital	221,878	5,509	193,502	576,711
Working capital to gross inc	30.7%	0.7%	48.2%	42.0%
Current assets	595,318	580,280	370,690	1,171,633
Current liabilities	373,440	574,770	177,189	594,922
Gross revenues (accrual)	722,808	804,908	401,803	1,373,971
Repayment capacity				
Net farm income from operations	71,010	-95,331	40,258	303,935
Depreciation	73,167	78,088	46,437	141,911
Personal income	37,433	38,011	33,712	45,065
Family living/owner withdrawals	-69,107	-73,551	-52,914	-92,189
Cash discrepancy	118	-22	<b>-</b> 6	338
Payments on personal debt	-4,701	-4,647	-4,067	-6,067
Income taxes paid	-14,166	-8,768	-11,275	-30,187
Interest on term debt	26,513	33,546	16,302	39,179
Capital debt repayment capacity	120,267	-32,673	68,448	401,984
Scheduled term debt payments	-88,928	-106,610	-55,067	-141,087
Capital debt repayment margin	31,338	-139,284	13,382	260,897
Cash replacement allowance	-41,885	-34,519	-32,643	-81,279
Replacement margin	-10,546	-173,802	-19,261	179,618
Term debt coverage ratio	1.35	-0.31	1.24	2.85
Replacement coverage ratio	0.92	-0.23	0.78	1.81

## **Balance Sheet at Cost Values** North Dakota Farm Business Management Education Program State Report, 2019 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	330	65	66	58
Assets				
Current Farm Assets				
Cash and checking balance	52,595	23,298	71,873	74,880
Prepaid expenses & supplies	43,277	33,862	25,512	101,251
Growing crops	4,389	2,286	184	393
Accounts receivable	52,428 5,137	71,877 4,609	28,274 1,376	85,982 17,158
Hedging accounts Crops held for sale or feed	396,853	371,483	198,010	871,005
Market livestock held for sale	39,134	72,342	44,458	20,912
Other current assets	1,506	524	1,003	52
Total current farm assets	595,318	580,280	370,690	1,171,633
Intermediate Farm Assets				
Breeding livestock	69,097	85,351	62,760	59,188
Machinery and equipment	529,800	577,152	350,436	954,228
Titled vehicles	49,581	49,687	31,776	80,757
Other intermediate assets	48,075	43,095	45,703	77,092
Total intermediate farm assets	696,553	755,286	490,675	1,171,266
Long Term Farm Assets Farm land	560,697	552 O62	424 000	1 100 005
Buildings and improvements	156,400	552,962 192,778	434,098 92,966	1,100,885 298,959
Other long-term assets	42,160	28,374	19,199	80,947
Total long-term farm assets	759,257	774,114	546,262	1,480,791
Total Farm Assets	2,051,129	2,109,680	1,407,627	3,823,690
Total Nonfarm Assets	330,250	330,435	250,084	464,201
Total Assets	2,381,379	2,440,115	1,657,712	4,287,890
Liabilities				
Current Farm Liabilities	10.040	20.070	0.040	20.000
Accrued interest	19,248 24,534	30,076 39,371	8,918 8,847	30,200 38,240
Accounts payable Current notes	270,866	434,450	126,169	428,199
Government crop loans	-	-	-	+20,100 -
Principal due on term debt	58,791	70,873	33,255	98,283
Total current farm liabilities	373,440	574,770	177,189	594,922
Total intermediate farm liabs	166,639	236,879	82,783	231,523
Total long term farm liabilities	359,261	457,837	216,498	636,468
Total farm liabilities	899,340	1,269,486	476,470	1,462,912
Total nonfarm liabilities	64,501	76,497	49,314	98,280
Total liabilities	963,841	1,345,983	525,783	1,561,192
Net worth (farm and nonfarm)	1,417,537	1,094,132	1,131,928	2,726,698
Net worth change	39,680	-114,663	62,201	216,298
Percent net worth change	3 %	-9 %	6 %	9 %
Ratio Analysis	00.0/	20.07	40.07	E4.0/
Current farm liabilities / assets	63 %	99 % 31 %	48 % 17 %	51 %
Intermediate farm liab. / assets Long term farm liab. / assets	24 % 47 %	31 % 59 %	17 % 40 %	20 % 43 %
Total debt to asset ratio	40 %	55 %	32 %	36 %

## Statement Of Cash Flows

## North Dakota Farm Business Management Education Program State Report, 2019 (Farms Sorted By Net Farm Income)

	Avg. Of			
	All Farms	<u>Low 20%</u>	<u>40 - 60%</u>	High 20%
Number of farms	366	73	73	74
Beginning cash (farm & nonfarm)	71,108	49,902	76,617	97,720
Cash Provided By Operating Activities				
Gross cash farm income	846,523	954,899	514,996	1,534,550
Total cash farm expense	-703,605	-909,976	-395,593	-1,175,833
Net cash from hedging transactions	1,302	2,486	693	3,079
Cash provided by operating	144,219	47,409	120,095	361,795
Cash Provided By Investing Activities				
Sale of breeding livestock	1,062	1,281	1,376	1,555
Sale of machinery & equipment	22,539	21,271	11,704	63,154
Sale of titled vehicles	1,772	1,354	991	2,802
Sale of farm land	6,214	3,342	_	19,723
Sale of farm buildings	847	2,187	70	1,946
Sale of other farm assets	2,185	2,283	5,774	2,139
Sale of nonfarm assets	8,033	4,789	661	5,511
Purchase of breeding livestock	-6,892	-9,200	-13,882	-2,955
Purchase of machinery & equip.	-92,906	-68,656	-63,075	-225,847
Purchase of titled vehicles	-9,927	-6,489	-5,188	-19,388
Purchase of farm land	-58,968	-43,088	-61,874	-148,241
Purchase of farm buildings	-14,697	-16,133	-3,481	-33,336
Purchase of other farm assets	-10,406	-3,985	-941	-40,096
Purchase of nonfarm assets	-19,526	-6,165	-24,598	-21,369
Cash provided by investing	-170,669	-117,207	-152,464	-394,401
Cash provided by investing	-170,000	-117,207	-102,404	-554,401
Cash Provided By Financing Activities				
Money borrowed	697,779	969,380	389,063	1,184,676
Principal payments	-633,710	-867,862	-347,738	-1,082,617
Personal income	37,433	38,011	33,712	45,065
Family living/owner withdrawals	-69,106	-73,551	-52,911	-92,189
Income and social security tax	-14,753	-8,929	-12,164	-27,488
Capital contributions	343	33	-	1,665
Capital distributions	-1,329	-75	-3,979	-446
Dividends paid	-1	-	-3	-
Cash gifts and inheritances	15,961	4,212	39,604	28,433
Gifts given	-1,395	-1,132	-2,253	-2,660
Other cash flows	-	-	-	-
Cash provided by financing	31,221	60,088	43,331	54,439
Net change in cash balance	4,772	-9,710	10,962	21,833
Ending cash (farm & nonfarm)	75,998	40,170	87,574	119,891
Discrepancy	-118	22	6	-338

## Financial Standards Measures North Dakota Farm Business Management Education Program State Report, 2019 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	<u>Low 20%</u>	40 - 60%	High 20%
Number of farms	366	73	73	74
Liquidity				
Current ratio	1.59	1.01	2.09	1.97
Working capital	221,878	5,509	193,502	576,711
Working capital to gross inc	30.7%	0.7%	48.2%	42.0%
Solvency (cost)				
Farm debt to asset ratio	44%	60%	34%	38%
Farm equity to asset ratio	56%	40%	66%	62%
Farm debt to equity ratio	0.78	1.51	0.51	0.62
Profitability (cost)				
Rate of return on farm assets	2.3%	-3.7%	1.2%	5.9%
Rate of return on farm equity	0.6%	-16.0%	-0.6%	6.7%
Operating profit margin	6.6%	-10.4%	4.3%	16.7%
Net farm income	74,100	-96,157	39,002	317,478
EBITDA	190,440	56,087	113,439	510,806
Repayment Capacity				
Capital debt repayment capacity	120,267	-32,673	68,448	401,984
Capital debt repayment margin	31,338	-139,284	13,382	260,897
Replacement margin	-10,546	-173,802	-19,261	179,618
Term debt coverage ratio	1.35	-0.31	1.24	2.85
Replacement coverage ratio	0.92	-0.23	0.78	1.81
Efficiency				
Asset turnover rate (cost)	34.6%	35.2%	28.9%	35.3%
Operating expense ratio	77.7%	93.8%	77.0%	68.7%
Depreciation expense ratio	8.6%	8.7%	9.4%	8.7%
Interest expense ratio	5.4%	8.2%	5.4%	4.0%
Net farm income ratio	8.3%	-10.6%	8.2%	18.6%

## Crop Production and Marketing Summary North Dakota Farm Business Management Education Program State Report, 2019

(Farms Sorted By Net Farm Income)

	Avg. Of _All Farms	Low 20%	<u>40 - 60%</u>	High 20%
Number of farms	366	73	73	<u></u>
Number of familis	300	73	73	74
Acreage Summary	700	044	050	4 475
Total acres owned	733 2,147	641 2,387	656 1,256	1,175 3,894
Total crop acres Crop acres owned	2, 147 458	2,36 <i>1</i> 381	383	813
Crop acres cash rented	1,608	1,927	821	2,921
Crop acres share rented	81	79	52	160
Total pasture acres	426	495	404	478
Percent crop acres owned	21%	16%	30%	21%
Mach invest/crop acre cost	313	280	372	319
Average Price Received (Cash Sales On	ly)			
Soybeans per bushel	8.02	7.96	7.97	8.11
Wheat, Spring per bushel	4.85	4.60	4.88	5.03
Corn per bushel	3.31	3.28	3.55	3.24
Canola per cwt	14.99	13.62	13.83	15.51
Barley per bushel Beans, Pinto per cwt	4.31 23.02	4.03 23.00	4.17 22.67	4.45 23.09
Sunflowers per cwt	18.00	18.68	22.07	18.29
Peas, Field per bushel	6.15	5.07	7.32	6.24
Wheat, Durum per bushel	6.51	-	-	7.15
Flax per bushel	9.88	-	-	9.89
Hay, Grass per ton	46.59	-	-	-
Oats per bushel	2.31	-	-	-
Wheat, Winter per bushel	3.68	-	-	-
Average Yield Per Acre				
Wheat, Spring (bushel)	54.86	48.30	50.28	57.86
Soybeans (bushel)	35.33	32.82	33.88	36.15
Corn (bushel)	148.97	137.79	144.18	153.97
Canola (cwt)	18.78	18.42	18.79	18.60
Barley (bushel)	78.04	67.22	53.59	84.92
Hay, Mixed Alfalfa/Grass (ton)	1.35 1.11	1.72 0.883	1.22	1.20 1.37
Hay, Grass (ton) Hay, Small Grain (ton)	2.36	2.91	0.977 2.08	2.57
Sunflowers (cwt)	15.72	16.34	2.00	16.37
Sugar Beets (ton)	18.79	18.72	23.47	14.15
Peas, Field (bushel)	43.62	43.95	-	40.71
Beans, Pinto (cwt)	15.12	13.78	14.70	15.66
Hay, Alfalfa (ton)	2.13	-	-	2.73
Flax (bushel)	23.29	-	-	22.84
Corn Silage (ton)	17.10	-	16.62	
Wheat, Durum (bushel)	59.43 80.08	-	- -	60.06
Oats (bushel) Beans, Black Turtle (cwt)	16.33	- -	- -	17.20
Soybeans, Food (bushel)	31.42	- -	-	-
Beans, Navy (cwt)	18.80	-	-	_
Hay, Summer Annual Grass (ton)	2.07	-	-	_

