2020 ANNUAL REPORT South Central North Dakota

North Dakota Farm and Ranch Business

Management Education





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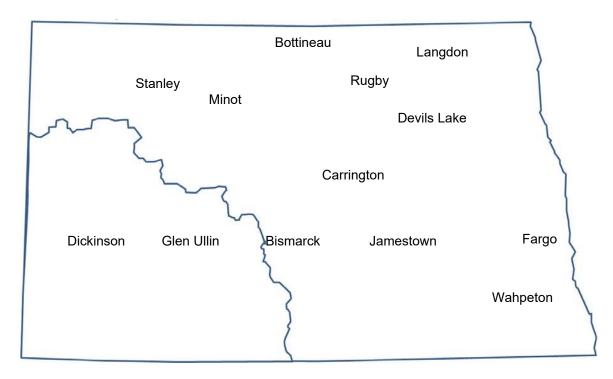
NORTH DAKOTA FARM BUSINESS MANAGEMENT EDUCATION

REGION 3 – SOUTH CENTRAL AVERAGES 2020 ANNUAL REPORT

The South Central (Region 3) farm business analyses were submitted by the following instructors represented by their cooperating schools.

School	<u>Instructor</u>
Bismarck State College Dakota College at Bottineau – Minot	
Lake Region State College - Carrington	
Fargo (NDSCS)(NDSCS)	. Kelcey Hoffmann
Jamestown (NDSCS)Wahpeton (NDSCS)	

This report was made possible by the farm families who cooperated with their farm management instructors in getting the records for 2020 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.



2020 South Central Report North Dakota Farm Business Management Education

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INTRODUCTION

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

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

The 2020 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 32nd year that the regional averages have been generated in North Dakota based upon the four regions shown in the state map on the cover of this publication. A regional report has been generated and published for Regions 2 – North Central, 3 – South Central and 4 - Western identified on the North Dakota map. Farms in Region 1 – Red River Valley are located within the Red River Valley. Those farms are contained in a combined Minnesota-North Dakota Red River Valley report. The state averages report includes all farms participating in the North Dakota Farm Business Management Education Program that were represented in the regional averages and also those farms which were processed and submitted after the March deadline date. All of these reports may be ordered from Farm Business Management, P.O. Box 6022, Bismarck, ND, 58506-6022 for \$5 per copy. The reports are available online at www.ndfarmmanagement.com.

EXPLANATORY NOTES FOR THE FARM OPERATORS' REPORTS

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

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

Farm Income Statement

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

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

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

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

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

The difference between "Gross Cash Farm Income" and "Total cash expense" is the "Net cash farm income." This is net farm income on a <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 operator's labor and management that is used in the calculation of several financial performance measures. A value of \$25,000 per full time operator plus 5% of value of farm production is used.
- "Return of farm assets" is calculated by adding "Farm interest expense" to "Net farm income" and then subtracting the "Value of operator's labor and management."
- "Average farm assets" is the average of beginning and ending total farm assets.
- "Return on farm equity" is calculated by subtracting the "Value of operator's labor and management" from "Net farm income."
- "Average farm equity" is the average of beginning and ending farm net worth.
- "Value of farm production" is gross cash farm income minus purchased feed and feeder livestock and adjusted for inventory changes in crops, market livestock, accounts receivable and breeding livestock.

Liquidity & Repayment Capacity Measures

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

Balance Sheets

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

Statement of Cash Flows

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

Financial Standards Measures

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

Liquidity

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

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

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

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

Solvency

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

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

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

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

Profitability

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

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

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

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

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

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

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

Repayment Capacity

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

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

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

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

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

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

Efficiency

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

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

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

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

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

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

Crop Production and Marketing Summary

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

Household and Personal Expenses

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

Operator and Labor Information

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

Nonfarm Summary

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

Farm Income Statement

North Dakota Farm Business Management Education Program Region 3 - South Central North Dakota, 2020 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	72	14	15	15
Cash Farm Income				
Barley	20,724	1,278	5,198	80,483
Beans, Black Turtle	3,007	-	-	-
Beans, Navy	6,043	-	29,007	-
Beans, Pinto	33,771	4,578	19,944	47,917
Corn	181,296	186,717	75,821	316,834
Hay, Small Grain	52	-	-	252
Oats	213	191	-	844
Peas, Field	1,299	-	1,169	5,067
Rye	1,307	-	2,564	-
Soybeans	310,437	183,193	178,024	749,558
Sunflowers	8,815	-	-	38,926
Sunflowers, Confectionary	3,879	-	10,679	7,942
Wheat, Durum	24,901	-	3,604	105,973
Wheat, Spring	153,683	52,270	102,524	385,616
Rented Out	1,343	3,202	240	2,039
All Hays	740	2,997	-	756
Other Crop Sales	23,633	<u>-</u>		113,436
Miscellaneous crop income	19,806	5,457	31,213	36,755
Beef Cow-Calf, Beef Calves	27,204	46,131	17,536	24,646
Beef Replacement Heifers	5,274	-	-	4,831
Beef Backgrounding	11,346	3,239	18,288	-
Beef Finishing	7,794	3,849	-	32,715
Beef Finish Yearlings	4,109	-	-	1,481
Beef Stockers	6,278	10,874	-	15,125
All Dairy	50,956	-	-	-
Sheep, Feeder Lamb Prod, Fdr Lambs	118	605	-	-
Other Livestock	1,193	5,281	-	350
Cull breeding livestock	8,804	4,357	3,714	9,610
Other livestock income	4,660	22,513	-	-
Crop government payments	43,593	24,245	27,477	88,484
CRP payments	1,998	1,699	2,990	2,343
Other government payments	134,703	76,819	94,970	263,987
Conservation govt payment	12,137	4,706	24,231	9,775
Custom work income	11,621	23,224	1,783	23,193
Patronage dividends, cash	5,850	3,344	1,352	2,566
Crop insurance income	187,531	189,711	161,294	390,220
Property insurance income	1,003	1,605	2,524	344
Sale of resale items	1,962	10,089	4 400	-
Farm rental income	5,402	24,539	1,400	-
Other farm income	17,852	8,767	14,810	32,646
Gross Cash Farm Income	1,346,336	905,478	832,356	2,794,712

Farm Income Statement (continued) North Dakota Farm Business Management Education Program Region 3 - South Central North Dakota, 2020 (Farms Sorted By Net Farm Income)

	Ava. Of _All Farms	Low 20%	40 - 60%	_High 20%
Number of farms	72	14	15	
Cash Farm Expense Seed and plants Fertilizer	120.236	61.396	79.302	231.438
	115.774	66.172	78.607	245.571
Crop chemicals Crop insurance Drying expense Storage	86.974 43.562 2,181 1,673	47.268 24.539 3,339	66.370 33.722 1,220 698	191.287 97.482 2,463 6,589
Irrigation energy	824	434	339	83
Crop miscellaneous	3,184	2.258	4,528	3.914
Consultants	3,859	1,608	906	6,462
Feeder livestock purchase	14,631	23,744	8,430	12.579
Purchased feed Breeding fees Veterinary Supplies Grazing fees	30,095 975 4,958 4,780 273	25,441 - 4,255 172 89	3,723 - 1,264 524	19,240 317 2,799 847
Grazinq fees Interest Fuel & oil Repairs Custom hire Hired labor Land rent Machinery leases Building leases Real estate taxes Farm insurance Utilities	63,980	61,956	23,977	109,911
	41,222	30,421	23,959	72,276
	89,969	93,502	57,274	132,233
	18,572	16,558	20,949	32,946
	53,009	31,083	13,538	101,646
	160,824	141,634	83,624	331,434
	16,745	19,895	3,047	38,121
	850	172	202	2,757
	7,462	5,772	5,911	12,734
	19,283	13,926	10,520	40,895
	16,830	15,144	8,794	28,427
Hauling and trucking Marketing Dues & professional fees Miscellaneous Licenses & registrations Total cash expense Net cash farm income	3,279 966 7.899 19,405 352 954,625 391,711	136 6.609 16,022 56 713,603 191,876	371 1.797 14,876 1.050 549,519 282,837	78 24.962 34,627 1,784,116 1,010,596
Inventory Changes Prepaids and supplies Accounts receivable Hedging accounts Other current assets Crops and feed Market livestock Breeding livestock Other assets Accounts pavable Accrued interest Total inventory change Net operating profit	35.606	-22.132	41.035	85.589
	-19.995	-4,781	-38.790	-52.434
	-3.402	334	-2.369	-9,485
	-305	110	-109	322
	-69.956	-164.198	-57.388	-53.013
	-1,088	11,880	2.680	-24,878
	-7.419	-19,744	-6.274	-2.932
	-6,465	298	-3,795	-33,048
	-1,412	-8.211	-9.981	-6.352
	7.118	5.941	2.391	8.899
	-67,317	-200,503	-72.600	-87,333
	324,395	-8,628	210,237	923,263
Depreciation Machinery and equipment Titled vehicles Buildings and improvements Total depreciation	-101,040	-81,196	-67,895	-240,469
	-8.628	-6.340	-3.002	-16,135
	-14.931	-10.228	-9.982	-32,605
	-124,599	-97,764	-80,878	-289,209
Net farm income from operations	199,795	-106,391	129,359	634,054
Gain or loss on capital sales	-354	-7,844	-1,373	8,405
Net farm income	199,441	-114,235	127,985	642,459

