# 2022 ANNUAL REPORT State Averages

North Dakota Farm Management Education



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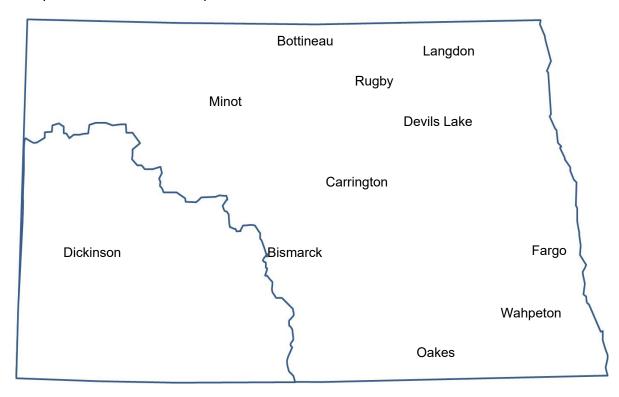
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### NORTH DAKOTA FARM BUSINESS MANAGEMENT EDUCATION

### 2022 ANNUAL REPORT

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This report was made possible by the farm families who cooperated with their farm management instructors in getting the records for 2022 closed out on a timely basis. The farm management instructors cited above generated the Finpack year-end farm analyses Bryon Parman, NDSU Extension Service, databased the Finpack analyses of farms and generated the comparative tables for this report.



### 2022 State Report North Dakota Farm Business Management Education

### TABLE OF CONTENTS

Introduction	1
Explanatory Notes for the Farm Operators' Reports	2
Farm Income Statement	7
Inventory Changes	9
Depreciation	10
Profitability Measures	11
Liquidity and Repayment Capacity Measures	12
Balance Sheet at Cost Values	13
Statement of Cash Flows	14
Financial Standards Measures	
Crop Production and Marketing Summary	16
Household and Personal Expenses	
Operator and Labor Information	18
Nonfarm Summary	19
Financial Summary (sorted by gross farm income)	20
Financial Summary (sorted by age of operator)	21
Financial Summary (sorted by farm type)	
Explanatory Notes for Crop Tables	23
Barley on Owned Land	
Barley on Cash Rent	
Beans, Pinto on Owned Land	
Beans, Pinto on Cash Rent	
Canola on Owned Land	
Canola on Cash Rent	
Corn on Owned Land	
Corn on Cash Rent	
Corn Silage on Owned Land	
Corn Silage on Cash Rent	
CRP on Owned Land	
CRP on Cash Rent	
Hay on Cash Rent	
Hay, Alfalfa on Owned Land	37
Hay, Alfalfa on Cash Rent	
Hay, Grass on Owned Land	
Hay, Grass on Cash Rent	40
Hay, Mixed Alfalfa/Grass on Owned Land	41
Hay, Mixed Alfalfa/Grass on Cash Rent	
Hay, Small Grain on Owned Land	
Hay, Small Grain on Cash Rent	
Oats on Cash Rent	
Pasture on Owned Land	
Pasture on Cash Rent	
Peas, Dry Edible on Cash Rent	
Prevented Planting on Owned Land	
Prevented Planting on Cash Rent	50

Soybeans on Owned Land	51
Soybeans on Cash Rent	52
Soybeans, Food on Cash Rent	53
Sugar Beets on Owned Land	
Sugar Beets on Cash Rent	55
Sunflowers on Owned Land	55
Sunflowers on Cash Rent	57
Wheat, Durum on Owned Land	58
Wheat, Durum on Cash Rent	59
Wheat, Spring on Owned Land	60
Wheat, Spring on Cash Rent	61
Explanatory Notes for Livestock Tables	
Beef Cow-Calf – Average Per Cwt. Produced	63
Beef Cow-Calf – Average Per Cow	
Beef Cow-Calf Whole Herd w/backgrounding - Average Per Cwt. Produced	65
Beef Cow-Calf Whole Herd w/backgrounding - Average Per Cow	66
Beef Replacement Heifers – Average Per Head	
Beef Replacement Heifers – Average Per Head Sold/Trans	68
Beef, Background Beef – Average Per Cwt Produced	
Beef, Background Beef – Average Per Head	70
Figure 1. Gross Cash Income per Farm	
Figure 2. Net Farm Income (Accrual) per Farm	71
Figure 3. Financial Efficiency Measures	
Figure 4. Profitability Measures per Farm	
Figure 5. Assets and Liabilities per Farm, 2022	73
Figure 6. Total Farm Assets and Liabilities	73
Figure 7. Household and Personal Expenses	74
Figure 8. Crop Acreage per Farm	74
Figure 9. Spring Wheat Costs per Acre	75
Figure 10. Average Net Return per Beef Cow	75

### 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 2022 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 34th 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 <a href="https://www.ndfarmmanagement.com">www.ndfarmmanagement.com</a>.

### 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 \$30,000 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.

**Working Capital to Operating Expenses:** Measures the operating capital available against the amount of the business's operating expenses.

#### 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.

**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.

**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, Taxes, Depreciation and Amortization.</u> This represents a measure of earnings available for debt repayment.

#### **Repayment Capacity**

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

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

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

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

**Debt Coverage Ratio:** Indicates whether your business generated enough income to cover current interest expense and all intermediate and long-term debt payments.

**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.

**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, 2022 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	236	47	47	48
Cash Farm Income				
Barley	17,514	2,687	6,851	58,202
Beans, Black Turtle	262	-	-	637
Beans, Faba	108	-	-	531
Beans, Pinto	24,435	-	10,639	99,660
Canola	60,696	13,531	36,829	140,306
Corn	241,666	114,516	151,129	568,160
Corn Silage	3,070	_	-	15,092
Flax	1,925	1,290	1,455	2,086
Hay, Alfalfa	2,212	153	2,649	5,937
Hay, Small Grain	25	-	-	122
Millet	373	-	1,872	-
Oats	2,178	-	2,835	2,448
Peas, Dry Edible	3,898	1,519	172	13,058
Peas, Field	1,169	_	7	5,739
Rye	417	_	1,745	-
Soybeans	263,264	97,693	200,557	529,064
Sugar Beets	36,674	38,790	82,618	36,300
Sunflowers	44,875	12,835	19,365	137,460
Wheat, Durum	24,962	3,685	16,909	93,327
Wheat, Spring	149,547	42,414	108,337	367,529
Wheat, Winter	1,525	785	-	3,973
Rented Out	29	-	-	142 7.465
Hay	2,609	935	1,470	7,465
Hemp, Seed	147	-	740	
Miscellaneous crop income	9,981	34,061	4,409	4,883
Beef Bulls	1,123	2,746	638	-
Beef Cow-Calf, Beef Calves	26,555	47,985	32,371	10,918
Beef Replacement Heifers	2,138	1,402	4,731	-
Beef Backgrounding	19,953	29,344	24,056	12,261
Beef Finishing	3,640	-	2,657	-
Dairy, Milk	19,329	-	-	-
Dairy, Dairy Calves	235			
Cull breeding livestock	11,098	16,451	14,298	2,221
Misc. livestock income	1,558	5	6,012	477
Crop government payments	11,555	842	11,865	31,014
CRP payments	722	618	943	1,346
Livestock govt payments	2,498	4,138	1,475	1,474
Conservation govt payment	4,674	1,191	5,517	6,930
Other government payments	99,425	31,745	58,805	241,068
Custom work income	13,013	6,214	10,162	27,226
Patronage dividends, cash	9,116	5,240	7,471	17,957
Crop insurance income	101,026	35,213	67,185	248,417
Property insurance income	307	216	491	478
Sale of resale items	1,933	376	-	8,349
Livestock insurance inc	111	311	123	12
Farm rental income	4,732	7,802	6,788	4,719
Other farm income	21,617	15,625	23,837	33,325
Gross Cash Farm Income	1,249,918	572,358	930,011	2,740,309

### Farm Income Statement (continued) North Dakota Farm Business Management Education Program State Report, 2022 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	236	47	47	48
Cash Farm Expense				
Seed and plants	110,647	46,559	79,463	248,361
Fertilizer	191,329	68,022	129,793	479,338
Crop chemicals	100,081	37,279	75,813	232,497
Crop insurance	50,522	17,426	33,993	118,779
Drying expense	1,708	755	924	4,116
Storage	596	43	119	2,315
Irrigation energy	758	- 4.550	280	2,749
Crop miscellaneous	2,770	1,558	5,918	4,589
Crop consultants	2,898 6,899	479 4,670	1,534 13,564	10,103 400
Feeder livestock purchase Purchased feed	17,846	15,740	10,465	4,913
Breeding fees	578	507	360	342
Veterinary	3,530	3,854	3,407	848
Supplies	2,942	2,569	3,001	930
Livestock leases	98	384	53	-
Livestock consultants	30	-	141	_
Interest	35,854	24,944	30,977	66,592
Fuel & oil	51,633	31,593	42,211	95,893
Repairs	93,183	64,093	80,137	163,326
Custom hire	23,168	14,577	19,794	45,191
Hired labor	41,388	14,458	22,491	106,091
Land rent	138,105	63,991	96,349	288,577
Stock/quota lease	1,878	7.074	7,320	1,911
Machinery leases	12,194	7,674	7,746	24,805
Building leases	738	241	438	1,662
Real estate taxes	6,533 146	4,561 148	6,415 461	11,461 48
Personal property taxes Farm insurance	16,017	8,948	11,855	32,106
Utilities	10,812	7,319	7,211	20,391
Hauling and trucking	1,563	51	429	537
Marketing	1,757	1,537	675	2,398
Dues & professional fees	6,283	5,279	4,412	13,033
Purchase of resale items	5,136	15,339	, <u>-</u>	8,800
Miscellaneous	15,812	8,763	14,214	29,659
Licenses & registrations	63	-	-	311
Total cash expense	955,496	473,363	711,963	2,023,074
Net cash farm income	294,422	98,995	218,048	717,235
Inventory Changes				
Prepaids and supplies	40,186	9,946	6,410	160,143
Accounts receivable	-16,487	2,568	38,314	-102,592
Hedging accounts	-3,097	-10,874	-4,052	-2,098
Other current assets	-468	1,427	-358	-3,242 700,707
Crops and feed Market livestock	218,219	1,131	67,016	709,707
Breeding livestock	2,383 -3,781	3,913 -19,666	16,168 -6,882	-8,006 8,060
Other assets	635	-19,000 -5,967	3,754	2,505
Accounts payable	-3,623	-3,907 -4,256	-2,863	-16,387
Accrued interest	-3,648	-3,590	-988	-5,657
Total inventory change	230,318	-25,368	116,520	742,434
Net operating profit	524,740	73,627	334,568	1,459,669
Depreciation				
Machinery and equipment	-85,152	-61,311	-64,834	-185,092
Titled vehicles	-9,669	-7,048	-9,650	-16,226
Buildings and improvements	-8,971	-3,081	-6,733	-24,231
Total depreciation	-103,792	-71,440	-81,217	-225,550
Net farm income from operations	420,948	2,187	253,351	1,234,119
Gain or loss on capital sales	9,730	-3,596	434	41,540
Net farm income	430,678	-1,409	253,784	1,275,659

# Inventory Changes North Dakota Farm Business Management Education Program State Report, 2022 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	236	47	47	48
Net cash farm income	294,422	98,995	218,048	717,235
Crops and Feed Ending inventory Beginning inventory Inventory change	817,807	240,048	482,980	2,272,782
	599,588	238,917	415,963	1,563,075
	218,219	1,131	67,016	709,707
Market Livestock Ending inventory Beginning inventory Inventory change	46,916	55,002	75,279	22,889
	44,533	51,089	59,110	30,895
	2,383	3,913	16,168	-8,006
Accts Receivable Ending inventory Beginning inventory Inventory change	78,572	41,960	90,070	139,389
	95,059	39,392	51,755	241,981
	-16,487	2,568	38,314	-102,592
Prepaid Expenses and Supplies Ending inventory Beginning inventory Inventory change	147,901	39,586	76,507	454,132
	107,715	29,640	70,097	293,989
	40,186	9,946	6,410	160,143
Hedging Activities Ending inventory Withdrawals Beginning inventory Deposits Gain or loss	9,242	2,808	8,029	25,475
	9,748	319	1,904	34,633
	7,667	2,306	4,522	25,413
	14,420	11,696	9,463	36,793
	-3,097	-10,874	-4,052	-2,098
Other Current Assets Ending inventory Beginning inventory Inventory change	6,137	2,170	696	13,918
	6,606	743	1,054	17,160
	-468	1,427	-358	-3,242
Breeding Livestock Ending inventory Capital sales Beginning inventory Capital purchases Depreciation, capital adjust	96,281	126,050	109,966	45,371
	4,230	7,714	2,811	8,916
	90,387	115,974	108,758	38,624
	13,905	37,455	10,901	7,603
	-3,781	-19,666	-6,882	8,060
Other Capital Assets Ending inventory Capital sales Beginning inventory Capital purchases Depreciation, capital adjust	164,644	70,533	208,781	359,831
	2,238	533	1,695	7,370
	158,402	74,304	200,013	352,218
	7,845	2,729	6,709	12,478
	635	-5,967	3,754	2,505
Accounts Payable Beginning inventory Ending inventory Inventory change	18,974	11,275	14,911	32,931
	22,597	15,531	17,774	49,318
	-3,623	-4,256	-2,863	-16,387
Accrued Interest Beginning inventory Ending inventory Inventory change	18,236	11,155	15,379	32,626
	21,884	14,745	16,368	38,284
	-3,648	-3,590	-988	-5,657
Total inventory change	230,318	-25,368	116,520	742,434
Net operating profit	524,740	73,627	334,568	1,459,669