## Household and Personal Expenses North Dakota Farm Business Management Education Program State Report, 2019 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of forms				
Number of farms	94	16	22	15
Average family size	2.8	3.0	2.5	2.9
Family Living Expenses				
Food and meals expense	8,752	9,429	7,172	9,112
Medical care	4,563	4,589	3,632	4,306
Health insurance	7,784	8,721	6,255	11,578
Cash donations	2,099	1,884	2,094	4,572
Household supplies	5,865	6,184	5,804	5,944
Clothing	2,202	2,076	1,426	2,960
Personal care	5,018	4,538	4,748	6,706
Child / Dependent care	857	462	1,273	557
Alimony and child support	81	-	307	-
Gifts	1,734	3,056	1,485	2,094
Education	739	1,435	267	771
Recreation	5,148	6,002	5,232	5,257
Utilities (household share)	3,925	4,475	3,053	5,590
Personal vehicle operating exp	3,565	6,172	2,204	2,640
Household real estate taxes	320	239	482	566
Dwelling rent	126	-	5	-
Household repairs	2,021	1,340	1,845	1,790
Personal interest	1,574	2,122	1,896	514
Disability / Long term care ins	236	149	222	450
Life insurance payments	2,702	3,054	2,569	4,782
Personal property insurance	621	1,085	631	674
Miscellaneous	5,721	7,893	4,484	5,588
Total cash family living expense	65,653	74,905	57,076	76,449
Family living from the farm	314	57	913	436
Total family living	65,967	74,962	57,989	76,885
Other Nonfarm Expenditures				
Income taxes	13,667	6,248	18,170	33,145
Furnishing & appliance purchases	45	-	, -	-
Nonfarm vehicle purchases	2,673	3,082	1,343	3,082
Nonfarm real estate purchases	3,288	-	3,115	-
Other nonfarm capital purchases	841	-	-369	686
Nonfarm savings & investments	-905	-16,990	1,207	5,915
Total other nonfarm expenditures	19,608	-7,660	23,466	42,828
Total cash family living				
investment & nonfarm capital purch	85,261	67,245	80,541	119,277

## Operator and Labor Information North Dakota Farm Business Management Education Program State Report, 2019 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	366	73	73	74
Operator Information				
Average number of operators	1.1	1.1	1.1	1.3
Average age of operators	46.6	49.7	46.9	46.0
Average number of years farming	21.7	24.5	21.4	22.2
Results Per Operator				
Working capital	269,924	12,610	208,303	665,819
Total assets (cost)	2,487,582	2,260,469	1,902,503	3,943,211
Total liabilities	962,724	1,259,221	618,936	1,255,187
Net worth (cost)	1,524,858	1,001,248	1,283,568	2,688,024
Gross farm income	764,640	789,812	461,710	1,233,257
Total farm expense	701,095	873,657	424,032	1,003,755
Net farm income from operations	63,545	-83,846	37,677	229,502
Net nonfarm income	33,497	33,432	31,551	34,028
Family living & tax withdrawals	74,412	72,420	60,080	92,151
Total acres owned	655.6	563.4	614.1	887.4
Total crop acres	1,920.9	2,099.4	1,175.5	2,940.7
Crop acres owned	409.5	335.3	358.3	614.2
Crop acres cash rented	1,438.8	1,695.0	768.7	2,205.6
Crop acres share rented	72.7	69.1	48.5	120.9
Total pasture acres	381.5	435.2	378.0	360.8
Labor Analysis				
Number of farms	366	73	73	74
Total unpaid labor hours	2,065	2,101	1,853	2,617
Total hired labor hours	1,123	2,151	550	1,878
Total labor hours per farm	3,188	4,252	2,403	4,495
Unpaid hours per operator	1,848	1,848	1,735	1,976

## Nonfarm Summary North Dakota Farm Business Management Education Program State Report, 2019 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	<u>Low 20%</u>	40 - 60%	High 20%
Number of farms	366	73	73	74
Nonfarm Income				
Personal wages & salary	24,943	29,985	25,988	20,670
Net nonfarm business income	4,075	910	1,625	10,261
Personal rental income	1,285	767	1,467	3,719
Personal interest income	568	109	342	1,936
Personal cash dividends	52	13	119	118
Taxrefunds	1,431	1,790	923	966
Other nonfarm income	5,079	4,437	3,248	7,396
Total nonfarm income	37,433	38,011	33,712	45,065
Gifts and inheritances	15,961	4,212	39,604	28,433

## Financial Summary North Dakota Farm Business Management Education Program State Report, 2019 (Farms Sorted By Gross Farm Income)

	Avg. Of All Farms	Less than 100,000	100,001 - 250,000	250,001 - 500,000	500,001 - 1,000,000	1,000,001- 2,000,000	Over 2,000,000
Number of farms	366	30	54	63	125	67	27
Income Statement							
Gross cash farm income	846,523	59,677	182,297	369,547	720,920	1,422,444	3,314,547
Total cash farm expense	703,605	61,241	165,209	312,314	583,399	1,159,570	2,832,194
Net cash farm income	142,917	-1,564	17,088	57,233	137,521	262,873	482,353
Inventorychange	1,260	10,706	17,958	3,484	-10,912	-5,322	24,869
Depreciation	-73,167	-6,571	-14,738	-29,142	-66,576	-133,523	-247,486
Net farm income from operations	71,010	2,571	20,309	31,575	60,033	124,028	259,736
Gain or loss on capital sales	3,090	320	4,399	1,556	1,216	4,810	11,532
Average net farm income	74,100	2,891	24,708	33,131	61,249	128,837	271,268
Median net farm income	36,319	3,691	12,510	38,202	48,464	121,077	158,582
Profitability (cost)							
Rate of return on assets	2.3%	-2.8 %	1.0%	0.9%	1.9%	2.6%	3.2%
Rate of return on equity	0.6%	-14.1%	-2.4%	-1.1%	0.0%	1.2%	1.9%
Operating profit margin	6.6%	-11.7%	3.6%	2.9%	5.9%	7.6%	8.2%
Asset turnover rate	34.6%	24.3%	27.0%	32.0%	33.0%	34.4%	39.6%
Liquidity & Repayment (end of y	ear)						
Current assets	595,318	71,885	167,706	322,601	633,848	1,111,868	2,155,433
Current liabilities	373,440	56,662	93,144	170,275	375,309	725,297	1,583,848
Current ratio	1.59	1.27	1.80	1.89	1.69	1.53	1.36
Working capital	221,878	15,223	74,562	152,326	258,539	386,571	571,584
Change in working capital	-22,887	4,705	-8,313	-30,796	-22,256	-60,852	30,708
Working capital to gross inc	30.7%	20.1%	39.3%	41.0%	35.2%	27.7%	19.8%
Term debt coverage ratio	1.35	0.97	0.94	1.09	1.10	1.41	1.92
Replacement coverage ratio	0.92	0.83	0.76	0.74	0.75	0.95	1.24
Term debt to EBITDA	2.81	8.29	5.19	2.98	2.90	2.73	2.26
Solvency (end of year at cost)							
Number of sole proprietors	330	30	52	62	119	52	15
Total assets	2,381,379	419,727	874,561	1,400,620	2,574,814	4,608,764	6,325,926
Total liabilities	963,841	244,904	420,015	467,187	941,680	1,848,282	3,449,562
Net worth	1,417,537	174,823	454,546	933,433	1,633,134	2,760,482	2,876,364
Net worth change	39,680	19,062	14,647	19,278	48,432	46,282	159,697
Farm debt to asset ratio	44%	64%	53%	37%	40%	43%	58%
Total debt to asset ratio	40%	58%	48%	33%	37%	40%	55%
Change in earned net worth %	3%	12%	3%	2%	3%	2%	6%
Nonfarm Information							
Net nonfarm income	37,433	36,288	37,377	39,662	33,310	40,186	45,868
Farms reporting living expenses	94	10	15	18	41	9	1
Total family living expense	65,967	36,320	47,064	64,119	74,081	91,244	-
Crop Acres							
Total crop acres	2,147	270	596	1,102	1,985	3,781	6,462
Total crop acres owned	458	91	177	235	540	682	1,007
Total crop acres cash rented	1,608	146	393	777	1,355	2,987	5,349
Total crop acres share rented	81	34	25	90	90	112	106
Machinery value per crop acre	313	159	221	266	330	325	314

## Financial Summary North Dakota Farm Business Management Education Program State Report, 2019

(Farms Sorted By Age of Operator)

	Avg. Of All Farms	Less Than 31	<u>31 - 40</u>	<u>41 - 50</u>	<u>51 - 60</u>	Over 60
Number of farms	366	51	81	64	87	83
Income Statement						
Gross cash farm income	846,523	425,683	740,006	853,706	1,114,151	922,995
Total cash farm expense	703,605	373,056	653,359	722,737	949,501	683,252
Net cash farm income	142,917	52,628	86,647	130,969	164,650	239,743
Inventory change	1,260	29,978	45,921	8,936	10,893	-75,985
Depreciation	-73,167	-27,702	-51,024	-69,614	-104,009	-93,124
Net farm income from operations	71,010	54,904	81,544	70,292	71,534	70,634
Gain or loss on capital sales	3,090	142	2,447	705	1,750	8,770
Average net farm income	74,100	55,046	83,991	70,997	73,283	79,404
Median net farm income	36,319	26,536	48,684	26,345	23,391	43,701
Profitability (cost)						
Rate of return on assets	2.3%	4.1%	4.3%	2.4%	2.0%	1.3%
Rate of return on equity	0.6%	3.6%	3.9%	0.5%	-0.4%	0.2%
Operating profit margin	6.6%	7.8%	9.7%	6.2%	6.0%	5.0%
Asset turnover rate	34.6%	53.0%	44.9%	38.7%	33.0%	26.1%
Liquidity & Repayment (end of ye						
Current assets	595,318	282,999	523,725	634,398	762,259	676,960
Current liabilities	373,440	192,343	374,708	439,478	523,047	279,717
Current ratio	1.59	1.47	1.40	1.44	1.46	2.42
Working capital	221,878	90,657	149,017	194,920	239,212	397,243
Change in working capital	-22,887	-1,130	1,631	-24,958	-46,557	-38,160
Working capital to gross inc	30.7%	23.0%	19.3%	24.9%	26.7%	61.0%
Term debt coverage ratio	1.35	1.87	1.52	1.33	1.12	1.43
Replacement coverage ratio	0.92	1.60	1.23	0.92	0.77	0.78
Term debt to EBITDA	2.81	2.74	2.80	3.07	3.25	2.09
Solvency (end of year at cost)						
Number of sole proprietors	330	48	80	55	77	70
Total assets	2,381,379	894,376	1,885,712	2,338,406	3,191,944	3,109,655
Total liabilities	963,841	542,764	1,015,425	1,100,767	1,368,168	641,283
Net worth	1,417,537	351,611	870,287	1,237,639	1,823,776	2,468,373
Net worth change	39,680	45,736	79,346	21,164	22,853	23,251
Farm debt to asset ratio	44%	62%	56%	50%	47%	23%
Total debt to asset ratio	40%	61%	54%	47%	43%	21%
Change in earned net worth %	3%	15%	10%	2%	1%	1%
Nonfarm Information	07.400	00.400	04.507	40.040	00.004	40.705
Net nonfarm income	37,433	39,166	34,507	46,848	29,034	40,765
Farms reporting living expenses	94	12	22	12	20	28
Total family living expense	65,967	49,196	60,042	75,961	67,700	72,290
Crop Acres						
Total crop acres	2,147	1,385	1,789	2,286	2,732	2,242
Total crop acres owned	458	111	244	361	652	751
Total crop acres cash rented	1,608	1,239	1,417	1,873	2,038	1,366
Total crop acres share rented	81	36	129	52	43	125
Machinery value per crop acre	313	154	252	278	345	408

## Financial Summary North Dakota Farm Business Management Education Program State Report, 2019 (Farms Sorted By Farm Type)