Inventory Changes North Dakota Farm Business Management Education Program Region 3 - South Central North Dakota, 2020 (Farms Sorted By Net Farm Income)

	Avg. Of			
	All Farms	Low 20%	40 - 60%	High 20%
Number of farms	72	14	15	15
Net cash farm income	391,711	191,876	282,837	1,010,596
Crops and Feed		407.070	400 400	
Ending inventory Beginning inventory	802,956 872,911	195,276 359,474	403,438 460,826	2,426,475 2,479,488
Inventory change	-69,956	-164,198	-57,388	-53,013
Market Livestock				
Ending inventory	48,619	47,681 25,884	25,752	42,302
Beginning inventory Inventory change	49,706 -1,088	35,801 11,880	23,071 2,680	67,180 -24,878
, ,	-1,000	11,000	2,000	-24,070
Accts Receivable Ending inventory	71,311	35,981	54,777	169,267
Beginning inventory	91,306	40,762	93,567	221,702
Inventory change	-19,995	-4,781	-38,790	-52,434
Prepaid Expenses and Supplies	442.000	24.040	05.074	427.540
Ending inventory Beginning inventory	143,823 108,217	24,019 46,151	85,874 44,839	437,512 351,924
Inventory change	35,606	-22,132	41,035	85,589
, ,	,	,	,	,
Hedging Activities Ending inventory	6,575	4,190	1,478	22,070
Withdrawals	9,669	1,786	-	42,000
Beginning inventory	9,635	3,924	2,194	35,944
Deposits Gain or loss	10,011 -3,402	1,718 334	1,653 -2,369	37,611 -9,485
Gain of loss	-3,402	334	-2,309	-9,403
Other Current Assets	0.000	110	407	4.400
Ending inventory Beginning inventory	8,360 8,665	110	197 306	4,426 4,104
Inventory change	-305	110	-109	322
Breeding Livestock				
Ending inventory	114,599	91,292	38,490	125,103
Capital sales Beginning inventory	9,875 119,396	10,451 109,852	13,843 53,602	- 120,811
Capital purchases	12,497	11,635	5,005	7,223
Depreciation, capital adjust	-7,419	-19,744	-6,274	-2,932
Other Capital Assets				
Ending inventory Capital sales	169,523 1,865	45,039 87	35,645	637,741 8,841
Beginning inventory	146,442	44,125	38,946	532,693
Capital purchases	31,412	702	493	146,938
Depreciation, capital adjust	-6,465	298	-3,795	-33,048
Accounts Payable	00 700	04.700	7 705	50.040
Beginning inventory Ending inventory	28,722 30,135	24,700 32,911	7,795 17,777	58,640 64,993
Inventory change	-1,412	-8,211	-9,981	-6,352
	.,	5,2 · ·	3,00.	3,332
Accrued Interest Beginning inventory	31,483	33,830	11,821	55,330
Ending inventory	24,365	27,889	9,431	46,431
Inventory change	7,118	5,941	2,391	8,899
Total inventory change	-67,317	-200,503	-72,600	-87,333
Net operating profit	324,395	-8,628	210,237	923,263
!	22 .,000	5,525	0,_0.	525,230

Depreciation North Dakota Farm Business Management Education Program Region 3 - South Central North Dakota, 2020 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	72	14	15	15
Net operating profit	324,395	-8,628	210,237	923,263
Machinery and Equipment				
Ending inventory	990,451	744,529	737,849	2,279,450
Capital sales	20,909	39,144	9,141	27,471
Beginning inventory	910,239	765,454	707,917	1,986,856
Capital purchases	202,162	99,414	106,967	560,535
Depreciation, capital adjust.	-101,040	-81,196	-67,895	-240,469
Titled Vehicles				
Ending inventory	69,900	49,937	25,573	127,660
Capital sales	1,264	870	245	2,333
Beginning inventory	67,794	46,666	24,008	121,353
Capital purchases	11,998	10,481	4,812	24,776
Depreciation, capital adjust.	-8,628	-6,340	-3,002	-16,135
Buildings and Improvements				
Ending inventory	388,574	265,969	223,368	935,983
Capital sales	894	-	-	1,293
Beginning inventory	367,951	275,579	229,184	838,908
Capital purchases	36,448	619	4,166	130,973
Depreciation, capital adjust.	-14,931	-10,228	-9,982	-32,605
Total depreciation, capital adj.	-124,599	-97,764	-80,878	-289,209
Net farm income from operations	199,795	-106,391	129,359	634,054
Gain or loss on capital sales	-354	-7,844	-1,373	8,405
Net farm income	199,441	-114,235	127,985	642,459

Profitability Measures North Dakota Farm Business Management Education Program Region 3 - South Central North Dakota, 2020 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	72	14	15	15
Profitability (assets valued at cost)				
Net farm income from operations	199,795	-106,391	129,359	634,054
Rate of return on assets	4.6 %	-4.6 %	3.7 %	6.7 %
Rate of return on equity	5.1 %	-14.1 %	3.8 %	8.0 %
Operating profit margin	14.6 %	-16.2 %	13.1 %	22.3 %
Asset turnover rate	31.9 %	28.6 %	28.5 %	30.0 %
Farm interest expense	56,861	56,015	21,586	101,012
Value of operator lbr and mgmt.	82,846	59,656	57,079	158,560
Return on farm assets	173,810	-110,032	93,866	576,506
Average farm assets	3,743,325	2,380,548	2,505,578	8,614,123
Return on farm equity	116,949	-166,047	72,280	475,494
Average farm equity	2,292,467	1,181,342	1,885,728	5,951,814
Value of farm production	1,192,839	680,083	714,268	2,586,940

Liquidity & Repayment Capacity Measures North Dakota Farm Business Management Education Program Region 3 - South Central North Dakota, 2020 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	72	14	15	15
Liquidity				
Current ratio	2.08	1.12	3.56	2.36
Working capital	612,885	41,733	504,852	1,908,395
Working capital to gross inc	49.5 %	5.7 %	69.5 %	72.9 %
Current assets	1,181,203	391,480	702,192	3,307,165
Current liabilities	568,319	349,746	197,340	1,398,770
Gross revenues (accrual)	1,237,566	729,268	726,421	2,618,759
Repayment capacity				
Net farm income from operations	199,795	-106,391	129,359	634,054
Depreciation	124,599	97,764	80,878	289,209
Personal income	38,839	55,717	31,569	51,467
Family living/owner withdrawals	-77,283	-74,203	-49,052	-107,222
Cash discrepancy	-75	-280	552	-885
Payments on personal debt	-5,164	-3,505	-7,764	-4,663
Income taxes paid	-19,239	-29,948	-15,087	-24,520
Interest on term debt	39,338	39,095	16,904	63,983
Capital debt repayment capacity	300,811	-21,752	187,359	901,423
Scheduled term debt payments	-122,454	-96,348	-77,652	-209,178
Capital debt repayment margin	178,357	-118,100	109,707	692,245
Cash replacement allowance	-70,930	-62,923	-57,803	-160,033
Replacement margin	107,427	-181,023	51,904	532,212
Term debt coverage ratio	2.46	-0.23	2.41	4.31
Replacement coverage ratio	1.56	-0.14	1.38	2.44

Balance Sheet at Cost Values North Dakota Farm Business Management Education Program Region 3 - South Central North Dakota, 2020 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	72	14	15	15
Assets				
Current Farm Assets	00.560	04.000	120 670	20E 112
Cash and checking balance Prepaid expenses & supplies	99,560 143,823	84,223 24,019	130,678 85,874	205,112 437,512
Growing crops	330	110	130	999
Accounts receivable	71,311	35,981	54,777	169,267
Hedging accounts	6,575	4,190	1,478	22,070
Crops held for sale or feed	802,956	195,276	403,438	2,426,475
Crops under government loan Market livestock held for sale	- 48,619	- 47,681	- 25,752	42,302
Other current assets	8,030	47,001	25,752 67	3,428
Total current farm assets	1,181,203	391,480	702,192	3,307,165
Intermediate Farm Assets				
Breeding livestock	114,599	91,292	38,490	125,103
Machinery and equipment Titled vehicles	990,451 69,900	744,529 49,937	737,849 25,573	2,279,450 127,660
Other intermediate assets	28,254	24,654	8,951	34,292
Total intermediate farm assets	1,203,204	910,412	810,863	2,566,505
Long Term Farm Assets				
Farm land	869,451	630,660	734,699	1,494,350
Buildings and improvements Other long-term assets	388,574 141,269	265,969 20,385	223,368 26,694	935,983 603,449
Total long-term farm assets	1,399,294	917,014	984,761	3,033,782
Total Farm Assets	3,783,701	2,218,906	2,497,817	8,907,451
Total Nonfarm Assets	343,736	513,480	256,955	445,924
Total Assets	4,127,437	2,732,386	2,754,772	9,353,375
Liabilities				
Current Farm Liabilities	04.005	07.000	0.404	40 404
Accrued interest Accounts payable	24,365 30,135	27,889 32,911	9,431 17,777	46,431 64,993
Current notes	419,249	231,390	112,597	1,122,200
Government crop loans	-		-	-,,
Principal due on term debt	94,570	57,555	57,536	165,146
Total current farm liabilities	568,319	349,746	197,340	1,398,770
Total intermediate farm liabs	231,034	256,551	108,351	347,017
Total long term farm liabilities	632,638	536,267	257,498	951,738
Total farm liabilities	1,431,991	1,142,564	563,189	2,697,524
Total nonfarm liabilities	60,125	43,779	29,943	113,416
Total liabilities	1,492,116	1,186,343	593,132	2,810,940
Net worth (farm and nonfarm)	2,635,321	1,546,043	2,161,640	6,542,435
Net worth change	153,991	-153,484	119,717	562,030
Percent net worth change	6 %	-9 %	6 %	9 %
Ratio Analysis	40.0/	20.07	20.0/	40.07
Current farm liabilities / assets Intermediate farm liab. / assets	48 % 19 %	89 % 28 %	28 % 13 %	42 % 14 %
Long term farm liab. / assets	45 %	26 % 58 %	26 %	31 %
Total debt to asset ratio	36 %	43 %	22 %	30 %

