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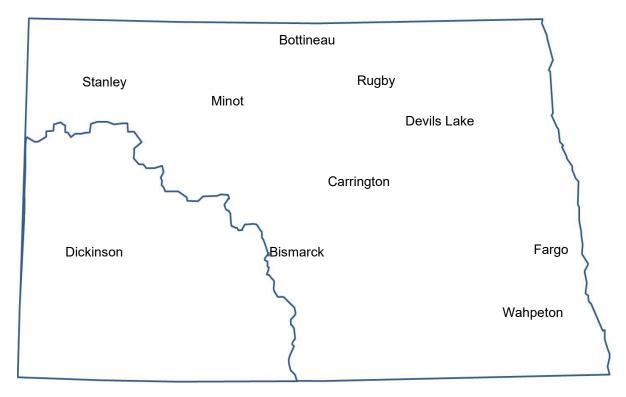
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NORTH DAKOTA FARM BUSINESS MANAGEMENT EDUCATION

2023 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 2023 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.



2023 State Report North Dakota Farm Business Management Education

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INTRODUCTION

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

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

The 2023 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 35th year that the regional averages have been generated in North Dakota based upon the four regions shown in the state map on the cover of this publication. A regional report has been generated and published for Regions 2 – North Central, 3 – South Central and 4 - Western identified on the North Dakota map. Farms in Region 1 – Red River Valley are located within the Red River Valley. Those farms are contained in a combined Minnesota-North Dakota Red River Valley report. The state averages report includes all farms participating in the North Dakota Farm Business Management Education Program that were represented in the regional averages and also those farms which were processed and submitted after the March deadline date. All of these reports may be ordered from Farm Business Management, P.O. Box 6022, Bismarck, ND, 58506-6022 for \$5 per copy. The reports are available online at www.ndfarmmanagement.com.

EXPLANATORY NOTES FOR THE FARM OPERATORS' REPORTS

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

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

Farm Income Statement

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

The first section of the income statement is a table which lists <u>cash</u> farm income. There are several sources of cash farm income. Cash sales of crops are listed first followed by cash sales of livestock.

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

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 <u>cash</u> basis.

The last two sections of the income statement deal with the non-cash changes in the farm business. The "Inventory Changes" and "Depreciation" sections are used to convert the cash income statement (Net Cash Farm Income) derived from the first two sections into an accrual income statement. The final adjustment is for "Gain or loss on capital sales." The bottom line, labeled "Net farm income," represents the return to the 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</u>, <u>Taxes</u>, <u>Depreciation and Amortization</u>. This represents a measure of earnings available for debt repayment.

Repayment Capacity

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

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

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

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

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, 2023 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	230	46	46	46
Cash Farm Income				
Barley	27,890	10,630	6,375	53,554
Beans, Garbonzo	513	, =	, -	, -
Beans, Pinto	27,961	14,502	9,082	66,093
Buckwheat	613	3,067	, -	· <u>-</u>
Canola	90,436	111,668	71,931	124,015
Corn	227,950	193,184	131,244	494,637
Corn Silage	2,116	1,615	7,822	1,142
Flax	1,842	· <u>-</u>	8,270	21
Hay, Alfalfa	1,624	_	3,269	171
Lentils	368	-	-	1,840
Oats	8,897	13,156	3,110	3,902
Peas, Dry Edible	7,494	4,188	3,336	28,103
Rye	729	1,843	-	737
Soybeans	296,828	328,444	192,122	555,192
Sugar Beets	24,296	_	3,877	55,836
Sunflowers	42,014	44,747	3,505	118,932
Wheat, Durum	31,528	26,664	2,899	88,132
Wheat, Spring	237,441	222,252	153,497	455,856
Wheat, Winter	1,630	27	3,971	3,470
Hay	3,366	4,547	3,128	1,866
Miscellaneous crop income	8,287	2,429	6,759	26,982
Beef Bulls	476	-	65	104
Beef Cow-Calf, Beef Calves	36,581	15,926	33,482	46,477
Beef Replacement Heifers	1,696	1,118	2,827	3,975
Beef Backgrounding	24,205	24,870	26,578	38,364
Beef Finishing	2,018	9,283	-	-
Beef Finish Yearlings	1,807	43	-	-
Cull breeding livestock	13,743	17,203	8,189	19,908
Misc. livestock income	16,214	81,071	236	681
CRP payments	501	177	92	1,050
Livestock govt payments	1,517	3,956	1,116	1,048
Conservation govt payment	5,409	5,915	4,349	9,207
Other government payments	13,514	15,333	9,906	18,771
Custom work income	9,924	10,538	7,723	19,371
Patronage dividends, cash	10,561	16,286	5,765	17,362
Crop insurance income	62,926	97,800	36,656	104,874
Property insurance income	415	587	432	461
Sale of resale items	1,188	-	367	5,566
Livestock insurance inc	253	-	635	-
Farm rental income	7,251	2,113	2,442	16,263
Other farm income	23,069	17,449	9,638	48,929
Gross Cash Farm Income	1,279,151	1,302,629	764,697	2,432,893

Farm Income Statement (continued) North Dakota Farm Business Management Education Program State Report, 2023 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	230	46	46	46
Cash Farm Expense				
Seed and plants	121,382	117,183	65,667	242,840
Fertilizer	162,854	186,572	98,912	276,989
Crop chemicals	111,954	123,626	58,152	205,902
Crop insurance	53,176	59,803	29,371	97,892
Drying expense	1,854	3,178	846	2,879
Storage	411 538	523 736	185	1,216 1,472
Irrigation energy Crop miscellaneous	2,120	2,415	2,334	2,017
Consultants	3,625	4,442	2,119	7,446
Feeder livestock purchase	11,324	23,313	3,535	5,442
Purchased feed	19,095	47,292	9,347	12,201
Breeding fees	437	1,448	185	445
Veterinary	3,089	4,529	3,084	3,123
Supplies	3,071	7,752	1,589	1,640
Livestock insurance	107	8	100	-
Livestock leases	206	203	.	-
Interest	53,464	85,801	27,681	71,235
Fuel & oil	52,067	53,082	38,461	89,901
Repairs	97,419	120,490	71,214	151,651
Custom hire	23,671	22,397	14,729	33,131
Hired labor Land rent	42,347 145,402	68,230	21,398 90,499	77,380 271,718
Stock/quota lease	419	131,620	90,499	2/ 1,/ 10
Machinery leases	14,329	20,603	6,590	23,250
Building leases	883	477	934	1,276
Real estate taxes	6,527	8,173	4,552	11,194
Farm insurance	16,583	19,183	12,153	27,015
Utilities	10,203	12,558	6,535	17,553
Hauling and trucking	2,326	8,379	201	2,334
Marketing	1,696	3,058	567	1,897
Dues & professional fees	5,916	5,574	4,390	11,481
Purchase of resale items	4,418	-	-	22,092
Miscellaneous	15,396	12,620	11,363	32,019
Advertising & promotion	73 988,382	- 1,155,270	80 586,770	278 1,706,904
Total cash expense Net cash farm income	290,769	1,155,270	177,926	725,989
Net cash familicome	230,703	147,000	177,320	725,505
Inventory Changes				
Prepaids and supplies	-25,344	-9,740	-33,421	-49,671
Accounts receivable	9,001	18,437	11,247	19,539
Hedging accounts	2,471	137	-1,252	9,935
Other current assets	5,723	609	-282 61.350	9,254
Crops and feed Market livestock	-60,450 13,249	-222,607 17,580	-61,350 15,088	64,689 8,651
Breeding livestock	-5,401	-10,596	-1,499	-4,426
Other assets	4,506	-907	258	6,187
Accounts payable	-3,200	-10,299	20,705	-9,571
Accrued interest	-8,993	-13,605	-6,640	-13,226
Total inventory change	-68,437	-230,991	-57,145	41,362
Net operating profit	222,332	-83,631	120,782	767,351
Depreciation				
Machinery and equipment	-75,408	-72,437	-43,403	-157,265
Titled vehicles	-10,506	-11,578	-4,402	-17,760
Buildings and improvements	-9,003	-7,676	-2,862	-20,817
Total depreciation	-94,916	-91,692	-50,667	-195,842
Net farm income from operations	127 /16	-175,323	70,115	571 500
Net farm income from operations Gain or loss on capital sales	127,416 12,158	-175,323 -934	70,115 3,347	571,509 42,415
Call of 1055 off Capital Sales	12,130	-304	J,J 4 1	42,410
Net farm income	139,574	-176,257	73,462	613,924

Inventory Changes North Dakota Farm Business Management Education Program State Report, 2023 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	230	46	46	46
Net cash farm income	290,769	147,359	177,926	725,989
Crops and Feed Ending inventory Beginning inventory Inventory change	772,906	621,466	364,001	1,915,168
	833,357	844,073	425,351	1,850,480
	-60,450	-222,607	-61,350	64,689
Market Livestock Ending inventory Beginning inventory Inventory change	56,259	53,776	56,711	72,406
	43,010	36,195	41,623	63,755
	13,249	17,580	15,088	8,651
Accts Receivable Ending inventory Beginning inventory Inventory change	71,436	69,272	38,729	156,863
	62,435	50,835	27,482	137,323
	9,001	18,437	11,247	19,539
Prepaid Expenses and Supplies Ending inventory Beginning inventory Inventory change	123,465	82,129	54,332	335,501
	148,808	91,869	87,752	385,172
	-25,344	-9,740	-33,421	-49,671
Hedging Activities Ending inventory Withdrawals Beginning inventory Deposits Gain or loss	8,285	4,994	718	26,403
	9,455	7,927	1,271	26,566
	9,008	6,571	3,042	27,447
	6,261	6,213	198	15,587
	2,471	137	-1,252	9,935
Other Current Assets Ending inventory Beginning inventory Inventory change	11,629	13,176	2,200	22,853
	5,906	12,567	2,482	13,599
	5,723	609	-282	9,254
Breeding Livestock Ending inventory Capital sales Beginning inventory Capital purchases Depreciation, capital adjust	89,950	89,911	89,349	122,278
	5,067	3,382	8,390	5,569
	89,069	100,584	83,702	119,409
	11,349	3,305	15,536	12,864
	-5,401	-10,596	-1,499	-4,426
Other Capital Assets Ending inventory Capital sales Beginning inventory Capital purchases Depreciation, capital adjust	165,922	166,549	32,510	461,788
	27,142	2,151	67	121,249
	146,006	162,170	30,393	376,020
	42,552	7,438	1,926	200,829
	4,506	-907	258	6,187
Accounts Payable Beginning inventory Ending inventory Inventory change	24,257	23,969	25,922	22,110
	27,457	34,268	5,217	31,681
	-3,200	-10,299	20,705	-9,571
Accrued Interest Beginning inventory Ending inventory Inventory change	21,460	35,999	11,740	28,137
	30,452	49,604	18,380	41,363
	-8,993	-13,605	-6,640	-13,226
Total inventory change	-68,437	-230,991	-57,145	41,362
Net operating profit	222,332	-83,631	120,782	767,351

Depreciation North Dakota Farm Business Management Education Program State Report, 2023 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	230	46	46	46
Net operating profit	222,332	-83,631	120,782	767,351
Machinery and Equipment				
Ending inventory	902,994	847,646	556,745	1,862,591
Capital sales	70,414	49,955	20,474	204,343
Beginning inventory	795,680	800,236	505,789	1,590,259
Capital purchases	253,136	169,802	114,833	633,940
Depreciation, capital adjust.	-75,408	-72,437	-43,403	-157,265
Titled Vehicles				
Ending inventory	103,573	116,214	61,197	169,044
Capital sales	3,512	5,682	2,683	5,601
Beginning inventory	90,768	109,994	54,908	137,902
Capital purchases	26,823	23,480	13,373	54,503
Depreciation, capital adjust.	-10,506	-11,578	-4,402	-17,760
Buildings and Improvements				
Ending inventory	295,090	232,192	132,677	714,460
Capital sales	130	-	-	-
Beginning inventory	253,686	212,982	105,542	603,832
Capital purchases	50,537	26,885	29,996	131,446
Depreciation, capital adjust.	-9,003	-7,676	-2,862	-20,817
Total depreciation, capital adj.	-94,916	-91,692	-50,667	-195,842
Net farm income from operations	127,416	-175,323	70,115	571,509
Gain or loss on capital sales	12,158	-934	3,347	42,415
Net farm income	139,574	-176,257	73,462	613,924