	Avg. Of All Farms	Crop	Beef	Crop and Beef	Other
Number of farms	366	247	30	30	56
Income Statement					
Gross cash farm income	846,523	972,671	184,446	520,405	653,390
Total cash farm expense	703,605	802,412	142,533	446,170	535,049
Net cash farm income	142,917	170,260	41,913	74,236	118,341
Inventory change	1,260	14,243	-21,345	-20,214	-51,392
Depreciation	-73,167	-88,001	-14,355	-39,171	-47,229
Net farm income from operations	71,010	96,502	6,213	14,850	19,720
Gain or loss on capital sales	3,090	3,207	-62	3,499	4,861
Average net farm income	74,100	99,709	6,151	18,349	24,581
Median net farm income	36,319	65,988	1,174	13,188	14,993
Median net iann income	30,319	05,900	1,174	13,100	14,993
Profitability (cost)					
Rate of return on assets	2.3%	2.7%	-0.9%	0.4%	0.8%
Rate of return on equity	0.6%	1.4%	-5.3%	-3.8%	-2.5%
Operating profit margin	6.6%	7.6%	-4.7%	1.5%	2.5%
Asset turnover rate	34.6%	35.6%	18.5%	28.5%	31.3%
Liquidity & Repayment (end of year)					
Current assets	595,318	710,523	160,975	416,658	471,121
Current liabilities	373,440	446,857	110,779	357,786	237,581
Current ratio	1.59	1.59	1.45	1.16	1.98
Working capital	221,878	263,666	50,196	58,872	233,541
Change in working capital	-22,887	-24,197	-14,001	-36,303	-17,971
Working capital to gross inc	30.7%	30.7%	30.4%	11.99%	38.5%
Term debt coverage ratio	1.35	1.52	0.79	0.56	0.91
Replacement coverage ratio	0.92	1.01	0.79	0.46	0.57
Term debt to EBITDA	2.81	2.51	6.91	4.36	3.96
0-1					
Solvency (end of year at cost)	220	040	20	00	<b>5</b> 4
Number of sole proprietors	330	216	30	29	54
Total assets	2,381,379	2,775,573	831,856	1,751,089	1,994,946
Total liabilities	963,841	1,124,948	371,685	841,712	711,281
Net worth	1,417,537	1,650,625	460,171	909,376	1,283,665
Net worth change	39,680	52,558	23,537	-14,077	21,233
Farm debt to asset ratio	44%	44%	47%	51%	40%
Total debt to asset ratio	40%	41%	45%	48%	36%
Change in earned net worth %	3%	3%	5%	-2%	2%
Nonfarm Information					
Net nonfarm income	37,433	37,120	32,687	31,024	44,267
Farms reporting living expenses	94	57	11	8	18
Total family living expense	65,967	73,634	36,145	72,023	57,223
Crop Acres					
Total crop acres	2 4 4 7	2 572	500	1 075	1 250
Total crop acres owned	2,147	2,573	500 155	1,875	1,250
	458 4 608	510 1 056	155	479	383
Total crop acres cash rented	1,608	1,956	331	1,328	850
Total crop acres share rented	81	106	14	69	17
Machinery value per crop acre	313	322	213	192	336

### **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 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. 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.

Market Facilitation Payments, a 2019 USDA FSA program for commodities directly impacted by retaliatory tariffs, are included under "Other crop income per acre." "Government payments" are Agricultural Risk Coverage (ARC) and Price Loss Coverage (PLC) payments.

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	17
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Other product return per acre Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	151.81 65.69 100.00 4.16 8.57 282.00 14.55 24.69 321.24
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	16.08 44.44 28.52 13.86 12.91 21.36 6.35 0.95 6.55 1.80 152.83 168.41
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	1.79 9.84 2.43 1.33 8.35 5.19 3.66 0.67 25.51 28.42 4.80 91.98 244.81 76.43
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	14.18 90.60 22.95 67.66
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	2.33 3.73 2.78 3.13
Net value per unit Machinery cost per acre Est. labor hours per acre	4.16 74.36 1.32

## Barley on Cash Rent

	Avg. Of _All Farms	Low 20%	40 - 60%	High 20%
Number of farms	30	6	6	6
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	322.57	122.17	656.58	227.65
	78.85	58.39	79.12	93.14
	100.00	100.00	100.00	100.00
	4.08	3.76	4.15	4.43
	322.03	219.32	328.54	412.36
	10.87	-	7.12	-
	32.59	37.58	33.32	27.16
	365.50	256.90	368.98	439.51
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Hired labor Land rent Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	18.54 48.62 34.40 10.93 12.85 24.26 8.06 0.58 60.65 0.34 5.92 1.95 227.10 138.39	17.15 49.64 25.25 7.61 14.40 30.24 7.80 74.54 7.09 0.43 234.15 22.75	19.54 49.51 41.49 6.99 13.41 17.75 14.35 1.43 61.12 0.84 3.41 2.48 232.31 136.66	15.62 49.49 26.63 8.76 14.51 32.21 1.71 57.73 10.65 0.09 217.41 222.10
Overhead Expenses Custom hire Hired labor Machinery leases Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	0.26 9.02 2.82 0.48 4.46 3.82 2.48 3.64 28.30 6.98 62.25 289.35 76.14	2.19 8.31 0.14 0.56 5.46 6.23 2.55 4.24 33.24 7.05 69.98 304.13 -47.24	8.98 1.19 0.02 4.04 3.88 4.46 1.66 33.42 5.43 63.07 295.39 73.59	0.06 15.16 2.34 2.61 5.19 3.09 0.56 3.53 23.47 3.43 59.44 276.85 162.66
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	11.52	8.65	13.44	10.81
	87.66	-38.59	87.03	173.47
	23.84	23.73	19.89	23.84
	63.82	-62.32	67.14	149.63
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	2.88	4.01	2.94	2.33
	3.67	5.21	3.73	2.97
	2.97	4.42	3.05	2.56
	3.27	4.82	3.30	2.82
Net value per unit	4.08	3.76	4.15	4.43
Machinery cost per acre	78.38	91.49	79.27	75.26
Est. labor hours per acre	1.10	1.58	0.67	1.56

## Beans, Pinto on Owned Land

	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	230.91 14.24 100.00 24.90 354.52 54.06 35.46 444.03
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	56.29 28.00 46.39 18.08 13.50 29.51 7.95 1.73 10.84 1.25 213.52 230.51
Overhead Expenses Hired labor Machinery leases Building leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	10.64 6.99 1.21 7.86 6.43 5.46 2.96 60.52 35.51 3.64 141.22 354.74 89.29
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	3.85 93.14 30.30 62.85
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	15.00 24.91 18.36 20.48
Net value per unit Machinery cost per acre Est. labor hours per acre	24.90 97.18 1.30

## Beans, Pinto on Cash Rent

	Avg. Of All Farms
Number of farms	15
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	449.39 15.57 100.00 24.58 382.85 24.50 58.47 465.81
Direct Expenses Seed and plants 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	59.72 53.17 46.63 18.57 12.39 36.15 3.61 71.85 1.95 17.36 1.90 323.30 142.51
Overhead Expenses Hired labor Machinery leases Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	19.63 15.19 0.52 4.80 4.51 1.63 6.69 34.54 9.67 97.17 420.47 45.34
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	4.56 49.90 30.34 19.55
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	20.76 27.00 21.38 23.33
Net value per unit Machinery cost per acre Est. labor hours per acre	24.58 105.19 1.31

## Canola on Owned Land

	Avg. Of _All Farms	Low 20%	40 - 60%	High 20%
Number of farms	26	5	5	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	276.61	187.54	296.69	322.60
	18.05	17.81	20.19	21.17
	100.00	100.00	100.00	100.00
	14.98	14.59	15.05	15.85
	270.41	259.90	303.89	335.53
	16.17	5.94	-	2.42
	26.63	28.24	18.38	32.14
	313.20	294.08	322.27	370.08
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Hired labor Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	51.11 62.17 28.65 11.86 11.97 20.88 3.91 0.55 0.09 4.75 0.79 196.72 116.48	59.92 81.26 31.70 19.30 9.91 33.63 8.86 1.11 0.65 10.68 1.10 258.12 35.96	48.64 66.19 26.50 11.54 12.85 26.05 1.95 1.97 5.06 1.13 201.86 120.41	51.49 60.34 26.72 10.84 12.02 12.96 3.41 - 1.09 0.29 179.17 190.91
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	0.42 7.24 0.78 0.49 7.80 4.86 3.41 1.40 14.44 27.94 3.43 72.21 268.93 44.27	0.17 12.33 0.20 0.17 9.15 8.73 5.22 1.36 14.83 45.22 3.97 101.36 359.48 -65.40	0.00 12.88 0.81 9.14 5.04 3.79 0.87 24.99 25.65 4.64 87.81 289.66 32.61	0.68 7.33 0.81 0.75 6.76 3.67 2.70 2.70 14.85 31.16 4.81 76.22 255.39 114.69
Government payments	14.23	16.29	18.41	10.63
Net return with govt pmts	58.51	-49.12	51.02	125.32
Labor & management charge	24.18	26.47	21.39	22.85
Net return over lbr & mgt	34.33	-75.59	29.63	102.47
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	10.90	14.49	10.00	8.46
	14.90	20.18	14.35	12.06
	11.74	17.35	12.53	9.93
	13.08	18.83	13.58	11.01
Net value per unit	14.98	14.59	15.05	15.85
Machinery cost per acre	65.36	98.13	64.97	58.27
Est. labor hours per acre	1.15	1.52	1.15	0.91

## Canola on Cash Rent

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	49	9	10	10
Acres Yield per acre (cwt.) Operators share of yield % Value per cwt. Total product return per acre Hedging gains/losses per acre Crop insurance per acre Other crop income per acre	440.79	268.47	301.87	629.14
	17.74	11.28	19.31	21.79
	100.00	100.00	100.00	100.00
	14.95	14.42	14.69	15.13
	265.33	162.62	283.62	329.68
	0.00	-	-	-
	27.58	73.91	5.89	18.81
	28.34	30.44	24.96	25.09
Gross return per acre	321.26	266.98	314.47	373.58
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Hired labor Land rent Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	53.98 64.51 31.37 13.72 11.62 23.60 3.72 0.53 49.37 5.90 2.12 260.44 60.82	62.78 85.64 30.75 16.51 10.59 27.35 8.16 	52.16 64.49 29.93 10.62 13.40 27.72 4.45 1.18 51.01 6.13 1.42 262.50 51.96	50.22 57.93 33.15 15.44 11.85 24.94 2.32 48.03 4.46 2.17 250.50 123.07
Overhead Expenses Custom hire Hired labor Machinery leases Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	0.61	0.09	0.41	0.96
	6.62	7.66	10.23	7.30
	3.93	6.15	0.72	4.95
	0.61	0.29	0.88	0.22
	4.06	4.53	4.85	3.70
	3.20	3.08	2.93	3.65
	1.03	1.71	2.14	0.81
	2.66	2.31	2.31	2.53
	26.81	36.53	20.47	27.41
	3.07	3.70	3.28	3.04
	52.61	66.06	48.22	54.57
	313.05	368.46	310.72	305.07
	8.20	-101.48	3.74	68.50
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	14.11	17.12	14.57	13.83
	22.32	-84.36	18.31	82.34
	25.29	22.80	21.07	26.96
	-2.97	-107.15	-2.76	55.37
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	14.68	26.82	13.59	11.50
	17.64	32.67	16.09	14.00
	13.70	21.90	13.74	11.35
	15.12	23.92	14.83	12.59
Net value per unit	14.95	14.42	14.69	15.13
Machinery cost per acre	71.44	88.31	67.43	73.32
Est. labor hours per acre	1.19	1.07	1.35	1.26

## Corn on Owned Land

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	69	13	14	14
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	221.45 150.23 100.00 3.35 0.13 504.00 3.43 8.78 46.25 562.47	124.68 109.39 100.00 3.11 340.16 - 0.61 42.05 382.82	259.94 136.31 100.00 3.22 0.55 440.13 - 19.67 43.64 503.44	237.57 180.95 100.00 3.59 649.55 3.82 10.31 58.52 722.20
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drying expense Fuel & oil Repairs Custom hire Hired labor Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	85.29 108.82 23.97 18.40 16.18 21.85 40.92 6.16 0.92 0.43 17.10 0.57 340.62 221.85	90.91 97.71 28.35 16.82 14.04 21.59 35.77 7.23 0.11 14.41 2.46 329.39 53.42	80.28 102.51 26.16 19.26 13.55 19.56 39.70 6.65 0.41 0.12 24.22 0.20 332.62 170.82	86.01 124.81 19.62 23.66 24.07 24.40 38.29 5.20 0.90 0.72 15.19
Overhead Expenses Custom hire Hired labor Machinery leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	0.33	2.05	0.00	0.38
	22.53	9.74	22.30	27.15
	6.22	2.42	0.46	15.69
	16.70	14.27	16.96	18.85
	6.65	6.48	6.54	5.68
	6.39	6.44	6.47	7.06
	3.01	2.10	2.05	4.12
	42.50	51.81	20.30	42.49
	47.99	37.06	57.86	46.55
	4.42	4.74	3.21	7.78
	156.75	137.11	136.16	175.74
	497.37	466.50	468.78	538.60
	65.10	-83.68	34.66	183.60
Government payments	4.52	7.27	5.50	1.49
Net return with govt pmts	69.63	-76.41	40.16	185.08
Labor & management charge	45.58	35.93	52.38	42.94
Net return over lbr & mgt	24.05	-112.34	-12.22	142.15
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	2.27	3.01	2.44	2.01
	3.31	4.26	3.44	2.98
	2.89	3.81	2.93	2.57
	3.19	4.14	3.31	2.80
Net value per unit	3.38	3.11	3.22	3.61
Machinery cost per acre	123.79	108.07	120.28	130.86
Est. labor hours per acre	1.88	1.71	2.05	1.50