Statement Of Cash Flows

North Dakota Farm Business Management Education Program Region 3 - South Central North Dakota, 2020 (Farms Sorted By Net Farm Income)

	Avg. Of			
	All Farms	Low 20%	40 - 60%	High 20%
Number of farms	72	14	15	15
Beginning cash (farm & nonfarm)	88,739	108,304	124,570	132,056
Cash Provided By Operating Activities				
Gross cash farm income	1,346,336	905,478	832,356	2,794,712
Total cash farm expense	-954,625	-713,603	-549,519	-1,784,116
Net cash from hedging transactions	-342	68	-1,653	4,389
Cash provided by operating	391,370	191,943	281,184	1,014,985
Cash Provided By Investing Activities				
Sale of breeding livestock	9,105	10,451	12,429	-
Sale of machinery & equipment	21,049	37,193	9,207	29,244
Sale of titled vehicles	1,728	929	220	4,310
Sale of farm land	15,021	76,329	-	862
Sale of farm buildings	1,807	-	-	5,672
Sale of other farm assets	1,869	87	-	8,864
Sale of nonfarm assets	1,100	1,619	1,716	-
Purchase of breeding livestock	-12,497	-11,635	-5,005	-7,223
Purchase of machinery & equip.	-202,162	-99,414	-106,967	-560,535
Purchase of titled vehicles	-11,998	-10,481	-4,812	-24,776
Purchase of farm land	-12,066	-	-2,800	-53,920
Purchase of farm buildings	-36,448	-619	-4,166	-130,973
Purchase of other farm assets	-31,412	-702	-493	-146,938
Purchase of nonfarm assets	-20,091	-24,095	-15,463	-31,088
Cash provided by investing	-274,994	-20,339	-116,135	-906,501
Cash Provided By Financing Activities				
Money borrowed	970,370	761,958	321,112	2,170,117
Principal payments	-1,002,348	-876,405	-441,458	-2,099,610
Personal income	38,839	55,717	31,569	51,467
Family living/owner withdrawals	-77,283	-74,203	-49,052	-107,222
Income and social security tax	-19,149	-29,948	-13,618	-26,620
Capital contributions	-	-	=	-
Capital distributions	-5,216	-21,113	-	-5,333
Dividends paid	-	- -	-	-
Cash gifts and inheritances	4,382	1,301	17,146	2,389
Gifts given	-782	-2,107	-	-1,274
Other cash flows	-	-	-	-
Cash provided by financing	-91,188	-184,801	-134,302	-16,086
Net change in cash balance	25,188	-13,197	30,747	92,398
Ending cash (farm & nonfarm)	113,853	94,826	155,870	223,569
Discrepancy	75	280	-552	885

Financial Standards Measures North Dakota Farm Business Management Education Program Region 3 - South Central North Dakota, 2020 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	72	14	15	15
Liquidity Current ratio Working capital	2.08 612,885	1.12 41,733	3.56 504,852	2.36 1,908,395
Working capital to gross inc	49.5 %	5.7 %	69.5 %	72.9 %
Solvency (market)	20.0/	04.0/	47.0/	00.0/
Farm debt to asset ratio Farm equity to asset ratio	30 % 70 %	34 % 66 %	17 % 83 %	26 % 74 %
Farm debt to equity ratio	0.43	0.50	0.21	0.35
Profitability (cost)	0/			0/
Rate of return on farm assets Rate of return on farm equity	4.6 % 5.1 %	-4.6 % -14.1 %	3.7 % 3.8 %	6.7 % 8.0 %
Operating profit margin	14.6 %	-16.2 %	13.1 %	22.3 %
Net farm income EBITDA	199,441 381,256	-114,235 47,387	127,985 231,823	642,459 1,024,275
Repayment Capacity				
Capital debt repayment capacity Capital debt repayment margin Replacement margin	300,811 178,357 107,427	-21,752 -118,100 -181,023	187,359 109,707 51,904	901,423 692,245 532,212
Term debt coverage ratio Replacement coverage ratio	2.46 1.56	-0.23 -0.14	2.41 1.38	4.31 2.44
Efficiency				
Asset turnover rate (cost) Operating expense ratio	31.9 % 69.2 %	28.6 % 93.5 %	28.5 % 68.1 %	30.0 % 60.9 %
Depreciation expense ratio	10.1 %	13.4 %	11.1 %	11.0 %
Interest expense ratio Net farm income ratio	4.6 % 16.1 %	7.7 % -14.6 %	3.0 % 17.8 %	3.9 % 24.2 %

Crop Production and Marketing Summary North Dakota Farm Business Management Education Program Region 3 - South Central North Dakota, 2020 (Farms Sorted By Net Farm Income)

	Avg. Of			
	All Farms	Low 20%	40 - 60%	High 20%
Number of farms	72	14	15	15
Acreage Summary				
Total acres owned	1,071	883	1,040	1,763
Total crop acres	2,870	1,390	2,026	6,373
Crop acres owned	671	291	706	1,358
Crop acres cash rented	2,156	1,069	1,289	4,950
Crop acres share rented	43	30	31	65
Total pasture acres	369	395	197	368
Percent crop acres owned	23 %	21 %	35 %	21 %
Mach invest/crop acre cost	336	383	369	354
Mach invest/crop acre market	405	458	446	408
Average Price Received (Cash Sales	Only)			
Soybeans per bushel	8.36	8.78	8.34	8.07
Wheat, Spring per bushel	4.86	4.86	4.57	5.03
Corn per bushel	3.07	3.01	2.89	3.13
Beans, Pinto per cwt	27.29	-	-	-
Barley per bushel	3.45	-	-	-
Wheat, Durum per bushel	6.14	-	-	6.17
Canola per cwt	14.55	-	-	-
Rented Out per \$	39.47	-	-	-
Hay, Grass per ton	62.80	-	-	-
Sunflowers per cwt	18.01	-	-	-
Rye per bushel	5.04	-	-	-
Average Yield Per Acre				
Soybeans (bushel)	31.85	27.25	29.82	33.98
Wheat, Spring (bushel)	57.82	58.76	52.90	61.04
Corn (bushel)	115.72	97.69	103.79	128.52
Beans, Pinto (cwt)	16.57	-	-	17.36
Hay, Grass (ton)	1.25	- 	-	1.74
Hay, Small Grain (ton)	2.24	2.36	-	-
Sunflowers (cwt)	23.48	-	-	24.68
Wheat, Durum (bushel)	58.60	-	-	59.70
Hay, Mixed Alfalfa/Grass (ton)	1.36	-	-	-
Canola (cwt)	21.26	-	-	23.91
Hay, Alfalfa (ton)	2.93	-	-	-
Corn Silage (ton)	19.67	-	-	-
Barley (bushel)	67.63	-	-	-
Rye (bushel)	52.88	-	-	-

Household and Personal Expenses North Dakota Farm Business Management Education Program Region 3 - South Central North Dakota, 2020 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms
Number of farms	7
Average family size	2.4
Family Living Expenses Food and meals expense Medical care Health insurance Cash donations Household supplies Clothing Personal care Child / Dependent care Alimony and child support Gifts Education Recreation Utilities (household share) Personal vehicle operating exp Household real estate taxes Dwelling rent Household repairs Personal interest Disability / Long term care ins Life insurance payments Personal property insurance Miscellaneous Total cash family living expense Family living from the farm Total family living	10,175 4,158 16,282 4,268 7,468 2,354 4,683 - 4,963 165 2,502 2,447 1,168 2,168 - 794 1,665 - 1,942 1,110 2,073 70,385
Other Nonfarm Expenditures Income taxes	63,955
Furnishing & appliance purchases Nonfarm vehicle purchases Nonfarm real estate purchases Other nonfarm capital purchases Nonfarm savings & investments Total other nonfarm expenditures	59 8,843 18,065 8,434 23,942 123,299
Total cash family living investment & nonfarm capital purch	193,684