Profitability Measures North Dakota Farm Business Management Education Program State Report, 2023 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	230	46	46	46
Profitability (assets valued at cost)				
Net farm income from operations	127,416	-175,323	70,115	571,509
Rate of return on assets	3.1 %	-4.6 %	2.4 %	7.0 %
Rate of return on equity	2.1 %	-15.7 %	1.2 %	8.1 %
Operating profit margin	8.9 %	-14.9 %	7.0 %	20.4 %
Asset turnover rate	34.6 %	30.6 %	34.7 %	34.2 %
Farm interest expense	62,456	99,406	34,321	84,461
Value of operator lbr and mgmt.	82,061	78,379	54,108	144,723
Return on farm assets	107,811	-154,296	50,328	511,246
Average farm assets	3,501,425	3,378,406	2,058,799	7,339,778
Return on farm equity	45,355	-253,702	16,007	426,785
Average farm equity	2,196,847	1,615,235	1,313,511	5,270,242
Value of farm production	1,212,475	1,034,339	713,887	2,510,580
	Avg. Of			
	All Farms	Low 20%	40 - 60%	High 20%
Number of farms	230	46	46	46
Profitability (assets valued at market)				
Net farm income from operations	218,171	-61,360	118,807	640,094
Rate of return on assets	4.6 %	-1.0 %	3.9 %	6.6 %
Rate of return on equity	4.6 %	-5.7 %	3.6 %	7.4 %
Operating profit margin	16.4 %	-3.9 %	13.9 %	23.1 %
Asset turnover rate	28.3 %	24.5 %	27.9 %	28.6 %
Farm interest expense	62,456	99,406	34,321	84,461
Value of operator lbr and mgmt.	82,061	78,379	54,108	144,723
Return on farm assets	198,567	-40,333	99,020	579,832
Average farm assets	4,291,512	4,224,684	2,558,968	8,790,497
Return on farm equity	136,110	-139,739	64,700	495,371
Average farm equity	2,983,685	2,461,513	1,813,680	6,720,961
Value of farm production	1,212,475	1,034,339	713,887	2,510,580

Liquidity & Repayment Capacity Measures North Dakota Farm Business Management Education Program State Report, 2023 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	_ Low 20%	40 - 60%	High 20%
Number of farms	230	46	46	46
Liquidity				
Current ratio	2.01	1.19	2.31	2.66
Working capital	560,334	146,281	333,071	1,666,989
Change in working capital	-190,393	-412,452	-108,163	-162,156
Working capital to gross revenue	44.9 %	13.2 %	45.8 %	65.4 %
Working capital to oper expense	58.2 %	13.4 %	58.3 %	98.1 %
Current assets	1,113,792	900,592	588,172	2,674,147
Current liabilities	553,458	754,311	255,101	1,007,158
Gross revenues (accrual)	1,247,313	1,104,943	726,769	2,550,315
Total operating expenses	962,525	1,089,168	571,667	1,698,504
Repayment capacity				
Net farm income from operations	127,416	-175,323	70,115	571,509
Depreciation	94,916	91,692	50,667	195,842
Personal income	48,316	53,316	31,735	75,526
Family living/owner withdrawals	-92,756	-100,542	-66,528	-128,281
Cash discrepancy	-233	-184	97	-312
Income taxes	-24,611	-19,515	-11,285	-69,159
Interest expense	65,392	103,643	35,996	86,948
Debt repayment capacity	218,440	-46,913	110,796	732,072
Debt payments	153,644	206,115	98,880	225,053
Repayment margin	64,796	-253,028	11,916	507,019
Cash replacement allowance	-65,133	-55,142	-31,923	-152,449
Replacement margin	-337	-308,170	-20,007	354,570
Debt coverage ratio	1.42	-0.23	1.12	3.25
Term debt coverage ratio	1.51	-0.59	1.14	3.68
Replacement coverage ratio	1.00	-0.18	0.85	1.94

Balance Sheet at Cost Values North Dakota Farm Business Management Education Program State Report, 2023 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	230	46	46	46
Assets				
Current Farm Assets				
Cash and checking balance	69,812	55,781	71,481	144,952
Prepaid expenses & supplies	123,465 3,713	82,129	54,332 232	335,501
Growing crops Accounts receivable	71,436	340 69,272	38,729	9,804 156,863
Hedging accounts	8,285	4,994	718	26,403
Crops held for sale or feed	772,906	621,466	364,001	1,915,168
Crops under government loan	-	, <u>-</u>	, <u>-</u>	-
Market livestock held for sale	56,259	53,776	56,711	72,406
Other current assets	7,916	12,836	1,969	13,049
Total current farm assets	1,113,792	900,592	588,172	2,674,147
Intermediate Farm Assets				
Breeding livestock	89,950	89,911	89,349	122,278
Machinery and equipment	902,994	847,646	556,745	1,862,591
Titled vehicles Other intermediate assets	103,573 61,458	116,214 90,723	61,197 15,208	169,044 94,633
Total intermediate farm assets	1,157,976	1,144,495	722,499	2,248,545
	1,107,070	1,144,400	722,400	2,240,040
Long Term Farm Assets	044.050	4 000 400	0.40.004	4 700 770
Farm land	944,859	1,020,420	640,821	1,730,770
Buildings and improvements Other long-term assets	295,090 104,464	232,192 75,826	132,677 17,301	714,460 367,155
Total long-term farm assets	1,344,413	1,328,438	790,799	2,812,386
Total Farm Assets	3,616,181	3,373,525	2,101,470	7,735,078
Total Nonfarm Assets	463,571	549,180	280,364	731,200
Total Assets	4,079,752	3,922,705	2,381,834	8,466,278
Liabilities				
Current Farm Liabilities				
Accrued interest	30,452	49,604	18,380	41,363
Accounts payable	27,438	34,268	5,185	31,681
Current notes	399,789	568,641	164,915	774,702
Government crop loans	-	-	-	-
Principal due on term debt	95,779	101,798	66,621	159,411
Total current farm liabilities	553,458	754,311	255,101	1,007,158
Total intermediate farm liabs	244,527	263,804	150,405	374,199
Total long term farm liabilities	608,886	885,821	379,003	868,050
Total farm liabilities	1,406,870	1,903,936	784,509	2,249,407
Total nonfarm liabilities	87,075	152,303	57,043	79,557
Total liabilities	1,493,945	2,056,239	841,552	2,328,964
Net worth (farm and nonfarm)	2,585,807	1,866,466	1,540,282	6,137,315
Net worth change	82,166	-239,981	33,735	520,964
Percent net worth change	3 %	-11 %	2 %	9 %
Ratio Analysis				
Current farm liabilities / assets	50 %	84 %	43 %	38 %
Intermediate farm liab. / assets	21 %	23 %	21 %	17 %
Long term farm liab. / assets	45 %	67 %	48 %	31 %
Total debt to asset ratio	37 %	52 %	35 %	28 %

Statement Of Cash Flows North Dakota Farm Business Management Education Program State Report, 2023 (Farms Sorted By Net Farm Income)

	Avg. Of			
	All Farms	Low 20%	40 - 60%	High 20%
Number of farms	230	46	46	46
Beginning cash (farm & nonfarm)	110,596	137,133	102,062	160,349
Cash Provided By Operating Activities				
Gross cash farm income	1,279,151	1,302,629	764,697	2,432,893
Total cash farm expense	-988,382	-1,155,270	-586,770	-1,706,904
Net cash from hedging transactions	3,194	1,714	1,073	10,979
Cash provided by operating	293,963	149,073	178,999	736,968
Cash Provided By Investing Activities				
Sale of breeding livestock	5,099	3,557	8,375	5,569
Sale of machinery & equipment	81,048	47,372	24,198	241,699
Sale of titled vehicles	4,288	5,799	2,321	8,971
Sale of farm land	7,499	15,527	326	19,778
Sale of farm buildings	468	-	-	1,689
Sale of other farm assets	27,249	2,151	67	121,249
Sale of nonfarm assets	6,291	16,538	4,136	2,642
Purchase of breeding livestock	-11,349	-3,305	-15,536	-12,864
Purchase of machinery & equip.	-253,136	-169,802	-114,833	-633,940
Purchase of titled vehicles	-26,823	-23,480	-13,373	-54,503
Purchase of farm land	-118,450	-154,615	-79,215	-217,717
Purchase of farm buildings	-50,537	-26,885	-29,996	-131,446
Purchase of other farm assets	-42,552	-7,438	-1,926	-200,829
Purchase of nonfarm assets	-53,468	-69,646	-44,664	-71,306
Cash provided by investing	-424,372	-364,229	-260,121	-921,008
Cash Provided By Financing Activities				
Money borrowed	945,656	1,150,364	518,400	1,682,033
Principal payments	-747,516	-868,501	-415,271	-1,343,336
Personal income	48,316	53,316	31,735	75,526
Family living/owner withdrawals	-92,756	-100,542	-66,528	-128,281
Income and social security tax	-25,494	-20,220	-12,365	-68,710
Capital contributions	3,408	13,788	2,386	-
Capital distributions	-13,671	-24,063	=	-40,337
Dividends paid	<u>-</u>	-	-	-
Cash gifts and inheritances	9,950	655	3,581	41,238
Gifts given	-311	-	-326	-
Other cash flows	3	-	=	-
Cash provided by financing	127,584	204,798	61,612	218,132
Net change in cash balance	-2,825	-10,358	-19,510	34,091
Ending cash (farm & nonfarm)	107,538	126,591	82,649	194,129
Discrepancy	233	184	-97	312

Financial Standards Measures North Dakota Farm Business Management Education Program State Report, 2023 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	230	46	46	46
Liquidity				
Current ratio	2.01	1.19	2.31	2.66
Working capital to gross revenue	44.9 %	13.2 %	45.8 %	65.4 %
Working capital to oper expense	58.2 %	13.4 %	58.3 %	98.1 %
Solvency (market)				
Farm debt to asset ratio	32 %	45 %	30 %	24 %
Farm equity to asset ratio	68 %	55 %	70 %	76 %
Farm debt to equity ratio	0.46	0.80	0.43	0.32
Profitability (cost)				
Rate of return on farm assets	3.1 %	-4.6 %	2.4 %	7.0 %
Rate of return on farm equity	2.1 %	-15.7 %	1.2 %	8.1 %
Operating profit margin	8.9 %	-14.9 %	7.0 %	20.4 %
Asset turnover rate	34.6 %	30.6 %	34.7 %	34.2 %
Repayment Capacity				
Debt coverage ratio	1.42	-0.23	1.12	3.25
Term debt coverage ratio	1.51	-0.59	1.14	3.68
Replacement coverage ratio	1.00	-0.18	0.85	1.94
Efficiency				
Operating expense ratio	77.2 %	98.6 %	78.7 %	66.6 %
Depreciation expense ratio	7.6 %	8.3 %	7.0 %	7.7 %
Interest expense ratio	5.0 %	9.0 %	4.7 %	3.3 %
Net farm income ratio	10.2 %	-15.9 %	9.6 %	22.4 %

Crop Production and Marketing Summary North Dakota Farm Business Management Education Program State Report, 2023 (Farms Sorted By Net Farm Income)

	Avg. Of <u>All Farms</u>	Low 20%	<u>40 - 60%</u>	High 20%
Number of farms	230	46	46	46
Acreage Summary Total acres owned Total crop acres Crop acres owned Crop acres cash rented Crop acres share rented Total pasture acres Percent crop acres owned	829 2,254 480 1,702 72 441 21 %	781 2,311 545 1,727 40 301 24 %	731 1,470 313 1,111 46 448 21 %	1,420 4,011 858 3,021 131 502 21 %
Mach invest/crop acre cost Mach invest/crop acre market	414 532	405 513	383 474	465 607
Average Price Received (Cash Sales Wheat, Spring per bushel Soybeans per bushel Corn per bushel Canola per cwt Barley per bushel Sunflowers per cwt Wheat, Durum per bushel Oats per bushel Beans, Pinto per cwt Hay per ton Flax per bushel Wheat, Winter per bushel Straw per ton	Only) 8.39 12.99 5.71 25.83 7.27 24.83 10.14 4.33 36.78 77.88 16.37 8.67 74.46	7.99 13.04 5.02 25.11 - 20.35 - 4.34	8.46 12.89 5.40 26.02 - - - - - - -	8.86 13.10 6.15 27.45 6.77 27.01 10.51 - 36.60
Average Yield Per Acre Soybeans (bushel) Wheat, Spring (bushel) Corn (bushel) Canola (cwt) Barley (bushel) Hay, Mixed Alfalfa/Grass (ton) Sunflowers (cwt) Wheat, Durum (bushel) Beans, Pinto (cwt) Hay, Grass (ton) Hay, Small Grain (ton) Hay, Alfalfa (ton) Corn Silage (ton) Oats (bushel) Peas, Dry Edible (bushel) Sugar Beets (ton) Soybeans, Food (bushel) Hay, Mixed (ton) Hay (ton) Barley, Malting (bushel) Soybeans, Natto (bushel) Straw (ton) Flax (bushel) Aftermath Grazing (aum) Wheat, Winter (bushel) Hay, Sudan Grass (ton) Cover crop grazing (aum) Sunflowers, Confectionary (cwt)	38.38 56.98 150.49 20.57 71.43 1.43 21.66 50.66 19.94 1.38 2.20 2.13 14.98 111.85 35.30 23.99 36.36 1.55 1.85 70.07 25.13 0.889 18.64 4.89 54.80 2.60 2.98 22.24	31.79 49.17 150.06 18.35 49.59 1.28 15.84 47.92 - 1.23 - 1.82 9.17 101.91 34.09 - 27.76	31.49 53.15 129.46 20.22 55.47 1.77 - - 1.39 2.11 2.26 16.21 - - - - - - -	40.77 66.10 158.46 22.07 78.10 2.12 24.62 50.92 22.27 1.69 2.10 2.91