### Depreciation North Dakota Farm Business Management Education Program State Report, 2022 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	236	47	47	48
Net operating profit	524,740	73,627	334,568	1,459,669
Machinery and Equipment				
Ending inventory	781,267	331,492	558,295	1,923,540
Capital sales	57,623	19,629	14,604	210,225
Beginning inventory	703,219	353,638	521,801	1,661,038
Capital purchases	220,823	58,794	115,933	657,819
Depreciation, capital adjust.	-85,152	-61,311	-64,834	-185,092
Titled Vehicles				
Ending inventory	82,792	62,020	71,240	135,998
Capital sales	3,073	723	1,553	6,874
Beginning inventory	72,224	61,591	61,728	114,240
Capital purchases	23,310	8,201	20,715	44,858
Depreciation, capital adjust.	-9,669	-7,048	-9,650	-16,226
Buildings and Improvements				
Ending inventory	253,728	93,044	206,012	597,547
Capital sales	1,616	-	1,064	5,235
Beginning inventory	234,081	89,698	196,861	547,065
Capital purchases	30,233	6,427	16,948	79,949
Depreciation, capital adjust.	-8,971	-3,081	-6,733	-24,231
Total depreciation, capital adj.	-103,792	-71,440	-81,217	-225,550
Net farm income from operations	420,948	2,187	253,351	1,234,119
Gain or loss on capital sales	9,730	-3,596	434	41,540
Net farm income	430,678	-1,409	253,784	1,275,659

# Profitability Measures North Dakota Farm Business Management Education Program State Report, 2022 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	236	47	47	48
Profitability (assets valued at cost)				
Net farm income from operations	420,948	2,187	253,351	1,234,119
Rate of return on assets	11.6 %	-1.0 %	8.3 %	15.6 %
Rate of return on equity	15.9 %	-5.9 %	11.0 %	20.7 %
Operating profit margin	26.0 %	-3.0 %	20.7 %	33.6 %
Asset turnover rate	44.6 %	33.8 %	40.0 %	46.3 %
Farm interest expense	39,502	28,534	31,965	72,249
Value of operator lbr and mgmt.	92,167	45,846	74,194	186,700
Return on farm assets	368,284	-15,124	211,122	1,119,668
Average farm assets	3,175,863	1,507,290	2,551,130	7,192,027
Return on farm equity	328,781	-43,659	179,157	1,047,419
Average farm equity	2,064,622	735,424	1,630,448	5,063,635
Value of farm production	1,417,324	509,583	1,020,302	3,329,104
	Avg. Of			
	All Farms	Low 20%	40 - 60%	High 20%
Number of farms	236	47	47	48
Profitability (assets valued at market)				
Net farm income from operations	544,942	47,531	351,008	1,463,507
Rate of return on assets	12.6 %	1.5 %	9.3 %	15.8 %
Rate of return on equity	16.3 %	0.1 %	11.5 %	19.9 %
Operating profit margin	34.7 %	5.9 %	30.3 %	40.5 %
Asset turnover rate	36.4 %	25.8 %	30.6 %	38.9 %
Farm interest expense	39,502	28,534	31,965	72,249
Value of operator lbr and mgmt.	92,167	45,846	74,194	186,700
Return on farm assets	492,278	30,219	308,780	1,349,056
Average farm assets	3,896,320	1,973,108	3,332,605	8,553,980
Return on farm equity	452,775	1,685	276,815	1,276,808
Average farm equity	2,782,231	1,201,243	2,411,924	6,425,588
Value of farm production	1,417,324	509,583	1,020,302	3,329,104

# Liquidity & Repayment Capacity Measures North Dakota Farm Business Management Education Program State Report, 2022 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	236	47	47	48
Liquidity				
Current ratio	2.90	1.60	2.41	3.42
Working capital	782,447	156,364	465,814	2,190,386
Change in working capital	191,159	-43,032	96,773	659,997
Working capital to gross revenue	54.1 %	28.7 %	44.6 %	65.5 %
Working capital to oper expense	88.6 %	35.3 %	68.7 %	120.9 %
Current assets	1,193,645	415,892	796,112	3,097,262
Current liabilities	411,198	259,528	330,298	906,877
Gross revenues (accrual)	1,447,204	545,332	1,044,330	3,343,218
Total operating expenses	882,961	443,170	677,797	1,811,301
Repayment capacity				
Net farm income from operations	420,948	2,187	253,351	1,234,119
Depreciation	103,792	71,440	81,217	225,550
Personal income	41,760	35,908	42,308	35,437
Family living/owner withdrawals	-89,529	-63,704	-77,970	-137,714
Cash discrepancy	12	68	37	166
Income taxes	-24,621	-8,753	-18,875	-59,227
Interest expense	39,502	28,534	31,965	72,249
Debt repayment capacity	494,490	68,421	314,116	1,373,471
Debt payments	121,954	83,293	98,362	225,684
Repayment margin	372,536	-14,873	215,754	1,147,787
Cash replacement allowance	-52,827	-29,619	-40,748	-134,352
Replacement margin	319,709	-44,492	175,006	1,013,435
Debt coverage ratio	4.05	0.82	3.19	6.09
Term debt coverage ratio	4.31	0.80	3.30	6.42
Replacement coverage ratio	2.83	0.61	2.26	3.81

### Balance Sheet at Cost Values North Dakota Farm Business Management Education Program State Report, 2022 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	236	47	47	48
Assets				
Current Farm Assets	97.070	24 240	60 554	160 677
Cash and checking balance Prepaid expenses & supplies	87,070 147,901	34,318 39,586	62,554 76,507	168,677 454,132
Growing crops	2,743	-	327	12,709
Accounts receivable	78,572	41,960	90,070	139,389
Hedging accounts	9,242	2,808	8,029	25,475
Crops held for sale or feed	817,807	240,048	482,980	2,272,782
Crops under government loan Market livestock held for sale	- 46,916	55,002	- 75,279	22,889
Other current assets	3,394	2,170	369	1,210
Total current farm assets	1,193,645	415,892	796,112	3,097,262
Intermediate Farm Assets				
Breeding livestock	96,281 784,267	126,050	109,966	45,371
Machinery and equipment Titled vehicles	781,267 82,792	331,492 62,020	558,295 71,240	1,923,540 135,998
Other intermediate assets	70,541	18,450	114,627	82,140
Total intermediate farm assets	1,030,881	538,012	854,128	2,187,050
Long Term Farm Assets	000 000	447.504	740.554	4 704 700
Farm land Buildings and improvements	832,962 253,728	417,504 93,044	713,554 206,012	1,721,782 597,547
Other long-term assets	94,104	52,083	94,154	277,691
Total long-term farm assets	1,180,794	562,631	1,013,721	2,597,020
Total Farm Assets	3,405,319	1,516,535	2,663,961	7,881,332
Total Nonfarm Assets	404,680	278,936	307,066	614,180
Total Assets	3,809,999	1,795,471	2,971,027	8,495,512
Liabilities				
Current Farm Liabilities	21,884	14,745	16,368	38,284
Accrued interest Accounts payable	22,597	15,531	17,774	49,318
Current notes	286,970	177,332	233,203	660,382
Government crop loans	-	· -	· -	-
Principal due on term debt	79,747	51,920	62,954	158,894
Total current farm liabilities	411,198	259,528	330,298	906,877
Total intermediate farm liabs	219,300	180,550	150,249	394,472
Total long term farm liabilities	541,197	373,775	461,692	964,323
Total farm liabilities	1,171,695	813,853	942,239	2,265,672
Total nonfarm liabilities	78,551	55,301	48,508	108,257
Total liabilities	1,250,246	869,155	990,747	2,373,929
Net worth (farm and nonfarm)	2,559,753	926,316	1,980,280	6,121,583
Net worth change	353,567	-52,451	179,622	1,122,082
Percent net worth change	16 %	-5 %	10 %	22 %
Ratio Analysis Current farm liabilities / assets	34 %	62 %	41 %	29 %
Intermediate farm liab. / assets	21 %	34 %	18 %	18 %
Long term farm liab. / assets	46 %	66 %	46 %	37 %
Total debt to asset ratio	33 %	48 %	33 %	28 %

### Statement Of Cash Flows North Dakota Farm Business Management Education Program State Penert 2022

State Report, 2022 (Farms Sorted By Net Farm Income)

	Avg. Of			
	All Farms	Low 20%	40 - 60%	High 20%
Number of farms	236	47	47	48
Beginning cash (farm & nonfarm)	118,531	82,351	83,888	182,204
Cash Provided By Operating Activities				
Gross cash farm income	1,249,918	572,358	930,011	2,740,309
Total cash farm expense	-955,496	-473,363	-711,963	-2,023,074
Net cash from hedging transactions	-4,672	-11,376	-7,559	-2,160
Cash provided by operating	289,750	87,619	210,489	715,075
Cash Provided By Investing Activities				
Sale of breeding livestock	4,256	7,714	2,899	8,916
Sale of machinery & equipment	66,273	15,990	14,874	246,974
Sale of titled vehicles	3,733	766	1,629	9,790
Sale of farm land	1,167	-	-	1,875
Sale of farm buildings	1,616	-	1,064	5,235
Sale of other farm assets	2,249	533	1,695	7,370
Sale of nonfarm assets	5,909	1,093	721	2,501
Purchase of breeding livestock	-13,905	-37,455	-10,901	-7,603
Purchase of machinery & equip.	-220,823	-58,794	-115,933	-657,819
Purchase of titled vehicles	-23,310	-8,201	-20,715	-44,858
Purchase of farm land	-104,506	-33,066	-62,283	-256,660
Purchase of farm buildings	-30,233	-6,427	-16,948	-79,949
Purchase of other farm assets	-7,845	-2,729	-6,709	-12,478
Purchase of nonfarm assets	-35,979	-23,084	-19,507	-52,963
Cash provided by investing	-351,398	-143,660	-230,113	-829,668
Cash Provided By Financing Activities				
Money borrowed	715,064	351,493	411,767	1,609,924
Principal payments	-588,462	-270,351	-338,053	-1,354,621
Personal income	41,760	35,908	42,308	35,437
Family living/owner withdrawals	-89,529	-63,704	-77,970	-137,714
Income and social security tax	-21,679	-8,753	-18,336	-54,316
Capital contributions	831	1,511	-	227
Capital distributions	-3,290	-6,374	-376	-4,531
Dividends paid	-	-	-	-
Cash gifts and inheritances	8,878	1,768	1,821	34,107
Gifts given	-397	-407	-143	-760
Other cash flows	324	1,626	-	-
Cash provided by financing	63,499	42,717	21,018	127,751
Net change in cash balance	1,851	-13,325	1,395	13,158
Ending cash (farm & nonfarm)	120,394	69,095	85,320	195,529
Discrepancy	-12	-68	-37	-166

### Financial Standards Measures North Dakota Farm Business Management Education Program State Report, 2022 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	236	47	47	48
Liquidity				
Current ratio	2.90	1.60	2.41	3.42
Working capital to gross revenue	54.1 %	28.7 %	44.6 %	65.5 %
Working capital to oper expense	88.6 %	35.3 %	68.7 %	120.9 %
Solvency (market)				
Farm debt to asset ratio	28 %	41 %	27 %	24 %
Farm equity to asset ratio	72 %	59 %	73 %	76 %
Farm debt to equity ratio	0.39	0.68	0.37	0.32
Profitability (cost)				
Rate of return on farm assets	11.6 %	-1.0 %	8.3 %	15.6 %
Rate of return on farm equity	15.9 %	-5.9 %	11.0 %	20.7 %
Operating profit margin	26.0 %	-3.0 %	20.7 %	33.6 %
Asset turnover rate	44.6 %	33.8 %	40.0 %	46.3 %
Repayment Capacity				
Debt coverage ratio	4.05	0.82	3.19	6.09
Term debt coverage ratio	4.31	0.80	3.30	6.42
Replacement coverage ratio	2.83	0.61	2.26	3.81
Efficiency				
Operating expense ratio	61.0 %	81.3 %	64.9 %	54.2 %
Depreciation expense ratio	7.2 %	13.1 %	7.8 %	6.7 %
Interest expense ratio	2.7 %	5.2 %	3.1 %	2.2 %
Net farm income ratio	29.1 %	0.4 %	24.3 %	36.9 %

### Crop Production and Marketing Summary North Dakota Farm Business Management Education Program State Report, 2022 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	236	47	47	48
Acreage Summary				
Total acres owned	794	518	928	1,267
Total crop acres	2,139	953	1,667	4,590
Crop acres owned	482	197	503	949
Crop acres cash rented	1,586	725	1,075	3,551
Crop acres share rented	70	32	88	91
Total pasture acres	455	880	451	154
Percent crop acres owned	23 %	21 %	30 %	21 %
r croom crop deree ewiled	20 70	21 70	00 70	21 70
Mach invest/crop acre cost	379	411	364	418
Mach invest/crop acre market	490	567	487	532
Average Price Received (Cash Sales	Only)			
Soybeans per bushel	13.16	13.09	13.00	13.05
Wheat, Spring per bushel	9.21	9.28	9.14	9.46
Corn per bushel	6.12	6.09	6.11	6.10
Canola per cwt	28.93	<del>-</del>	30.53	28.37
Sunflowers per cwt	31.12	<del>-</del>	28.28	31.74
Barley per bushel	6.24	<del>-</del>	= =	5.68
Wheat, Durum per bushel	11.79	<del>-</del>	-	12.21
Beans, Pinto per cwt	46.38	<del>-</del>	-	47.36
Oats per bushel	5.66	<del>-</del>	-	-
Straw per ton	40.85	_	_	_
Wheat, Winter per bushel	9.35	-	-	-
·				
Average Yield Per Acre				
Soybeans (bushel)	36.56	34.08	34.24	38.68
Wheat, Spring (bushel)	57.55	47.64	51.97	64.15
Corn (bushel)	143.25	112.48	133.96	146.88
Canola (cwt)	19.35	<del>.</del>	18.05	20.30
Barley (bushel)	73.85	51.41	56.46	79.59
Sunflowers (cwt)	31.80	<del>-</del>	18.19	24.75
Hay, Mixed Alfalfa/Grass (ton)	1.65	1.24	1.91	-
Hay, Small Grain (ton)	2.01	2.04	2.33	-
Corn Silage (ton)	16.22	11.42	13.48	<del>-</del>
Hay, Alfalfa (ton)	2.86	1.57	3.18	3.99
Hay, Grass (ton)	1.71	1.65	-	2.23
Wheat, Durum (bushel)	49.69	-	42.15	49.94
Sugar Beets (ton)	22.63	21.70	22.85	-
Hay (ton)	2.01	-	2.64	-
Beans, Pinto (cwt)	16.05	-	-	15.46
Oats (bushel)	96.17	-	-	-
Soybeans, Natto (bushel)	32.81	-	-	34.78
Soybeans, Food (bushel)	28.63	26.09	-	-
Hay, Mixed (ton)	1.63	-	=	-
Wheat, Winter (bushel)	57.42	-	-	-
Sunflowers, Confectionary (cwt)	22.38	=	-	30.31
Lentils (cwt)	6.73	-	-	-
Flax (bushel)	14.63	=	-	-
Straw (ton)	1.19	-	-	-