Operator and Labor Information North Dakota Farm Business Management Education Program Region 3 - South Central North Dakota, 2020 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	72	14	15	15
Number of familis	12	14	13	15
Operator Information				
Average number of operators	1.2	1.2	1.1	1.5
Average age of operators	47.5	49.5	52.2	43.9
Average number of years farming	23.3	22.2	27.9	22.9
Results Per Operator				
Working capital	513,113	34,369	473,299	1,244,606
Total assets (market)	4,320,760	3,257,930	3,294,951	7,036,266
Total liabilities	1,249,213	976,989	556,061	1,833,222
Net worth (market)	3,071,547	2,280,941	2,738,890	5,203,044
Net worth excl deferred liabs	3,071,547	2,280,941	2,738,890	5,203,044
Gross farm income	1,036,102	600,573	681,020	1,707,886
Total farm expense	868,831	688,190	559,746	1,294,373
Net farm income from operations	167,270	-87,616	121,274	413,513
Net nonfarm income	32,516	45,884	29,596	33,565
Family living & tax withdrawals	80,872	86,003	59,612	86,496
Total acres owned	896.7	727.2	975.2	1,150.0
Total crop acres	2,402.4	1,145.1	1,899.7	4,156.1
Crop acres owned	561.7	240.0	662.2	885.8
Crop acres cash rented	1,804.9	880.2	1,208.9	3,228.1
Crop acres share rented	35.8	24.8	28.6	42.2
Total pasture acres	309.1	325.1	185.0	240.0
Labor Analysis				
Number of farms	72	14	15	15
Total unpaid labor hours	2,193	1,936	1,960	3,153
Total hired labor hours	2,149	1,550	443	4,697
Total labor hours per farm	4,342	3,486	2,403	7,850
Unpaid hours per operator	1,836	1,594	1,838	2,057
Value of farm production / hour	274.72	195.10	297.23	329.54
Net farm income / unpaid hour	91.12	-54.96	66.00	201.07
Average hourly hired labor wage	27.91	25.45	30.32	23.06
Partnerships & LLCs				
Number of farms	8	1	1	4

Nonfarm Summary North Dakota Farm Business Management Education Program Region 3 - South Central North Dakota, 2020 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	72	14	15	15
Nonfarm Income				
Personal wages & salary	22,869	19,567	22,119	33,376
Net nonfarm business income	3,159	9,747	1,263	8,061
Personal rental income	579	1,893	-	467
Personal interest income	1,111	19	662	4,615
Personal cash dividends	234	-	143	953
Tax refunds	1,233	1,801	835	1,133
Other nonfarm income	9,652	22,690	6,548	2,863
Total nonfarm income	38,839	55,717	31,569	51,467
Gifts and inheritances	4,382	1,301	17,146	2,389

Financial Summary North Dakota Farm Business Management Education Program Region 3 - South Central North Dakota, 2020 (Farms Sorted By Gross Farm Income)

	(1. 4.1.110 0			·)		
	Avg. Of	100,001 -	250,001 -	500,001 -	1,000,001-	Over
	All Farms	250,000	500,000	1,000,000	2,000,000	2,000,000
Number of farms	72	8	10	26	15	12
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	1,346,336 954,625 391,711 -67,317 -124,599 199,795 -354 199,441	178,813 134,597 44,216 16,834 -8,553 52,497 -2,929 49,569	407,175 284,276 122,899 39,364 -30,187 132,076	768,872 582,910 185,962 36,725 -68,226 154,461 416 154,877	1,423,230 943,092 480,139 -168,650 -155,506 155,982 -2,992 152,990	4,170,778 2,955,124 1,215,654 -317,786 -374,062 523,806 2,668
Average net farm income Median net farm income	132,254	46,589	110,698	137,886	143,981	526,474 466,656
Profitability (cost) Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	4.6 %	4.5 %	8.4 %	6.2 %	3.4 %	4.2 %
	5.1 %	10.0 %	10.7 %	8.1 %	2.9 %	4.4 %
	14.6 %	17.3 %	26.7 %	17.6 %	11.0 %	13.4 %
	31.9 %	25.9 %	31.7 %	35.5 %	30.9 %	31.4 %
Profitability (market) Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	4.6 %	3.7 %	7.6 %	7.6 %	2.6 %	3.9 %
	5.0 %	4.9 %	8.6 %	9.2 %	2.0 %	3.9 %
	18.3 %	20.4 %	32.1 %	31.5 %	11.7 %	13.8 %
	25.3 %	18.1 %	23.5 %	24.1 %	22.4 %	28.3 %
Liquidity & Repayment (end of year) Current assets Current liabilities Current ratio Working capital Change in working capital Working capital to gross inc Term debt coverage ratio Replacement coverage ratio Term debt to EBITDA	1,181,203	197,703	388,798	596,086	999,398	4,085,886
	568,319	109,175	145,314	295,413	503,795	1,943,299
	2.08	1.81	2.68	2.02	1.98	2.10
	612,885	88,528	243,483	300,673	495,603	2,142,587
	21,092	52,477	89,310	96,035	-38,803	-147,721
	49.5 %	41.2 %	54.6 %	38.9 %	40.1 %	58.2 %
	2.46	1.30	2.68	2.48	1.75	2.99
	1.56	1.17	1.94	1.65	1.07	1.78
	2.21	6.17	1.84	2.21	2.67	1.86
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 %	72	8	10	26	15	12
	4,127,437	905,723	1,580,790	2,358,912	4,575,960	11,897,904
	1,492,116	651,196	524,932	910,743	1,635,934	4,037,142
	2,635,321	254,528	1,055,858	1,448,169	2,940,026	7,860,762
	153,991	43,699	114,664	139,593	70,367	407,338
	38 %	74 %	35 %	41 %	39 %	35 %
	36 %	72 %	33 %	39 %	36 %	34 %
	6 %	21 %	12 %	11 %	2 %	5 %
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 %	72	8	10	26	15	12
	5,160,908	1,249,476	2,086,650	3,425,758	6,153,177	13,158,340
	1,492,116	651,196	524,932	910,743	1,635,934	4,037,142
	3,668,792	598,280	1,561,718	2,515,015	4,517,244	9,121,199
	202,208	49,812	138,827	242,531	93,069	420,322
	30 %	52 %	26 %	28 %	28 %	31 %
	29 %	52 %	25 %	27 %	27 %	31 %
	6 %	9 %	10 %	11 %	2 %	5 %
Nonfarm Information Net nonfarm income Farms reporting living expenses Total family living expense Total living, invest, cap. purch	38,839 7 70,385 193,684	40,380 1 -	51,332 1 -	29,745 2 -	49,946 2 -	30,578 1 -
Crop Acres Total crop acres Total crop acres owned Total crop acres cash rented Total crop acres share rented Machinery value per crop acre	2,870	420	1,161	1,827	2,741	8,552
	671	86	406	535	737	1,524
	2,156	300	719	1,259	1,968	6,947
	43	34	36	32	36	81
	405	187	359	423	468	384

Financial Summary North Dakota Farm Business Management Education Program Region 3 - South Central North Dakota, 2020 (Farms Sorted By Age of Operator)

	•		•			
	Avg. Of All Farms	Less Than 31	<u>31 - 40</u>	41 - 50	51 - 60	Over 60
Number of farms	72	11	12	9	21	19
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	1,346,336	875,738	791,672	1,460,166	1,749,252	1,469,854
	954,625	654,456	572,310	1,138,842	1,276,153	927,234
	391,711	221,282	219,362	321,324	473,099	542,620
	-67,317	66,261	33,237	-80,127	-129,474	-133,391
	-124,599	-57,186	-51,428	-112,923	-143,705	-194,256
	199,795	230,357	201,171	128,274	199,920	214,973
	-354	2,294	697	-83	10	-3,081
	199,441	232,650	201,867	128,191	199,930	211,892
	132,254	109,112	147,441	68,635	147,139	134,652
Profitability (cost) Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	4.6 %	11.6 %	9.2 %	3.0 %	4.8 %	2.7 %
	5.1 %	21.0 %	14.8 %	2.3 %	5.4 %	2.6 %
	14.6 %	21.1 %	23.1 %	7.9 %	14.2 %	12.1 %
	31.9 %	54.7 %	39.8 %	38.0 %	33.9 %	22.5 %
Profitability (market) Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	4.6 %	12.1 %	9.4 %	3.8 %	3.5 %	3.7 %
	5.0 %	20.7 %	14.0 %	4.0 %	3.1 %	3.8 %
	18.3 %	23.7 %	27.0 %	11.9 %	14.1 %	21.1 %
	25.3 %	51.0 %	34.9 %	32.2 %	25.1 %	17.7 %
Liquidity & Repayment (end of year) Current assets Current liabilities Current ratio Working capital Change in working capital Working capital to gross inc Term debt coverage ratio Replacement coverage ratio Term debt to EBITDA	1,181,203	810,292	648,908	1,108,741	1,129,943	1,823,109
	568,319	468,306	278,565	620,991	815,123	511,490
	2.08	1.73	2.33	1.79	1.39	3.56
	612,885	341,986	370,343	487,750	314,820	1,311,618
	21,092	92,857	89,495	35,316	52,234	-104,813
	49.5 %	35.7 %	47.2 %	36.3 %	20.6 %	100.2 %
	2.46	4.24	2.75	1.56	1.64	4.16
	1.56	3.43	2.11	1.04	1.25	1.57
	2.21	1.54	2.49	3.56	2.98	1.09
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 %	72	11	12	9	21	19
	4,127,437	2,017,011	2,215,270	3,872,267	4,676,710	6,070,727
	1,492,116	1,084,166	1,066,815	1,866,444	2,222,085	1,012,788
	2,635,321	932,845	1,148,455	2,005,823	2,454,625	5,057,939
	153,991	224,882	199,299	53,576	134,570	153,365
	38 %	54 %	49 %	52 %	51 %	17 %
	36 %	54 %	48 %	48 %	48 %	17 %
	6 %	32 %	21 %	3 %	6 %	3 %
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 %	72	11	12	9	21	19
	5,160,908	2,163,359	2,531,167	4,571,726	6,203,521	7,683,943
	1,492,116	1,084,166	1,066,815	1,866,444	2,222,085	1,012,788
	3,668,792	1,079,193	1,464,351	2,705,283	3,981,436	6,671,156
	202,208	249,320	230,201	111,987	139,749	269,023
	30 %	51 %	43 %	44 %	38 %	13 %
	29 %	50 %	42 %	41 %	36 %	13 %
	6 %	30 %	19 %	4 %	4 %	4 %
Nonfarm Information Net nonfarm income Farms reporting living expenses Total family living expense Total living, invest, cap. purch	38,839 7 70,385 193,684	34,666 - - -	46,981 1 -	33,232 - - -	34,019 1 -	44,094 5 65,757 209,338
Crop Acres Total crop acres Total crop acres owned Total crop acres cash rented Total crop acres share rented Machinery value per crop acre	2,870 671 2,156 43 405	2,028 141 1,887 250	2,043 428 1,587 28 319	3,235 564 2,641 30 364	3,513 968 2,497 47 408	2,995 853 2,064 78 520