## Corn on Cash Rent

	Avg. Of _All Farms	Low 20%	40 - 60%	High 20%
Number of farms	109	21	22	22
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	558.81 148.62 100.00 3.33 0.03 495.04 2.75 7.66 47.11 552.56	437.01 116.57 100.00 3.24 377.76 18.59 48.77 445.12	590.53 149.07 100.00 3.10 0.15 462.28 -0.49 7.73 43.76 513.27	706.56 168.02 100.00 3.47 583.21 10.92 2.77 51.18 648.08
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drying expense Fuel & oil Repairs Custom hire Hired labor Land rent Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	81.59 106.61 23.27 16.54 13.32 21.52 40.62 4.28 0.88 101.17 1.28 13.27 0.55 424.89 127.68	85.07 100.84 23.67 17.90 11.63 22.62 50.15 6.75 113.72 3.56 14.28 0.95 451.13 -6.00	72.77 109.58 23.01 16.49 15.63 18.64 33.92 2.80 0.16 99.98 0.83 14.51 -0.29 408.04 105.24	81.45 108.89 21.98 14.82 11.55 22.49 33.44 4.75 0.49 94.85 1.63 10.31 0.93 407.59 240.49
Overhead Expenses Custom hire Hired labor Machinery leases Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	0.88	0.64	0.00	0.08
	20.61	29.86	13.41	20.09
	9.52	8.91	13.44	4.09
	0.95	0.50	3.25	0.10
	5.85	7.75	5.00	5.58
	5.53	7.53	4.84	4.98
	3.10	3.35	1.27	4.02
	3.38	5.37	2.51	3.24
	42.62	49.85	41.12	41.62
	6.16	3.32	9.88	4.26
	98.59	117.08	94.73	88.06
	523.47	568.20	502.77	495.64
	29.09	-123.08	10.50	152.43
Government payments	4.14	6.40	2.47	4.99
Net return with govt pmts	33.23	-116.68	12.97	157.42
Labor & management charge	37.98	43.43	34.61	35.74
Net return over lbr & mgt	-4.75	-160.11	-21.64	121.68
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	2.86	3.87	2.74	2.43
	3.52	4.87	3.37	2.95
	3.11	4.24	3.01	2.53
	3.36	4.61	3.25	2.75
Net value per unit	3.35	3.24	3.10	3.54
Machinery cost per acre	120.18	143.98	106.12	108.09
Est. labor hours per acre	1.70	2.06	1.50	1.41

#### Corn on Share Rent

	Avg. Of _All Farms
Number of farms	12
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	173.82 162.52 65.33 3.35 355.37 0.76 4.68 43.84 404.65
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drying expense Fuel & oil Repairs Custom hire Hired labor Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	71.94 99.08 16.38 14.23 22.20 22.70 37.34 7.55 1.12 5.74 0.77 299.04 105.61
Overhead Expenses  Hired labor Machinery leases Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	17.91 1.85 0.86 5.53 7.24 3.02 2.36 47.80 6.53 93.10 392.15 12.50
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	3.25 15.76 38.51 -22.76
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	2.82 3.69 3.20 3.56
Net value per unit Machinery cost per acre Est. labor hours per acre	3.35 114.59 1.72

#### Corn Silage on Owned Land

	Avg. Of All Farms
Number of farms	11
Acres Yield per acre (ton) Operators share of yield % Value per ton Other product return per acre Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	77.73 14.46 100.00 30.16 16.84 452.86 5.72 25.23 483.82
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Hired labor Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	75.02 59.58 16.48 13.61 17.80 44.81 76.88 1.33 9.16 0.47 315.14 168.68
Overhead Expenses Custom hire Hired labor Machinery leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	0.88 8.11 0.86 6.05 3.37 3.15 1.46 14.89 39.21 3.06 81.04 396.18 87.63
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	5.92 93.55 29.34 64.22
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	21.80 27.40 23.69 25.71
Net value per unit Machinery cost per acre Est. labor hours per acre	30.16 178.98 2.85

#### Corn Silage on Cash Rent

	Avg. Of All Farms
Number of farms	11
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	118.29 17.26 100.00 32.89 567.63 0.54 48.72 616.89
Direct Expenses Seed and plants 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	83.98 85.90 23.53 13.64 30.40 35.80 25.13 87.17 14.73 0.11 400.42 216.48
Overhead Expenses  Hired labor  Machinery leases  Building leases  Farm insurance  Utilities  Dues & professional fees Interest  Mach & bldg depreciation  Miscellaneous  Total overhead expenses per acre  Total dir & ovhd expenses per acre  Net return per acre	30.37 1.64 0.17 5.55 4.62 5.02 4.49 39.45 2.20 93.51 493.93 122.96
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	4.46 127.43 33.85 93.58
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	23.20 28.62 25.51 27.47
Net value per unit Machinery cost per acre Est. labor hours per acre	32.89 134.60 2.26

#### CRP on Owned Land

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	29	5	6	6
Acres	105.00	116.20	136.58	110.58
Gross return per acre	51.36	27.90	48.25	72.36
Direct Expenses				
Crop chemicals	0.35	-	0.19	1.19
Repairs	1.27	0.52	1.75	0.96
Miscellaneous	0.64	0.65	0.51	0.50
Total direct expenses per acre	2.26	1.17	2.45	2.65
Return over direct exp per acre	49.11	26.73	45.80	69.70
Overhead Expenses				
Hired labor	0.52	0.47	0.05	0.28
Machinery leases	0.29	0.07	0.83	0.00
RE & pers. property taxes	8.79	10.55	6.19	12.22
Farm insurance	0.77	0.28	1.37	0.20
Utilities	0.48	0.23	1.18	0.09
Interest	14.85	31.29	6.46	5.24
Mach & bldg depreciation	4.20	1.02	10.30	2.57
Miscellaneous	0.65	0.18	0.32	0.19
Total overhead expenses per acre	30.56	44.09	26.68	20.79
Total dir & ovhd expenses per acre	32.82	45.26	29.13	23.44
Net return per acre	18.55	-17.36	19.12	48.91

#### Flax on Cash Rent

	Avg. Of _All Farms
Number of farms	10
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	239.49 19.37 100.00 9.94 192.55 63.87 21.72 278.14
Direct Expenses Seed and plants 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	15.60 35.93 27.83 13.76 10.88 19.74 2.04 47.93 0.16 5.91 0.15 179.93 98.22
Overhead Expenses  Hired labor Machinery leases Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	7.10 2.58 0.36 2.76 3.00 1.43 3.52 24.06 5.07 49.89 229.81 48.33
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	12.98 61.31 24.48 36.83
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	9.29 11.86 6.77 8.04
Net value per unit Machinery cost per acre Est. labor hours per acre	9.94 61.59 1.14

#### Hay, Alfalfa on Owned Land

	Avg. Of <u>All Farms</u>
Number of farms	12
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	103.28 1.69 100.00 81.60 137.87 0.37 8.86 147.10
Direct Expenses Fertilizer Crop insurance Fuel & oil Repairs Custom hire Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	3.46 0.97 7.83 14.71 5.59 5.39 0.26 38.20 108.90
Overhead Expenses Custom hire Hired labor Machinery leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	0.69 2.84 0.85 7.75 3.74 2.86 0.96 14.35 13.06 0.69 47.77 85.97 61.13
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	2.05 63.18 13.06 50.12
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	22.61 50.88 44.20 51.93
Net value per unit Machinery cost per acre Est. labor hours per acre	81.60 44.55 1.05

#### Hay, Alfalfa on Cash Rent

	Avg. Of All Farms
Number of farms	14
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	105.82 2.47 100.00 84.26 208.29 12.65 220.95
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Hired labor Land rent Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	0.59 3.03 0.62 1.41 10.02 22.13 3.37 0.15 43.57 0.34 2.92 1.95 90.11 130.84
Overhead Expenses  Hired labor Machinery leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	6.06 0.35 4.23 4.43 2.44 1.72 28.30 3.70 51.23 141.34 79.61
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	4.73 84.34 17.47 66.87
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	36.45 57.18 50.15 57.21
Net value per unit Machinery cost per acre Est. labor hours per acre	84.26 61.09 0.99

Hay, Grass on Owned Land

	Avg. Of All Farms
Number of farms	14
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	113.46 1.13 100.00 48.99 55.20 1.19 56.39
Direct Expenses Seed and plants Fertilizer Fuel & oil Repairs Custom hire Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	0.56 1.40 6.70 12.28 0.26 2.58 0.53 24.32 32.07
Overhead Expenses Custom hire Hired labor Machinery leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	0.22 4.06 0.18 2.54 1.08 1.32 0.53 7.70 10.62 2.61 30.86 55.17 1.21
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	1.30 2.51 11.72 -9.20
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	21.58 48.97 46.76 57.16
Net value per unit Machinery cost per acre Est. labor hours per acre	48.99 30.25 1.22

#### Hay, Grass on Cash Rent

	Avg. Of All Farms
Number of farms	20
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	314.43 1.04 100.00 63.24 65.56 1.97 67.53
Direct Expenses Seed and plants Fertilizer Fuel & oil Repairs Custom hire Land rent Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	0.80 1.84 7.42 11.38 0.23 17.57 3.58 0.65 43.47 24.06
Overhead Expenses  Hired labor Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre  Government payments Net return with govt pmts	5.24 1.22 1.08 0.74 0.95 12.20 2.51 23.93 67.40 0.14
Labor & management charge Net return over lbr & mgt	10.06 -9.14
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	41.93 65.01 62.36 72.06
Net value per unit Machinery cost per acre Est. labor hours per acre	63.24 31.58 0.98

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

	Avg. Of All Farms
Number of farms	18
Acres Yield per acre (ton) Operators share of yield % Value per ton Other product return per acre Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	160.54 1.38 100.00 66.82 1.65 94.07 0.07 0.89 95.03
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	0.93 2.08 0.10 0.92 6.93 12.14 0.24 1.76 2.17 27.27 67.75
Overhead Expenses Custom hire Hired labor Machinery leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	0.14 3.17 0.26 5.81 3.12 1.92 1.31 16.84 14.41 1.87 48.85 76.12 18.90
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	2.60 21.51 12.96 8.55
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	19.72 55.04 51.27 60.64
Net value per unit Machinery cost per acre Est. labor hours per acre	66.82 34.20 1.01

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

	Avg. Of All Farms
Number of farms	22
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	231.56 1.43 100.00 59.37 84.66 0.38 85.04
Direct Expenses Seed and plants Fertilizer Crop insurance Fuel & oil Repairs Land rent Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	0.73 0.53 0.29 6.06 9.41 20.01 0.23 2.99 0.20 40.44 44.60
Overhead Expenses Hired labor Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	3.91 2.33 2.34 0.83 3.22 11.55 1.92 26.11 66.55 18.49
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	0.61 19.09 10.69 8.40
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	28.36 46.67 45.98 53.48 59.37 29.57 0.69
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#### Hay, Small Grain on Owned Land

	Avg. Of All Farms
Number of farms	23
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	90.59 2.07 100.00 59.31 122.80 0.80 19.88 143.48
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	15.29 23.25 6.50 0.56 10.16 16.46 3.16 3.65 0.52 79.55 63.93
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	0.75 6.36 0.74 0.34 5.34 4.17 2.75 1.29 15.30 17.73 2.82 57.58 137.14 6.35
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	6.97 13.32 16.88 -3.56
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	38.42 66.23 52.88 61.03
Net value per unit Machinery cost per acre Est. labor hours per acre	59.31 50.81 1.38