# Household and Personal Expenses North Dakota Farm Business Management Education Program State Report, 2022 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	40	6	8	5
Average family size	3.3	2.5	3.5	3.8
Family Living Expenses				
Food and meals expense	11,797	10,410	8,363	18,472
Medical care	6,608	8,204	3,056	5,580
Health insurance	6,887	4,870	3,225	15,743
Cash donations	2,623	357	285	11,334
Household supplies	10,751	9,270	8,579	15,930
Clothing	2,525	3,022	2,077	3,756
Personal care	5,842	2,548	6,353	3,715
Child / Dependent care	1,724	1,159	970	1,977
Alimony and child support	-	-	-	-
Gifts	2,769	1,525	1,905	5,296
Education	1,290	649	1,890	716
Recreation	5,458	2,397	3,082	13,460
Utilities (household share)	4,364	3,479	4,612	4,813
Personal vehicle operating exp	3,230	2,457	4,219	2,352
Household real estate taxes	159	-	-	553
Dwelling rent	413	1,733	-	-
Household repairs	3,480	1,501	3,186	3,736
Personal interest	2,302	1,733	2,140	915
Disability / Long term care ins	349	-	16	-
Life insurance payments	4,269	6,584	2,482	5,673
Personal property insurance	613	-	741	1,060
Miscellaneous	8,102	8,580	6,278	4,856
Total cash family living expense	85,555	70,480	63,460	119,935
Family living from the farm	-	-	-	-
Total family living	85,555	70,480	63,460	119,935
Other Nonfarm Expenditures				
Income taxes	20,672	2,178	8,827	89,940
Furnishing & appliance purchases	574	3,000	153	-
Nonfarm vehicle purchases	9,927	17,277	3,250	12,107
Nonfarm real estate purchases	28,306	-	-	46,560
Other nonfarm capital purchases	1,840	1,103	594	5,400
Nonfarm savings & investments	6,799	7,681	407	17,238
Total other nonfarm expenditures	68,119	31,240	13,230	171,246
Total cash family living				
investment & nonfarm capital purch	153,674	101,719	76,690	291,180

### Operator and Labor Information North Dakota Farm Business Management Education Program State Report, 2022 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
	All I alliis		40 - 00 /6	
Number of farms	236	47	47	48
Operator Information				
Average number of operators	1.1	1.0	1.1	1.3
Average age of operators	47.6	43.6	51.2	50.7
Average number of years farming	22.9	18.0	26.3	27.6
Results Per Operator				
Working capital	702,119	153,107	421,024	1,695,783
Total assets (market)	4,183,819	2,251,064	3,452,940	7,765,591
Total liabilities	1,124,689	851,047	895,483	1,837,880
Net worth (market)	3,059,130	1,400,017	2,557,457	5,927,711
Net worth excl deferred liabs	3,061,925	1,400,017	2,557,457	5,927,711
Gross farm income	1,298,632	533,971	943,914	2,588,298
Total farm expense	920,899	531,829	714,924	1,632,851
Net farm income from operations	377,733	2,142	228,990	955,447
Net nonfarm income	37,473	35,160	38,240	27,435
Family living & tax withdrawals	102,421	70,881	87,500	152,342
Total acres owned	712.2	507.1	838.7	981.0
Total crop acres	1,919.0	933.5	1,506.3	3,553.8
Crop acres owned	432.9	192.6	455.1	734.4
Crop acres cash rented	1,423.2	709.7	971.5	2,748.9
Crop acres share rented	62.9	31.3	79.7	70.6
Total pasture acres	407.9	861.4	407.6	119.3
Labor Analysis				
Number of farms	236	47	47	48
Total unpaid labor hours	2,146	1,798	2,246	2,813
Total hired labor hours	1,309	447	720	3,068
Total labor hours per farm	3,455	2,244	2,966	5,880
Unpaid hours per operator	1,926	1,760	2,030	2,177
Value of farm production / hour	410.22	227.06	344.05	566.14
Net farm income / unpaid hour	196.15	1.22	112.81	438.80
Average hourly hired labor wage	31.78	28.91	32.98	35.56
Partnerships & LLCs				
Number of farms	14	1	4	6
Number of operators	2.2	-	-	2.2
Owner withdrawals per farm	<u>-</u>	-	-	<u>-</u> .
Withdrawals per operator	-	-	-	-

### Nonfarm Summary North Dakota Farm Business Management Education Program State Report, 2022 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	236	47	47	48
Nonfarm Income				
Personal wages & salary	21,622	25,333	27,753	13,563
Net nonfarm business income	4,373	3,193	969	13,740
Personal rental income	218	30	-233	776
Personal interest income	316	225	290	730
Personal cash dividends	3	1	-	-
Tax refunds	1,258	1,997	839	394
Nontaxable personal inc.	324	1,626	-	-
Other nonfarm income	13,971	5,129	12,689	6,233
Total nonfarm income	42,084	37,533	42,308	35,437
Gifts and inheritances	8,878	1,768	1,821	34,107
Nonfarm Assets (market)				
Checking & savings	33,324	34,776	22,767	26,852
Stocks & bonds	21,444	24,961	6,927	21,295
Other current assets	3,845	998	5,336	7,980
Furniture & appliances	6,816	5,265	3,418	8,630
Nonfarm vehicles	30,637	21,473	24,816	41,246
Cash value of life ins.	15,432	16,207	6,206	29,228
Retirement accounts	132,676	82,257	101,190	204,426
Other intermediate assets	9,930	1,454	11,284	26,368
Nonfarm real estate	162,785	99,338	123,335	225,568
Personal bus. investment	31,690	702	2,152	3,398
Other long term assets	25,820	6,505	18,578	77,585
Total nonfarm assets	474,397	293,934	326,009	672,576
Nonfarm Liabilities				
Accrued interest	341	489	397	102
Accounts payable	5,471	1,017	2,676	17,890
Current notes	1,062	3,228	-	204
Princ due on term debt	4,885	3,881	3,582	5,448
Total current liabilities	20,063	8,616	8,811	46,990
Intermediate liabilities	10,405	16,762	3,804	11,191
Long term liabilities	48,083	29,923	35,892	50,076
Total nonfarm liabilities	78,551	55,301	48,508	108,257
Nonfarm net worth	395,846	238,633	277,501	564,319
Nonfarm debt to asset ratio	17 %	19 %	15 %	16 %

### Financial Summary North Dakota Farm Business Management Education Program State Report, 2022 (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	236	12	19	37	64	62	42
Income Statement							
Gross cash farm income	1,249,918	58,787	172,892	372,055	755,076	1,394,279	3,391,766
Total cash farm expense Net cash farm income	955,496 294,422	46,391 12,396	145,016 27,877	300,599 71,456	583,851 171,225	1,078,166 316,113	2,544,051 847,715
Inventory change	230,318	25,053	29.090	80.686	144,282	275.054	576,878
Depreciation	-103,792	-3,199	-10,693	-25,279	-60,632	-107,834	-303,617
Net farm income from operations	420,948	34,250	46,274	126,862	254,875	483,332	1,120,977
Gain or loss on capital sales	9,730	167	248	2,252	1,151	8,449	38,302
Average net farm income Median net farm income	430,678 257,290	34,417 32,694	46,522 40,995	129,114 124,200	256,026 251,451	491,781 466,094	1,159,279 902,657
Profitability (cost)		0.00/		<b>-</b> 0.0/	40.004	40 = 0/	40 = 04
Rate of return on assets	11.6 % 15.9 %	6.3 % 12.6 %	4.1 % 4.8 %	7.6 % 10.5 %	10.0 %	12.5 %	12.5 % 16.9 %
Rate of return on equity Operating profit margin	26.0 %	23.6 %	4.6 % 11.4 %	21.3 %	13.1 % 24.4 %	17.8 % 26.2 %	27.2 %
Asset turnover rate	44.6 %	26.7 %	35.6 %	35.6 %	40.8 %	47.5 %	46.1 %
Profitability (market) Rate of return on assets	12.6 %	6.2 %	5.0 %	10.2 %	11.2 %	13.5 %	13.4 %
Rate of return on equity	16.3 %	12.0 %	6.2 %	13.2 %	13.8 %	17.9 %	17.2 %
Operating profit margin	34.7 %	23.8 %	17.5 %	39.4 %	36.2 %	34.9 %	34.1 %
Asset turnover rate	36.4 %	26.1 %	28.7 %	26.0 %	31.0 %	38.6 %	39.3 %
Liquidity & Repayment (end of year) Current assets	1,193,645	75,663	151,909	410,219	714,980	1,248,147	3,323,427
Current liabilities	411,198	32,126	81,928	132,454	231,286	429,097	1,161,749
Current ratio	2.90	2.36	1.85	3.10	3.09	2.91	2.86
Working capital	782,447	43,537	69,980	277,765	483,694	819,050	2,161,679
Change in working capital	191,159	24,729 50.9 %	6,723 34.0 %	59,087 61.0 %	95,163 54.4 %	191,069	584,909
Working capital to gross revenue Working capital to oper expense	54.1 % 88.6 %	101.3 %	50.2 %	96.5 %	87.9 %	49.6 % 80.9 %	56.6 % 94.0 %
Debt coverage ratio	4.05	2.24	1.29	3.01	3.52	3.79	4.89
Term debt coverage ratio	4.31	2.30	1.34	3.07	3.67	4.02	5.30
Replacement coverage ratio Term debt to EBITDA	2.83 1.23	2.18 2.57	1.17 3.20	2.13 2.13	2.64 1.38	2.70 1.36	3.18 0.95
Solvency (end of year at cost)							
Number of farms	236	12	19	37	64	62	42
Total assets Total liabilities	3,809,999 1,250,246	439,175 271.160	687,574 366,689	1,575,801 577,752	2,706,425 791,326	4,112,764 1.443.419	9,388,537 2,936,271
Net worth	2,559,753	168,015	320,885	998,049	1,915,098	2,669,345	6,452,266
Net worth change	353,567	55,407	37,831	106,569	206,195	395,445	961,930
Farm debt to asset ratio	34 %	65 %	53 %	40 %	32 %	37 %	32 %
Total debt to asset ratio Change in earned net worth %	33 % 16 %	62 % 49 %	53 % 13 %	37 % 12 %	29 % 12 %	35 % 17 %	31 % 18 %
	10 /6	49 /0	13 /0	12 /0	12 /0	17 70	10 70
Solvency (end of year at market) Number of farms	236	12	19	37	64	62	42
Total assets	4,662,476	451,971	843,012	2,097,403	3,573,322	5,040,092	10,955,267
Total liabilities	1,253,361	271,160	366,689	577,752	802,813	1,443,419	2,936,271
Net worth change	3,409,115	180,811	476,323	1,519,651	2,770,509	3,596,673	8,018,996
Total net worth change Farm debt to asset ratio	469,530 28 %	54,230 64 %	49,374 43 %	179,599 29 %	282,067 24 %	536,391 30 %	1,220,632 27 %
Total debt to asset ratio	27 %	60 %	43 %	28 %	22 %	29 %	27 %
Change in total net worth %	16 %	43 %	12 %	13 %	11 %	18 %	18 %
Nonfarm Information Net nonfarm income	41,760	35,005	29,702	39,997	59,495	34,280	34,716
Farms reporting living expenses	41,760	35,005 2	29,702 3	39,99 <i>1</i> 8	59,495 13	34,280 12	34,716
Total family living expense	85,555	-	-	60,332	85,135	110,465	-
Total living, invest, cap. purch	153,674	-	-	115,319	143,665	171,920	-
Crop Acres Total crop acres	2,139	156	468	845	1,426	2,536	5,100
Total crop acres  Total crop acres owned	482	55	76	263	402	2,530 601	928
Total crop acres cash rented	1,586	97	289	527	976	1,864	4,049
Total crop acres share rented	70	4	102	55	48	70	122
Machinery value per crop acre	490	211	300	382	442	473	549

# Financial Summary North Dakota Farm Business Management Education Program State Report, 2022 (Farms Sorted By Age of Operator)