Financial Summary North Dakota Farm Business Management Education Program Region 3 - South Central North Dakota, 2020 (Farms Sorted By Farm Type)

	Ava. Of			
	AVG. Of All Farms	Crop	Beef	Other
Number of farms	72	51	8	8
Income Statement	4 0 40 000	4 = 0 4 0 0 0	100.001	071000
Gross cash farm income Total cash farm expense	1,346,336 954,625	1,564,262 1,076,137	420,031 342,913	654,298 444,098
Net cash farm income	391,711	488,125	77,118	210,199
Inventory change	-67,317	-80,087	29,161	-125,657
Depreciation	-124,599	-151,174	-21,467	-85,720
Net farm income from operations	199,795	256,863	84,812	-1,177 7,206
Gain or loss on capital sales Average net farm income	-354 199,441	1,333 258,196	-6,115 78.698	-7,206 -8,383
Median net farm income	132,254	149,985	64,308	34,399
Profitability (cost)				
Rate of return on assets	4.6 %	5.2 %	4.5 %	-0.8 %
Rate of return on equity Operating profit margin	5.1 % 14.6 %	5.9 % 15.9 %	5.5 % 21.0 %	-4.0 % -3.4 %
Asset turnover rate	31.9 %	32.4 %	21.2 %	23.5 %
Profitability (market)				
Rate of return on assets	4.6 % 5.0 %	5.3 % 5.8 %	3.8 % 4.1 %	0.3 % -0.7 %
Rate of return on equity Operating profit margin	18.3 %	19.9 %	24.9 %	2.8 %
Asset turnover rate	25.3 %	26.4 %	15.2 %	12.5 %
Liquidity & Repayment (end of year)				
Current assets Current liabilities	1,181,203 568,319	1,483,301 685,127	364,036 213,511	353,773 191,263
Current liabilities Current ratio	2.08	2.17	1.70	191,263
Working capital	612,885	798,174	150,524	162,509
Change in working capital	21,092	9,481	97,657	-81,119
Working capital to gross inc	49.5 %	55.9 %	33.2 %	29.8 %
Term debt coverage ratio Replacement coverage ratio	2.46 1.56	2.74 1.68	2.10 1.54	0.49 0.27
Term debt to EBITDA	2.21	1.90	3.27	5.27
Solvency (end of year at cost)	70		•	
Number of farms Total assets	72 4,127,437	51 4,786,942	8 1,740,054	8 2,733,527
Total liabilities	1,492,116	1,659,916	716,288	868,128
Net worth	2,635,321	3,127,026	1,023,765	1,865,399
Net worth change	153,991	205,770	73,608	-44,552
Farm debt to asset ratio Total debt to asset ratio	38 % 36 %	36 % 35 %	44 % 41 %	39 % 32 %
Change in earned net worth %	6 %	7 %	8 %	-2 %
Solvency (end of year at market)				
Number of farms	72	51	8	8
Total assets	5,160,908	5,835,842	2,370,286	4,653,480
Total liabilities	1,492,116	1,659,916	716,288	868,128
Net worth Total net worth change	3,668,792 202,208	4,175,926 266,715	1,653,998 83,720	3,785,352 -10,947
Farm debt to asset ratio	30 %	29 %	32 %	20 %
Total debt to asset ratio	29 %	28 %	30 %	19 %
Change in total net worth %	6 %	7 %	5 %	0 %
Nonfarm Information Net nonfarm income	38,839	33,561	32,341	79,207
Farms reporting living expenses	7	4	1	2
Total family living expense	70,385	-	-	-
Total living, invest, cap. purch	193,684	-	-	-
Crop Acres Total crop acres	2,870	3,617	671	639
Total crop acres owned	671	820	196	424
Total crop acres cash rented	2,156	2,745	457	215
Total crop acres share rented Machinery value per crop acre	43 405	52 414	19 521	399
Madimidity value per crop acre	400	414	J2 I	599

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.

Coronavirus Food Assistance Program 2, a 2020 USDA FSA program that provides producers with financial assistance that gives them the ability to absorb some of the increased marketing costs associated with the COVID-19 pandemic, are included under "Other crop income per acre." "Government payments" are ARC and PLC payments as well as Coronavirus Food Assistance Program 1.

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

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

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

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

Barley on Cash Rent

	Avg. Of All Farms
Number of farms	6
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	667.57 67.15 100.00 4.85 325.64 22.60 32.95 381.19
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Land rent Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	21.05 45.30 30.59 17.41 14.98 29.21 3.31 68.32 4.78 0.62 235.56 145.63
Overhead Expenses Custom hire Hired labor Machinery leases Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	2.24 20.50 8.10 0.57 5.45 5.94 4.99 0.64 50.36 4.65 103.44 339.00 42.18
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	22.93 65.11 23.71 41.41
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	3.51 5.05 3.88 4.23
Net value per unit Machinery cost per acre Est. labor hours per acre	4.85 102.66 1.51

Beans, Pinto on Cash Rent

	Avg. Of All Farms
Number of farms	8
Acres Yield per acre (cwt.) Operators share of yield % Value per cwt. Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	842.35 17.45 100.00 27.62 482.00 43.79 21.67 547.46
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Land rent Utilities Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	60.45 45.39 63.68 38.41 17.26 41.92 1.58 70.86 0.24 8.43 2.45 350.65 196.82
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	5.17 21.41 6.89 1.08 4.84 4.70 2.65 2.39 47.74 6.24 103.12 453.76 93.70
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	17.58 111.28 33.33 77.95
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	20.09 26.00 21.24 23.15 27.62 118.58
Est. labor hours per acre	1.63

Corn on Owned Land

	Ava. Of All Farms
Number of farms	16
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Hedging gains/losses per acre Crop insurance per acre Other crop income per acre Gross return per acre	129.60 102.66 100.00 3.88 398.69 0.20 19.68 46.66 465.23
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	78.45 94.86 24.14 17.60 17.20 49.04 2.95 0.95 12.44 0.88 298.50 166.73
Overhead Expenses Custom hire Hired labor Machinery leases Building leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	5.45 18.58 6.22 1.34 9.18 6.02 7.01 2.73 61.99 45.49 5.42 169.41 467.91 -2.68
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	21.06 18.38 36.76 -18.39
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	2.91 4.56 3.70 4.06
Net value per unit Machinery cost per acre Est. labor hours per acre	3.89 127.46 1.87

Corn on Cash Rent

	Avg. Of _All Farms	Low 20%	40 - 60%	_High 20%
Number of farms	25	5	5	5
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	520.62 116.21 100.00 4.10 0.44 477.06 0.39 25.89 46.84 550.19	194.20 93.71 100.00 3.51 - 328.80 - 45.90 374.69	1,211.66 110.49 100.00 4.03 - 445.57 0.85 20.94 43.79 511.16	400.70 155.48 100.00 4.31 2.87 672.39 - 40.42 712.81
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drying expense Storage Fuel & oil Repairs Custom hire Land rent Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	79.50 89.48 21.59 15.12 1.75 1.83 19.28 47.85 4.80 75.96 1.89 11.36 0.79 371.18	84.09 88.88 19.11 10.03 0.01 - 16.54 72.02 0.06 79.11 0.20 14.21 - 384.25 -9.55	80.05 84.55 19.68 12.32 3.54 - 21.47 55.99 0.12 79.53 3.85 9.67 0.21 370.98 140.17	90.33 90.18 17.43 13.91 - 11.90 14.52 26.22 26.07 68.11 - 9.10 - 367.76 345.05
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	3.20 28.00 10.08 0.67 5.55 7.59 2.01 3.16 48.63 5.36 114.26 485.44 64.76	3.56 5.85 6.74 0.01 7.17 15.32 8.64 3.70 45.09 6.57 102.64 486.89 -112.20	0.29 41.74 10.16 0.19 5.51 8.06 0.60 3.25 46.09 5.03 120.92 491.90 19.26	4.15 14.74 2.72 4.05 5.58 1.45 3.45 61.97 8.11 106.23 473.99 238.82
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	20.80 85.56 38.31 47.25	25.00 -87.19 41.11 -128.31	20.82 40.07 34.10 5.97	22.14 260.96 47.49 213.48
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	3.19 4.18 3.37 3.69	4.10 5.20 4.44 4.88	3.36 4.45 3.67 3.98	2.37 3.05 2.63 2.93
Net value per unit Machinery cost per acre Est. labor hours per acre	4.10 132.91 1.76	3.51 143.93 1.51	4.04 133.28 1.69	4.31 133.14 1.98