#### Hay, Small Grain on Cash Rent

	Avg. Of <u>All Farms</u>
Number of farms	17
Acres Yield per acre (ton) Operators share of yield % Value per ton Other product return per acre Total product return per acre Other crop income per acre Gross return per acre	87.61 2.48 100.00 58.18 2.29 146.31 12.39 158.71
Direct Expenses Seed and plants 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	21.50 31.69 8.71 0.82 8.66 16.45 4.29 36.32 4.60 0.43 133.46 25.24
Overhead Expenses Custom hire Hired labor Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	0.70 3.40 2.78 3.20 0.66 4.06 14.66 3.80 33.26 166.72 -8.01
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	4.55 -3.46 14.73 -18.19
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	53.91 67.34 59.57 65.52
Net value per unit Machinery cost per acre Est. labor hours per acre	58.18 48.16 1.13

#### Oats on Owned Land

	Avg. Of All Farms
Number of farms	6
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Other product return per acre Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	75.24 70.77 100.00 2.38 8.14 176.72 4.29 36.80 217.80
Direct Expenses  Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	14.84 48.39 12.92 10.99 20.81 22.31 1.10 10.18 0.29 141.84 75.96
Overhead Expenses Custom hire Hired labor Machinery leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	0.83 11.68 1.80 6.92 6.17 2.89 1.39 29.48 18.24 6.48 85.87 227.71
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	14.02 4.11 21.42 -17.31
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	2.00 3.22 2.32 2.63
Net value per unit Machinery cost per acre Est. labor hours per acre	2.38 73.26 1.25

#### Oats on Cash Rent

	Avg. Of All Farms
Number of farms	6
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Other product return per acre Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	157.56 68.44 100.00 2.46 35.54 203.66 1.24 26.70 231.59
Direct Expenses Seed and plants 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	12.24 42.11 17.53 10.76 15.01 19.17 5.47 48.59 11.81 1.66 184.35 47.25
Overhead Expenses  Hired labor  Machinery leases  Building leases  Farm insurance  Utilities  Dues & professional fees Interest  Mach & bldg depreciation  Miscellaneous  Total overhead expenses per acre  Total dir & ovhd expenses per acre  Net return per acre	4.19 2.06 0.90 3.37 2.15 1.07 8.68 19.55 5.94 47.92 232.26 -0.67
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	5.43 4.76 22.76 -18.00
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	2.69 3.39 2.39 2.72
Net value per unit Machinery cost per acre Est. labor hours per acre	2.46 67.70 0.88

#### Pasture on Owned Land

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	46	9	9	10
Acres	723.27	464.21	1,309.46	592.88
Yield per acre (aum)	0.83	0.87	0.61	1.17
Operators share of yield %	100.00	100.00	100.00	100.00
Value per aum	20.05	21.80	16.59	23.55
Total product return per acre	16.68	18.88	10.05	27.51
Crop insurance per acre	0.03	0.00	0.09	-
Other crop income per acre	0.02	0.19	-	-
Gross return per acre	16.74	19.08	10.15	27.51
Direct Expenses				
Repairs	0.63	0.90	0.46	0.71
Custom hire	0.13	0.52	-	-
Miscellaneous	1.17	0.81	0.97	0.69
Total direct expenses per acre	1.94	2.23	1.44	1.40
Return over direct exp per acre	14.80	16.85	8.71	26.11
Overhead Expenses				
RE & pers. property taxes	2.30	4.24	1.17	3.03
Interest	7.01	27.40	2.71	3.68
Mach & bldg depreciation	0.75	0.45	0.67	0.86
Miscellaneous	0.64	0.38	0.60	0.89
Total overhead expenses per acre	10.70	32.47	5.16	8.48
Total dir & ovhd expenses per acre	12.64	34.70	6.60	9.88
Net return per acre	4.10	-15.62	3.55	17.63

#### Pasture on Cash Rent

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	57	11	12	12
Acres	1,084.07	1,323.21	1,122.94	1,133.51
Yield per acre (aum)	0.95	0.71	0.86	1.36
Operators share of yield %	100.00	100.00	100.00	100.00
Value per aum	21.10	19.95	21.57	22.31
Total product return per acre	20.09	14.13	18.51	30.38
Crop insurance per acre	0.02	-	-	0.00
Other crop income per acre	0.05	-	0.23	-
Gross return per acre	20.15	14.13	18.74	30.38
Direct Expenses				
Crop insurance	0.28	0.61	0.58	0.03
Repairs	0.81	0.63	0.54	0.59
Custom hire	0.17	0.16	0.60	-
Land rent	16.36	20.42	16.14	13.10
Miscellaneous	0.92	1.09	1.00	0.50
Total direct expenses per acre	18.53	22.92	18.86	14.21
Return over direct exp per acre	1.62	-8.78	-0.13	16.17
Overhead Expenses				
Mach & bldg depreciation	0.67	0.56	0.82	0.67
Miscellaneous	0.82	1.08	0.65	0.85
Total overhead expenses per acre	1.49	1.64	1.47	1.52
Total dir & ovhd expenses per acre	20.02	24.55	20.33	15.73
Net return per acre	0.13	-10.42	-1.59	14.65

#### Peas, Field on Cash Rent

	Avg. Of All Farms
Number of farms	14
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	296.00 46.21 100.00 5.67 261.97 3.97 22.42 288.36
Direct Expenses Seed and plants 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	34.35 6.77 36.83 12.62 9.79 19.42 3.87 50.71 1.25 5.15 4.58 185.33 103.02
Overhead Expenses Custom hire Hired labor Machinery leases Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	0.65 7.33 2.46 1.20 3.44 1.87 0.82 3.50 23.76 3.45 48.46 233.80 54.56
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	10.84 65.40 19.81 45.59
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	4.01 5.06 4.25 4.68
Net value per unit Machinery cost per acre Est. labor hours per acre	5.67 61.03 0.85

#### Soybeans on Owned Land

	Avg. Of _All Farms	Low 20%	<u>40 - 60%</u>	High 20%
Number of farms	106	21	21	22
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	287.05 34.78 100.00 8.10 281.80 0.07 21.32 40.86 344.05	285.00 27.82 100.00 7.91 220.03 0.02 22.01 36.55 278.61	223.98 35.26 100.00 8.12 286.24 5.65 40.17 332.05	195.53 42.82 100.00 8.32 356.29 37.81 52.23 446.33
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Hired labor Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	59.66 8.73 28.36 14.24 13.47 24.24 3.80 0.93 0.91 8.10 1.55 164.01 180.05	64.60 11.17 27.29 14.46 14.72 29.56 2.96 0.63 - 6.86 2.67 174.92 103.69	61.34 8.27 28.18 12.88 13.26 23.20 3.62 0.32 6.74 0.97 158.78 173.27	60.59 5.37 30.50 18.24 13.62 24.95 4.85 1.28 4.32 0.60 164.32 282.01
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	0.40 8.39 2.72 0.31 10.85 5.65 4.36 1.56 32.17 34.41 4.88 105.72 269.73 74.33	0.58 5.33 3.39 0.08 8.50 6.40 3.84 1.36 48.16 36.30 5.68 119.63 294.55 -15.93	0.69 5.63 3.33 0.36 11.27 5.37 4.65 1.72 28.94 37.71 3.19 102.87 261.64 70.41	0.73 12.38 5.83 0.55 15.21 6.78 5.29 2.29 12.60 24.77 3.77 90.19 254.51 191.82
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	7.89 82.22 27.29 54.93	8.13 -7.80 27.67 -35.47	11.73 82.14 25.84 56.30	3.09 194.91 28.53 166.38
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	4.72 7.76 5.74 6.52	6.29 10.59 8.19 9.18	4.50 7.42 5.79 6.52	3.84 5.94 3.77 4.44
Net value per unit Machinery cost per acre Est. labor hours per acre	8.11 80.06 1.19	7.91 88.76 1.22	8.12 81.52 1.10	8.32 76.20 1.37

#### Soybeans on Cash Rent

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	169	33	34	34
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	685.64	486.47	815.37	589.00
	35.04	28.32	32.63	42.14
	100.00	100.00	100.00	100.00
	8.15	8.03	8.09	8.43
	0.05	0.36	-	-
	285.53	227.85	263.88	355.06
	0.27	0.86	-	0.35
	17.45	28.85	26.53	9.61
	40.89	42.60	40.95	42.56
	344.13	300.15	331.35	407.57
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drying expense Fuel & oil Repairs Custom hire Hired labor Land rent Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	61.21 7.81 29.24 13.41 0.21 12.36 22.76 3.64 0.70 78.55 0.83 7.21 1.61 239.52 104.61	65.38 10.38 32.58 17.00 0.23 13.67 31.66 6.62 86.29 0.53 8.15 1.90 274.39 25.76	59.72 6.94 28.49 12.29 0.10 11.51 19.31 5.17 2.46 81.85 1.28 7.56 1.49 238.17 93.18	56.81 7.68 29.25 13.08 0.55 12.97 21.19 2.04 0.12 78.94 0.54 4.97 0.52 228.66 178.91
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	0.76	1.84	0.18	0.43
	9.95	9.28	9.80	10.14
	3.87	2.17	8.00	1.97
	5.31	6.50	4.45	4.42
	4.15	5.71	3.88	3.92
	2.59	2.38	1.49	3.00
	3.02	4.78	3.26	2.43
	30.24	33.20	26.14	28.65
	4.84	5.35	3.38	4.46
	64.73	71.21	60.58	59.41
	304.25	345.60	298.75	288.07
	39.89	-45.45	32.60	119.50
Government payments	7.57	7.63	7.22	6.15
Net return with govt pmts	47.46	-37.83	39.83	125.66
Labor & management charge	24.04	28.67	22.91	24.49
Net return over lbr & mgt	23.42	-66.50	16.91	101.17
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	6.84	9.69	7.30	5.43
	8.68	12.20	9.16	6.84
	6.79	9.37	6.87	5.44
	7.48	10.38	7.57	6.03
Net value per unit	8.16	8.06	8.09	8.43
Machinery cost per acre	74.86	92.11	72.49	67.55
Est. labor hours per acre	1.12	1.34	1.12	0.95

#### 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	235.81 36.62 69.60 7.97 203.22 0.52 9.51 32.17 245.42
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	57.07 6.47 27.99 11.55 13.03 22.49 3.45 3.07 1.11 146.23 99.19
Overhead Expenses Custom hire Hired labor Machinery leases Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	0.31 6.35 0.81 0.64 4.85 4.56 0.99 2.53 38.70 4.79 64.53 210.76 34.66
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	10.19 44.85 23.90 20.95
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	5.74 8.27 6.21 7.15
Net value per unit Machinery cost per acre Est. labor hours per acre	7.99 78.78 1.02

#### Sugar Beets on Owned Land

	Avg. Of All Farms
Number of farms	14
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	90.90 20.86 100.00 25.76 537.31 130.99 20.88 689.18
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Hired labor Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	203.07 93.50 147.41 30.24 52.42 108.75 6.82 14.40 18.56 43.28 718.44 -29.26
Overhead Expenses  Hired labor  Machinery leases  RE & pers. property taxes  Farm insurance  Utilities  Dues & professional fees Interest  Mach & bldg depreciation  Miscellaneous  Total overhead expenses per acre  Total dir & ovhd expenses per acre  Net return per acre	38.35 8.17 22.87 9.67 10.00 2.37 80.90 75.44 10.55 258.31 976.75 -287.57
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	-287.57 94.96 -382.53
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	34.44 46.83 39.55 44.10
Net value per unit Machinery cost per acre Est. labor hours per acre	25.76 255.37 4.10

#### Sugar Beets on Cash Rent

	Avg. Of All Farms
Number of farms	19
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	235.81 17.48 100.00 24.85 434.36 225.97 24.00 684.33
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Hired labor Land rent Stock/quota lease Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	200.28 84.47 141.07 32.16 56.32 103.17 10.14 4.71 116.72 6.11 29.00 56.58 840.72 -156.39
Overhead Expenses  Hired labor Machinery leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	46.66 10.37 0.14 8.40 12.58 5.24 6.61 73.93 9.79 173.71 1,014.44 -330.11
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	-330.11 92.54 -422.64
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	48.10 58.04 43.74 49.03
Net value per unit Machinery cost per acre Est. labor hours per acre	24.85 258.42 3.94