	Avg. Of All Farms	Less Than 31	31 - 40	41 - 50	51 - 60	Over 60
Number of farms	236	33	52	40	58	53
Income Statement Gross cash farm income Total cash farm expense Net cash farm income Inventory change Depreciation Net farm income from operations Gain or loss on capital sales Average net farm income Median net farm income	1,249,918	406,160	1,088,247	1,581,992	1,401,081	1,517,853
	955,496	306,955	823,234	1,275,956	1,113,486	1,074,320
	294,422	99,206	265,013	306,036	287,594	443,534
	230,318	78,443	182,681	406,523	268,971	196,335
	-103,792	-17,817	-73,547	-128,569	-115,350	-155,651
	420,948	159,832	374,147	583,990	441,216	484,218
	9,730	1,219	10,304	10,125	11,505	12,224
	430,678	161,050	384,451	594,115	452,721	496,442
	257,290	78,980	283,616	294,873	323,761	260,983
Profitability (cost) Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	11.6 %	16.4 %	14.1 %	14.2 %	11.2 %	8.6 %
	15.9 %	29.9 %	24.4 %	24.1 %	15.0 %	9.9 %
	26.0 %	26.7 %	26.3 %	28.6 %	24.5 %	25.0 %
	44.6 %	61.4 %	53.8 %	49.6 %	45.6 %	34.6 %
Profitability (market) Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	12.6 %	18.4 %	16.2 %	15.5 %	12.8 %	8.8 %
	16.3 %	31.9 %	25.9 %	23.7 %	16.0 %	9.8 %
	34.7 %	32.4 %	34.2 %	36.7 %	36.3 %	32.2 %
	36.4 %	56.9 %	47.4 %	42.2 %	35.2 %	27.4 %
Liquidity & Repayment (end of year) Current assets Current liabilities Current ratio Working capital Change in working capital Working capital to gross revenue Working capital to oper expense Debt coverage ratio Term debt coverage ratio Replacement coverage ratio Term debt to EBITDA	1,193,645	328,330	876,877	1,429,937	1,246,737	1,806,781
	411,198	105,735	422,658	668,358	395,462	413,284
	2,90	3.11	2.07	2.14	3.15	4.37
	782,447	222,595	454,219	761,578	851,275	1,393,497
	191,159	63,012	121,541	251,171	209,676	273,698
	54.1 %	46.3 %	36.0 %	39.6 %	52.3 %	83.4 %
	88.6 %	76.2 %	58.6 %	66.1 %	83.2 %	139.3 %
	4.05	3.66	3.53	4.11	3.54	5.41
	4.31	3.84	3.77	4.37	3.78	5.72
	2.83	3.41	2.86	3.16	2.52	2.78
	1.23	1.36	1.43	1.45	1.35	0.75
Solvency (end of year at cost) Number of farms Total assets Total liabilities Net worth Net worth change Farm debt to asset ratio Total debt to asset ratio Change in earned net worth %	236	33	52	40	58	53
	3,809,999	985,401	2,840,212	4,610,812	4,188,642	5,501,449
	1,250,246	483,742	1,356,644	2,075,158	1,334,844	907,960
	2,559,753	501,659	1,483,568	2,535,654	2,853,798	4,593,489
	353,567	145,473	317,293	500,339	350,746	411,042
	34 %	49 %	48 %	47 %	34 %	18 %
	33 %	49 %	48 %	45 %	32 %	17 %
	16 %	41 %	27 %	25 %	14 %	10 %
Solvency (end of year at market) Number of farms Total assets Total liabilities Net worth Total net worth change Farm debt to asset ratio Total debt to asset ratio Change in total net worth %	236	33	52	40	58	53
	4,662,476	1,069,676	3,249,157	5,376,179	5,381,557	6,960,593
	1,253,361	483,742	1,356,644	2,075,158	1,334,844	921,830
	3,409,115	585,934	1,892,513	3,301,021	4,046,713	6,038,762
	469,530	173,001	420,634	645,246	542,329	489,850
	28 %	45 %	42 %	40 %	26 %	14 %
	27 %	45 %	42 %	39 %	25 %	13 %
	16 %	42 %	29 %	24 %	15 %	9 %
Nonfarm Information Net nonfarm income Farms reporting living expenses Total family living expense Total living, invest, cap. purch	41,760 40 85,555 153,674	22,602 3 -	48,965 16 81,100 133,105	38,786 4 - -	54,216 8 109,705 219,359	35,235 9 72,856 153,253
Crop Acres Total crop acres Total crop acres owned Total crop acres cash rented Total crop acres share rented Machinery value per crop acre	2,139	845	1,982	2,657	2,457	2,359
	482	99	297	485	631	739
	1,586	691	1,659	2,026	1,763	1,545
	70	54	26	146	63	74
	490	246	425	457	478	639

# Financial Summary North Dakota Farm Business Management Education Program State Report, 2022 (Farms Sorted By Farm Type)

	Avg. Of All Farms	Crop	Beef	Crop and Beef	Other
Number of farms	236	186	19	20	10
Income Statement Gross cash farm income Total cash farm expense Net cash farm income Inventory change Depreciation Net farm income from operations Gain or loss on capital sales Average net farm income Median net farm income	1,249,918	1,411,104	264,215	756,174	360,045
	955,496	1,057,574	203,086	678,805	283,585
	294,422	353,530	61,129	77,369	76,460
	230,318	269,825	11,261	111,047	76,853
	-103,792	-118,896	-17,213	-61,780	-37,061
	420,948	504,458	55,178	126,636	116,252
	9,730	11,991	402	413	5,006
	430,678	516,448	55,580	127,048	121,259
	257,290	339,397	40,995	100,380	60,643
Profitability (cost) Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	11.6 %	12.6 %	3.4 %	4.6 %	5.2 %
	15.9 %	17.1 %	3.0 %	5.1 %	7.5 %
	26.0 %	27.2 %	14.2 %	13.6 %	21.4 %
	44.6 %	46.2 %	24.1 %	33.9 %	24.2 %
Profitability (market) Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	12.6 %	13.4 %	5.3 %	8.7 %	8.2 %
	16.3 %	17.2 %	5.9 %	11.4 %	10.7 %
	34.7 %	35.3 %	30.5 %	32.7 %	49.7 %
	36.4 %	38.0 %	17.5 %	26.7 %	16.5 %
Liquidity & Repayment (end of year) Current assets Current liabilities Current ratio Working capital Change in working capital Working capital to gross revenue Working capital to oper expense Debt coverage ratio Term debt coverage ratio Replacement coverage ratio Term debt to EBITDA	1,193,645 411,198 2.90 782,447 191,159 54.1 % 88.6 % 4.05 4.31 2.83 1.23	1,365,048 433,129 3.15 931,920 228,102 56.9 % 95.6 % 4.52 4.77 3.05 1.10	226,653 104,280 2.17 122,373 11,784 43.8 % 64.7 % 1.52 1.61 1.25 3.73	709,679 464,418 1,53 245,261 23,589 28.9 % 39.5 % 1.77 1.90 1.39 2.50	455,153 234,249 1.94 220,904 63,778 48.0 % 76.1 % 2.04 2.05 1.77 2.91
Solvency (end of year at cost) Number of farms Total assets Total liabilities Net worth Net worth change Farm debt to asset ratio Total debt to asset ratio Change in earned net worth %	236	186	19	20	10
	3,809,999	4,257,185	1,158,076	2,536,723	1,988,792
	1,250,246	1,322,263	466,106	1,139,916	842,071
	2,559,753	2,934,922	691,969	1,396,807	1,146,720
	353,567	424,911	45,133	101,776	102,432
	34 %	32 %	44 %	46 %	46 %
	33 %	31 %	40 %	45 %	42 %
	16 %	17 %	7 %	8 %	10 %
Solvency (end of year at market) Number of farms Total assets Total liabilities Net worth Total net worth change Farm debt to asset ratio Total debt to asset ratio Change in total net worth %	236	186	19	20	10
	4,662,476	5,170,107	1,561,988	3,236,987	2,844,804
	1,253,361	1,326,215	466,106	1,139,916	842,071
	3,409,115	3,843,892	1,095,882	2,097,070	2,002,732
	469,530	548,428	85,628	226,308	215,744
	28 %	27 %	32 %	36 %	31 %
	27 %	26 %	30 %	35 %	30 %
	16 %	17 %	8 %	12 %	12 %
Nonfarm Information Net nonfarm income Farms reporting living expenses Total family living expense Total living, invest, cap. purch	41,760 40 85,555 153,674	43,724 33 92,781 173,027	29,608 4 -	38,567 2 -	38,883 1 -
Crop Acres Total crop acres Total crop acres owned Total crop acres cash rented Total crop acres share rented Machinery value per crop acre	2,139	2,416	651	1,509	487
	482	522	202	468	301
	1,586	1,824	362	951	172
	70	70	87	90	14
	490	495	334	505	594

#### **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.

Coronavirus Food Assistance Program 3, a 2020 USDA FSA program that provides producers with financial assistance that gives them the ability to absorb some of the increased marketing costs associated with the COVID-19 pandemic, are included under "Other crop income per acre." "Government payments" are ARC and PLC payments as well as Coronavirus Food Assistance Program 1.

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	9
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	190.22 68.01 100.00 7.36 500.48 6.90 1.76 509.14
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	27.21 82.08 36.28 22.20 15.63 43.79 0.43 4.70 0.41 232.72 276.42
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	5.93 8.36 12.49 0.31 8.97 5.89 3.94 2.50 48.09 37.71 4.84 139.03 371.75 137.39
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	0.99 138.37 33.42 104.95
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management  Net value per unit Machinery cost per acre	3.42 5.47 5.32 5.82 7.36 120.59
Est. labor hours per acre	0.90

### Barley on Cash Rent

	Avg. Of All Farms
Number of farms	19
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	552.72 71.06 100.00 7.69 1.27 547.80 30.34 2.14 580.28
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drying expense Fuel & oil Repairs Custom hire Land rent Machinery leases Hauling and trucking Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	34.40 81.37 43.87 31.21 0.52 18.56 35.88 3.04 75.94 0.58 1.00 5.92 0.93 333.22 247.05
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	10.91 15.50 4.05 8.25 5.01 3.05 2.97 40.53 7.91 98.18 431.40 148.88
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	2.45 151.33 37.77 113.56
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	4.69 6.07 5.56 6.09
Net value per unit Machinery cost per acre Est. labor hours per acre	7.69 111.24 1.33

### Beans, Pinto on Owned Land

	Avg. Of All Farms
Number of farms	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	115.40 16.13 100.00 37.62 606.98 16.21 5.00 628.18
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	71.46 55.39 59.57 28.02 22.39 31.81 3.77 1.84 6.72 1.91 282.89 345.29
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	8.32 20.50 6.90 12.08 7.03 5.60 0.67 78.15 44.79 4.86 188.90 471.78 156.40
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	156.40 47.52 108.88
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	17.53 29.24 27.93 30.87
Net value per unit Machinery cost per acre Est. labor hours per acre	37.62 119.03 1.39

### Beans, Pinto on Cash Rent

	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	561.93 13.66 100.00 39.69 542.31 21.62 7.01 570.94
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	61.73 39.63 75.65 42.16 17.76 31.11 0.20 90.95 1.48 9.00 2.46 372.12 198.81
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	14.94 17.90 10.38 6.37 4.97 0.96 1.95 47.10 4.60 109.18 481.30 89.63
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	89.63 48.20 41.43
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	27.23 35.23 33.13 36.66
Net value per unit Machinery cost per acre Est. labor hours per acre	39.69 120.89 1.26

### Canola on Owned Land

	Avg. Of All Farms
Number of farms	19
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	234.01 18.90 100.00 28.84 545.20 17.01 0.16 562.37
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	62.55 103.80 44.37 25.12 17.21 31.79 7.60 1.50 0.57 294.51 267.86
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	0.55 15.46 1.44 0.30 6.02 5.15 3.16 1.95 16.79 31.42 3.55 85.81 380.32 182.05
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	1.48 183.53 35.79 147.74
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	15.58 20.12 19.13 21.03
Net value per unit Machinery cost per acre Est. labor hours per acre	28.84 87.86 1.21

### Canola on Cash Rent

	Avg. Of All Farms	_ Low 20%	40 - 60%	_ High 20%
Number of farms	27	5	6	6
Acres Yield per acre (cwt.) Operators share of yield % Value per cwt. Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	360.08 18.58 100.00 28.32 526.38 16.57 0.13 543.08	330.91 15.20 100.00 26.34 400.33 28.12 - 428.45	202.82 18.33 100.00 28.43 520.97 7.98	634.61 20.10 100.00 29.51 593.20 0.32 593.52
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	65.94 97.57 48.26 29.53 18.81 33.02 4.06 52.08 3.15 3.41 355.83 187.24	75.40 131.13 62.57 23.94 16.88 36.48 5.11 49.98 1.51 -	56.68 106.91 45.39 21.91 22.43 29.14 7.71 48.33 2.53 341.03 187.92	64.00 92.78 45.52 33.71 16.33 26.82 5.03 55.05 1.19 8.61 349.04 244.47
Overhead Expenses Custom hire Hired labor Machinery leases Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	1.53 9.17 4.00 1.61 6.12 3.21 1.20 4.39 36.77 5.96 73.96 429.79 113.29	0.63 0.35 0.51 0.25 5.70 2.54 1.29 0.94 24.71 3.10 40.03 443.03 -14.58	0.00 7.18 4.33 0.08 8.24 4.45 1.28 1.93 46.42 6.47 80.38 421.41	0.28 9.51 6.04 3.59 4.83 2.31 0.57 5.85 27.26 3.95 64.19 413.23 180.28
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	0.90 114.18 45.54 68.64	1.66 -12.93 39.85 -52.78	0.95 108.49 41.43 67.05	1.22 181.50 54.73 126.77
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	19.15 23.13 22.18 24.63	26.52 29.15 27.19 29.81	18.61 22.99 22.51 24.77	17.36 20.56 20.48 23.20
Net value per unit Machinery cost per acre Est. labor hours per acre	28.32 97.69 1.33	26.34 79.31 1.08	28.43 106.95 1.44	29.51 81.86 0.92