Household and Personal Expenses North Dakota Farm Business Management Education Program State Report, 2023 (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	45	9	9	6
Average family size	2.9	3.4	2.7	2.8
Family Living Expenses				
Food and meals expense	11,310	14,062	11,898	12,169
Medical care	6,234	8,656	3,754	12,398
Health insurance	6,765	4,428	5,777	14,697
Cash donations	2,068	3,124	1,889	2,425
Household supplies	13,048	30,918	5,765	20,532
Clothing	2,855	6,387	1,577	3,102
Personal care	4,580	5,131	5,646	1,949
Child / Dependent care	1,985	5,273	862	1,724
Alimony and child support	· -	-	-	· -
Gifts	2,448	3,181	2,104	3,902
Education	822	992	260	1,808
Recreation	7,060	4,297	5,021	16,909
Utilities (household share)	4,240	4,621	5,567	3,577
Personal vehicle operating exp	4,659	9,080	1,480	2,079
Household real estate taxes	195	637	29	466
Dwelling rent	303	278	_	800
Household repairs	3,073	8,768	1,744	1,403
Personal interest	2,890	8,501	1,472	176
Disability / Long term care ins	312	864	, -	48
Life insurance payments	4,544	6,318	2,878	7,643
Personal property insurance	638	445	434	577
Miscellaneous	10,414	23,696	7,617	4,401
Total cash family living expense	90,443	149,656	65,772	112,784
Family living from the farm	620	-	-	2,667
Total family living	91,063	149,656	65,772	115,451
Other Nonfarm Expenditures				
Income taxes	21,527	12,942	18,975	70,014
Furnishing & appliance purchases	240	, -	1,040	238
Nonfarm vehicle purchases	11,812	14,824	7,521	14,503
Nonfarm real estate purchases	20,179	-19,934	40,740	110,193
Other nonfarm capital purchases	919	1,557	-	1,946
Nonfarm savings & investments	9,979	51,647	9,622	6,207
Total other nonfarm expenditures	64,657	61,036	77,899	203,101
Total cash family living				
investment & nonfarm capital purch	155,100	210,691	143,671	315,885

Operator and Labor Information North Dakota Farm Business Management Education Program State Report, 2023 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 60%	High 200/
	All Fallis	LOW 20%	40 - 60%	High 20%
Number of farms	230	46	46	46
Operator Information				
Average number of operators	1.1	1.1	1.0	1.3
Average age of operators	46.6	50.4	42.6	47.7
Average number of years farming	21.4	25.6	18.4	24.1
Results Per Operator				
Working capital	505,399	131,940	333,071	1,278,025
Total assets (market)	4,501,099	4,486,866	2,976,968	7,660,714
Total liabilities	1,350,387	1,854,647	841,552	1,785,539
Net worth (market)	3,150,712	2,632,219	2,135,416	5,875,175
Net worth excl deferred liabs	3,153,619	2,632,219	2,135,416	5,875,175
Gross farm income	1,125,027	996,615	726,769	1,955,242
Total farm expense	1,010,103	1,154,749	656,655	1,517,085
Net farm income from operations	114,924	-158,134	70,115	438,157
Net nonfarm income	43,579	48,089	31,735	57,903
Family living & tax withdrawals	106,071	108,453	77,716	151,610
Total acres owned	748.0	704.3	731.2	1,088.5
Total crop acres	2,033.0	2,084.8	1,470.1	3,075.1
Crop acres owned	432.8	491.4	313.3	658.1
Crop acres cash rented	1,534.8	1,557.6	1,110.9	2,316.5
Crop acres share rented	65.3	35.8	45.9	100.6
Total pasture acres	398.0	271.4	448.1	384.6
Labor Analysis				
Number of farms	230	46	46	46
Total unpaid labor hours	2,161	2,089	1,989	2,802
Total hired labor hours	1,257	2,480	502	2,113
Total labor hours per farm	3,417	4,569	2,491	4,916
Unpaid hours per operator	1,949	1,884	1,989	2,148
Value of farm production / hour	354.80	226.36	286.60	510.73
Net farm income / unpaid hour	58.97	-83.92	35.25	203.95
Average hourly hired labor wage	32.26	27.98	31.37	36.78
Partnerships & LLCs				
Number of farms	16	3	1	8
Number of operators	1.9	-	-	2.1
Owner withdrawals per farm	-	-	-	-
Withdrawals per operator	-	-	-	-

Nonfarm Summary North Dakota Farm Business Management Education Program State Report, 2023 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	230	46	46	46
Nonfarm Income				
Personal wages & salary	24,924	26,637	17,280	22,690
Net nonfarm business income	8,133	3,321	2,283	27,029
Personal rental income	2,612	4,699	2,404	3,784
Personal interest income	865	379	376	3,056
Personal cash dividends	133	-	-	174
Tax refunds	1,593	1,301	1,188	2,754
Nontaxable personal inc.	3	-	=	-
Other nonfarm income	10,056	16,978	8,204	16,038
Total nonfarm income	48,319	53,316	31,735	75,526
Gifts and inheritances	9,950	655	3,581	41,238
Nonfarm Assets (market)				
Checking & savings	37,726	70,810	11,168	49,177
Stocks & bonds	18,988	10,273	30,650	30,277
Other current assets	9,594	7,280	223	23,734
Furniture & appliances	7,534	12,821	3,638	10,578
Nonfarm vehicles	39,874	44,174	24,805	50,118
Cash value of life ins.	17,539	13,920	19,587	31,214
Retirement accounts	153,102	148,428	133,405	233,627
Other intermediate assets	12,546	27,525	9,014	7,066
Nonfarm real estate	196,633	280,133	116,362	240,347
Personal bus. investment	5,906	2,282	1,261	19,529
Other long term assets	39,246	80,138	870	76,478
Total nonfarm assets	538,690	697,784	350,983	772,146
Nonfarm Liabilities				
Accrued interest	518	1,870	246	163
Accounts payable	11,745	18,095	4,358	23,590
Current notes	2,820	2,611	1,304	224
Princ due on term debt	5,398	7,691	3,365	5,305
Total current liabilities	20,481	30,267	9,273	29,282
Intermediate liabilities	8,805	12,618	3,225	6,023
Long term liabilities	57,789	109,418	44,545	44,252
Total nonfarm liabilities	87,075	152,303	57,043	79,557
Nonfarm net worth	451,615	545,481	293,940	692,589
Nonfarm debt to asset ratio	16 %	22 %	16 %	10 %

Financial Summary Excluding Deferred Liabilities North Dakota Farm Business Management Education Program State Report, 2023 (Farms Sorted By Gross Farm Income)

	Avg. Of	Less than	100,001 -	250,001 -	500,001 -	1,000,001-	Over
	All Farms	100,000	250,000	500,000	1,000,000	2,000,000	2,000,000
Number of farms	230	11	19	38	55	66	41
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	1,279,151	41,865	156,551	376,844	752,280	1,424,180	3,440,935
	988,382	62,170	137,614	311,222	631,389	1,120,565	2,524,858
	290,769	-20,305	18,937	65,622	120,891	303,615	916,077
	-68,437	48,950	28,268	21,098	-17,452	-112,736	-224,814
	-94,916	-4,555	-8,297	-25,812	-40,497	-103,282	-282,881
	127,416	24,090	38,908	60,908	62,941	87,597	408,382
	12,158	267	27	2,178	2,224	12,314	43,298
	139,574	24,357	38,934	63,086	65,165	99,911	451,681
	70,024	8,283	26,596	62,733	53,407	102,914	359,532
Profitability (cost) Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	3.1 %	3.8 %	3.4 %	3.4 %	2.3 %	1.9 %	4.0 %
	2.1 %	2.2 %	2.4 %	2.4 %	0.3 %	-0.1 %	3.7 %
	8.9 %	9.9 %	11.0 %	9.0 %	6.5 %	5.6 %	11.7 %
	34.6 %	38.5 %	30.5 %	37.8 %	35.9 %	34.7 %	34.0 %
Profitability (market) Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	4.6 %	7.7 %	3.5 %	4.3 %	5.1 %	3.8 %	5.1 %
	4.7 %	22.4 %	3.5 %	4.4 %	5.4 %	3.2 %	5.4 %
	16.4 %	21.1 %	14.3 %	15.9 %	18.2 %	13.3 %	17.9 %
	28.3 %	36.6 %	24.3 %	27.2 %	27.9 %	28.2 %	28.6 %
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	1,113,792	94,492	193,486	337,140	593,646	1,142,042	3,185,850
	553,458	75,104	89,186	150,544	334,128	543,218	1,581,085
	2.01	1.26	2.17	2.24	1.78	2.10	2.01
	560,334	19,389	104,299	186,597	259,518	598,824	1,604,764
	-190,393	-4,920	10,826	-7,823	-98,686	-236,810	-550,917
	44.9 %	20.6 %	55.2 %	45.3 %	34.2 %	44.3 %	48.5 %
	58.2 %	33.2 %	81.2 %	61.6 %	42.3 %	55.3 %	64.8 %
	1.42	1.69	1.35	1.45	0.80	1.07	1.97
	1.51	1.86	1.41	1.53	0.76	1.09	2.18
	1.00	1.58	1.15	1.14	0.66	0.78	1.24
	2.72	2.24	3.61	3.06	3.64	3.57	1.99
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 %	230	11	19	38	55	66	41
	4,079,752	384,122	759,030	1,301,319	2,438,390	4,472,739	10,754,478
	1,493,945	236,584	415,442	564,188	1,032,046	1,729,457	3,433,309
	2,585,807	147,538	343,588	737,130	1,406,344	2,743,282	7,321,169
	82,166	27,178	25,692	38,784	37,565	37,749	294,629
	39 %	64 %	56 %	47 %	45 %	41 %	34 %
	37 %	62 %	55 %	43 %	42 %	39 %	32 %
	3 %	23 %	8 %	6 %	3 %	1 %	4 %
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 %	230 4,990,348 1,493,945 3,496,403 185,330 32 % 30 % 6 %	11 415,650 236,584 179,065 37,913 60 % 57 % 27 %	19 931,926 415,442 516,484 40,958 45 % 9 %	38 1,781,648 564,188 1,217,460 101,929 34 % 32 % 9 %	55 3,120,096 1,032,046 2,088,050 126,486 35 % 33 % 6 %	66 5,524,004 1,729,457 3,794,546 146,777 33 % 31 % 4 %	41 12,722,178 3,433,309 9,288,868 510,082 29 % 27 % 6 %
Nonfarm Information Net nonfarm income Farms reporting living expenses Total family living expense Total living, invest, cap. purch	48,316 45 91,063 155,100	46,866 2 -	40,639 6 69,138 83,480	31,860 7 45,668 48,917	36,632 15 91,623 132,713	55,719 12 114,476 191,166	71,274 3 -
Crop Acres Total crop acres Total crop acres owned Total crop acres cash rented Total crop acres share rented Machinery value per crop acre	2,254	182	358	894	1,458	2,641	5,393
	480	22	67	217	352	593	1,028
	1,702	160	267	612	1,058	1,967	4,226
	72	-	23	66	48	81	139
	532	245	357	366	403	518	623

Financial Summary Excluding Deferred Liabilities North Dakota Farm Business Management Education Program State Report, 2023 (Farms Sorted By Age of Operator)