#### Sunflowers on Owned Land

	Avg. Of All Farms
Number of farms	8
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	166.66 14.66 100.00 18.53 271.63 48.50 32.00 352.13
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drying expense Fuel & oil Repairs Custom hire Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	41.47 49.51 33.46 11.71 0.64 10.13 18.10 11.36 6.75 2.05 185.16 166.97
Overhead Expenses  Hired labor Machinery leases Building leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	2.78 0.37 0.37 7.23 3.13 2.67 0.73 21.54 36.96 4.13 79.91 265.07 87.06
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	5.74 92.80 23.34 69.46
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	12.63 18.08 12.20 13.79
Net value per unit Machinery cost per acre Est. labor hours per acre	18.53 77.80 1.10

#### Sunflowers on Cash Rent

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	25	5	5	5
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	495.60 15.85 100.00 18.27 289.46 17.86 25.57 332.89	324.48 11.81 100.00 18.71 221.00 26.16 32.79 279.95	830.19 13.95 100.00 18.50 258.14 43.05 24.87 326.06	316.25 24.01 100.00 18.35 440.67 27.73 468.41
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drying expense Fuel & oil Repairs Custom hire Hired labor Land rent Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	41.62 41.81 34.02 10.63 0.29 13.38 22.67 11.40 3.21 55.82 1.25 7.53 0.92 244.54 88.36	31.95 48.99 33.96 12.85 - 14.03 25.61 6.25 21.22 82.76 4.52 4.76 0.02 286.91 -6.96	43.04 44.04 29.81 9.49 13.84 26.21 10.16 51.29 0.02 11.29 1.44 240.62 85.44	41.68 46.06 44.14 10.77 1.39 18.03 26.33 2.12 53.52 10.61
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	2.33 5.29 1.28 3.77 3.62 1.61 3.57 25.13 4.48 51.06 295.60 37.29	0.00 2.45 0.96 2.99 4.28 0.97 3.41 30.92 3.75 49.72 336.63 -56.68	6.38 5.94 2.96 2.14 2.89 0.70 4.27 20.55 5.13 50.96 291.58 34.47	11.60 0.00 6.45 4.52 6.14 5.68 34.54 5.11 74.05 328.70 139.71
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	6.46 43.76 22.60 21.16	3.02 -53.66 24.22 -77.88	7.09 41.57 21.21 20.35	3.77 143.48 33.63 109.85
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	15.43 18.65 15.51 16.93	24.29 28.50 23.25 25.30	17.24 20.90 15.52 17.04	10.61 13.69 12.38 13.78
Net value per unit Machinery cost per acre Est. labor hours per acre	18.27 79.06 1.12	18.71 83.26 2.08	18.50 83.49 0.90	18.35 82.95 1.75

#### Wheat, Durum on Cash Rent

	Avg. Of All Farms
Number of farms	8
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	432.47 58.83 100.00 6.18 2.94 366.62 22.72 36.86 426.20
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drying expense Fuel & oil Repairs Custom hire Land rent Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	20.68 71.15 38.82 13.49 2.67 12.01 22.84 3.06 52.58 0.74 7.04 0.72 245.80 180.40
Overhead Expenses  Hired labor  Building leases Farm insurance  Utilities  Dues & professional fees Interest Mach & bldg depreciation Miscellaneous  Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	9.52 0.55 4.22 3.34 2.11 5.41 35.02 4.29 64.46 310.26 115.94
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	7.48 123.42 23.36 100.06
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	4.18 5.27 4.08 4.48
Net value per unit Machinery cost per acre Est. labor hours per acre	6.18 75.41 0.99

#### Wheat, Spring on Owned Land

	Avg. Of _All Farms	Low 20%	40 - 60%	<u> High 20%</u>
Number of farms	95	19	19	19
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	365.88 52.43 100.00 4.92 1.46 259.66 0.75 26.15 29.95 316.51	327.29 43.68 100.00 4.70 3.12 208.50 51.39 29.29 289.18	334.10 49.29 100.00 5.01 0.39 247.38 21.36 36.72 305.47	478.01 61.63 100.00 5.10 0.48 314.62 0.55 26.24 31.48 372.90
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drying expense Fuel & oil Repairs Custom hire Hired labor Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	16.42 61.49 29.58 14.08 0.37 11.39 20.62 4.16 0.59 5.88 2.17 166.76 149.75	24.10 70.22 32.93 15.63 0.92 13.56 30.29 6.56 1.21 9.87 3.21 208.49 80.69	18.17 61.75 23.84 14.93 9.33 18.00 4.56 - 6.19 1.10 157.87 147.60	13.57 58.06 29.88 13.42 0.44 11.38 15.71 0.99 0.33 5.06 1.20 150.04 222.86
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	0.59 7.18 1.22 0.38 8.25 5.19 3.73 1.29 24.29 36.43 5.04 93.58 260.34 56.17	1.17 7.08 0.90 0.13 9.57 5.54 4.38 1.45 36.33 39.48 7.27 113.30 321.79 -32.61	0.48 7.34 3.02 0.21 8.59 6.35 3.99 0.91 34.04 35.41 3.92 104.26 262.12 43.35	0.12 5.87 0.77 0.84 6.95 4.81 4.07 2.03 20.55 37.62 5.03 88.66 238.70 134.19
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	12.60 68.77 23.96 44.81	14.52 -18.09 29.72 -47.81	9.70 53.05 23.86 29.18	12.07 146.26 22.83 123.43
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	3.18 4.97 3.61 4.07	4.77 7.37 5.12 5.80	3.20 5.32 3.94 4.42	2.43 3.87 2.72 3.09
Net value per unit Machinery cost per acre Est. labor hours per acre	4.94 74.14 1.09	4.70 90.78 1.18	5.01 71.25 1.23	5.11 64.99 0.91

#### Wheat, Spring on Cash Rent

	Avg. Of _All Farms	Low 20%	40 - 60%	High 20%
Number of farms	145	29	29	29
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	719.20 53.10 100.00 4.90 0.44 260.54 0.78 30.46 31.67 323.44	462.10 42.83 100.00 4.55 0.74 195.80 1.26 47.86 39.01 283.93	797.87 55.01 100.00 4.86 - 267.21 - 20.94 25.78 313.93	1,028.28 63.25 100.00 5.12 323.91 2.16 24.66 31.41 382.13
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drying expense Fuel & oil Repairs Custom hire Hired labor Land rent Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	17.67	22.82	17.44	17.06
	63.70	79.98	64.05	62.07
	31.37	33.34	31.45	30.29
	13.93	16.22	14.25	12.95
	0.36	1.17	0.11	0.32
	11.21	11.63	11.83	11.51
	22.56	33.17	24.16	18.13
	6.11	7.94	4.42	3.71
	1.72	-	4.86	0.74
	57.79	74.30	56.41	54.74
	0.97	0.06	1.86	1.03
	6.59	10.21	7.45	5.46
	1.89	1.97	0.72	2.67
	235.86	292.79	239.01	220.69
	87.58	-8.86	74.91	161.45
Overhead Expenses Custom hire Hired labor Machinery leases Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	0.69	2.98	0.05	0.11
	6.98	10.80	8.37	7.66
	2.90	4.36	4.76	1.60
	0.49	0.21	0.20	0.99
	4.21	5.95	4.02	4.22
	3.54	4.83	3.58	3.40
	1.44	2.44	0.68	1.71
	3.32	2.54	3.17	3.41
	27.83	35.96	25.79	29.01
	3.62	3.18	3.84	4.40
	55.03	73.23	54.45	56.50
	290.89	366.02	293.47	277.18
	32.55	-82.10	20.46	104.95
Government payments	9.53	7.64	9.34	10.59
Net return with govt pmts	42.08	-74.45	29.80	115.54
Labor & management charge	22.49	23.59	22.06	22.18
Net return over lbr & mgt	19.59	-98.05	7.74	93.36
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	4.44	6.84	4.34	3.49
	5.48	8.55	5.33	4.38
	4.11	6.29	4.32	3.29
	4.53	6.84	4.72	3.64
Net value per unit	4.91	4.58	4.86	5.16
Machinery cost per acre	73.08	95.13	73.97	65.03
Est. labor hours per acre	1.05	1.13	1.16	1.00

Wheat, Spring on Share Rent

	Avg. Of	Law 200/	40 60%	High 200/
Number offeres	All Farms	Low 20%	40 - 60%	<u>High 20%</u>
Number of farms	25	5	5	5
Acres	326.33	184.93	178.20 56.02	747.28
Yield per acre (bu.) Operators share of yield %	61.45 64.53	39.95 60.69	72.32	74.09 61.36
Value per bu.	4.81	4.51	4.87	4.83
Total product return per acre	190.89	109.25	197.32	219.50
Hedging gains/losses per acre	1.04	4.24	-	1.22
Crop insurance per acre	26.10	8.93	16.45	33.93
Other crop income per acre Gross return per acre	21.60 239.62	18.07 140.50	32.13 245.91	14.11 268.76
Direct Expenses				
Seed and plants	12.91	5.87	19.69	11.89
Fertilizer ·	52.96	62.04	60.88	50.42
Crop chemicals	32.06	34.11	30.54	31.65
Crop insurance	11.46	6.76	11.58	10.27
Drying expense Fuel & oil	0.14 10.28	1.28 10.53	- 12.05	9.69
Repairs	19.42	26.59	33.97	16.63
Custom hire	4.31	14.31	2.06	2.88
Marketing	0.07	-	0.61	-
Operating interest	3.16	6.96	2.15	1.25
Miscellaneous	0.66 147.43	5.05 173.50	0.19 173.72	0.09 134.77
Total direct expenses per acre Return over direct exp per acre	92.19	-33.00	72.19	133.99
Overhead Expenses				
Custom hire	0.58	1.84	-	0.12
Hired labor	7.57	11.06	5.08	10.04
Machinery leases	1.67	0.10	0.97	0.74
Building leases Farm insurance	0.49 3.97	0.45 3.42	7.13	0.63 2.78
Utilities	3.02	3.60	4.31	1.85
Dues & professional fees	0.52	1.39	0.73	0.26
Interest	1.79	1.67	2.98	0.33
Mach & bldg depreciation	30.22	28.86	28.98	25.23
Miscellaneous	3.43	5.49	6.65	2.09
Total overhead expenses per acre Total dir & ovhd expenses per acre	53.27 200.70	57.88 231.37	56.83 230.55	44.08 178.85
Net return per acre	38.92	-90.88	15.36	89.91
Government payments	8.04	8.19	14.36	5.25
Net return with govt pmts	46.96	-82.69	29.72	95.16
Labor & management charge	18.36	18.15	30.34	13.45
Net return over lbr & mgt	28.60	-100.84	-0.62	81.71
Cost of Production	0.70	7.40	4.00	0.00
Total direct expense per bu. Total dir & ovhd exp per bu.	3.72 5.06	7.16 9.54	4.29 5.69	2.96 3.93
Less govt & other income	3.63	7.92	4.14	2.74
With labor & management	4.09	8.67	4.89	3.03
Net value per unit	4.84	4.68	4.87	4.86
Machinery cost per acre	66.00	82.22	79.40	54.00
Est. labor hours per acre	0.87	0.99	1.07	0.75