### Corn on Owned Land

	Avq. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	54	10	11	11
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	226.65 147.61 100.00 6.24 0.07 920.94 0.58 10.75 1.10 933.38	138.87 116.77 100.00 5.83 680.64 - 25.82 1.16 707.62	203.16 132.11 100.00 6.45 0.39 852.01 - 0.10 3.93 856.04	302.49 181.15 100.00 6.36 - 1,151.42 2.27 0.11 0.20 1,154.00
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	89.96 173.33 42.91 32.29 5.07 29.25 59.74 4.04 0.25 8.20 1.74 446.78 486.60	85.98 176.75 34.48 26.03 2.18 29.93 69.46 6.23 2.16 12.34 5.75 451.27 256.35	94.22 189.73 44.54 32.30 7.30 23.11 50.05 3.53 - 5.62 1.61 452.01 404.03	91.01 209.23 27.31 31.82 11.40 30.76 69.66 2.47 - 8.54 0.15 482.36 671.64
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	6.71 27.55 6.96 17.56 9.06 5.81 4.04 46.40 88.21 8.65 220.95 667.73 265.66	0.34 23.84 6.18 21.38 8.78 6.22 2.83 41.61 99.61 10.43 221.21 672.48 35.14	0.91 8.06 0.38 16.57 6.97 6.20 2.02 28.28 99.05 7.70 176.14 628.15 227.88	9.25 19.32 4.61 17.44 9.91 5.63 3.98 47.35 81.33 7.78 206.61 688.97 465.03
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	2.24 267.90 52.00 215.90	1.31 36.45 40.42 -3.97	4.68 232.56 57.39 175.17	465.03 56.38 408.65
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	3.03 4.52 4.42 4.78	3.86 5.76 5.52 5.86	3.42 4.75 4.69 5.12	2.66 3.80 3.79 4.10
Net value per unit Machinery cost per acre Est. labor hours per acre	6.24 194.17 1.87	5.83 210.85 2.09	6.45 175.67 1.90	6.37 197.50 1.74

### Corn on Cash Rent

	Ava. Of _All Farms	Low 20%	40 - 60%	_High 20%
Number of farms	71	14	14	15
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Other product return per acre Total product return per acre Hedding gains/losses per acre Crop insurance per acre Other crop income per acre Gross return per acre	591.41 141.67 100.00 6.09 0.70 863.45 6.08 12.17 1.54 883.23	501.98 141.92 100.00 5.78 820.51 0.12 27.21	527.17 122.69 100.00 6.11 749.56 27.70	705.19 165.02 100.00 6.29 - 1,038.64 0.49 0.34 1.77 1,041.25
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drving expense Fuel & oil Repairs Custom hire Hired labor Land rent Stock/quota lease Utilities Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	87.72 169.39 35.80 28.10 2.04 30.70 60.03 2.92 0.19 122.54 1.59 0.25 9.06 1.42 551.77 331.46	95.94 200.03 42.66 30.51 1.12 31.09 89.32 3.91 1.14 211.73	85.44 157.54 39.25 32.37 6.70 27.09 43.91 6.23 	87.51 184.82 28.83 31.29 2.44 32.55 53.09 2.99 - 113.95 - 5.85 0.82 544.13 497.11
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	6.76 35.07 6.03 0.33 8.48 5.29 4.98 3.18 82.04 6.45 158.61 710.38 172.86	14.32 33.50 5.88 0.57 9.88 5.70 6.91 3.76 122.32 8.21 211.04 933.37 -85.53	10.56 27.43 7.56 7.43 3.85 2.71 3.20 51.97 8.13 122.84 645.43 131.84	0.71 27.01 8.44 0.01 7.63 4.93 5.02 1.41 69.51 5.09 129.76 673.90 367.35
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	2.68 175.53 52.78 122.75	-85.53 48.46 -133.98	1.11 132.95 54.16 78.79	1.06 368.41 60.92 307.49
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	3.89 5.01 4.85 5.22	5.09 6.58 6.38 6.73	4.26 5.26 5.03 5.47	3.30 4.08 4.06 4.43
Net value per unit Machinerv cost per acre Est. labor hours per acre	6.13 185.31 1.81	5.78 264.82 1.42	6.11 146.73 1.95	6.30 159.09 1.66

## Corn Silage 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 Gross return per acre	89.00 13.01 100.00 40.99 533.35 5.56 538.91
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	98.53 124.38 41.28 21.70 34.77 53.83 48.34 6.00 14.66 0.27 443.78 95.13
Overhead Expenses Custom hire Hired labor RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	4.73 26.25 10.42 5.01 6.16 3.61 29.21 56.40 10.33 152.11 595.89 -56.97
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	1.64 -55.34 47.82 -103.16
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	34.11 45.80 45.24 48.92 40.99
Machinery cost per acre Est. labor hours per acre	198.99 2.43

## Corn Silage 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 Crop insurance per acre Gross return per acre	121.84 18.38 100.00 42.24 776.48 1.92 778.39
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	102.95 139.89 36.56 21.99 32.85 48.40 19.59 4.71 97.45 6.08 0.13 510.60 267.79
Overhead Expenses Custom hire Hired labor Machinery leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	1.34 52.84 0.56 8.20 6.77 5.96 7.52 70.69 4.64 158.51 669.11 109.29
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	0.70 109.99 52.97 57.02
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 core	27.78 36.40 36.26 39.14 42.24
Machinery cost per acre Est. labor hours per acre	175.13 2.34

## CRP on Owned Land

	Avg. Of All Farms
Number of farms	16
Acres Gross return per acre	87.04 64.83
Direct Expenses Seed and plants Crop insurance Fuel & oil Repairs Miscellaneous Total direct expenses per acre Return over direct exp per acre	1.13 0.99 1.03 1.51 0.47 5.13 59.70
Overhead Expenses  Hired labor  Machinery leases  RE & pers. property taxes  Farm insurance Interest  Mach & bldg depreciation  Miscellaneous  Total overhead expenses per acre  Total dir & ovhd expenses per acre  Net return per acre	0.54 0.08 8.42 0.34 21.81 24.21 1.00 56.40 61.53 3.30
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	3.30 1.75 1.55
Net value per unit Machinery cost per acre Est. labor hours per acre	1.19 5.84 0.07

## CRP on Cash Rent

Number of farms	5
Acres 48.73	3
Gross return per acre 38.99	9
Direct Expenses	
Fuel & oil 0.4	-
Repairs 0.64	-
Land rent 49.83	
Miscellaneous 0.03	-
Total direct expenses per acre 50.92	
Return over direct exp per acre -11.93	3
Overhead Expenses	
Hired labor 0.7	-
Farm insurance 0.72	2
Utilities 0.39	5
Dues & professional fees 0.8	
Mach & bldg depreciation 0.7	7
Miscellaneous 1.6	
Total overhead expenses per acre 5.03	3
Total dir & ovhd expenses per acre 55.94	4
Net return per acre -16.96	6
Government payments 8.60	6
Net return with govt pmts -8.29	9
Labor & management charge 0.5	7
Net return over lbr & mgt -8.86	6
Net value per unit 33.84	4
Machinery cost per acre 2.0	7
Est. labor hours per acre 0.03	3

## Hay on Cash Rent

	Avg. Of All Farms
Number of farms	7
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	104.57 2.08 100.00 73.56 152.65 44.55 4.98 202.18
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Land rent Machinery leases Operating interest Total direct expenses per acre Return over direct exp per acre	8.56 0.86 4.36 5.73 10.69 17.04 5.13 33.08 0.11 1.18 86.72 115.46
Overhead Expenses Custom hire Hired labor Machinery leases Farm insurance Utilities Dues & professional fees Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	3.97 1.67 0.32 4.07 3.00 0.66 23.04 4.91 41.64 128.36 73.82
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	0.05 73.87 20.61 53.25
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	41.79 61.85 37.96 47.90
Net value per unit Machinery cost per acre Est. labor hours per acre	73.56 58.20 0.81

## Hay, Alfalfa 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 Gross return per acre	72.37 2.82 100.00 119.08 335.81 335.81
Direct Expenses Seed and plants Fertilizer Crop chemicals Fuel & oil Repairs Custom hire Machinery leases Operating interest Total direct expenses per acre Return over direct exp per acre	3.21 6.38 1.64 15.03 21.71 3.05 1.58 4.25 56.84 278.98
Overhead Expenses Custom hire Hired labor Machinery leases Building leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	3.57 4.33 2.31 0.04 6.29 3.96 5.87 3.39 31.94 17.37 0.81 79.90 136.73 199.08
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	199.08 19.44 179.64
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	20.15 48.49 48.49 55.38
Net value per unit Machinery cost per acre Est. labor hours per acre	119.08 66.75 0.93

## Hay, Alfalfa on Cash Rent

	Avg. Of All Farms
Number of farms	9
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Gross return per acre	163.31 2.66 100.00 115.23 306.10 306.10
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Land rent Operating interest Total direct expenses per acre Return over direct exp per acre	8.65 43.51 2.48 0.27 17.63 43.96 1.25 69.62 2.39 189.76 116.34
Overhead Expenses Custom hire Hired labor 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	1.68 8.81 0.11 0.27 8.31 6.03 8.90 5.22 23.43 3.08 65.84 255.60 50.50
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	50.50 24.33 26.17
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	71.44 96.22 96.22 105.38
Net value per unit Machinery cost per acre Est. labor hours per acre	115.23 92.20 0.77

## Hay, Grass on Owned Land

	Avg. Of All Farms
Number of farms	8
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Gross return per acre	101.81 0.81 100.00 72.62 59.12 59.12
Direct Expenses Seed and plants Fertilizer Crop chemicals Fuel & oil Repairs Custom hire Operating interest Total direct expenses per acre Return over direct exp per acre	3.77 3.53 0.79 16.33 16.38 1.32 1.46 43.58 15.54
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	1.59 5.96 3.54 1.35 1.45 0.53 10.75 12.76 3.73 41.66 85.24 -26.12
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	0.98 -25.14 19.68 -44.81
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	53.54 104.71 103.50 127.67 72.62 49.05 0.82

## Hay, Grass on Cash Rent

	Avg. Of All Farms
Number of farms	12
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Gross return per acre	272.43 1.76 100.00 70.70 124.63 124.63
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Land rent Operating interest Total direct expenses per acre Return over direct exp per acre	1.56 2.13 1.44 0.08 12.57 20.75 0.92 23.16 2.63 65.24 59.39
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	0.09 7.01 1.00 1.50 1.67 1.19 0.69 14.36 8.47 35.99 101.23 23.40
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	0.52 23.92 19.71 4.20
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	37.01 57.42 57.13 68.31
Net value per unit Machinery cost per acre Est. labor hours per acre	70.70 48.23 0.81

## Hay, Mixed Alfalfa/Grass on Owned Land

Avg. Of All Farms
5
148.65 1.95 100.00 80.78 157.40 157.40
9.75 18.50 0.60 4.75 33.60 123.81
3.67 6.37 0.96 4.25 2.71 2.65 0.31 5.17 12.77 0.58 39.46 73.06 84.35
84.35 14.34 70.01
17.24 37.49 37.49 44.85 80.78 46.46 0.76

## Hay, Mixed Alfalfa/Grass on Cash Rent

	Avg. Of All Farms
Number of farms	10
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Gross return per acre	181.22 1.27 100.00 78.18 99.23 99.23
Direct Expenses Fuel & oil Repairs Custom hire Land rent Operating interest Total direct expenses per acre Return over direct exp per acre	11.87 19.97 3.12 25.25 5.87 66.08 33.15
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	1.73 5.04 4.04 3.79 3.82 7.27 19.26 1.04 45.99 112.07 -12.84
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	-12.84 16.69 -29.53
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	52.06 88.30 88.30 101.45
Machinery cost per acre Est. labor hours per acre	62.47 0.80

## Hay, Small Grain on Owned Land

	Avg. Of All Farms
Number of farms	7
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Gross return per acre	75.70 1.83 100.00 74.47 136.54 136.54
Direct Expenses  Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Operating interest Total direct expenses per acre Return over direct exp per acre	20.27 13.17 6.75 0.70 14.43 28.93 6.69 5.03 95.98 40.57
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	3.80 6.02 2.88 8.63 4.05 3.39 2.66 24.41 17.41 6.18 79.43 175.41 -38.87
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	0.88 -37.98 22.36 -60.35
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	52.35 95.67 95.19 107.38
Net value per unit Machinery cost per acre Est. labor hours per acre	74.47 76.53 1.02

## Hay, Small Grain 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 Gross return per acre	100.76 2.12 100.00 69.03 146.48 146.48
Direct Expenses Seed and plants Fertilizer Crop chemicals Fuel & oil Repairs Custom hire Land rent Operating interest Total direct expenses per acre Return over direct exp per acre	24.29 11.02 8.35 12.18 23.25 2.20 39.97 3.83 125.10 21.37
Overhead Expenses Custom hire Hired labor Machinery leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	1.44 4.87 2.07 4.47 3.22 2.16 3.86 15.54 3.02 40.66 165.76 -19.28
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	0.05 -19.23 18.42 -37.66
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	58.95 78.11 78.09 86.77
Net value per unit Machinery cost per acre Est. labor hours per acre	69.03 59.68 0.94

## 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 Gross return per acre	149.63 110.96 100.00 3.64 9.77 413.20 7.51 420.72
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	27.20 79.76 26.01 20.34 25.58 30.21 10.56 51.60 2.72 1.14 275.12 145.59
Overhead Expenses Custom hire Hired labor Machinery leases Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	1.49 5.45 1.72 0.91 4.92 1.84 1.03 3.56 16.64 7.49 45.05 320.18 100.54
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	0.25 100.79 43.90 56.89
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	2.48 2.89 2.73 3.12
Net value per unit Machinery cost per acre Est. labor hours per acre	3.64 87.65 1.40