Corn Silage on Owned Land

	Avg. Of All Farms
Number of farms	5
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	43.90 17.95 100.00 29.25 525.09 21.04 546.13
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	72.42 88.09 36.81 2.31 16.29 54.15 62.23 4.61 0.21 337.12 209.01
Overhead Expenses Custom hire Hired labor Machinery leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	3.92 9.68 2.23 8.33 5.11 4.41 0.62 19.44 29.33 5.94 89.02 426.14 119.99
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	20.48 140.47 25.74 114.73
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	18.78 23.74 21.43 22.86
Machinery cost per acre Est. labor hours per acre	168.74 1.98

CRP on Owned Land

	Avg. Of All Farms
Number of farms	10
Acres Gross return per acre	160.21 62.53
Direct Expenses Repairs Miscellaneous Total direct expenses per acre Return over direct exp per acre	16.96 0.96 17.93 44.61
Overhead Expenses RE & pers. property taxes Farm insurance Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	6.52 1.19 19.37 2.66 1.70 31.44 49.37 13.17
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	13.17 1.45 11.72
Net value per unit Machinery cost per acre Est. labor hours per acre	1.00 19.98 0.07

Hay, Alfalfa on Owned Land

	Avg. Of All Farms
Number of farms	5
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	111.40 2.87 100.00 69.90 200.85 19.52 220.37
Direct Expenses Fertilizer Fuel & oil Repairs Custom hire Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	1.53 16.08 52.49 0.70 5.21 0.24 76.25 144.12
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	1.05 26.29 8.71 9.47 5.41 5.55 1.08 47.96 34.15 2.45 142.13 218.38 1.99
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	5.90 7.88 26.83 -18.95
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	26.54 76.00 67.15 76.49 69.90 109.60 1.41

Hay, Alfalfa on Cash Rent

	Avg. Of All Farms
Number of farms	6
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	86.83 2.99 100.00 80.40 240.39 22.69 17.10 280.18
Direct Expenses Seed and plants Fertilizer Crop insurance Fuel & oil Repairs Land rent Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	14.72 2.32 3.69 15.42 30.87 58.07 2.53 4.22 131.83 148.35
Overhead Expenses Custom hire Hired labor Machinery leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	1.12 18.39 4.03 5.32 5.53 3.30 1.67 53.90 1.74 95.01 226.84 53.34
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	18.21 71.55 23.22 48.33
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	44.09 75.87 56.47 64.23 80.40 100.16 1.63

Hay, Grass on Cash Rent

	Avg. Of All Farms
Number of farms	6
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	285.50 1.13 100.00 74.73 84.68 1.48 86.15
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	2.18 2.68 1.20 6.80 25.16 1.38 20.52 2.29 1.54 63.75 22.40
Overhead Expenses Hired labor Machinery leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	8.51 0.30 0.95 1.42 0.06 1.17 12.25 3.98 28.64 92.39 -6.24
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	0.84 -5.40 11.68 -17.07
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	56.26 81.54 79.49 89.80 74.73 46.44 1.56
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Hay, Small Grain on Owned Land

	Avg. Of All Farms
Number of farms	5
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	83.94 2.33 100.00 67.07 156.20 25.30 181.51
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	19.53 32.04 6.20 2.19 11.05 31.41 4.80 0.96 3.59 1.05 112.82 68.68
Overhead Expenses Custom hire Hired labor Machinery leases Building leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	0.34 7.52 2.11 0.64 7.51 3.63 3.23 0.51 19.86 28.04 4.53 77.91 190.73 -9.22
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	19.34 10.11 20.20 -10.09
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	48.45 81.90 62.73 71.40
Net value per unit Machinery cost per acre Est. labor hours per acre	67.07 77.66 1.26

Hay, Small Grain on Cash Rent

	Avg. Of All Farms
Number of farms	7
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Other crop income per acre Gross return per acre	66.69 1.96 100.00 66.39 130.39 22.87 153.26
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	15.32 29.51 10.73 2.75 7.47 16.00 5.47 40.72 3.11 0.22 131.30 21.96
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	1.11 4.72 2.39 0.16 3.27 4.32 0.58 3.70 17.54 4.20 41.99 173.29 -20.03
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	24.76 4.73 17.99 -13.26
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	66.86 88.24 63.99 73.15
Net value per unit Machinery cost per acre Est. labor hours per acre	66.39 51.67 0.94

Pasture on Owned Land

	Avg. Of All Farms
Number of farms	16
Acres Yield per acre (aum) Operators share of yield % Value per aum Total product return per acre Other crop income per acre Gross return per acre	503.48 1.25 100.00 21.73 27.09 2.57 29.66
Direct Expenses Crop chemicals Fuel & oil Repairs Miscellaneous Total direct expenses per acre Return over direct exp per acre	0.16 0.48 5.16 0.12 5.92 23.74
Overhead Expenses Hired labor RE & pers. property taxes Farm insurance Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	0.47 3.78 1.10 0.21 14.43 1.13 0.99 22.11 28.03 1.63
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	1.63 0.83 0.80
Cost of Production Total direct expense per aum Total dir & ovhd exp per aum Less govt & other income With labor & management	4.75 22.49 20.42 21.09
Net value per unit Machinery cost per acre Est. labor hours per acre	21.73 6.81 0.06

Pasture on Cash Rent

	Avg. Of All Farms
Number of farms	16
Acres Yield per acre (aum) Operators share of yield % Value per aum Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	766.65 1.43 100.00 23.26 33.37 11.69 0.96 46.02
Direct Expenses Crop insurance Fuel & oil Repairs Land rent Miscellaneous Total direct expenses per acre Return over direct exp per acre	1.90 0.37 0.93 20.28 0.08 23.55 22.47
Overhead Expenses Hired labor Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	0.39 1.18 0.71 2.29 25.84 20.18
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	20.18 0.73 19.44
Cost of Production Total direct expense per aum Total dir & ovhd exp per aum Less govt & other income With labor & management	16.42 18.01 9.19 9.71
Net value per unit Machinery cost per acre Est. labor hours per acre	23.26 2.51 0.05

Prevented Planting on Owned Land

	Avg. Of All Farms
Number of farms	20
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	388.25 - - - 202.29 4.64 206.93
Direct Expenses Seed and plants Crop chemicals Cover crop expense Crop insurance Fuel & oil Repairs Custom hire Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	0.43 5.60 2.35 10.72 4.42 11.98 0.49 0.32 4.59 1.40 42.31 164.63
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	0.40 2.03 1.56 8.27 5.97 4.36 1.60 38.87 17.33 6.83 87.22 129.53 77.41
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	24.00 101.41 10.93 90.48
Net value per unit Machinery cost per acre Est. labor hours per acre	38.94 0.40

Prevented Planting on Cash Rent

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	26	5	5	6
Acres Gross return per acre	585.95 223.38	442.49 148.84	945.74 221.07	1,022.66 258.62
Direct Expenses Seed and plants Crop chemicals Cover crop expense 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	1.55 6.02 0.77 19.09 2.98 6.96 2.25 76.10 0.50 3.03 0.30 119.56 103.82	8.81 12.63 2.43 5.23 1.95 64.63 0.02 95.70 53.15	2.05 5.46 	1.45 5.53 1.75 23.20 2.26 8.31 4.21 79.16 0.03 0.97
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	0.62 3.98 1.18 5.20 2.71 2.13 2.97 9.88 6.57 35.23 154.79 68.59	1.56 0.99 5.00 3.55 7.09 3.36 10.66 6.21 38.43 134.13 14.71	2.17 2.01 6.39 3.02 1.01 5.89 13.46 5.56 39.49 163.96 57.11	1.28 7.24 0.45 4.64 0.88 1.46 0.83 6.11 6.45 29.34 156.22 102.41
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt Net value per unit Machinery cost per acre	23.44 92.03 8.22 83.81 1.00 26.47	29.63 44.34 7.72 36.62	23.05 80.15 9.19 70.96	20.42 122.83 6.85 115.97
Est. labor hours per acre	0.34	0.39	0.34	0.28