#### **EXPLANATORY NOTES FOR LIVESTOCK TABLES**

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

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

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

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

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

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

#### Beef Cow-Calf -- Average Per Cwt. Produced

_	Avg. ( All Fari		Low 2	20%	40 - 6	0%	High 2	20%
Number of farms		26		5		5	_	6
Beef Calves sold (lb) Transferred out (lb) Cull sales Government payments Other income Purchased Transferred in Inventory change Gross margin	Quantity 34.54 65.46	Value 52.22 96.07 16.70 4.03 0.47 -13.75 -28.91 0.38 127.21	Quantity 86.94 13.06	Value 129.68 20.10 19.72 0.67 0.68 -6.16 -7.67 -56.58 100.44	Quantity 43.52 56.48	Value 64.94 81.25 9.75 - 1.20 -14.10 -27.06 15.80 131.77	Quantity 11.78 88.22	Value 17.82 127.23 13.75 5.10 0.19 -9.06 -39.46 16.99 132.56
Direct Expenses Protein Vit Minerals (lb.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) Stover (lb.) DDGS, dry (lb.) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Custom hire Operating interest Total direct expenses Return over direct expense	61.82 538.44 85.56 915.86 1.20 48.72 20.71 165.62	4.72 8.29 3.35 23.57 21.45 0.71 1.03 6.95 5.49 4.38 4.69 9.57 1.00 1.95 97.15 30.06	28.75 1,010.00 109.70 1,678.80 1.44 337.68 137.22 166.64	6.38 15.57 3.45 44.09 24.48 5.07 6.77 6.49 9.06 4.70 5.92 15.12 0.81 4.71 152.62 -52.18	248.97 160.90 109.93 864.93 1.41 0.28 116.76	4.49 2.76 4.77 27.43 35.17 0.02 4.26 3.84 2.99 3.84 6.72 2.96 1.28 100.55 31.22	1.29 576.76 100.60 758.26 1.09 9.72 165.05	1.09 7.16 4.02 13.77 17.95 0.51 7.52 5.51 3.35 3.22 6.12 1.00 71.23 61.33
Overhead Expenses Hired labor Farm insurance Utilities Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		2.90 2.14 2.22 8.02 5.43 20.71 117.86 9.35		6.35 3.23 2.54 6.93 7.68 26.73 179.35 -78.92		0.94 1.84 2.56 6.93 6.14 18.40 118.95		3.09 1.13 1.31 7.62 3.25 16.40 87.64 44.93
Labor & management charge Net return over lbr & mgt		12.71 -3.36		10.85 -89.77		13.58 -0.76		7.46 37.47
Cost of Production Per Cwt. Product Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management	ed	97.15 117.86 139.45 152.16		152.62 179.35 229.67 240.52		100.55 118.95 134.55 148.13		71.23 87.64 100.32 107.78
Est. labor hours per unit		0.98		1.42		0.89		0.77
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.		205.5 96.4 1.6 11.7 94.8 90.7 0.94 4.7 1.6 549 498 372.18 558 151.18		150.7 96.9 2.3 13.4 94.6 89.5 0.91 6.9 2.9 542 485 553.76 550 149.17		201.8 99.7 0.6 7.5 99.1 95.9 1.01 3.4 1.0 538 517 436.40 573 149.22		223.2 91.1 1.6 11.2 89.7 87.0 0.94 2.6 0.8 586 510 304.96 532 151.26

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

_	Avg. ( All Fari		Low 2	0%	40 - 60	0%	High 2	20%
Number of farms		26		5		5		6
Beef Calves sold (lb) Transferred out (lb) Cull sales Government payments Other income Purchased Transferred in Inventory change Gross margin	Quantity 183.5 347.7	Value 277.42 510.32 88.71 21.39 2.51 -73.02 -153.59 2.02 675.75	Quantity 428.7 64.4	Value 639.49 99.11 97.22 3.32 3.33 -30.38 -37.81 -279.01 495.26	Quantity 240.7 312.4	Value 359.14 449.32 53.90 6.64 -77.98 -149.66 87.39 728.74	Quantity 69.1 517.1	Value 104.47 745.82 80.58 29.87 1.12 -53.09 -231.28 99.58 777.07
Direct Expenses Protein Vit Minerals (lb.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) Stover (lb.) DDGS, dry (lb.) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Custom hire Operating interest Total direct expenses Return over direct expense	328.4 2,860.3 454.5 4,865.2 6.4 258.8 110.0 879.8	25.08 44.02 17.77 125.21 113.95 3.76 5.48 36.91 29.17 23.26 24.93 50.86 5.33 10.35 516.08 159.67	141.8 4,980.4 540.9 8,278.4 7.1 1,665.1 676.7 821.7	31.47 76.80 17.00 217.43 120.69 24.98 33.40 32.00 44.66 23.19 29.20 74.54 4.02 23.23 752.59 -257.33	1,376.9 889.9 608.0 4,783.4 7.8 1.5 645.7	24.85 15.26 26.38 151.72 194.52 0.12 23.56 21.24 16.51 21.25 37.17 16.39 7.09 556.06 172.68	7.6 3,381.0 589.7 4,444.9 6.4 57.0 967.5	6.39 41.95 23.57 80.73 105.23 2.99 44.09 32.28 19.64 18.90 35.90 5.86 417.55 359.52
Overhead Expenses Hired labor Farm insurance Utilities Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		15.41 11.38 11.79 42.59 28.83 109.99 626.07 49.68		31.30 15.93 12.55 34.16 37.89 131.82 884.41 -389.15		5.21 10.16 14.13 38.33 33.95 101.78 657.84 70.90		18.09 6.65 7.71 44.65 19.07 96.17 513.72 263.36
Labor & management charge Net return over lbr & mgt		67.52 -17.84		53.53 -442.67		75.11 -4.21		43.73 219.63
Cost of Production Per Cwt. Product Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management	ced	97.15 117.86 139.45 152.16		152.62 179.35 229.67 240.52		100.55 118.95 134.55 148.13		71.23 87.64 100.32 107.78
Est. labor hours per unit		5.18		7.00		4.90		4.50
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.		205.5 96.4 1.6 11.7 94.8 90.7 0.94 4.7 1.6 549 498 372.18 558 151.18		150.7 96.9 2.3 13.4 94.6 89.5 0.91 6.9 2.9 542 485 553.76 550 149.17		201.8 99.7 0.6 7.5 99.1 95.9 1.01 3.4 1.0 538 517 436.40 573 149.22		223.2 91.1 1.6 11.2 89.7 87.0 0.94 2.6 0.8 586 510 304.96 532 151.26

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

_	Avg. O All Farn		Low 2	0%	40 - 60	0%	High 2	0%
Number of farms		30		6		6		6
Beef Calves sold (lb) Transferred out (lb) Cull sales Insurance income Other income Purchased Transferred in Inventory change	Quantity 58.68 19.39	Value 84.02 29.89 18.81 0.27 1.91 -32.19 -13.54 34.97	Quantity 39.93 2.85	Value 58.35 4.82 24.35 - -57.61 -0.92 69.27	Quantity 47.63 27.45	Value 68.77 44.12 16.06 - 1.75 -41.93 -12.00 63.74	Quantity 85.21 14.24	Value 122.43 20.86 17.90 0.18 -20.87 -21.00 18.73 138.23
Gross margin  Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Custom hire Marketing Operating interest Total direct expenses Return over direct expense	147.61 17.70 479.82 159.31 916.78 1.39 256.89	124.14 4.50 2.64 6.97 6.48 25.76 27.76 8.97 4.30 4.64 4.77 6.94 2.52 1.77 3.22 111.23 12.91	37.87 54.29 362.35 613.95 842.95 2.24 82.99	98.26 7.11 4.07 5.44 27.66 22.43 40.17 4.09 4.14 4.48 6.28 12.30 3.16 3.51 5.38 150.22 -51.96	4.94 16.03 2.10 57.20 1,470.69 1.35 165.92	140.53 5.02 3.95 0.04 1.43 41.23 24.57 6.70 5.00 3.06 6.94 9.21 5.02 2.99 3.95 119.11 21.42	5.70 - 1.24 33.81 990.42 1.22 202.08	2.72 0.02 1.30 30.48 26.79 5.18 3.90 2.46 4.23 0.80 1.42 3.38 86.93 51.29
Overhead Expenses Hired labor Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		1.89 4.77 8.28 7.53 22.47 133.70 -9.56		1.50 10.10 10.29 11.27 33.17 183.39 -85.12		4.35 11.50 10.70 8.80 35.35 154.47 -13.94		1.45 6.15 6.77 14.36 101.30 36.93
Labor & management charge Net return over lbr & mgt		12.67 -22.23		17.62 -102.75		15.97 -29.90		15.17 21.76
Cost of Production Per Cwt. Produce Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management	d	111.23 133.70 154.69 167.36		150.22 183.39 223.63 241.25		119.11 154.47 163.48 179.44		86.93 101.30 105.38 120.55
Est. labor hours per unit		0.97		1.26		1.18		1.16
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.		132.1 97.2 1.7 14.2 95.6 91.3 0.71 5.9 2.2 532 486 495.10 677 143.18		125.8 97.5 3.3 17.5 94.3 88.1 0.33 8.3 3.6 466 410 502.98 577 146.12		126.5 94.7 1.2 9.7 93.5 88.5 0.65 5.1 2.2 554 490 424.10 625 144.39		127.8 99.2 0.4 12.0 98.8 96.3 0.98 3.1 0.4 575 554 418.60 640 143.67

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

_	Avg. C All Farn		Low 2	0%	40 - 60	0%	High 2	20%
Number of farms		30		6		6		6
Beef Calves sold (lb) Transferred out (lb) Cull sales Insurance income Other income Purchased Transferred in Inventory change	Quantity 349.8 115.6	Value 500.77 178.12 112.12 1.60 11.36 -191.83 -80.69 208.43	Quantity 181.0 12.9	Value 264.48 21.85 110.36	Quantity 243.6 140.4	Value 351.68 225.62 82.15 - 8.97 -214.42 -61.34 325.50	Quantity 536.5 89.6	Value 770.78 131.35 112.71 - 1.12 -131.39 -132.20 117.90
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Custom hire Marketing Operating interest Total direct expenses Return over direct expense	879.7 105.5 2,859.7 949.5 5,464.0 8.3 1,531.1	739.88  26.80 15.72 41.55 38.60 153.55 165.44 53.45 25.62 27.68 28.43 41.36 15.03 10.55 19.17 662.94 76.93	171.7 246.1 1,642.4 2,782.8 3,820.8 10.2 376.2	32.25 18.46 24.64 125.36 101.66 182.09 18.54 18.76 20.32 28.45 55.74 14.33 15.91 24.40 680.89 -235.50	25.3 81.9 10.8 292.5 7,520.3 6.9 848.4	718.59  25.69 20.21 0.19 7.31 210.83 125.63 34.24 25.57 15.65 35.50 47.10 25.66 15.28 20.20 609.08 109.51	35.9 7.8 212.9 6,235.5 7.7 1,272.3	870.26 17.12 0.11 8.17 191.90 168.65 32.63 24.56 15.47 26.85 26.66 5.01 8.91 21.27 547.32 322.94
Overhead Expenses Hired labor Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		11.29 28.44 49.33 44.87 133.94 796.88 -57.01		6.81 45.78 46.64 51.09 150.33 831.22 -385.83		22.23 58.82 54.71 45.02 180.78 789.86 -71.27		9.11 38.70 42.61 90.42 637.74 232.52
Labor & management charge Net return over lbr & mgt		75.51 -132.51		79.88 -465.71		81.64 -152.91		95.54 136.99
Cost of Production Per Cwt. Product Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management	ed	111.23 133.70 154.69 167.36		150.22 183.39 223.63 241.25		119.11 154.47 163.48 179.44		86.93 101.30 105.38 120.55
Est. labor hours per unit		5.79		5.71		6.01		7.31
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.		132.1 97.2 1.7 14.2 95.6 91.3 0.71 5.9 2.2 532 486 495.10 677 143.18		125.8 97.5 3.3 17.5 94.3 88.1 0.33 8.3 3.6 466 410 502.98 577 146.12		126.5 94.7 1.2 9.7 93.5 88.5 0.65 5.1 2.2 554 490 424.10 625 144.39		127.8 99.2 0.4 12.0 98.8 96.3 0.98 3.1 0.4 575 554 418.60 640 143.67