#### Pasture on Owned Land

	Avg. Of All Farms	High 20%
Number of farms	23	5
Acres Yield per acre (aum)	504.74 0.84	586.18 1.15
Operators share of yield % Value per aum	100.00 24.97	100.00 28.10
Total product return per acre Crop insurance per acre	20.94 0.26	32.27
Other crop income per acre Gross return per acre	0.98 22.18	3.58 35.85
Direct Expenses	4.00	
Crop chemicals Crop insurance	1.22 0.72	-
Fuel & oil	0.53	0.50
Repairs	0.94	0.94
Miscellaneous Total direct expenses per acre	0.12 3.54	0.04 1.48
Return over direct exp per acre	18.65	34.36
Overhead Expenses	0.40	0.40
RE & pers. property taxes Interest	3.13 5.53	3.10 3.61
Mach & bldg depreciation	0.76	1.15
Miscellaneous	1.16	1.54
Total overhead expenses per acre	10.57	9.40
Total dir & ovhd expenses per acre	14.11	10.89
Net return per acre	8.07	24.96
Government payments Net return with govt pmts	- 8.07	- 24.96
Labor & management charge	0.82	24.90 0.87
Net return over lbr & mgt	7.25	24.09
Cost of Production	4.00	4.00
Total direct expense per aum Total dir & ovhd exp per aum	4.22 16.82	1.29 9.48
Less govt & other income	15.34	6.37
With labor & management	16.32	7.12
Net value per unit	24.97	28.10
Machinery cost per acre	2.36	2.70
Est. labor hours per acre	0.04	0.05

#### Pasture on Cash Rent

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
				<u></u>
Number of farms	30	6	6	6
Acres	1,056.21	1,228.83	789.67	1,236.33
Yield per acre (aum)	0.87	0.84	0.54	1.03
Operators share of yield %	100.00	100.00	100.00	100.00
Value per aum	23.71	23.67	28.59	25.08
Total product return per acre	20.68	19.91	15.55	25.91
Crop insurance per acre	0.27	-	-	-
Other crop income per acre	0.18	-	0.06	0.72
Gross return per acre	21.13	19.91	15.60	26.64
Direct Expenses				
Crop insurance	0.47	0.57	-	-
Fuel & oil	0.57	0.67	0.54	0.68
Repairs	0.86	1.12	0.72	0.88
Land rent	18.24	22.84	15.17	15.73
Miscellaneous	0.15	0.25	0.11	0.09
Total direct expenses per acre	20.29	25.45	16.53	17.39
Return over direct exp per acre	0.84	-5.54	-0.93	9.25
Overhead Expenses				
Hired labor	0.27	0.39	0.07	0.58
Mach & bldg depreciation	0.87	1.01	0.37	1.40
Miscellaneous	0.88	1.33	0.43	0.78
Total overhead expenses per acre	2.02	2.73	0.87	2.76
Total dir & ovhd expenses per acre	22.31	28.18	17.40	20.15
Net return per acre	-1.18	-8.27	-1.80	6.49
Government payments	-	-	-	-
Net return with govt pmts	-1.18	-8.27	-1.80	6.49
Labor & management charge	1.00	0.98	0.97	1.27
Net return over lbr & mgt	-2.18	-9.25	-2.76	5.22
Cost of Production				
Total direct expense per aum	23.26	30.26	30.40	16.83
Total dir & ovhd exp per aum	25.58	33.50	32.00	19.50
Less govt & other income	25.06	33.50	31.90	18.80
With labor & management	26.21	34.67	33.67	20.03
Net value per unit	23.71	23.67	28.59	25.08
Machinery cost per acre	2.37	3.01	1.86	2.93
Est. labor hours per acre	0.04	0.06	0.05	0.04

## Peas, Dry Edible on Cash Rent

	Avg. Of All Farms
Number of farms	7
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Crop insurance per acre Gross return per acre	379.91 31.63 100.00 11.21 354.64 12.11 366.75
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	59.63 8.77 48.58 21.80 23.54 58.13 3.36 56.40 6.21 4.58 291.00 75.75
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	13.01 8.75 15.01 1.63 7.57 3.20 1.08 6.34 77.45 9.68 143.73 434.73 -67.98
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	0.07 -67.91 45.46 -113.37
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	9.20 13.74 13.36 14.80
Net value per unit Machinery cost per acre Est. labor hours per acre	11.21 192.59 1.62

## Prevented planting on Owned Land

	Avg. Of All Farms	40 - 60%	High 20%
Number of farms	22	5	5
Acres Gross return per acre	150.40 289.09	106.54 239.93	107.26 431.47
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	5.68 5.51 17.96 24.80 7.70 15.35 0.89 1.13 0.71 79.73 209.36	0.35 - 3.87 14.86 7.35 25.82 - 0.74 - 53.00 186.93	3.71 - 1.43 33.44 6.65 8.73 - 2.29 - 56.25 375.22
Overhead Expenses Custom hire Hired labor Machinery leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	0.25 5.69 0.44 9.04 6.38 4.40 2.20 38.35 14.54 5.44 86.74 166.47 122.62	1.23 0.13 6.74 4.67 5.01 2.10 29.57 9.46 4.71 63.62 116.62 123.31	0.50 9.95 1.76 15.11 12.58 4.34 4.00 35.70 16.05 4.80 104.79 161.03 270.44
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	0.73 123.35 16.39 106.97	0.11 123.41 14.67 108.75	270.44 11.97 258.47
Net value per unit Machinery cost per acre Est. labor hours per acre	540.68 41.98 0.58	1.00 50.86 0.51	542.24 35.95 0.41

## Prevented planting on Cash Rent

	Avg. Of All Farms	<u>Low 20%</u>	40 - 60%	<u> High 20%</u>
Number of farms	35	7	7	7
Acres	259.08	194.53	218.22	179.70
Gross return per acre	283.77	115.47	239.83	429.80
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	3.42 0.84 14.88 25.27 6.75 13.51 0.60 78.16 1.84 0.25 145.52	4.48 4.82 26.32 30.07 8.92 15.24 0.77 164.73 1.79 0.38 257.52	0.64 0.99 14.19 7.71 22.38 - 42.83 1.75 - 90.49	7.05 2.58 14.41 5.65 9.75 0.56 83.39 1.76 0.30 125.44
Return over direct exp per acre	138.25	-142.05	149.33	304.35
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	2.17	3.36	0.15	0.49
	5.57	5.86	1.00	3.28
	1.82	0.36	1.56	0.20
	6.67	10.33	7.88	7.91
	4.12	5.20	3.92	6.58
	2.41	2.01	1.88	2.73
	1.65	2.43	2.24	2.31
	15.93	19.22	11.99	12.76
	6.09	15.04	5.79	7.29
	46.42	63.78	36.43	43.54
	191.94	321.30	126.92	168.98
	91.83	-205.83	112.90	260.81
Government payments	0.76	3.09	0.49	1.18
Net return with govt pmts	92.58	-202.74	113.39	262.00
Labor & management charge	15.49	24.16	14.56	10.58
Net return over lbr & mgt	77.09	-226.90	98.84	251.41
Net value per unit	551.91	-	1.00	574.94
Machinery cost per acre	41.30	48.46	45.60	29.79
Est. labor hours per acre	0.58	1.18	0.50	0.35

Soybeans on Owned Land

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	73	14	14	15
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Hedging gains/losses per acre Crop insurance per acre LDP income per acre Other crop income per acre Gross return per acre	341.61 37.87 100.00 13.86 524.97 0.13 8.66 0.17 1.71 535.64	263.58 30.82 100.00 13.32 410.52 0.12 9.28	431.51 32.11 100.00 13.97 448.70 5.01 2.69 456.41	367.13 48.28 100.00 14.17 684.07 0.52 8.05 - 0.15 692.78
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	61.40	62.78	65.31	57.19
	11.23	10.13	13.17	5.04
	45.92	45.43	37.04	41.36
	25.24	26.17	23.72	26.98
	17.51	19.22	14.73	18.46
	34.42	39.77	27.78	29.69
	3.84	6.09	5.95	2.76
	0.78	1.75	0.22	0.04
	4.00	5.78	3.04	1.28
	0.68	0.11	0.54	0.39
	205.02	217.22	191.49	183.18
	330.62	203.54	264.91	509.60
Overhead Expenses Custom hire Hired labor Machinery leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	1.84	2.90	2.94	2.86
	15.32	32.85	7.50	17.23
	3.12	3.02	3.92	2.26
	13.91	11.33	9.65	19.76
	8.17	7.37	6.55	8.86
	5.38	8.25	3.27	6.12
	3.60	6.30	2.46	3.63
	38.29	52.52	31.04	24.92
	52.18	57.91	37.16	63.90
	7.18	7.93	7.66	3.86
	148.99	190.38	112.16	153.38
	354.01	407.60	303.65	336.56
	181.63	13.16	152.76	356.22
Government payments	1.76	0.26	2.73	0.02
Net return with govt pmts	183.39	13.42	155.49	356.25
Labor & management charge	36.53	40.49	35.71	35.09
Net return over lbr & mgt	146.86	-27.08	119.77	321.16
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	5.41	7.05	5.96	3.79
	9.35	13.23	9.46	6.97
	9.02	12.89	9.13	6.79
	9.98	14.20	10.24	7.52
Net value per unit	13.87	13.32	13.97	14.18
Machinery cost per acre	114.06	133.52	90.18	119.18
Est. labor hours per acre	1.24	1.74	1.19	1.24

Soybeans on Cash Rent

	Avq. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	110	22	22	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 LDP income per acre Other crop income per acre Gross return per acre	661.43 36.22 100.00 13.56 491.18 0.49 7.80 0.38 1.04 500.90	579.68 32.58 100.00 12.04 392.10 0.26 20.11 	529.48 34.05 100.00 13.57 462.12 12.29 2.39 0.79 477.59	729.44 43.63 100.00 13.96 609.04 1.82 3.44 0.26 614.56
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	59.09 11.39 44.62 22.51 18.14 34.47 1.72 0.24 94.27 0.79 4.89 0.82 292.95 207.95	56.62 11.23 54.91 25.91 22.04 48.72 1.79 1.38 128.37 2.06 8.28 1.06 362.37 52.43	58.53 7.47 44.35 20.39 17.55 34.95 2.58 81.01 0.49 1.57 1.67 270.56 207.03	62.32 11.82 41.81 22.44 18.38 26.99 94.94 0.49 2.70 0.81 282.70 331.85
Overhead Expenses Custom hire Hired labor Machinery leases Farm insurance Utilities Dues & professional fees Interest Mach & bldq depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	2.21	4.46	1.76	0.16
	16.37	20.93	13.08	13.19
	3.49	3.50	2.89	4.10
	7.54	9.13	6.60	7.36
	4.18	4.99	4.32	3.83
	3.65	4.16	3.91	4.14
	3.00	5.98	2.26	0.96
	44.90	50.92	39.22	43.93
	6.63	7.00	9.99	3.93
	91.97	111.07	84.04	81.60
	384.92	473.44	354.60	364.30
	115.98	-58.64	123.00	250.25
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	1.96	1.55	1.70	0.21
	117.94	-57.09	124.70	250.47
	34.44	31.88	38.11	35.86
	83.50	-88.97	86.59	214.61
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	8.09	11.12	7.95	6.48
	10.63	14.53	10.41	8.35
	10.31	13.79	9.91	8.22
	11.26	14.77	11.03	9.04
Net value per unit	13.59	12.04	13.64	14.00
Machinery cost per acre	105.03	136.36	97.71	90.03
Est. labor hours per acre	1.16	1.14	1.31	1.12

## Soybeans, Food on Cash Rent

	Avg. Of All Farms
Number of farms	6
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Crop insurance per acre Gross return per acre	315.32 27.11 100.00 17.76 481.60 5.13 486.73
Direct Expenses  Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Land rent Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	29.94 1.92 46.24 18.72 23.44 56.76 100.80 0.68 8.22 1.00 287.72 199.02
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	6.60 9.70 20.21 0.54 12.37 6.31 5.89 7.91 65.95 1.35 136.84 424.56 62.18
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	62.18 30.79 31.38
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management  Net value per unit Machinery cost per acre Est. labor hours per acre	10.61 15.66 15.47 16.60 17.76 179.73 0.99

## Sugar Beets on Owned Land

	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	132.29 21.85 100.00 55.60 1,215.16 29.40 8.00 1,252.56
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	238.53 145.31 120.56 34.07 74.58 152.94 2.76 7.83 13.77 1.20 791.56 461.00
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	3.29 50.72 22.59 28.38 14.30 5.67 4.55 40.32 271.75 21.00 462.56 1,254.12 -1.56
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	-1.56 99.78 -101.34
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	36.22 57.38 55.67 60.24
Net value per unit Machinery cost per acre Est. labor hours per acre	55.60 520.99 5.06

## Sugar Beets 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 Crop insurance per acre Other crop income per acre Gross return per acre	312.23 23.52 100.00 53.82 1,265.61 8.53 6.37 1,280.52
Direct Expenses  Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Hired labor Land rent Marketing Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	244.90 133.32 115.64 28.51 85.36 179.38 7.24 4.48 136.77 10.54 21.86 0.81 968.81 311.71
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	13.01 49.21 7.06 5.00 1.68 11.44 3.91 6.63 5.27 195.58 7.33 306.11 1,274.92 5.61
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	5.61 90.20 -84.60
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	41.20 54.22 53.58 57.42
Net value per unit Machinery cost per acre Est. labor hours per acre	53.82 476.48 4.29