	Avg. Of All Farms	Less Than 31	31 - 40	41 - 50	51 - 60	Over 60
Number of farms	230	35	47	51	51	46
Income Statement						
Gross cash farm income	1,279,151	389,924	1,013,896	1,601,715	1,588,291	1,526,390
Total cash farm expense Net cash farm income	988,382 290,769	325,668 64,256	758,122 255,774	1,294,676 307,039	1,214,189 374,103	1,137,950 388,440
Inventory change	-68.437	45,210	-95,459	-23,451	-112,128	-128.734
Depreciation	-94,916	-18,977	-71,582	-120,022	-108,337	-133,824
Net farm income from operations	127,416	90,489	88,733	163,567	153,638	125,882
Gain or loss on capital sales	12,158	371	6,821	19,019	14,351	16,543
Average net farm income Median net farm income	139,574 70,024	90,860 48,262	95,554 75,695	182,586 116,527	167,989 85,845	142,426 49,331
Profitability (cost)						
Rate of return on assets	3.1 %	9.1 %	2.9 %	3.9 %	3.3 %	1.7 %
Rate of return on equity Operating profit margin	2.1 % 8.9 %	13.8 % 16.0 %	1.2 % 7.9 %	3.1 % 10.0 %	2.3 % 9.3 %	0.7 % 6.1 %
Asset turnover rate	34.6 %	57.1 %	36.6 %	38.9 %	35.2 %	27.2 %
Profitability (market)	4.0.0/	40.40/	4.4.0/	0.00/	4.4.07	0.0.27
Rate of return on assets Rate of return on equity	4.6 % 4.7 %	10.4 % 18.4 %	4.1 % 3.8 %	6.8 % 8.5 %	4.4 % 4.3 %	2.8 % 2.4 %
Operating profit margin	16.4 %	19.8 %	12.5 %	20.8 %	16.0 %	13.3 %
Asset turnover rate	28.3 %	52.3 %	32.4 %	32.9 %	27.7 %	21.1 %
Liquidity & Repayment (end of year) Current assets	1,113,792	307,301	748,009	1,237,161	1,284,968	1,774,601
Current liabilities	553,458	143,833	424,774	815,245	613.245	640.081
Current ratio	2.01	2.14	1.76	1.52	2.10	2.77
Working capital	560,334	163,468	323,234	421,915	671,723	1,134,520
Change in working capital	-190,393	-5,111	-140,641	-274,245	-224,167	-251,793
Working capital to gross revenue Working capital to oper expense	44.9 % 58.2 %	38.2 % 54.4 %	33.8 % 43.8 %	26.2 % 34.0 %	44.1 % 56.7 %	77.7 % 99.3 %
Debt coverage ratio	1.42	2.10	1.14	1.36	1.36	1.76
Term debt coverage ratio	1.51	2.40	1.17	1.43	1.42	1.94
Replacement coverage ratio Term debt to EBITDA	1.00 2.72	1.86 1.66	0.90 3.61	1.06 2.96	0.97 2.75	0.90 2.07
Solvency (end of year at cost)						
Number of farms	230	35	47	51	51	. 46
Total assets	4,079,752	937,808	2,951,920	4,733,984	4,993,618	5,884,167
Total liabilities Net worth	1,493,945 2,585,807	510,328 427,481	1,412,481 1,539,439	2,120,006 2,613,977	1,724,792 3,268,827	1,375,535 4,508,631
Net worth change	82,166	64,080	60,203	97,996	144,727	31,456
Farm debt to asset ratio	39 %	54 %	50 %	48 %	38 %	25 %
Total debt to asset ratio	37 %	54 %	48 %	45 %	35 %	23 %
Change in earned net worth %	3 %	18 %	4 %	4 %	5 %	1 %
Solvency (end of year at market) Number of farms	230	35	47	51	51	46
Total assets	4,990,348	1,021,571	3,348,808	5,593,603	6,287,530	7,580,292
Total liabilities	1,493,945	510,328	1,412,481	2,120,006	1,724,792	1,375,535
Net worth change	3,496,403	511,243	1,936,327	3,473,596	4,562,739	6,204,756
Total net worth change Farm debt to asset ratio	185,330 32 %	81,722 50 %	103,488 44 %	286,063 40 %	265,129 30 %	147,628 19 %
Total debt to asset ratio	30 %	50 %	42 %	38 %	27 %	18 %
Change in total net worth %	6 %	19 %	6 %	9 %	6 %	2 %
Nonfarm Information Net nonfarm income	48,316	32,205	44,919	45,896	61,341	52,289
Farms reporting living expenses	45	9	8	9	7	12
Total family living expense Total living, invest, cap. purch	91,063 155,100	81,240 64,108	97,048 181,041	117,164 168,560	88,254 246,499	76,504 142,639
Crop Acres	•	•	•	•	•	,
Total crop acres	2,254	879	1,835	2,733	2,746	2,651
Total crop acres owned	480	75 740	308	469	593	850
Total crop acres cash rented Total crop acres share rented	1,702 72	719 85	1,450 76	2,178 86	2,103 50	1,733 69
Machinery value per crop acre	532	249	498	497	536	662
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Financial Summary Excluding Deferred Liabilities North Dakota Farm Business Management Education Program State Report, 2023 (Farms Sorted By Farm Type)

	Avg. Of All Farms	Crop	Beef	Crop and Beef	<u>Other</u>
Number of farms	230	181	18	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	1,279,151	1,446,092	292,302	728,066	498,188
	988,382	1,094,102	229,796	684,637	391,873
	290,769	351,989	62,506	43,428	106,315
	-68,437	-101,838	53,391	114,526	563
	-94,916	-109,268	-14,940	-53,780	-31,921
	127,416	140,883	100,958	104,174	74,957
	12,158	14,711	1,487	1,074	4,203
	139,574	155,594	102,444	105,248	79,160
	70,024	75,695	63,150	66,919	53,160
Profitability (cost) Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	3.1 %	3.0 %	9.0 %	3.9 %	3.4 %
	2.1 %	2.1 %	11.7 %	2.7 %	3.3 %
	8.9 %	8.6 %	32.3 %	12.9 %	12.4 %
	34.6 %	35.1 %	27.8 %	30.0 %	27.3 %
Profitability (market) Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	4.6 %	4.7 %	8.4 %	4.5 %	3.4 %
	4.7 %	4.8 %	9.9 %	4.2 %	3.3 %
	16.4 %	16.2 %	41.1 %	19.9 %	17.0 %
	28.3 %	28.9 %	20.4 %	22.6 %	19.8 %
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	1,113,792	1,246,024	320,886	800,387	434,755
	553,458	598,650	136,984	499,819	213,019
	2.01	2.08	2.34	1.60	2.04
	560,334	647,375	183,902	300,569	221,736
	-190,393	-234,620	58,150	-38,119	3,718
	44.9 %	46.8 %	52.1 %	34.3 %	42.9 %
	58.2 %	60.7 %	86.9 %	45.9 %	57.5 %
	1.42	1.45	2.53	1.30	1.40
	1.51	1.55	2.96	1.37	1.43
	1.00	0.98	2.06	1.10	1.26
	2.72	2.56	2.16	3.30	3.83
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 %	230	181	18	20	10
	4,079,752	4,563,563	1,245,242	2,830,830	1,886,531
	1,493,945	1,602,724	493,731	1,350,662	767,742
	2,585,807	2,960,839	751,511	1,480,168	1,118,788
	82,166	80,129	189,872	69,261	67,007
	39 %	37 %	43 %	49 %	45 %
	37 %	35 %	40 %	48 %	41 %
	3 %	3 %	34 %	5 %	6 %
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 %	230	181	18	20	10
	4,990,348	5,538,203	1,673,812	3,715,412	2,499,811
	1,493,945	1,602,724	493,731	1,350,662	767,742
	3,496,403	3,935,479	1,180,081	2,364,750	1,732,069
	185,330	196,921	231,251	134,186	86,754
	32 %	31 %	32 %	37 %	33 %
	30 %	29 %	29 %	36 %	31 %
	6 %	5 %	24 %	6 %	5 %
Nonfarm Information Net nonfarm income Farms reporting living expenses Total family living expense Total living, invest, cap. purch	48,316	51,435	39,698	37,008	34,828
	45	34	5	5	1
	91,063	102,161	54,492	61,887	-
	155,100	186,482	56,851	62,870	-
Crop Acres Total crop acres Total crop acres owned Total crop acres cash rented Total crop acres share rented Machinery value per crop acre	2,254	2,565	507	1,524	708
	480	527	117	501	259
	1,702	1,964	323	943	426
	72	75	67	80	23
	532	544	445	420	527

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

Several cost items, such as "utilities," "hired labor," and "interest paid," are listed under both "direct" and "overhead" costs because some of these costs are specific to that crop whereas others are general overhead costs of the farm. For example, "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	14
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	214.88 57.78 100.00 7.06 13.78 421.51 92.83 0.69 515.03
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	28.05 84.28 37.56 25.72 0.40 16.37 42.62 1.69 9.39 0.40 246.49 268.54
Overhead Expenses Custom hire Hired labor Machinery leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	5.74 7.16 5.76 7.98 6.12 4.12 1.87 63.65 34.30 4.25 140.95 387.44 127.59
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	127.59 27.02 100.56
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	4.27 6.71 4.85 5.32
Net value per unit Machinery cost per acre Est. labor hours per acre	7.06 109.08 0.91

Barley on Cash Rent

	Avg. Of All Farms	_ Low 20%	40 - 60%	_ High 20%
Number of farms	29	5	6	6
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Other product return per acre Total product return per acre	278.47	100.86	333.72	378.25
	75.98	48.37	67.48	88.52
	100.00	100.00	100.00	100.00
	6.47	4.75	6.94	6.85
	2.17	-	-	7.71
	494.01	229.69	468.02	614.31
Crop insurance per acre Other crop income per acre Gross return per acre	44.66 1.12 539.79	25.64 255.64	9.59 1.52 479.13	103.38 1.11 718.80
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Land rent Machinery leases	36.76 81.84 43.70 22.69 17.71 35.78 1.69 74.35 0.73	31.38 73.72 41.78 19.25 15.82 47.04 3.54 52.32	37.95 88.02 43.17 13.72 19.44 37.67 2.42 77.53	39.26 65.93 48.46 33.79 16.89 23.80 0.33 87.20
Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	9.90	2.05	8.05	14.13
	0.95	3.55	0.37	-
	326.09	290.45	328.33	329.79
	213.70	-34.81	150.80	389.01
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	7.02 14.41 7.04 6.37 4.64 2.67 3.62 37.65 4.97 88.39 414.48 125.31	1.17 1.81 4.07 3.45 0.63 6.05 30.00 2.98 50.16 340.61 -84.98	0.00 14.40 7.88 4.37 3.83 5.82 1.80 36.47 6.84 81.41 409.74 69.39	21.81 18.59 12.23 6.93 5.18 2.20 3.87 43.56 2.94 117.31 447.10 271.70
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	125.31	-84.98	69.39	271.70
	31.28	40.66	29.12	27.48
	94.03	-125.64	40.27	244.22
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	4.29	6.01	4.87	3.73
	5.46	7.04	6.07	5.05
	4.82	6.51	5.91	3.78
	5.24	7.35	6.34	4.09
Net value per unit	6.47	4.75	6.94	6.85
Machinery cost per acre	108.68	105.44	101.63	120.83
Est. labor hours per acre	1.12	1.69	1.01	0.93

Beans, Pinto on Owned Land

	Avg. Of All Farms
Number of farms	8
Acres Yield per acre (cwt.) Operators share of yield % Value per cwt. Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	282.28 20.90 100.00 36.44 761.69 5.37 0.90 767.95
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	72.94 55.54 65.95 33.42 19.78 38.68 2.78 0.72 6.78 1.74 298.34 469.61
Overhead Expenses Custom hire Hired labor Machinery leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	4.85 12.34 6.15 11.20 6.66 3.94 0.93 61.92 51.72 3.54 163.25 461.58 306.37
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	306.37 40.07 266.30
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	14.27 22.08 21.78 23.70
Net value per unit Machinery cost per acre Est. labor hours per acre	36.44 127.45 1.16

Beans, Pinto on Cash Rent

	Avg. Of All Farms
Number of farms	12
Acres Yield per acre (cwt.) Operators share of yield % Value per cwt. Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	448.57 21.30 100.00 36.53 778.06 6.50 1.37 785.94
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	69.58 72.42 87.44 34.72 22.96 34.37 0.94 90.60 1.36 12.95 1.56 428.88 357.06
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	6.43 27.08 7.24 6.20 4.41 3.27 2.96 41.23 3.76 102.58 531.46 254.48
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	254.48 38.81 215.67
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	20.14 24.95 24.58 26.41
Net value per unit Machinery cost per acre Est. labor hours per acre	36.53 112.54 1.23

Canola on Owned Land

	Avg. Of All Farms
Number of farms	20
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	196.87 19.77 100.00 21.83 431.57 11.47 1.87 444.91
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	69.12 106.61 42.77 24.47 17.85 35.57 6.51 3.35 8.17 1.64 316.07 128.84
Overhead Expenses Custom hire Hired labor Machinery leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	4.29 4.68 2.88 11.36 5.22 3.26 2.17 38.22 31.43 4.13 107.64 423.71 21.21
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	21.21 30.67 -9.47
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	15.99 21.44 20.76 22.31
Net value per unit Machinery cost per acre Est. labor hours per acre	21.83 104.60 1.13