Soybeans on Owned Land

	Avq. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	27	5	6	6
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	509.17	696.52	464.95	585.80
	32.67	29.55	34.29	36.43
	100.00	100.00	100.00	100.00
	10.26	9.08	9.97	11.97
	335.24	268.24	341.80	436.06
	0.01	-	-	-
	7.38	1.05	10.88	17.47
	21.62	21.85	19.11	26.69
	364.25	291.13	371.79	480.22
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	58.09 7.33 29.68 11.80 11.30 26.03 2.76 0.82 4.61 1.83 154.23 210.01	59.38 27.97 10.84 11.50 25.81 1.70 1.58 3.63 3.03 145.44 145.69	59.60 16.90 30.95 12.89 14.54 31.41 3.31 0.21 2.09 0.48 172.37 199.42	51.16 2.21 23.72 10.83 10.34 24.69 5.71 1.33 11.52 2.08 143.60 336.62
Overhead Expenses Custom hire Hired labor Machinery leases Building leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	0.34 7.19 2.15 0.44 8.57 5.56 4.92 3.12 36.07 42.70 6.93 117.99 272.22 92.02	0.55 8.20 1.86 1.17 8.66 5.95 6.98 8.67 61.49 47.92 6.29 157.74 303.18 -12.05	0.54 4.30 2.07 9.60 6.82 7.43 2.27 41.82 45.90 10.86 131.59 303.96 67.83	0.38 6.23 3.43 0.51 8.04 5.64 3.17 0.56 38.10 36.43 5.04 107.51 251.11 229.11
Government payments	28.42	26.95	29.18	27.67
Net return with govt pmts	120.44	14.90	97.01	256.78
Labor & management charge	24.21	21.84	29.01	22.76
Net return over lbr & mgt	96.23	-6.94	68.01	234.02
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	4.72	4.92	5.03	3.94
	8.33	10.26	8.86	6.89
	6.58	8.57	7.14	4.92
	7.32	9.31	7.98	5.55
Net value per unit	10.26	9.08	9.97	11.97
Machinery cost per acre	85.14	90.19	96.95	84.22
Est. labor hours per acre	1.06	0.96	1.14	0.95

Soybeans on Cash Rent

	Ava. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	42	8	9	9
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	874.55 31.34 100.00 9.84 308.34 0.17 14.99 24.28 347.77	549.44 25.74 100.00 9.11 234.52 11.31 31.17 277.00	1,374.60 31.61 100.00 9.46 298.96 0.51 5.35 23.10 327.91	643.86 37.90 100.00 11.42 432.71 2.07 22.48 457.25
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	57.30	60.17	61.46	50.69
	9.55	14.43	14.09	6.68
	26.92	35.36	26.62	24.87
	12.13	9.40	9.52	12.04
	12.64	13.02	11.78	9.44
	25.95	30.54	21.80	17.91
	1.36	2.60	0.71	2.37
	66.23	68.54	62.15	65.69
	1.50	-	3.25	1.11
	5.04	6.61	2.24	9.48
	1.27	1.35	1.34	0.79
	219.89	242.02	214.97	201.07
	127.88	34.99	112.94	256.19
Overhead Expenses Custom hire Hired labor Machinery leases Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	0.90	1.70	0.40	0.28
	13.06	6.80	17.28	6.14
	4.68	4.89	0.89	4.32
	0.54	0.35	0.01	0.79
	5.27	5.46	4.81	5.47
	4.91	6.02	3.98	4.08
	2.79	0.83	2.05	1.03
	3.08	2.72	2.27	4.36
	39.74	38.54	42.43	40.57
	5.91	13.38	5.22	5.51
	80.88	80.69	79.34	72.56
	300.78	322.70	294.31	273.63
	47.00	-45.70	33.60	183.62
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	24.94	20.87	23.68	29.91
	71.93	-24.83	57.29	213.54
	24.38	27.26	21.60	24.68
	47.56	-52.09	35.69	188.86
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	7.02	9.40	6.80	5.30
	9.60	12.54	9.31	7.22
	7.54	10.08	7.65	5.78
	8.32	11.14	8.33	6.43
Net value per unit	9.84	9.11	9.47	11.42
Machinery cost per acre	85.06	88.48	78.68	77.61
Est. labor hours per acre	1.12	1.17	1.15	1.03

Soybeans on Share Rent

	Avg. Of All Farms
Number of farms	8
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	169.96 36.64 59.55 8.89 193.97 12.52 15.38 221.87
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	39.80 3.24 24.89 6.94 12.80 25.31 3.82 3.37 0.24 120.40 101.47
Overhead Expenses Custom hire Hired labor Machinery leases Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	0.06 7.59 1.16 0.21 4.73 4.84 2.32 2.18 40.15 7.30 70.54 190.93 30.93
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	19.58 50.52 32.06 18.46
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	5.52 8.75 6.57 8.04
Net value per unit Machinery cost per acre Est. labor hours per acre	8.89 81.21 1.62

Sunflowers on Cash 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 Other crop income per acre Gross return per acre	477.33 24.02 100.00 18.62 447.27 4.07 25.04 476.38
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drying expense Fuel & oil Repairs Custom hire Land rent Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	33.15 37.75 40.71 11.69 2.71 15.88 23.08 8.92 63.61 0.97 3.26 1.09 242.82 233.56
Overhead Expenses Hired labor Machinery leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	8.52 5.31 4.13 4.02 1.72 2.84 43.14 6.19 75.87 318.69 157.69
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	25.18 182.87 28.32 154.54
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	10.11 13.27 11.01 12.18 18.62 93.95
Est. labor hours per acre	1.14

Wheat, Durum on Cash Rent

	Avg. Of All Farms
Number of farms	6
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Other crop income per acre Gross return per acre	468.14 57.52 100.00 6.68 384.17 24.18 408.35
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	31.94 69.57 40.72 9.90 14.52 24.33 1.49 50.50 0.92 4.69 0.95 249.52 158.83
Overhead Expenses Custom hire Hired labor Machinery leases Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	0.34 9.12 0.96 0.07 4.41 2.75 2.56 5.57 44.48 6.56 76.83 326.35 82.00
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	22.79 104.79 25.56 79.23
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	4.34 5.67 4.86 5.30
Net value per unit Machinery cost per acre Est. labor hours per acre	6.68 87.43 1.03

Wheat, Spring on Owned Land

	Ava. Of All Farms	_High 20%
Number of farms	23	5
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	279.55 53.01 100.00 5.37 284.83 0.46 8.33 28.31 321.93	207.07 64.00 100.00 5.61 358.73 - 2.56 27.68 388.98
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drying expense Fuel & oil Repairs Custom hire Machinery leases Utilities Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	17.88 71.85 33.66 13.37 0.18 11.26 24.41 1.89 2.30 0.10 3.17 1.36 181.41 140.52	17.17 63.04 30.78 13.19 0.45 14.14 20.46 1.89 - 2.32 1.46 164.90 224.08
Overhead Expenses Hired labor Machinery leases Building leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	12.03 2.05 0.31 8.85 4.83 4.05 1.38 32.88 37.99 6.07 110.43 291.85 30.08	9.82 7.90 0.67 6.72 4.19 3.06 4.80 18.33 44.38 5.41 105.27 270.18 118.80
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	26.39 56.47 24.11 32.36	26.55 145.35 27.59 117.76
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	3.42 5.51 4.31 4.76	2.58 4.22 3.33 3.77
Net value per unit Machinery cost per acre Est. labor hours per acre	5.38 78.96 1.20	5.61 84.66 1.21

Wheat, Spring on Cash Rent

	Avq. Of _All Farms	Low 20%	40 - 60%	High 20%
Number of farms	31	6	6	7
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	777.99	153.51	678.44	907.59
	59.43	45.41	59.16	61.81
	100.00	100.00	100.00	100.00
	5.46	5.17	5.27	5.64
	0.11	-	0.63	-
	324.73	234.54	312.49	348.53
	0.15	-	-	-
	3.87	9.51	10.01	0.96
	32.18	13.81	37.26	32.29
	360.93	257.86	359.76	381.78
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drying expense Fuel & oil Repairs Custom hire Land rent Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	18.51 69.48 28.09 13.21 0.16 11.77 22.53 2.19 63.47 1.11 3.27 1.51 235.29 125.64	26.14 90.59 46.27 17.33 0.20 10.81 26.83 5.49 67.82 3.27 0.51 295.26 -37.40	16.48 76.15 32.70 12.23 - 11.30 35.49 2.12 63.71 - 7.94 - 258.12 101.64	18.43 71.28 26.42 9.22 0.52 9.72 18.00 2.80 61.11 1.69 1.34 1.08 221.60 160.18
Overhead Expenses Custom hire Hired labor Machinery leases Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	0.51 11.20 3.87 0.56 4.87 4.60 3.43 2.75 38.98 5.75 76.51 311.80 49.13	0.39 3.56 0.81 0.28 5.85 4.25 2.51 4.05 30.23 9.81 61.76 357.02 -99.16	1.14 5.75 6.49 0.17 6.69 6.90 3.28 4.03 25.78 9.39 69.62 327.74 32.02	0.86 12.67 0.00 3.60 2.82 1.37 1.56 41.40 6.36 70.66 292.26 89.52
Government payments	25.09	34.33	31.36	26.26
Net return with govt pmts	74.22	-64.83	63.38	115.78
Labor & management charge	23.80	27.30	24.67	24.55
Net return over lbr & mgt	50.42	-92.13	38.70	91.23
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	3.96	6.50	4.36	3.59
	5.25	7.86	5.54	4.73
	4.21	6.59	4.20	3.77
	4.61	7.19	4.62	4.16
Net value per unit	5.46	5.17	5.27	5.64
Machinery cost per acre	78.97	75.77	83.21	71.09
Est. labor hours per acre	1.06	1.10	1.10	1.05

Wheat, Spring on Share Rent

	Avg. Of All Farms
Number of farms	5
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Other crop income per acre Gross return per acre	111.66 43.88 66.33 5.23 152.22 19.06 171.28
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	15.69 65.16 22.40 8.72 11.06 25.68 10.75 2.90 0.94 163.31 7.97
Overhead Expenses Hired labor Machinery leases Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	8.21 1.24 0.51 4.55 1.99 3.18 2.42 33.13 5.68 60.91 224.22 -52.94
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	18.37 -34.57 28.72 -63.29
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	5.61 7.70 6.42 7.41
Net value per unit Machinery cost per acre Est. labor hours per acre	5.23 80.57 1.51