#### Beef Replacement Heifers -- Average Per Head

	Avg. All Fai	
Number of farms		12
Beef Replace sold (hd) Transferred out (hd) Cull sales (hd) Government payments Purchased (hd) Transferred in (hd) Inventory change (hd) Gross margin	Quantity 0.34 0.81 0.01 0.00 0.87 -0.30	Value 355.81 1,116.57 10.92 18.55 -2.31 -786.96 -252.28 460.30
Direct Expenses Protein Vit Minerals (lb.) Creep / Starter (lb.) Complete Ration (lb.) Barley (bu.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) Other feed stuffs (lb) Breeding fees Veterinary Supplies Fuel & oil Repairs Custom hire Total direct expenses Return over direct expense	258.85 66.59 124.53 0.20 1.38 3,234.30 300.69 2,493.11 17.02 412.04	24.16 6.66 6.66 0.60 4.34 55.28 13.16 70.80 75.36 7.02 6.39 13.31 8.04 6.50 9.78 5.21 313.28 147.01
Overhead Expenses Hired labor Utilities Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		7.15 3.40 14.54 13.50 38.60 351.88 108.42
Labor & management charge Net return over lbr & mgt		21.33 87.09
Est. labor hours per unit		1.05
Other Information No. purchased or trans in Number sold or trans out Average number of head Percentage death loss Feed cost per average head Feed cost/head sold/trans		52 68 59 0.6 264.05 230.61

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

	Avg. ( All Far	
Number of farms		12
Beef Replace sold (hd) Transferred out (hd) Cull sales (hd) Government payments Purchased (hd) Transferred in (hd) Inventory change (hd) Gross margin	Quantity 0.3 0.7 0.0  0.0 0.8 -0.3	Value 310.75 975.15 9.54 16.20 -2.02 -687.29 -220.33 402.00
Direct Expenses Protein Vit Minerals (lb.) Creep / Starter (lb.) Complete Ration (lb.) Barley (bu.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) Other feed stuffs (lb) Breeding fees Veterinary Supplies Fuel & oil Repairs Custom hire Total direct expenses Return over direct expense	226.1 58.2 108.8 0.2 1.2 2,824.7 262.6 2,177.3 14.9 359.9	21.10 5.82 5.82 0.52 3.79 48.28 11.49 61.83 65.82 6.13 5.58 11.62 7.02 5.68 8.55 4.55 273.61 128.39
Overhead Expenses Hired labor Utilities Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		6.25 2.97 12.70 11.79 33.71 307.31 94.69
Labor & management charge Net return over lbr & mgt		18.63 76.06
Est. labor hours per unit		0.92
Other Information No. purchased or trans in Number sold or trans out Average number of head Percentage death loss Feed cost per average head Feed cost/head sold/trans		52 68 59 0.6 264.05 230.61

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

	Avg. AII Fa	
Number of farms		13
Backgnd Beef sold (lb) Transferred out (lb) Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 341.90 73.11 -34.78 -242.52 -37.71	Value 509.30 91.15 0.23 -50.27 -360.94 -63.30 126.18
Direct Expenses Protein Vit Minerals (lb.) Creep / Starter (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Oats (bu.) DDGS, wet (lb.) Other feed stuffs (lb) Veterinary Supplies Repairs Operating interest Total direct expenses Return over direct expense	7.27 22.89 65.15 4.08 598.73 141.90 329.16 0.41 18.80 283.92	3.05 3.80 3.83 12.60 9.77 5.26 7.51 1.26 1.72 8.53 5.03 3.44 3.19 0.90 69.90 56.28
Overhead Expenses Utilities Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		0.93 2.99 3.10 7.02 76.92 49.26
Labor & management charge Net return over lbr & mgt		3.79 45.47
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		131.12 132.81 132.81 133.73
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.		169 193 0.2 2.15 4.82 13.21 57.34 66.67 689 148.96

#### Beef Backgrounding -- Average Per Head

	Avg. Of All Farms		
Number of farms		13	
Backgnd Beef sold (lb) Transferred out (lb) Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 397.5 85.0 -40.4 -282.0 -43.9	Value 592.18 105.99 0.27 -58.45 -419.68 -73.60 146.71	
Direct Expenses Protein Vit Minerals (lb.) Creep / Starter (lb.) Complete Ration (lb.) Barley (bu.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Oats (bu.) DDGS, dry (lb.) DDGS, wet (lb.) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Operating interest Total direct expenses Return over direct expense	8.4 26.6 75.8 0.3 4.7 696.2 165.0 382.7 0.5 116.7 21.9 213.2	3.55 4.42 4.45 0.78 14.65 11.35 6.12 8.74 1.47 5.00 4.14 5.85 2.49 1.51 3.71 1.04 81.27 65.44	
Overhead Expenses Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		3.47 4.69 8.16 89.43 57.28	
Labor & management charge Net return over lbr & mgt		4.41 52.87	
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		131.12 132.81 132.81 133.73	
Est. labor hours per unit		0.37	
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.		169 193 0.2 2.15 4.82 13.21 57.34 66.67 689 148.96	

## Figure 1. Gross Cash Income Per Farm

N.D. Farm Business Management Education Program

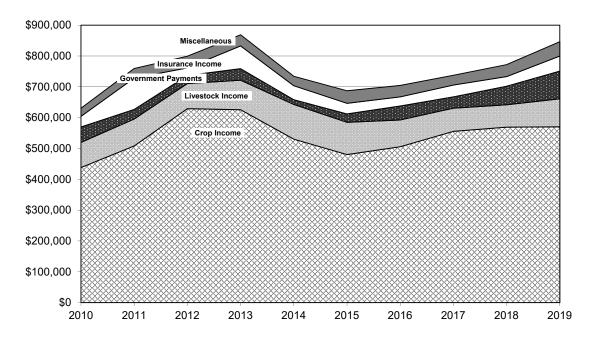


Figure 2. Net Farm Income (Accrual) Per Farm

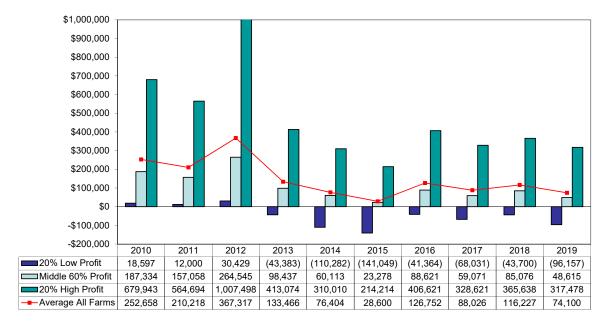


Figure 3. Financial Efficiency Measures (As Percent of Gross Revenue)

N.D. Farm Business Management Education Program

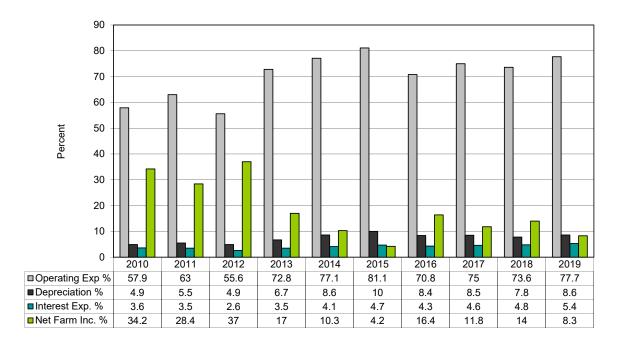


Figure 4. Profitability Measures Per Farm

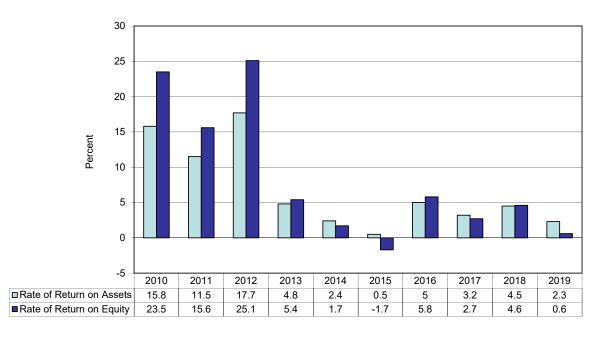


Figure 5. Assets and Liabilities Per Farm, 2019

N.D. Farm Business Management Education Program

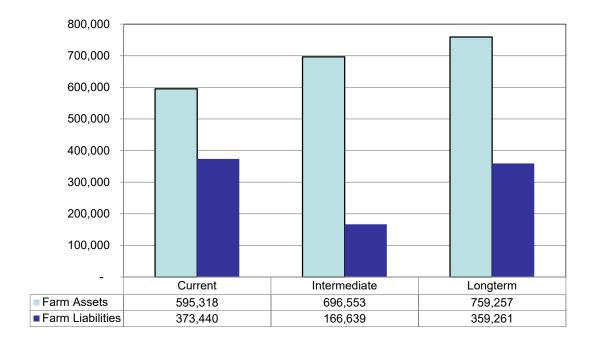
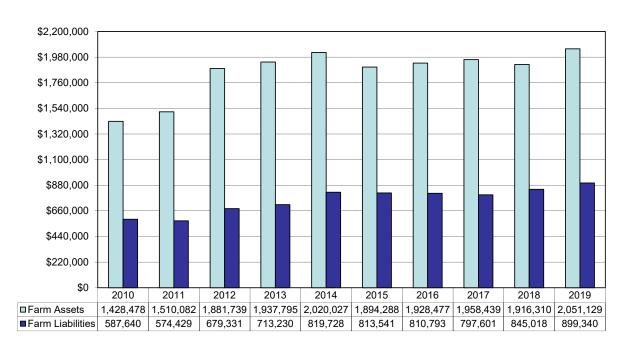


Figure 6. Total Farm Assets and Liabilities



### Figure 7. Household and Personal Expenses

N.D. Farm Business Management Education Program

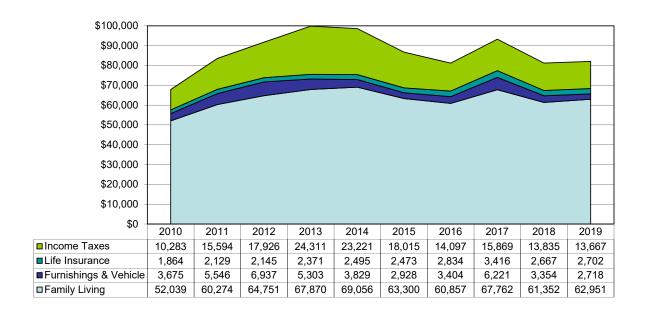


Figure 8. Crop Acreage Per Farm

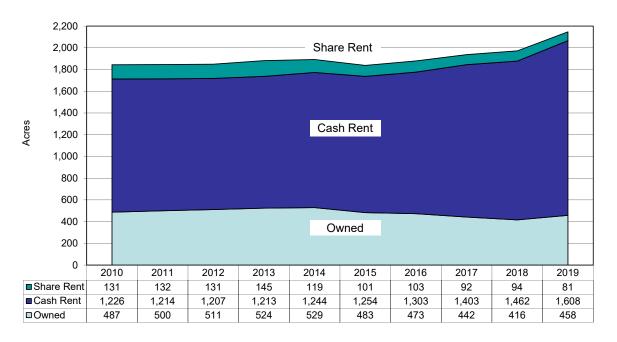


Figure 9. Spring Wheat Costs Per Acre

N.D. Farm Business Management Education Program

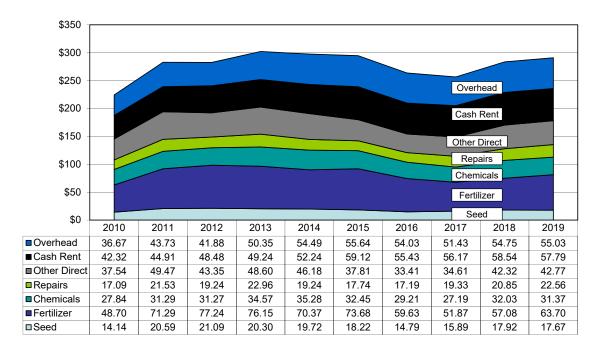
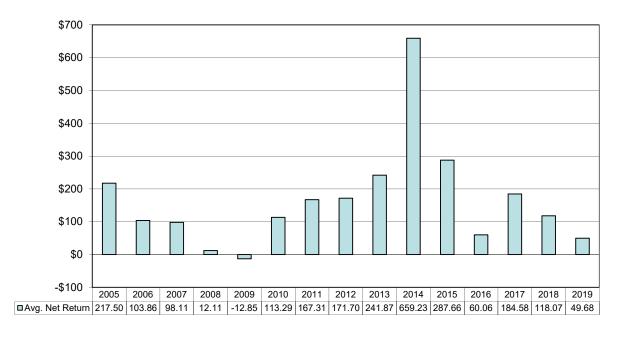


Figure 10. Average Net Return Per Beef Cow



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