Canola on Cash Rent

	Avg. Of All Farms	_ Low 20%	40 - 60%	_ High 20%
Number of farms	46	9	9	10
Acres Yield per acre (cwt.) Operators share of yield % Value per cwt. Other product return per acre Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	486.33 20.25 100.00 22.10 2.49 449.97 15.33 1.17 466.47	296.32 13.89 100.00 19.43 0.00 269.94 53.78 4.43 328.15	644.11 18.39 100.00 22.33 9.63 420.32 3.73	453.91 24.84 100.00 23.02 571.87 7.00
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	68.67	71.41	72.74	56.40
	112.64	126.59	98.18	125.32
	48.32	73.75	44.09	44.19
	30.02	35.30	23.78	38.21
	16.04	15.84	17.11	18.06
	37.37	43.65	32.07	34.74
	8.41	10.61	3.48	11.19
	59.16	50.59	58.02	66.93
	1.18	5.91	0.63	0.98
	7.18	15.90	4.29	3.36
	2.12	4.78	3.29	0.62
	391.11	454.32	357.70	400.02
	75.37	-126.17	66.36	178.86
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	3.90	13.97	4.30	1.61
	9.14	5.22	8.70	13.70
	2.18	4.03	3.77	1.00
	0.96	0.09	2.51	0.66
	4.88	6.54	3.17	5.58
	2.35	2.12	1.14	2.85
	1.38	1.02	0.64	1.80
	3.04	6.07	1.29	1.87
	42.10	30.07	25.32	40.01
	3.16	5.74	2.40	1.94
	73.09	74.86	53.25	71.04
	464.20	529.17	410.95	471.06
	2.27	-201.03	13.11	107.81
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	2.27	-201.03	13.11	107.81
	33.28	36.05	41.16	33.31
	-31.01	-237.07	-28.05	74.50
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	19.32	32.70	19.45	16.10
	22.93	38.08	22.35	18.96
	21.99	33.90	21.62	18.68
	23.63	36.49	23.86	20.02
Net value per unit	22.10	19.43	22.33	23.02
Machinery cost per acre	111.33	128.32	86.43	106.66
Est. labor hours per acre	1.06	1.36	1.07	1.10

Canola on Share Rent

	Avg. Of All Farms
Number of farms	6
Acres Yield per acre (cwt.) Operators share of yield % Value per cwt. Total product return per acre Crop insurance per acre Gross return per acre	224.04 16.72 71.38 23.26 277.65 17.48 295.13
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Machinery leases Operating interest Total direct expenses per acre Return over direct exp per acre	55.50 105.26 34.62 24.12 12.04 28.06 2.70 16.68 4.02 282.99 12.14
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	0.45 2.80 3.54 4.57 2.06 1.17 2.08 25.72 3.14 45.52 328.51 -33.38
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	-33.38 32.31 -65.69
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	23.71 27.52 26.06 28.77
Net value per unit Machinery cost per acre Est. labor hours per acre	23.26 89.66 1.29

Corn on Owned Land

	Ava. Of _AII Farms	Low 20%	40 - 60%	_High 20%
Number of farms	52	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	268.26 152.02 100.00 4.49 2.78 685.41 0.85 23.72 7.05 717.03	244.57 143.05 100.00 4.20 1.23 602.25 18.39 1.69 622.33	266.58 162.79 100.00 4.50 732.89 30.55 0.95 764.39	300.05 164.25 100.00 4.70 772.80 3.61 14.66 26.78 817.86
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drving expense Storage Fuel & oil Repairs Custom hire Machinery leases Utilities Marketing Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	88.60 179.16 38.42 33.73 7.42 0.54 32.02 66.92 5.58 1.28 0.59 0.12 15.60 1.17 471.15 245.89	98.88 166.59 54.66 28.18 2.23 38.06 102.53 3.69 - - 22.58 517.41 104.92	92.28 184.72 29.01 42.36 9.26 1.71 35.49 57.67 5.76 3.37 2.30 0.55 9.04 0.81 474.33 290.06	85.63 172.44 39.65 33.91 2.05 0.78 24.69 37.51 5.91 1.07 0.37 8.95 1.34 414.30 403.56
Overhead Expenses Custom hire Hired labor Machinery leases RE & pers. property taxes 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	3.44	5.25	5.72	0.22
	33.09	55.13	54.59	26.41
	5.67	7.94	0.68	6.42
	14.94	18.72	22.58	9.70
	8.99	10.66	11.38	7.56
	5.60	8.16	4.97	7.44
	3.73	5.74	6.04	3.14
	63.78	88.50	63.48	47.87
	63.53	50.96	70.60	75.63
	7.35	11.66	2.75	10.68
	210.11	262.72	242.81	195.08
	681.26	780.13	717.14	609.38
	35.78	-157.80	47.25	208.48
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	35.78	-157.80	47.25	208.48
	48.49	47.39	45.52	49.83
	-12.71	-205.19	1.73	158.65
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	3.10	3.62	2.91	2.52
	4.48	5.45	4.41	3.71
	4.26	5.30	4.21	3.44
	4.57	5.64	4.49	3.74
Net value per unit	4.50	4.20	4.50	4.73
Machinery cost per acre	178.81	211.42	178.91	147.33
Est. labor hours per acre	1.83	1.96	2.34	1.70

Corn on Cash Rent

	Ava. Of _All Farms	Low 20%	<u>40 - 60%</u>	High 20%
Number of farms	74	14	15	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	515.31 148.35 100.00 4.61 1.94 686.25 1.36 29.29 3.02 719.93	302.33 116.70 100.00 4.50 0.41 525.27 70.12 4.15 599.54	894.04 159.04 100.00 4.65 739.88 13.02 0.12 753.01	493.79 152.28 100.00 4.81 9.74 741.80 4.15 13.59 1.31 760.85
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drving expense Storage Fuel & oil Repairs Custom hire Hired labor Land rent Machinery leases Utilities Operating interest Miscellaneous Total direct expenses per acre Return over direct exp	89.77 172.95 42.09 33.33 5.18 0.53 28.55 55.17 5.99 0.95 94.57 1.99 0.74 16.41 1.05 549.29 170.64	91.77 187.98 43.29 28.74 8.47 30.04 85.97 9.01 110.28 - 17.32 612.86 -13.32	89.74 187.35 40.47 37.48 3.05 0.54 30.43 50.08 6.87 1.32 91.94 2.64 0.84 18.65 2.04 563.44 189.57	80.90 148.39 42.61 27.69 3.34 24.41 49.66 1.67 2.52 80.60 1.00 1.14 16.07 1.06 481.06 279.79
Overhead Expenses Custom hire Hired labor Machinerv 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	4.15 28.22 6.19 0.32 7.13 4.28 4.01 3.84 60.64 5.86 124.63 673.92 46.01	0.00 30.94 8.64 0.01 9.74 5.08 6.09 8.47 51.26 8.78 129.02 741.87 -142.33	1.12 38.81 5.32 0.52 6.00 3.84 5.28 3.07 75.48 4.50 143.93 707.37 45.64	5.45 17.98 6.06 0.06 6.81 2.35 0.86 3.12 44.01 2.58 89.28 570.34 190.51
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	46.01 44.52 1.49	-142.33 43.60 -185.93	45.64 47.69 -2.05	190.51 39.52 150.98
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	3.70 4.54 4.30 4.60	5.25 6.36 5.72 6.09	3.54 4.45 4.37 4.66	3.16 3.75 3.56 3.82
Net value per unit Machinery cost per acre Est. labor hours per acre	4.62 161.51 1.71	4.50 190.77 1.99	4.65 166.77 1.71	4.83 132.60 1.45

Corn Silage on Owned Land

	Avg. Of All Farms
Number of farms	10
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Gross return per acre	82.62 14.44 100.00 34.98 505.00 505.00
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	69.20 72.99 33.65 14.74 27.96 66.34 87.91 9.47 0.83 383.09 121.91
Overhead Expenses Custom hire Hired labor Machinery leases Building leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	6.63 6.28 2.10 0.46 9.67 5.02 3.21 1.94 29.74 27.19 10.19 102.44 485.52 19.48
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	19.48 34.16 -14.69
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	26.53 33.63 33.63 35.99 34.98 223.02 1.80

Corn Silage on Cash Rent

	Avg. Of All Farms
Number of farms	9
Acres Yield per acre (ton) Operators share of yield % Value per ton Other product return per acre Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	66.98 15.67 100.00 35.52 9.95 566.59 62.54 1.34 630.47
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	90.08 150.46 45.27 18.49 36.41 93.24 11.90 71.22 13.32 0.12 530.50 99.97
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	6.85 22.72 0.89 11.22 6.26 6.38 9.45 41.59 5.78 111.13 641.63 -11.16
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	-11.16 53.86 -65.02
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 acre	33.86 40.95 36.24 39.67 35.52 197.98
Est. labor hours per acre	2.09

CRP on Owned Land

	Avg. Of All Farms
Number of farms	12
Acres	96.85
Gross return per acre	85.16
Direct Expenses	
Seed and plants	1.35
Crop chemicals	0.65
Fuel & oil	0.93
Repairs	1.79
Miscellaneous	0.20
Total direct expenses per acre	4.93
Return over direct exp per acre	80.24
Overhead Expenses	
Hired labor	0.62
RE & pers. property taxes	12.61
Farm insurance	0.44
Utilities	0.46
Dues & professional fees	0.20
Interest	55.17
Mach & bldg depreciation	1.96
Miscellaneous	0.84
Total overhead expenses per acre	72.31
Total dir & ovhd expenses per acre	77.23
Net return per acre	7.93
Government payments	-
Net return with govt pmts	7.93
Labor & management charge	1.41
Net return over lbr & mgt	6.53
Net value per unit	1.00
Machinery cost per acre	4.80
Est. labor hours per acre	0.06

Hay, Alfalfa 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 Other crop income per acre Gross return per acre	97.41 1.98 100.00 111.50 220.21 14.96 235.16
Direct Expenses Fertilizer Crop insurance Fuel & oil Repairs Custom hire Operating interest Total direct expenses per acre Return over direct exp per acre	29.12 2.24 16.05 38.79 4.01 8.15 98.36 136.80
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	3.78 17.44 4.26 12.02 4.88 3.42 2.30 42.93 19.72 2.72 113.47 211.83 23.33
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	23.33 17.79 5.54
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	49.80 107.25 99.68 108.69
Net value per unit Machinery cost per acre Est. labor hours per acre	111.50 92.37 0.83

Hay, Alfalfa 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	153.27 2.21 100.00 119.96 265.08 265.08
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Hired labor Land rent Utilities Operating interest Total direct expenses per acre Return over direct exp per acre	1.04 29.21 0.54 0.70 12.22 32.30 3.92 4.47 73.08 1.56 11.81 170.87 94.21
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	1.39 9.13 2.38 6.09 2.82 6.88 5.81 16.71 1.68 52.91 223.78 41.30
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	41.30 14.07 27.23
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	77.32 101.27 101.27 107.63
Net value per unit Machinery cost per acre Est. labor hours per acre	119.96 73.07 0.67

Hay, Grass on Owned Land

	Avg. Of All Farms
Number of farms	9
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Other crop income per acre Gross return per acre	83.13 1.13 100.00 95.01 107.16 26.11 133.27
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	12.90 37.98 2.48 14.62 37.53 1.46 0.23 9.67 116.88 16.39
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	1.99 23.46 0.98 12.23 4.01 2.12 1.49 17.38 20.56 9.39 93.60 210.48 -77.21
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	-77.21 20.77 -97.98
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	103.63 186.62 163.47 181.88
Net value per unit Machinery cost per acre Est. labor hours per acre	95.01 76.79 0.97

Hay, Grass on Cash Rent

	Avg. Of All Farms
Number of farms	13
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Gross return per acre	237.91 1.19 100.00 71.25 85.09 85.09
Direct Expenses Seed and plants Fertilizer Crop chemicals Fuel & oil Repairs Custom hire Land rent Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	0.73 0.39 0.60 10.38 25.83 0.30 24.03 7.68 0.09 70.03 15.06
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	0.95 7.49 0.80 0.85 1.35 1.39 1.07 14.67 19.19 47.76 117.79 -32.70
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	-32.70 17.07 -49.77
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	58.64 98.63 98.63 112.93
Net value per unit Machinery cost per acre Est. labor hours per acre	71.25 52.35 0.80

Hay, Mixed Alfalfa/Grass on Owned Land

	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	140.81 1.92 100.00 78.97 151.98 151.98
Direct Expenses Crop insurance Fuel & oil Repairs Custom hire Operating interest Total direct expenses per acre Return over direct exp per acre	0.10 10.99 18.77 2.41 8.00 40.27 111.71
Overhead Expenses Custom hire Hired labor Machinery leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	5.87 4.07 0.78 8.08 5.06 3.23 0.59 24.72 19.19 3.35 74.95 115.22 36.76
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	36.76 15.24 21.52
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	20.93 59.87 59.87 67.79
Net value per unit Machinery cost per acre Est. labor hours per acre	78.97 60.66 0.74

Hay, Mixed Alfalfa/Grass on Cash Rent

	Avg. Of All Farms
Number of farms	13
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Gross return per acre	179.42 1.33 100.00 81.62 108.17 108.17
Direct Expenses Fuel & oil Repairs Land rent Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	11.39 15.37 26.66 8.48 0.41 62.31 45.86
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	4.92 1.16 0.23 3.25 2.24 1.39 3.97 11.70 1.11 29.97 92.28 15.89
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	15.89 16.01 -0.12
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	47.02 69.63 69.63 81.71 81.62 46.40 0.72