#### Sunflowers on Owned Land

	Avg. Of All Farms
Number of farms	14
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	238.54 21.92 100.00 26.64 583.99 1.30 1.56 586.84
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	38.68 63.89 46.25 21.38 1.05 16.23 26.80 15.17 0.80 0.14 230.39 356.44
Overhead Expenses Custom hire Hired labor Machinery leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	2.51 9.40 1.28 7.97 5.19 3.38 1.68 14.53 42.48 7.52 95.94 326.33 260.51
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	1.49 262.00 43.09 218.90
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	10.51 14.88 14.69 16.65
Net value per unit Machinery cost per acre Est. labor hours per acre	26.64 101.48 1.37

#### Sunflowers on Cash Rent

	Avg. Of All Farms
Number of farms	19
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	559.55 22.84 100.00 28.22 644.47 4.33 0.93 649.74
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	38.09 70.91 56.79 23.23 0.46 20.75 37.60 8.44 0.64 72.68 0.23 2.25 0.62 332.68 317.06
Overhead Expenses Custom hire Hired labor Machinery leases Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	4.95 13.38 1.71 0.80 6.80 3.53 3.44 1.43 45.97 5.30 87.29 419.97 229.77
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	1.23 230.99 41.32 189.67
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	14.57 18.39 18.10 19.91
Net value per unit Machinery cost per acre Est. labor hours per acre	28.22 114.94 1.28

## Wheat, Durum on Owned Land

	Avg. Of All Farms
Number of farms	5
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Gross return per acre	109.37 52.56 100.00 10.18 535.16 535.16
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	35.66 110.32 58.37 24.55 16.41 36.11 3.73 0.19 285.33 249.83
Overhead Expenses Custom hire Hired labor RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	7.38 16.56 6.31 5.34 3.29 3.71 14.05 29.96 3.87 90.47 375.80 159.36
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	0.12 159.48 30.14 129.34
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management  Net value per unit Machinery cost per acre Est. labor hours per acre	5.43 7.15 7.15 7.72 10.18 90.50 1.17
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## Wheat, Durum on Cash Rent

	Avg. Of All Farms
Number of farms	10
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Other product return per acre Total product return per acre Crop insurance per acre Gross return per acre	519.37 49.84 100.00 10.77 4.16 540.89 15.22 556.11
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Land rent Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	47.94 91.78 56.21 24.38 14.86 33.02 52.05 0.28 4.93 0.62 326.08 230.03
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	11.71 10.70 3.31 4.40 3.13 4.01 4.69 28.85 4.06 74.86 400.95 155.16
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	0.82 155.99 30.89 125.10
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	6.54 8.04 7.64 8.26
Net value per unit Machinery cost per acre Est. labor hours per acre	10.77 93.96 1.02

Wheat, Spring on Owned Land

	Avq. Of _All Farms	Low 20%	40 - 60%	High 20%
Number of farms	56	11	11	12
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	310.87 58.93 100.00 8.76 0.21 516.63 0.16 3.94 1.87 522.62	199.59 46.78 100.00 8.71 - 407.32 - 0.07 1.28 408.68	208.16 54.20 100.00 8.49 - 460.41 1.09 0.79 5.79 468.07	513.77 68.41 100.00 8.98 0.10 614.68 - 1.45 616.13
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drying expense Fuel & oil Repairs Custom hire Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	25.61 112.18 41.76 23.43 0.32 16.55 29.97 4.37 0.97 2.11 0.68 257.95 264.67	23.71 136.67 35.07 27.93 0.04 18.76 44.30 1.88 - 4.84 1.71 294.91 113.77	26.53 90.53 44.12 25.72 18.42 28.62 10.96 0.35 2.08 0.81 248.14 219.93	24.98 115.29 43.70 20.56 0.89 14.48 21.81 2.12 - 1.19 0.73 245.77 370.36
Overhead Expenses Custom hire Hired labor Machinery leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	1.19	1.89	5.04	0.51
	8.94	13.04	6.64	11.47
	2.09	2.78	1.54	0.92
	9.59	11.81	6.52	9.06
	6.74	7.48	6.60	5.83
	4.34	6.48	3.46	3.22
	1.57	1.00	0.39	1.29
	22.49	35.38	22.48	17.19
	41.40	50.28	33.13	42.82
	7.28	8.78	6.86	5.54
	105.63	138.93	92.66	97.85
	363.57	433.83	340.81	343.62
	159.04	-25.15	127.27	272.51
Government payments	3.08	1.60	3.31	2.85
Net return with govt pmts	162.12	-23.55	130.57	275.35
Labor & management charge	37.46	39.52	33.10	37.74
Net return over lbr & mgt	124.66	-63.07	97.47	237.61
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	4.38	6.30	4.58	3.59
	6.17	9.27	6.29	5.02
	6.01	9.21	6.09	4.96
	6.65	10.06	6.70	5.51
Net value per unit	8.77	8.71	8.51	8.98
Machinery cost per acre	94.52	119.07	96.61	77.98
Est. labor hours per acre	1.20	1.59	1.05	1.07

Wheat, Spring on Cash Rent

	Avg. Of _All Farms	_ Low 20%	40 - 60%	High 20%
Number of farms	83	16	16	17
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	558.30 57.16 100.00 8.85 0.05 505.91 0.84 6.14 2.68 515.56	435.84 43.07 100.00 8.95 	395.66 55.31 100.00 8.62 0.36 477.21 - 11.31 2.39 490.91	778.71 66.96 100.00 9.18 614.72 0.26 4.70 619.69
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drying expense Fuel & oil Repairs Custom hire Land rent Machinery leases Marketing Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	25.71 111.17 45.98 22.86 0.20 16.16 30.80 3.98 67.03 0.92 0.39 3.05 1.26 329.51 186.06	30.00 126.22 36.61 29.70 - 18.25 41.58 1.03 84.13 1.01 2.13 6.14 0.38 377.18 21.89	26.50 100.53 39.36 19.65 0.66 18.73 25.70 6.06 60.65 0.90 - 1.02 0.30 300.07 190.84	23.34 111.02 52.80 22.26 0.38 14.99 26.69 3.52 60.96 1.59 2.32 1.92 321.79 297.90
Overhead Expenses Custom hire Hired labor Machinery leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	1.61	2.47	4.59	0.03
	10.99	9.61	10.85	17.14
	3.09	8.95	3.88	1.30
	6.06	8.13	5.57	5.63
	4.34	8.92	3.20	4.34
	1.64	3.68	0.90	1.26
	2.83	4.01	2.75	1.54
	38.76	41.42	51.86	39.49
	6.84	8.52	6.64	5.25
	76.15	95.71	90.24	75.98
	405.65	472.89	390.31	397.77
	109.91	-73.82	100.60	221.91
Government payments	3.49	0.98	1.48	7.93
Net return with govt pmts	113.40	-72.84	102.08	229.84
Labor & management charge	37.11	28.15	40.05	39.17
Net return over lbr & mgt	76.29	-100.99	62.03	190.67
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	5.77	8.76	5.43	4.81
	7.10	10.98	7.06	5.94
	6.87	10.64	6.78	5.75
	7.52	11.29	7.50	6.33
Net value per unit	8.87	8.95	8.62	9.18
Machinery cost per acre	94.46	114.51	112.27	85.10
Est. labor hours per acre	1.18	1.11	1.64	1.16

#### **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. Of All Farms	
Number of farms		20
Beef Calves sold (lb) Transferred out (lb) Cull sales (lb) Insurance income Government payments Other income Purchased (lb)	Quantity 43.82 47.42 4.33	Value 85.05 92.90 35.32 0.04 0.74 3.35 -50.28
Transferred in (lb) Inventory change (lb) Gross margin	-19.68 23.79	-46.37 70.95 191.69
Direct Expenses Protein Vit Minerals (lb.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) Hay (lb.) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Operating interest Miscellaneous Total direct expenses	37.35 1,732.24 194.94 1,010.76 1.01 280.14 369.53	5.81 27.61 9.35 34.57 23.69 10.36 12.46 7.43 2.35 8.56 14.29 3.69 4.34 164.52
Return over direct expense  Overhead Expenses Custom hire Hired labor Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		0.59 7.03 3.11 3.92 14.98 11.07 40.70 205.22 -13.53
Labor & management charge Net return over lbr & mgt		25.37 -38.90
Cost of Production Per Cwt. Produced Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management		164.51 205.20 216.61 241.98
Est. labor hours per unit		1.34
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 Cows per FTE Average weaning weight Lb. weaned/exposed female Feed cost per cow Avg wgt/ Beef Calves sold Avg price / cwt.		222.2 94.5 2.1 14.5 92.4 85.3 0.72 6.6 1.6 581.2 521 445 443.78 549 194.09

## Beef Cow-Calf -- Average Per Cow

	Avg. All Fai	
Number of farms		20
Beef Calves sold (lb) Transferred out (lb) Cull sales (lb) Insurance income Government payments Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 157.0 169.9 15.5	Value 304.76 332.88 126.57 0.13 2.65 12.00 -180.16 -166.16 254.23 686.89
Direct Expenses Protein Vit Minerals (lb.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Oatlage (lb.) Pasture (aum) Hay (lb.) Other feed stuffs (lb) Veterinary Fuel & oil Repairs Operating interest Miscellaneous Total direct expenses Return over direct expense	133.9 6,207.1 698.5 3,621.8 560.2 3.6 1,003.8 763.9	20.81 98.94 33.50 123.88 7.00 84.88 37.14 37.64 26.64 30.68 51.22 13.23 23.98 589.52 97.36
Overhead Expenses  Hired labor Farm insurance Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		25.20 12.85 14.04 53.69 40.05 145.83 735.35 -48.47
Labor & management charge Net return over lbr & mgt		90.91 -139.38
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		164.51 205.20 216.61 241.98
Est. labor hours per unit		4.82
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 Cows per FTE Average weaning weight Lb. weaned/exposed female Feed cost per cow Avg wgt/ Beef Calves sold Avg price / cwt.		222.2 94.5 2.1 14.5 92.4 85.3 0.72 6.6 1.6 581.2 521 445 443.78 549 194.09

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

	Avg. Of All Farms		
Number of farms		14	
Beef Calves sold (lb) Transferred out (lb) Cull sales (lb) Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 62.25 12.85 - -0.03 - 24.93	Value 103.46 20.62 43.96 -54.25 -25.45 80.18 168.51	
Pirect Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Oats (bu.) Pasture (aum) DDGS, dry (lb.) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Operating interest Miscellaneous Total direct expenses Return over direct expense	5.46 23.05 606.81 138.49 1,140.07 0.40 1.30 28.56 298.58	3.30 1.57 9.26 5.03 32.24 2.12 27.03 3.84 11.21 6.87 4.29 8.08 14.47 2.25 2.97 134.53 33.98	
Overhead Expenses Hired labor Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		5.43 4.62 7.13 9.78 26.96 161.49 7.02	
Labor & management charge Net return over lbr & mgt		29.54 -22.52	
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		134.53 161.49 173.13 202.67	
Est. labor hours per unit		1.53	
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 Cows per FTE Average weaning weight Lb. weaned/exposed female Feed cost per cow Avg wgt/ Beef Calves sold Avg price / cwt.		95.4 93.6 0.1 21.9 93.4 83.4 0.57 11.8 2.5 382.0 535 446 458.55 641 166.20	

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

	Avg. Of All Farms		
Number of farms		14	
Beef Calves sold (lb) Transferred out (lb) Cull sales (lb) Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 298.6 61.7 - -0.1 - 119.6	Value 496.24 98.91 210.87 -260.21 -122.08 384.57 808.30	
Pirect Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn Silage (lb.) Hay, Grass (lb.) Oats (bu.) Pasture (aum) DDGS, dry (lb.) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Operating interest Miscellaneous Total direct expenses Return over direct expense	26.2 110.6 2,910.6 5,468.5 1.9 6.2 137.0 2,096.5	15.85 7.52 44.40 154.66 10.17 129.66 18.40 77.89 32.95 20.59 38.77 69.38 10.79 14.25 645.30 163.00	
Overhead Expenses  Hired labor Farm insurance Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		26.03 10.70 22.16 34.18 36.24 129.30 774.60 33.70	
Labor & management charge Net return over lbr & mgt		141.70 -108.00	
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		134.53 161.49 173.13 202.67	
Est. labor hours per unit		7.33	
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 Cows per FTE Average weaning weight Lb. weaned/exposed female Feed cost per cow Avg wgt/ Beef Calves sold Avg price / cwt.		95.4 93.6 0.1 21.9 93.4 0.57 11.8 2.5 382.0 535 446 458.55 641 166.20	