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 Other product return per acre Total product return per acre Crop insurance per acre Gross return per acre	59.00 2.29 100.00 80.00 1.69 185.14 24.16 209.31
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	26.58 43.37 13.94 0.75 16.39 33.21 2.34 6.69 1.14 144.40 64.90
Overhead Expenses Custom hire Hired labor Machinery leases Building leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	1.26 6.29 1.24 0.22 7.24 5.03 2.99 1.12 18.21 16.43 3.14 63.17 207.58 1.73
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	1.73 22.43 -20.70
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	62.97 90.52 79.24 89.02
Net value per unit Machinery cost per acre Est. labor hours per acre	80.00 74.33 1.22

Hay, Small Grain 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 Crop insurance per acre Other crop income per acre Gross return per acre	101.66 2.09 100.00 75.21 157.26 4.98 2.67 164.90
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	22.02 32.28 13.49 4.28 9.92 15.22 7.41 39.17 4.59 148.37 16.53
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	6.01 0.99 5.57 3.50 2.45 0.79 3.11 19.51 2.65 44.57 192.94 -28.04
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	-28.04 20.97 -49.01
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	70.96 92.27 88.62 98.65
Net value per unit Machinery cost per acre Est. labor hours per acre	75.21 64.66 0.88

Oats 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	285.11 117.33 100.00 3.93 3.37 464.56 9.87 474.44
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	26.29 103.88 43.98 34.52 20.18 38.46 8.36 57.89 7.65 0.54 341.74 132.70
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	1.57 8.38 0.73 0.23 5.56 2.85 1.69 2.95 55.09 3.65 82.71 424.45 49.99
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	49.99 32.39 17.60
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	2.91 3.62 3.50 3.78
Net value per unit Machinery cost per acre Est. labor hours per acre	3.93 123.43 1.07

Pasture on Owned Land

	Avg. Of All Farms
Number of farms	19
Acres Yield per acre (aum) Operators share of yield % Value per aum Total product return per acre Crop insurance per acre Gross return per acre	457.25 1.03 100.00 25.08 25.84 0.87 26.70
Direct Expenses Crop chemicals Crop insurance Fuel & oil Repairs Miscellaneous Total direct expenses per acre Return over direct exp per acre	0.08 1.50 0.53 1.16 0.21 3.48 23.22
Overhead Expenses RE & pers. property taxes Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	4.09 8.04 0.95 1.15 14.22 17.70 9.00
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	9.00 0.82 8.18
Cost of Production Total direct expense per aum Total dir & ovhd exp per aum Less govt & other income With labor & management	3.38 17.18 16.34 17.14
Net value per unit Machinery cost per acre Est. labor hours per acre	25.08 2.93 0.05

Pasture on Cash Rent

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	32	6	7	7
Acres	1,113.66	1,064.67	420.43	1,767.57
Yield per acre (aum)	0.88	0.82	0.73	0.92
Operators share of yield %	100.00	100.00	100.00	100.00
Value per aum	24.36	22.57	26.88	24.86
Other product return per acre	0.04	-	-	-
Total product return per acre	21.49	18.47	19.73	22.79
Crop insurance per acre	2.63	0.57	=	7.29
Gross return per acre	24.12	19.04	19.73	30.07
Direct Expenses				
Crop insurance	0.50	0.89	-	0.49
Fuel & oil	0.58	0.39	0.66	0.60
Repairs	0.99	0.87	0.92	0.67
Land rent	19.81	24.67	19.82	16.37
Miscellaneous	0.35	0.43	0.22	0.29
Total direct expenses per acre	22.23	27.25	21.61	18.42
Return over direct exp per acre	1.88	-8.21	-1.89	11.65
Overhead Expenses				
Mach & bldg depreciation	0.88	0.56	0.40	1.25
Miscellaneous	1.18	1.47	0.61	1.33
Total overhead expenses per acre	2.06	2.03	1.01	2.58
Total dir & ovhd expenses per acre	24.30	29.28	22.62	21.00
Net return per acre	-0.18	-10.24	-2.89	9.07
Government payments	-	-	_	-
Net return with govt pmts	-0.18	-10.24	-2.89	9.07
Labor & management charge	0.91	0.75	1.39	0.88
Net return over lbr & mgt	-1.09	-10.99	-4.28	8.19
Cost of Production				
Total direct expense per aum	25.25	33.30	29.45	20.09
Total dir & ovhd exp per aum	27.60	35.78	30.82	22.91
Less govt & other income	24.56	35.09	30.82	14.96
With labor & management	25.59	36.00	32.71	15.92
Net value per unit	24.36	22.57	26.88	24.86
Machinery cost per acre	2.76	2.38	2.14	2.81
Est. labor hours per acre	0.04	0.04	0.06	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 Other crop income per acre Gross return per acre	368.79 79.60 100.00 3.88 309.23 14.87 5.43 329.53
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	52.29 14.92 49.23 20.97 19.11 36.19 3.83 44.29 14.27 13.32 268.42 61.11
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	3.23 5.31 6.24 2.07 4.59 3.18 0.60 5.38 30.34 2.30 63.23 331.65 -2.12
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	-2.12 38.34 -40.46
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	3.37 4.17 3.91 4.39
Net value per unit Machinery cost per acre Est. labor hours per acre	3.88 102.66 1.02

Prevented planting on Owned Land

	Avg. Of All Farms
Number of farms	19
Acres Yield per acre Operators share of yield % Value per 0 Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	73.80 - - - 253.47 2.23 255.70
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	0.60 3.73 14.66 22.39 5.03 12.24 1.87 0.51 61.03 194.67
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	0.37 3.87 0.35 7.75 5.14 3.69 2.33 74.84 11.06 2.95 112.34 173.37 82.32
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	82.32 9.82 72.50
Net value per unit Machinery cost per acre Est. labor hours per acre	32.63 0.31

Prevented planting on Cash Rent

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	37	7	8	8
Acres Yield per acre Operators share of yield %	181.52 - -	121.39 - -	257.25 - -	149.57 - -
Value per 0 Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	306.20 2.19 308.39	131.86 131.86	261.33 2.14 263.46	626.44 1.56 628.00
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Land rent Machinery leases Organic certification Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	2.82 2.36 7.24 40.75 5.43 10.63 0.15 61.61 0.49 0.18 1.86 0.10 133.62 174.77	18.67 9.52 33.10 5.60 12.60 - 56.94 - 3.30 - 139.73 -7.87	12.00 13.76 6.62 13.74 68.89 0.80 - 1.56 0.17 117.54 145.93	15.83 - 136.35 4.64 7.16 0.83 81.70 - 0.99 1.98 0.27 249.76 378.25
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	0.71 4.19 0.75 4.60 3.02 2.86 3.87 14.03 3.19 37.21 170.83 137.55	0.26 3.11 1.76 7.39 4.98 1.44 5.04 12.69 2.82 39.49 179.23 -47.37	0.93 4.88 0.14 4.92 2.62 3.53 2.19 11.46 2.17 32.84 150.38 113.09	0.00 6.58 0.95 3.46 2.45 5.83 1.46 15.57 2.18 38.47 288.23 339.77
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	137.55 9.50 128.05	-47.37 9.57 -56.94	113.09 9.48 103.60	339.77 9.10 330.67
Net value per unit Machinery cost per acre Est. labor hours per acre	34.84 0.36	37.11 0.34	35.40 0.39	29.00 0.42

Soybeans on Owned Land

	Ava. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	77	15	16	16
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	326.19 36.67 100.00 12.29 1.96 452.60 0.28 23.14 1.18 477.20	240.10 23.44 100.00 11.84 - 277.43 - 38.79 2.09 318.31	359.18 33.12 100.00 12.56 8.55 424.33 - 37.02 - 461.35	380.30 44.74 100.00 12.53 560.59 1.15 17.00 2.67 581.41
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Storage Fuel & oil Repairs Custom hire Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	65.63 15.80 45.16 22.64 0.23 16.97 35.55 3.06 1.30 6.84 1.38 214.55 262.65	87.38 23.81 51.71 28.97 	59.77 14.43 40.38 25.67 0.12 15.58 33.12 4.22 0.43 7.34 0.43 201.49 259.86	61.47 15.33 36.89 16.70 0.85 18.58 28.92 2.71 0.33 2.75 1.26 185.78 395.63
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	1.30 13.23 2.69 11.52 6.45 3.96 2.35 45.75 40.94 5.37 133.56 348.10 129.10	4.25 9.57 1.72 11.06 6.83 3.27 1.81 65.79 39.99 3.81 148.10 413.89 -95.58	0.14 7.54 2.09 10.63 6.06 5.10 1.84 66.72 40.63 6.98 147.73 349.21	0.35 18.95 4.08 7.37 5.91 2.73 3.07 14.41 43.31 4.76 104.94 290.72 290.69
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	129.10 30.12 98.98	-95.58 30.10 -125.68	112.14 29.51 82.62	290.69 30.03 260.66
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	5.85 9.49 8.77 9.59	11.34 17.66 15.92 17.20	6.08 10.55 9.17 10.06	4.15 6.50 6.03 6.70
Net value per unit Machinery cost per acre Est. labor hours per acre	12.30 102.98 1.13	11.84 111.94 1.22	12.56 99.02 0.92	12.56 96.13 1.23

Soybeans on Cash Rent

	Avg. Of _All Farms	_ Low 20%	40 - 60%	High 20%
Number of farms	118	23	23	<u></u>
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Hedging gains/losses per acre Crop insurance per acre Other crop income per acre Gross return per acre	691.19 35.99 100.00 12.32 443.51 0.51 18.70 1.19 463.91	519.46 22.31 100.00 11.91 265.66 44.67 2.00 312.32	867.23 36.40 100.00 12.26 446.08 - 12.44 - 458.52	731.96 45.67 100.00 12.44 567.89 2.36 7.73 2.67 580.64
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	64.88 14.52 42.48 21.34 17.32 33.92 2.58 0.24 79.79 1.19 7.52 1.49 287.27 176.63	76.75 19.34 49.06 24.14 16.41 45.88 3.35 67.44 1.05 11.35 1.21 315.99 -3.67	61.48 9.83 45.65 20.38 17.64 34.51 2.19 83.39 0.42 8.11 1.39 284.99 173.52	62.23 18.06 43.40 18.43 16.58 28.98 3.61 1.00 80.09 0.95 5.76 1.10 280.19 300.45
Overhead Expenses Custom hire Hired labor Machinery leases Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	2.03 13.90 4.20 0.30 5.89 3.23 2.75 3.40 37.01 4.62 77.32 364.60 99.31	3.54 12.49 6.55 0.16 7.23 3.52 1.90 3.93 42.89 3.48 85.70 401.69 -89.37	0.90 14.53 4.14 0.75 5.54 3.69 4.18 2.62 39.98 4.16 80.49 365.48 93.04	0.82 11.27 2.82 0.10 4.92 3.31 1.21 2.92 36.93 4.59 68.90 349.09 231.56
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	99.31 28.13 71.18	-89.37 31.92 -121.28	93.04 27.45 65.59	231.56 30.19 201.37
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	7.98 10.13 9.56 10.35	14.16 18.00 15.91 17.34	7.83 10.04 9.70 10.45	6.14 7.64 7.36 8.03
Net value per unit Machinery cost per acre Est. labor hours per acre	12.34 98.69 1.13	11.91 120.72 1.20	12.26 98.89 1.03	12.49 90.58 1.08

Soybeans on Share Rent

	Avg. Of All Farms
Number of farms	13
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Crop insurance per acre Gross return per acre	269.78 31.66 71.53 12.56 284.49 48.91 333.40
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	62.35 18.31 37.43 24.08 13.87 21.25 3.20 2.35 3.52 0.32 186.69 146.71
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	1.34 11.14 2.32 0.49 5.63 4.06 1.34 2.47 53.32 2.68 84.79 271.49 61.91
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	61.91 27.43 34.49
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management Net value per unit Machinery cost per acre	8.24 11.99 9.83 11.04 12.56 96.03
Est. labor hours per acre	0.97

Sugar Beets on Cash Rent

	Ava. Of All Farms
Number of farms	8
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	265.21 24.77 100.00 64.63 1,600.77 78.55 4.51 1,683.84
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Hired labor Land rent Machinery leases Utilities Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	263.08 159.05 149.64 42.43 76.43 165.14 16.36 18.48 132.42 7.26 1.30 28.82 1.39 1,061.81 622.03
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	3.78 48.25 2.18 0.57 18.27 4.75 8.52 14.50 105.94 30.35 237.10 1,298.91 384.93
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	384.93 111.70 273.23
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	42.87 52.44 49.09 53.60
Net value per unit Machinery cost per acre Est. labor hours per acre	64.63 387.15 4.18

Sunflowers on Owned Land

	Avg. Of All Farms
Number of farms	7
Acres Yield per acre (cwt.) Operators share of yield % Value per cwt. Total product return per acre Crop insurance per acre Gross return per acre	460.51 23.99 100.00 18.34 440.06 13.41 453.47
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drying expense Fuel & oil Repairs Custom hire Operating interest Total direct expenses per acre Return over direct exp per acre	36.52 84.37 48.05 26.11 2.15 21.32 28.35 11.56 2.46 260.88 192.58
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	2.14 13.49 7.38 5.65 2.39 2.03 13.42 32.87 9.08 88.44 349.32 104.14
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	104.14 17.36 86.79
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	10.87 14.56 14.00 14.72
Net value per unit Machinery cost per acre Est. labor hours per acre	18.34 89.73 1.33

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 Gross return per acre	484.16 21.54 100.00 19.71 424.70 4.11 428.81
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Storage 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	38.93 78.87 49.84 23.88 0.18 21.90 35.67 8.47 2.67 65.46 0.38 6.38 1.40 334.04 94.77
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	6.53 14.22 3.85 4.52 3.43 2.15 2.87 46.46 5.23 89.27 423.30 5.51
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	5.51 31.65 -26.15
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management Net value per unit Machinery cost per acre Est. labor hours per acre	15.50 19.65 19.46 20.93 19.71 121.06 1.27
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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. Other product return per acre Total product return per acre Other crop income per acre Gross return per acre	231.28 51.34 100.00 10.40 8.23 542.12 0.59 542.70
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	22.81 107.54 45.03 15.61 18.18 41.30 2.98 7.65 0.33 261.43 281.27
Overhead Expenses Custom hire Hired labor Machinery leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	5.66 15.38 1.45 7.07 4.52 3.03 1.65 25.88 47.49 6.47 118.60 380.04 162.66
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	162.66 32.57 130.10
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	5.09 7.40 7.23 7.87
Net value per unit Machinery cost per acre Est. labor hours per acre	10.40 117.27 1.00

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 Other crop income per acre Gross return per acre	813.86 48.73 100.00 10.13 6.57 500.29 1.02 501.31
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	26.74 93.65 51.82 19.01 16.88 34.77 3.47 0.78 67.55 0.11 9.58 0.50 324.88 176.43
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	9.00 9.84 4.10 5.14 2.98 1.30 4.50 36.41 4.37 77.65 402.53 98.79
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	98.79 28.05 70.74
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	6.67 8.26 8.10 8.68
Net value per unit Machinery cost per acre Est. labor hours per acre	10.13 107.17 0.87

Wheat, Spring on Owned Land

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	67	13	14	14
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Other product return per acre Total product return per acre Hedging gains/losses per acre Crop insurance per acre Other crop income per acre Gross return per acre	298.92	332.13	232.91	432.26
	57.30	50.18	49.59	70.49
	100.00	100.00	100.00	100.00
	6.88	6.61	6.74	7.01
	1.71	-	2.68	-
	396.11	331.59	336.69	494.41
	0.82	-	3.59	0.77
	25.07	20.43	18.12	39.59
	2.50	3.33	3.27	1.07
	424.50	355.35	361.67	535.84
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	24.31	29.22	21.11	22.81
	101.56	104.90	95.00	101.88
	43.22	46.78	37.48	45.64
	24.90	36.10	18.91	20.97
	16.77	16.93	17.93	16.85
	31.77	45.84	42.02	20.43
	5.08	7.62	2.92	5.31
	2.01	0.54	0.01	1.90
	5.03	11.81	3.58	1.74
	1.33	2.99	0.35	1.17
	255.97	302.72	239.31	238.70
	168.53	52.62	122.37	297.14
Overhead Expenses Custom hire Hired labor Machinery leases Building leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	1.66	0.03	2.80	0.11
	9.22	11.30	5.34	13.63
	2.51	1.05	1.29	1.96
	0.36	0.77	0.33	0.38
	9.15	9.87	9.11	8.46
	6.28	6.70	4.95	5.79
	3.70	3.70	3.40	3.02
	1.94	2.17	1.27	2.19
	34.38	71.21	17.00	23.17
	35.18	34.64	27.27	42.90
	5.40	4.53	4.09	4.70
	109.78	145.97	76.84	106.31
	365.75	448.70	316.15	345.01
	58.74	-93.35	45.52	190.83
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	58.74 29.33 29.42	-93.35 30.87 -124.22	45.52 29.74 15.79	190.83 22.78 168.05
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	4.47	6.03	4.83	3.39
	6.38	8.94	6.38	4.89
	5.86	8.47	5.82	4.31
	6.37	9.08	6.42	4.63
Net value per unit	6.90	6.61	6.81	7.02
Machinery cost per acre	95.52	110.91	95.74	87.06
Est. labor hours per acre	1.21	1.08	1.32	1.13

Wheat, Spring on Cash Rent

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	95	19	19	19
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Other product return per acre Total product return per acre Hedging gains/losses per acre Crop insurance per acre Other crop income per acre Gross return per acre	699.81 58.41 100.00 7.06 1.57 414.09 0.35 14.90 1.30 430.65	522.37 47.05 100.00 6.80 3.49 323.31 17.95 0.63 341.89	843.75 60.61 100.00 6.92 - 419.12 - 11.25 1.57 431.95	708.56 68.08 100.00 7.38 5.20 507.58 1.75 7.24 0.64 517.20
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	26.29	32.44	21.71	26.14
	108.50	114.21	106.71	101.90
	48.53	49.90	49.89	47.46
	24.62	26.17	25.79	22.24
	16.77	18.49	17.17	16.77
	30.05	38.13	28.21	22.77
	5.60	7.73	2.78	4.94
	63.31	66.04	63.26	70.86
	0.95	1.59	0.29	1.55
	6.62	13.49	4.76	3.62
	1.99	1.83	0.35	1.27
	333.23	370.02	320.93	319.52
	97.42	-28.12	111.02	197.68
Overhead Expenses Custom hire Hired labor Machinery leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	2.33	0.76	5.71	1.08
	10.11	13.62	10.66	14.50
	3.37	6.47	3.50	4.14
	5.49	5.72	5.26	5.19
	3.24	4.83	2.92	3.04
	1.67	1.37	0.83	2.45
	3.85	7.03	2.62	1.84
	37.94	38.08	52.55	31.32
	5.73	8.28	5.44	4.08
	73.72	86.16	89.50	67.64
	406.95	456.18	410.42	387.17
	23.69	-114.28	21.52	130.03
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	23.69	-114.28	21.52	130.03
	29.19	29.56	29.20	28.36
	-5.49	-143.85	-7.67	101.68
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	5.70	7.86	5.29	4.69
	6.97	9.70	6.77	5.69
	6.66	9.23	6.56	5.47
	7.16	9.85	7.04	5.89
Net value per unit	7.07	6.80	6.92	7.40
Machinery cost per acre	97.56	114.52	107.87	80.37
Est. labor hours per acre	1.10	1.12	0.98	1.22

Wheat, Spring on Share Rent

	Avg. Of All Farms
Number of farms	17
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	271.44 58.79 69.06 7.15 290.11 2.63 3.66 296.40
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	20.88 85.05 39.43 19.61 15.18 26.11 3.94 2.94 4.02 0.70 217.85 78.55
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	1.15 10.67 1.57 0.43 5.65 3.58 1.42 2.59 45.44 3.12 75.61 293.46 2.94
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	2.94 26.14 -23.20
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	5.37 7.23 7.07 7.72
Net value per unit Machinery cost per acre Est. labor hours per acre	7.15 95.64 1.08

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

		g. Of arms
Number of farms		13
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 50.71 56.35 0.64 -0.08 -6.08 -2.49	Value 133.24 150.15 41.81 0.79 2.12 2.10 -58.20 -25.28 21.24 267.97
Direct Expenses Protein Vit Minerals (lb.) Aftermath Grazing (aum) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) DDGS, dry (lb.) Other feed stuffs (lb) Veterinary Fuel & oil Repairs Operating interest Miscellaneous Total direct expenses Return over direct expense	23.66 0.18 613.14 224.15 881.25 1.71 36.64 487.74	7.17 12.74 10.75 12.68 32.12 39.59 3.03 15.47 7.57 7.70 13.31 6.13 8.00 176.26 91.70
Overhead Expenses Custom hire Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		1.13 2.29 11.45 18.60 33.47 209.73 58.23
Labor & management charge Net return over lbr & mgt		21.77 36.47
Cost of Production Per Cwt. Produced Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management		176.26 209.73 228.25 250.02
Est. labor hours per unit		1.06
Other Information Number of cows Pregnancy percentage Pregnancy loss percentage Culling percentage Calving percentage Weaning percentage Weaning percentage Calves sold per cow Calf death loss percent Cow death loss percent Cows per FTE Average weaning weight Lb. weaned/exposed female Feed cost per cow Avg wgt/ Beef Calves sold Avg price / cwt.		222.9 94.5 2.4 14.5 92.2 81.7 0.84 12.7 1.8 648.7 521 425 543.52 520 262.75

Beef Cow-Calf -- Average Per Cow

	Avg. Of All Farms	
Number of farms		13
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 206.4 229.3 2.6 -0.3 -24.7 -10.1	Value 542.23 611.05 170.16 3.23 8.62 8.54 -236.86 -102.89 86.43 1,090.50
Direct Expenses Protein Vit Minerals (lb.) Aftermath Grazing (aum) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) DDGS, dry (lb.) Other feed stuffs (lb) Veterinary Fuel & oil Repairs Operating interest Miscellaneous Total direct expenses Return over direct expense	96.3 0.7 2,495.2 9122 3,586.3 7.0 149.1 1,984.9	29.17 51.83 43.76 51.62 130.73 161.11 12.35 62.96 30.80 31.32 54.16 24.96 32.55 717.31
Overhead Expenses Custom hire Hired labor Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		4.58 35.95 46.60 49.08 136.21 853.52 236.98
Labor & management charge Net return over lbr & mgt		88.58 148.40
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		176.26 209.73 228.25 250.02
Est. labor hours per unit		4.32
Other Information Number of cows Pregnancy percentage Pregnancy loss percentage Culling percentage Calving percentage Weaning percentage Weaning percentage Calves sold per cow Calf death loss percent Cow death loss percent Cows per FTE Average weaning weight Lb. weaned/exposed female Feed cost per cow Avg wgt/ Beef Calves sold Avg price / cwt.		222.9 94.5 2.4 14.5 92.2 81.7 0.84 12.7 1.8 648.7 521 425 543.52 520 262.75

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

	Avg. All Fa	
Number of farms		19
Beef Calves sold (lb) Transferred out (lb) Cull sales (lb) Government payments Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 39.24 27.56 12.34 -8.91 -15.47 45.08	Value 102.71 67.54 33.00 3.76 0.58 -41.34 -34.83 106.26 237.67
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) Hay, Grass (lb.) Haylage, Grass (lb.) Pasture (aum) Hay (lb.) Other feed stuffs (lb) Veterinary Fuel & oil Repairs Operating interest Miscellaneous Total direct expenses Return over direct expense	80.95 306.89 0.62 590.50 1,135.97 58.79 0.80 27.35 133.48	7.77 10.92 3.10 10.29 37.38 0.91 25.32 0.82 7.32 5.19 5.76 9.82 3.26 4.42 132.88 104.80
Overhead Expenses Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		4.51 5.87 7.82 18.20 151.08 86.60
Labor & management charge Net return over lbr & mgt		17.28 69.32
Cost of Production Per Cwt. Produced Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management		132.88 151.08 171.04 188.32
Est. labor hours per unit		0.73
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.		143.5 93.8 3.7 14.1 90.3 85.8 0.61 7.9 3.0 768.0 511 439 523.30 533 261.76

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

	Avg. Of All Farms	
Number of farms		19
Beef Calves sold (lb) Transferred out (lb) Cull sales (lb) Government payments Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 196.6 138.1 61.8 -44.6 -77.5 225.9	Value 514.72 338.46 165.37 18.82 2.90 -207.18 -174.54 532.48 1,191.03
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) Hay, Grass (lb.) Haylage, Grass (lb.) Pasture (aum) Hay (lb.) Other feed stuffs (lb) Veterinary Fuel & oil Repairs Operating interest Miscellaneous Total direct expenses Return over direct expense	405.7 1,537.9 3.1 2,959.1 5,692.6 294.6 4.0 137.1 668.9	38.94 54.70 15.55 51.56 190.34 4.56 126.87 4.11 36.67 26.02 28.87 49.20 16.33 22.15 665.87 525.17
Overhead Expenses Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		22.60 29.43 39.17 91.20 757.07 433.96
Labor & management charge Net return over lbr & mgt		86.59 347.37
Cost of Production Per Cwt. Produced Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management		132.88 151.08 171.04 188.32
Est. labor hours per unit		3.65
Other Information Number of cows Pregnancy percentage Pregnancy loss percentage Culling percentage Calving percentage Weaning percentage Weaning percentage Calves sold per cow Calf death loss percent Cow death loss percent Cows per FTE Average weaning weight Lb. weaned/exposed female Feed cost per cow Avg wgt/ Beef Calves sold Avg price / cwt.		143.5 93.8 3.7 14.1 90.3 85.8 0.61 7.9 3.0 768.0 511 439 523.30 533 261.76