## Beef Replacement Heifers -- Average Per Head

	Avg. All Fa	
Number of farms		5
	Quantity	Value
Beef Replace sold (hd) Transferred out (hd)	0.33 1.06	392.70 929.57
Purchased (hd)	0.20	-271.73
Transferred in (hd)	0.65	-130.46
Inventory change (hd) Gross margin	-0.58	-806.17 113.91
Gloss margin		113.91
Direct Expenses	400.07	44.70
Midds (lb.) Protein Vit Minerals (lb.)	163.67	14.79
` '	57.67	11.00 18.98
Corn (bu.) Corn Silage (lb.)	2.92	56.82
Hay, Alfalfa (lb.)	3,560.97 775.04	41.56
Hay, Grass (lb.)	3,312.77	108.06
Pasture (aum)	3,312.77 1.55	39.78
DDGS, dry (lb.)	86.65	10.18
Other feed stuffs (lb)	135.13	10.76
Veterinary	100.10	6.47
Supplies		1.96
Fuel & oil		11.70
Repairs		14.17
Operating interest		1.21
Miscellaneous		3.93
Total direct expenses		351.38
Return over direct expense		-237.47
Overhead Expenses Hired labor		8.92
Farm insurance		3.21
Utilities		3.87
Dues & professional fees		0.93
Mach & bldg depreciation		14.59
Miscellaneous		6.51
Total overhead expenses		38.05
Total dir & ovhd expenses		389.42
Net return		-275.51
Labor & management charge		28.05
Net return over lbr & mgt		-303.57
Cost of Production Per Head Sold/Trans		
Total direct expense per unit		1,123.07
Total dir& ovhd expense per unit		1,150.46
With other revenue adjustments		1,150.46
With labor and management		1,170.66
Est. labor hours per unit		1.62
Other Information		
No. purchased or trans in		71
Number sold or trans out		115
Average number of head		83
Percentage death loss		2.0
Feed cost per average head		311.93
Hired labor per average head		9.50
Feed cost/head sold/trans		224.60
Total cost/head sold/trans		1,170.66
Feed cost per head per day		0.85
Avg. purch price / head		1,328.18
Avg. sales price / head		1,190.88

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

	Avg. Of All Farms		
Number of farms		5	
Beef Replace sold (hd) Transferred out (hd) Purchased (hd) Transferred in (hd) Inventory change (hd) Gross margin	Quantity 0.2 0.8 0.1 0.5 -0.4	Value 282.76 669.32 -195.66 -93.93 -580.47 82.02	
Direct Expenses  Midds (lb.) Protein Vit Minerals (lb.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) DDGS, dry (lb.) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Utilities Miscellaneous Total direct expenses Return over direct expense	117.9 41.5 2.1 2,564.0 558.1 2,385.3 1.1 62.4 97.3	10.65 7.92 13.66 40.91 29.92 77.81 28.64 7.33 7.75 4.66 1.41 8.42 10.20 0.26 3.44 253.00 -170.99	
Overhead Expenses  Hired labor Farm insurance Utilities Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		6.42 2.31 2.79 10.51 5.36 27.39 280.40 -198.38	
Labor & management charge Net return over lbr & mgt		20.20 -218.58	
Cost of Production Per Head Sold/Trans Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management		1,123.07 1,150.46 1,150.46 1,170.66	
Est. labor hours per unit		1.17	
Other Information No. purchased or trans in Number sold or trans out Average number of head Percentage death loss Feed cost per average head Hired labor per average head Feed cost/head sold/trans Total cost/head sold/trans Feed cost per head per day Avg. purch price / head Avg. sales price / head		71 115 83 2.0 311.93 9.50 224.60 1,170.66 0.85 1,328.18 1,190.88	

## Beef Backgrounding -- Average Per Cwt. Produced

	Avg. All Fa	
Number of farms		9
Backgnd Beef sold (lb) Transferred out (lb) Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 176.41 30.28 -41.27 -131.30 65.88	Value 262.56 53.12 -75.88 -249.92 150.58 140.45
Direct Expenses Midds (lb.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) Screenings, Light (lb.) DDGS, dry (lb.) DDGS, wet (lb.) Other feed stuffs (lb) Veterinary Fuel & oil Repairs Operating interest Miscellaneous Total direct expenses Return over direct expense	102.08 1.77 482.43 109.69 179.85 0.09 28.75 9.97 44.01 299.53	7.59 10.57 13.45 5.16 5.50 1.46 2.59 0.77 3.42 13.83 1.93 4.04 7.54 1.18 2.35 81.35 59.10
Overhead Expenses Hired labor Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		5.17 1.02 6.64 5.51 18.34 99.70 40.75
Labor & management charge Net return over lbr & mgt		9.50 31.25
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		124.14 133.01 133.01 137.61
Est. labor hours per unit		0.46
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  Hired labor per head  Average purchase weight  Avg wgt / Backgnd Beef sold  Avg purch price / cwt.  Avg sales price / cwt.		252 190 0.8 1.95 4.18 10.39 64.32 67.15 5.40 581 730 183.89 148.83

## Beef Backgrounding -- Average Per Head

	Avg. All Far		
Number of farms		9	
Backgnd Beef sold (lb) Transferred out (lb)	Quantity 184.2 31.6	Value 274.11 55.46	
Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	-43.1 -137.1 68.8	-79.22 -260.92 157.20 146.63	
Direct Expenses	106.6	7.02	
Midds (lb.) Protein Vit Minerals (lb.) Corn (bu.) Corn Silage (lb.)	106.6 2.3 1.8 503.7	7.93 1.78 11.04 14.04	
Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) DDGS, dry (lb.)	114.5 187.8 0.1 10.4	5.39 5.74 1.52 0.80	
Other feed stuffs (lb) Veterinary Fuel & oil	386.3	18.92 2.02 4.21	
Repairs Operating interest Miscellaneous Total direct expenses		7.87 1.23 2.45 84.93	
Return over direct expense		61.70	
Overhead Expenses Hired labor Farm insurance		5.40 1.49	
Interest Mach & bldg depreciation Miscellaneous		1.06 6.94 4.26	
Total overhead expenses Total dir & ovhd expenses Net return		19.15 104.08 42.55	
Labor & management charge Net return over lbr & mgt		9.92 32.63	
Cost of Production Per Cwt. Produced Total direct expense per unit		124.14	
Total dir& ovhd expense per unit With other revenue adjustments With labor and management		133.01 133.01 137.61	
Est. labor hours per unit		0.48	
Other Information		050	
No. purchased or trans in Number sold or trans out Percentage death loss Avg. daily gain (lb.)		252 190 0.8 1.95	
Lb. of conc / lb. of gain Lb. of feed / lb. of gain Feed cost per cwt. of gain		4.18 10.39 64.32	
Feed cost per head Hired labor per head Average purchase weight		67.15 5.40 581	
Avg wgt / Backgnd Beef sold Avg purch price / cwt. Avg sales price / cwt.		730 183.89 148.83	

## Figure 1. Gross Cash Income Per Farm

N.D. Farm Business Management Education Program

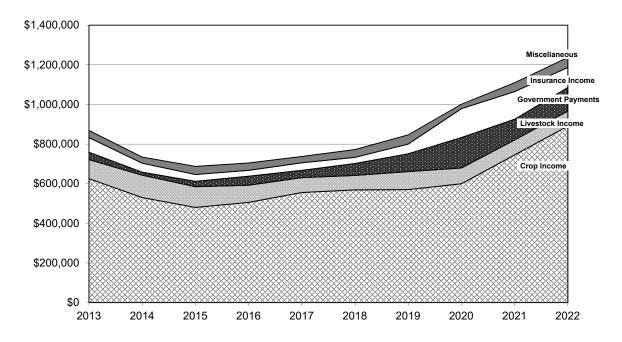


Figure 2. Net Farm Income (Accrual) Per Farm

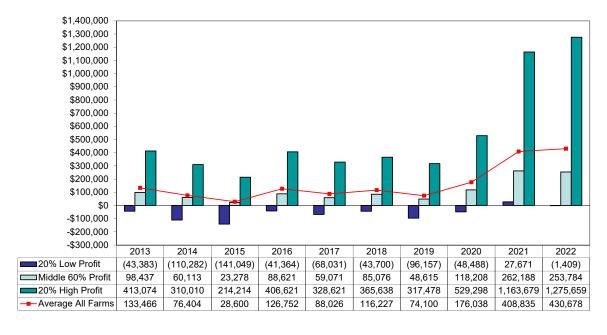


Figure 3. Financial Efficiency Measures (As Percent of Gross Revenue)

N.D. Farm Business Management Education Program

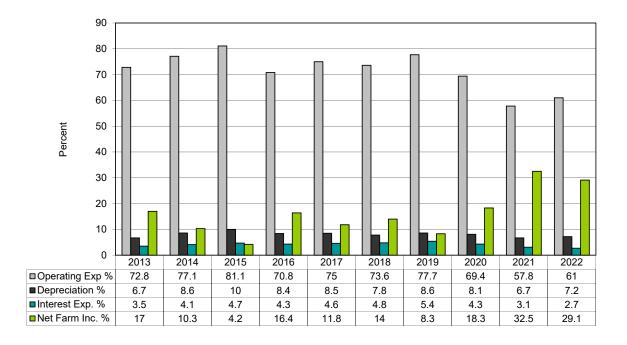


Figure 4. Profitability Measures Per Farm

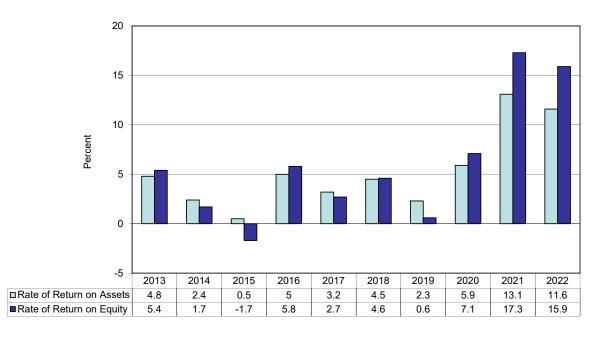


Figure 5. Assets and Liabilities Per Farm, 2022

N.D. Farm Business Management Education Program

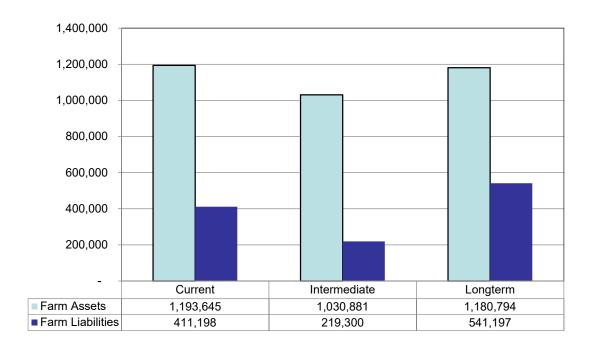
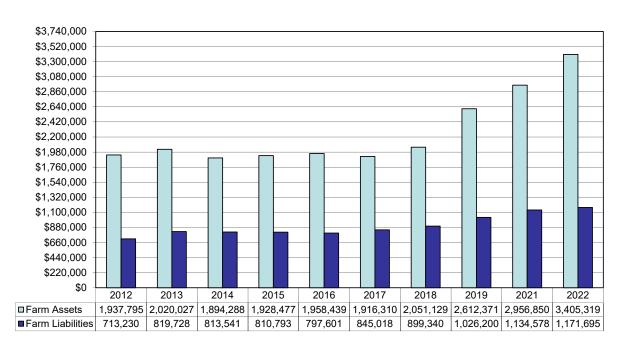


Figure 6. Total Farm Assets and Liabilities



## Figure 7. Household and Personal Expenses

N.D. Farm Business Management Education Program

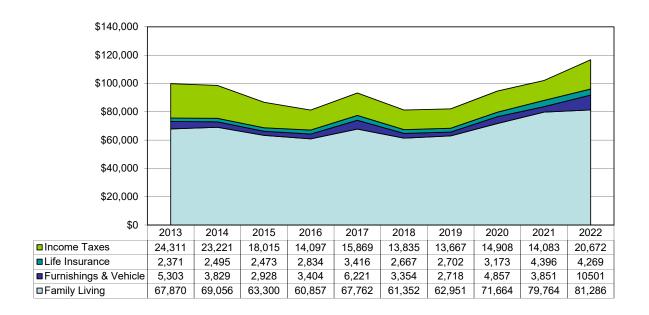


Figure 8. Crop Acreage Per Farm

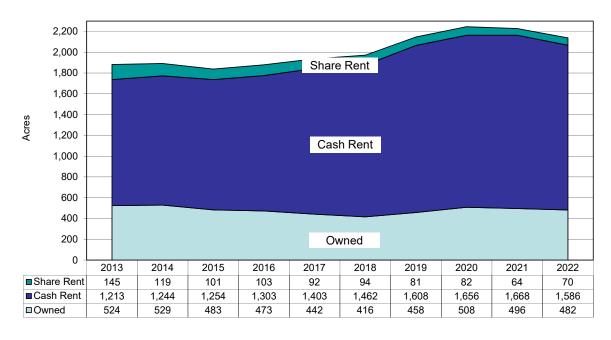


Figure 9. Spring Wheat Costs Per Acre

N.D. Farm Business Management Education Program

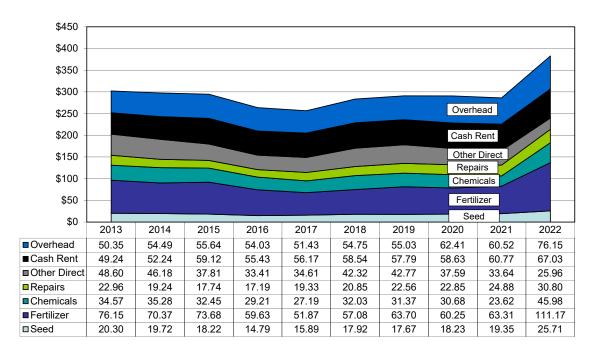
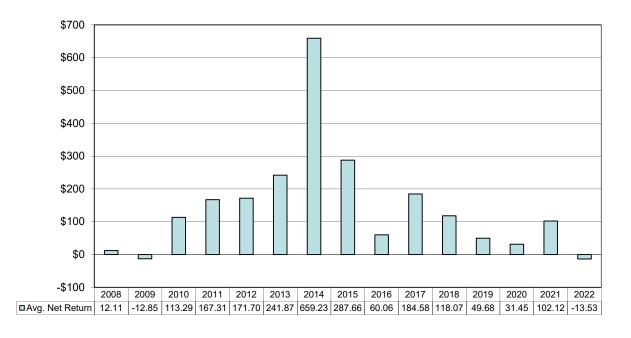


Figure 10. Average Net Return Per Beef Cow









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