Beef Replacement Heifers -- Average Per Head

	Avg. Of All Farms	
Number of farms	8	
Beef Replace sold (hd) Transferred out (hd) Cull sales (hd) Other income Purchased (hd) Transferred in (hd) Inventory change (hd) Gross margin	Quantity 0.63 0.67 0.05 0.22 1.07 -0.09	Value 1,058.57 1,112.80 49.79 21.09 -259.52 -1,322.73 296.28 956.29
Direct Expenses Protein Vit Minerals (lb.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) DDGS, dry (lb.) Hay (lb.) Other feed stuffs (lb) Fuel & oil Repairs Operating interest Miscellaneous Total direct expenses Return over direct expense	122.39 9.12 4,538.35 1,917.37 1,635.57 0.97 221.02 846.52 1,272.72	32.57 39.31 67.29 75.85 64.62 37.72 23.19 27.47 39.04 21.28 67.67 28.02 16.66 540.68 415.61
Overhead Expenses Custom hire Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		17.43 19.52 34.09 14.08 40.72 32.64 158.48 699.16 257.13
Labor & management charge Net return over lbr & mgt		104.72 152.41
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		1,344.20 1,465.53 1,465.53 1,545.71
Est. labor hours per unit		5.54
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. purchase weight Avg. purch price / head Avg. wgt / Beef Replace sold Avg. sales price / head		76 77 59 0.6 407.05 4.29 311.64 1,545.71 1.12 128 1,171.09 475 1,667.11

Beef Replacement Heifers -- Average Per Head Sold/Trans

	Avg All Fa	. Of arms
Number of farms		8
Beef Replace sold (hd) Transferred out (hd) Cull sales (hd) Other income Purchased (hd) Transferred in (hd) Inventory change (hd) Gross margin	Quantity 0.5 0.5 0.0 0.2 0.8 -0.1	Value 810.44 851.96 38.12 16.15 -198.68 -1,012.68 226.83 732.13
Direct Expenses Midds (lb.) Protein Vit Minerals (lb.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) DDGS, dry (lb.) Hay (lb.) Other feed stuffs (lb) Fuel & oil Repairs Operating interest Miscellaneous Total direct expenses Return over direct expense	133.8 93.7 7.0 3,474.5 1,467.9 1,252.2 0.7 169.2 648.1 840.6	12.65 24.93 30.09 51.52 58.07 49.47 28.88 17.76 21.03 17.24 16.29 51.81 21.45 12.75 413.94 318.19
Overhead Expenses Custom hire Farm insurance Utilities Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		13.34 14.94 26.10 31.17 35.77 121.33 535.27 196.86
Labor & management charge Net return over lbr & mgt		80.17 116.69
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		1,344.20 1,465.53 1,465.53 1,545.71
Est. labor hours per unit		4.24
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. purchase weight Avg. purch price / head Avg. wgt / Beef Replace sold Avg. sales price / head		76 77 59 0.6 407.09 311.64 1,545.71 1.12 128 1,171.09 475 1,667.11

Beef Backgrounding -- Average Per Cwt. Produced

	Avg All Fa	
Number of farms		10
Backgnd Beef sold (lb) Transferred out (lb) Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 359.56 44.33 -59.60 -391.38 143.96	Value 727.04 84.39 5.25 -131.56 -976.77 498.72 207.06
Direct Expenses Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) Screenings, Heavy (lb.) DDGS, dry (lb.) Other feed stuffs (lb) Fuel & oil Repairs Operating interest Miscellaneous Total direct expenses Return over direct expense	576.20 1.40 589.39 69.85 249.57 0.23 55.57 121.71 390.57	36.67 7.76 10.95 3.77 8.87 4.97 4.59 9.55 16.18 7.27 17.91 8.16 5.60 142.26 64.80
Overhead Expenses Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		2.54 4.52 6.23 12.78 10.06 36.13 178.40 28.67
Labor & management charge Net return over lbr & mgt		26.43 2.24
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		184.86 193.80 193.80 200.35
Est. labor hours per unit		1.18
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.		249 175 0.7 1.37 10.59 17.46 103.31 157.02 4.92 497 705 220.75 202.20

Beef Backgrounding -- Average Per Head

		Avg. Of All Farms	
Number of farms		10	
Backgnd Beef sold (lb) Transferred out (lb) Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 546.5 67.4 -90.6 -594.8 218.8	Value 1,105.01 128.26 7.97 -199.96 -1,484.56 757.98 314.71	
Direct Expenses Midds (lb.) Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) Pasture (aum) Screenings, Heavy (lb.) DDGS, dry (lb.) Other feed stuffs (lb) Fuel & oil Repairs Miscellaneous Total direct expenses Return over direct expense	62.6 154.8 875.7 2.1 895.8 0.3 84.5 185.0 861.6	4.91 9.80 55.74 11.80 16.65 7.55 6.98 14.51 29.09 11.06 27.22 20.92 216.22 98.49	
Overhead Expenses Hired labor Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		4.92 6.87 9.46 19.43 14.24 54.92 271.14 43.57	
Labor & management charge Net return over lbr & mgt		40.17 3.40	
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		184.86 193.80 193.80 200.35	
Est. labor hours per unit		1.80	
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.		249 175 0.7 1.37 10.59 17.46 103.31 157.02 4.92 497 705 220.75 202.20	

Figure 1. Gross Cash Income Per Farm

N.D. Farm Business Management Education Program

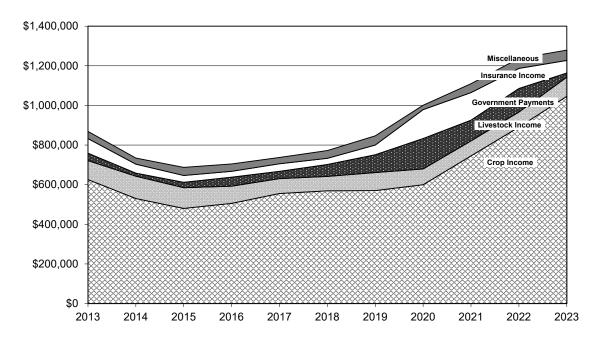


Figure 2. Net Farm Income (Accrual) Per Farm

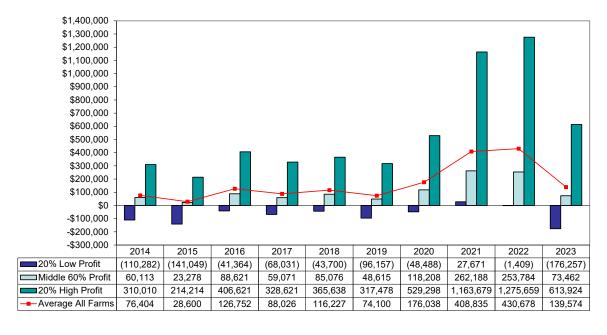


Figure 3. Financial Efficiency Measures (As Percent of Gross Revenue)

N.D. Farm Business Management Education Program

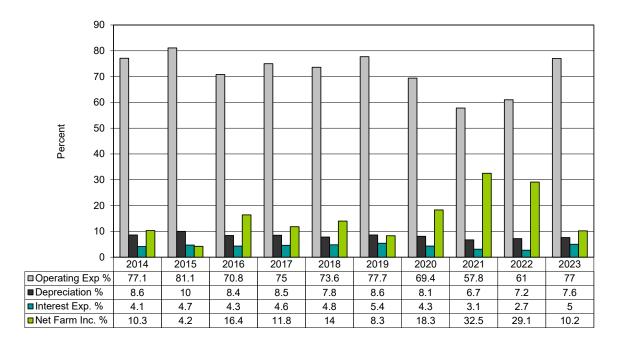


Figure 4. Profitability Measures Per Farm

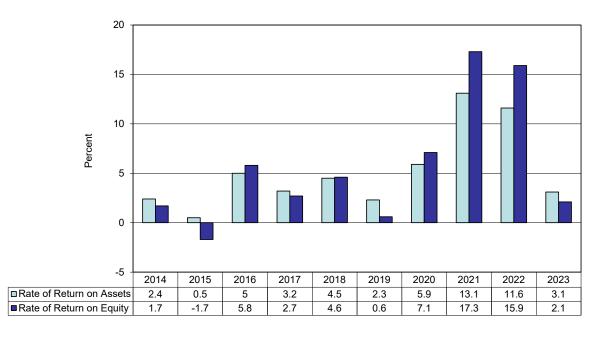


Figure 5. Assets and Liabilities Per Farm, 2023

N.D. Farm Business Management Education Program

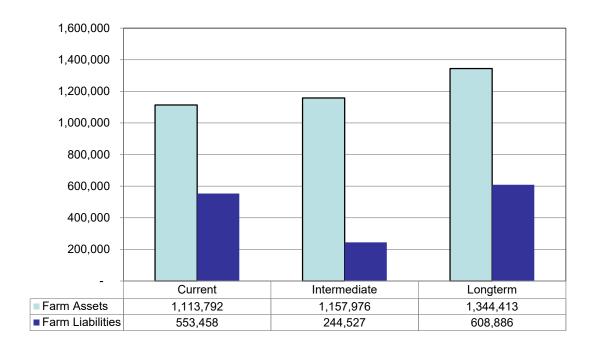


Figure 6. Total Farm Assets and Liabilities

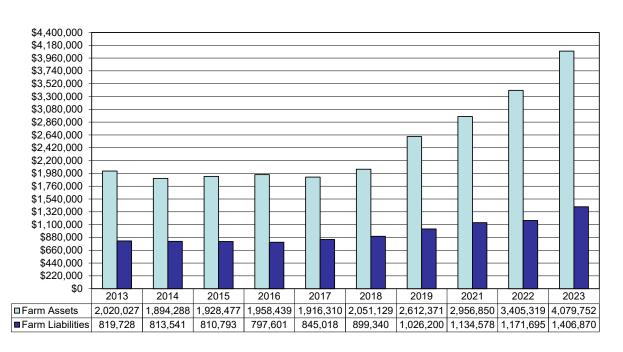


Figure 7. Household and Personal Expenses

N.D. Farm Business Management Education Program

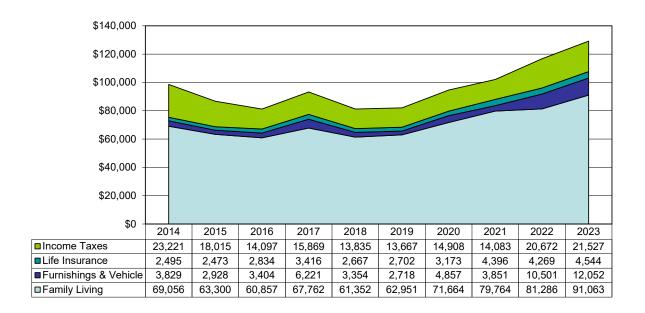


Figure 8. Crop Acreage Per Farm

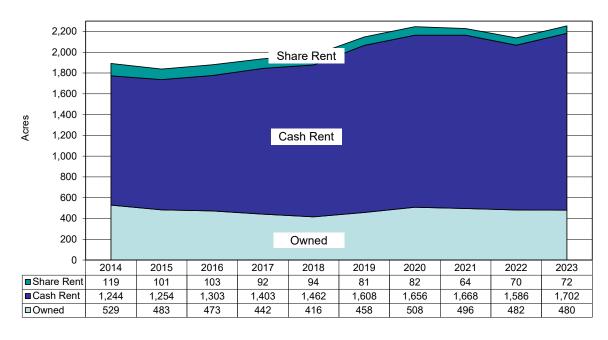


Figure 9. Spring Wheat Costs Per Acre

N.D. Farm Business Management Education Program

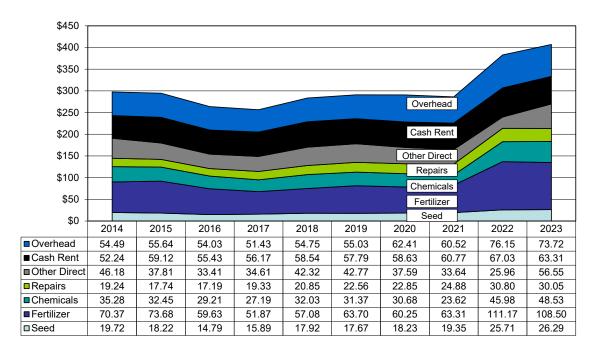
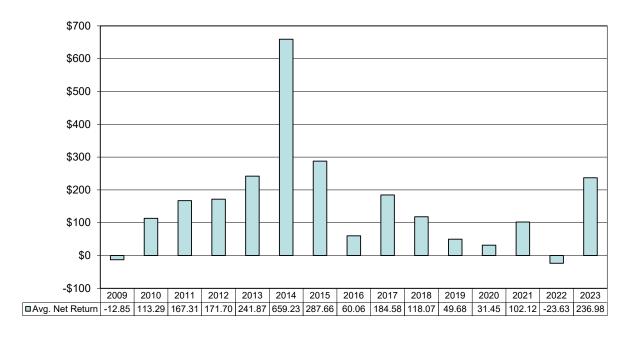


Figure 10. Average Net Return Per Beef Cow





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