EXPLANATORY NOTES FOR LIVESTOCK TABLES

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

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

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

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

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

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

Beef Cow-Calf -- Average Per Cwt. Produced

		Avg. Of All Farms	
Number of farms		8	
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 33.65 63.42 4.12 -1.13 -0.06	Value 48.42 92.34 24.00 22.75 3.82 -19.28 -31.11 -11.27 129.66	
Direct Expenses Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) Stover (lb.) DDGS, wet (lb.) Other feed stuffs (lb) Veterinary Fuel & oil Repairs Custom hire Bedding Miscellaneous Total direct expenses Return over direct expense	0.65 550.93 180.55 872.11 1.33 79.17 44.67 145.78	1.96 11.03 6.98 27.50 25.74 1.38 1.65 7.51 6.51 3.68 8.60 3.82 2.49 2.56 111.40 18.27	
Overhead Expenses Custom hire Hired labor Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		0.25 6.43 1.04 10.51 8.52 26.75 138.15 -8.49	
Labor & management charge Net return over lbr & mgt		9.82 -18.31	
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		111.40 138.15 149.99 159.81	
Est. labor hours per unit		0.87	
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.		265.9 98.5 1.2 14.1 97.3 87.6 0.92 10.4 2.5 588.6 554 485 458.48 589 143.87	

Beef Cow-Calf -- Average Per Cow

	Avg. Of All Farms	
Number of farms		8
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 184.3 347.2 22.6	Value 265.09 505.61 131.40 124.57 20.90 -105.58 -170.34 -61.71 709.94
Direct Expenses Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) Stover (lb.) DDGS, wet (lb.) Other feed stuffs (lb) Veterinary Fuel & oil Repairs Custom hire Bedding Miscellaneous Total direct expenses Return over direct expense	3.5 3,016.5 988.5 4,775.0 7.3 433.5 244.6 798.2	10.71 60.37 38.22 150.55 140.91 7.56 9.03 41.12 35.66 20.14 47.08 20.93 13.64 14.00 609.93 100.02
Overhead Expenses Custom hire Hired labor Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		1.39 35.20 5.69 57.54 46.67 146.48 756.41 -46.47
Labor & management charge Net return over lbr & mgt		53.77 -100.23
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		111.40 138.15 149.99 159.81
Est. labor hours per unit		4.76
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.		265.9 98.5 1.2 14.1 97.3 87.6 0.92 10.4 2.5 588.6 554 485 458.48 589 143.87

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

	Avg. Of All Farms	
Number of farms		8
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 70.59 1.79 - - 27.19	Value 95.39 1.79 22.95 28.10 0.74 -10.42 -6.28 54.49 186.76
Direct Expenses Protein Vit Minerals (lb.) Corn Silage (lb.) Hay, Grass (lb.) Pasture (aum) Straw (lb.) Hay (lb.) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Custom hire Utilities Marketing Operating interest Miscellaneous Total direct expenses Return over direct expense	101.94 2,301.85 1,061.30 1.81 46.86 64.37 122.49	10.50 33.00 30.02 36.08 0.47 1.53 3.80 6.91 1.21 3.58 8.45 3.79 1.92 2.86 1.96 2.45 148.51 38.25
Overhead Expenses Farm insurance Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		2.17 8.80 7.00 17.97 166.47 20.28
Labor & management charge Net return over lbr & mgt		16.38 3.90
Cost of Production Per Cwt. Produced Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management		148.51 166.47 124.53 140.92
Est. labor hours per unit		1.01
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.		119.6 94.0 0.4 13.8 93.5 89.1 0.53 3.6 1.4 531.1 572 509 605.03 713 135.13

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

	Avg. Of All Farms	
Number of farms		8
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 370.1 9.4 - - 142.5	Value 500.14 9.40 120.34 147.31 3.89 -54.65 -32.92 285.68 979.20
Pirect Expenses Protein Vit Minerals (lb.) Corn Silage (lb.) Hay, Grass (lb.) Pasture (aum) Straw (lb.) Hay (lb.) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Custom hire Utilities Marketing Operating interest Miscellaneous Total direct expenses	534.5 12,069.0 5,564.5 9.5 245.7 337.5 642.2	55.06 173.02 157.42 189.16 2.46 8.01 19.91 36.21 6.33 18.79 44.29 19.86 10.06 14.97 10.26 12.85 778.65 200.55
Overhead Expenses Farm insurance Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		11.35 46.14 36.70 94.20 872.85 106.35
Labor & management charge Net return over lbr & mgt		85.90 20.45
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		148.51 166.47 124.53 140.92
Est. labor hours per unit		5.27
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.		119.6 94.0 0.4 13.8 93.5 89.1 0.53 3.6 1.4 531.1 572 509 605.03 713 135.13

Beef Replacement Heifers -- Average Per Head

	Avg. Of All Farms	
Number of farms		5
Beef Replace sold (hd) Transferred out (hd) Government payments Transferred in (hd) Inventory change (hd) Gross margin	Quantity 0.25 0.93 0.42 -0.77	Value 356.04 1,531.73 102.95 -430.45 -736.98 823.29
Direct Expenses Beet Pulp (dry) (lb.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) Stover (lb.) Other feed stuffs (lb) Breeding fees Veterinary Fuel & oil Repairs Custom hire Bedding Miscellaneous Total direct expenses Return over direct expense	80.32 0.99 3,805.62 684.14 2,856.06 5.63 70.12 413.82	0.64 1.99 81.42 23.44 97.49 113.49 1.93 24.73 13.06 19.61 9.45 13.32 8.15 14.56 3.95 427.24 396.05
Overhead Expenses Custom hire Hired labor Farm insurance Dues & professional fees Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		0.89 26.25 7.20 7.34 34.01 15.29 90.98 518.21 305.07
Labor & management charge Net return over lbr & mgt		35.27 269.80
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		1,350.59 1,427.64 1,340.45 1,370.32
Est. labor hours per unit		2.47
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. wgt / Beef Replace sold Avg. sales price / head		21 59 50 1.0 345.13 26.25 292.30 1,370.32 0.95 1,038 1,429.92

Beef Replacement Heifers -- Average Per Head Sold/Trans

	Avg. Of All Farms	
Number of farms		5
Beef Replace sold (hd) Transferred out (hd) Government payments Transferred in (hd) Inventory change (hd) Gross margin	Quantity 0.2 0.8 0.4 -0.7	Value 301.55 1,297.28 87.19 -364.57 -624.18 697.27
Direct Expenses Beet Pulp (dry) (lb.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) Stover (lb.) Other feed stuffs (lb) Breeding fees Veterinary Repairs Custom hire Bedding Miscellaneous Total direct expenses Return over direct expense	68.0 0.8 3,223.1 579.4 2,418.9 4.8 59.4 350.5	0.54 1.68 68.96 19.85 82.57 96.12 1.63 20.95 11.06 16.61 11.29 6.90 12.33 11.35 361.84 335.43
Overhead Expenses Custom hire Hired labor Dues & professional fees Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		0.75 22.23 6.22 28.80 19.05 77.05 438.89 258.38
Labor & management charge Net return over lbr & mgt		29.87 228.51
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		1,350.59 1,427.64 1,340.45 1,370.32
Est. labor hours per unit		2.10
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. wgt / Beef Replace sold Avg. sales price / head		21 59 50 1.0 345.13 26.25 292.30 1,370.32 0.95 1,038 1,429.92

Figure 1. Net Farm Income (Accrual) Per Farm

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

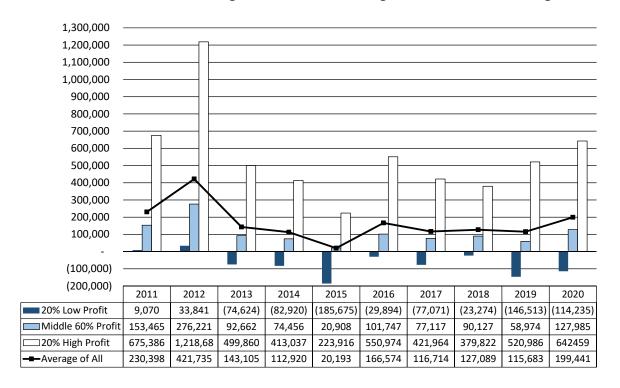


Figure 2. Financial Efficiency Measures (As Percent of Gross Revenue)

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

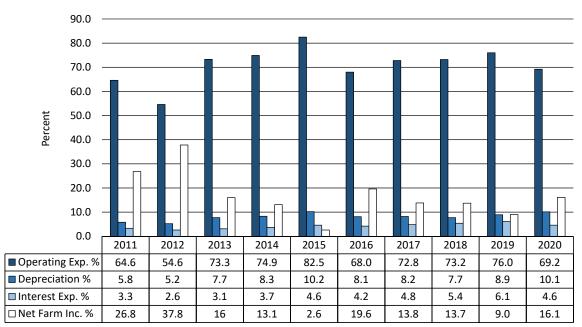


Figure 3. Profitability Measures Per Farm

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

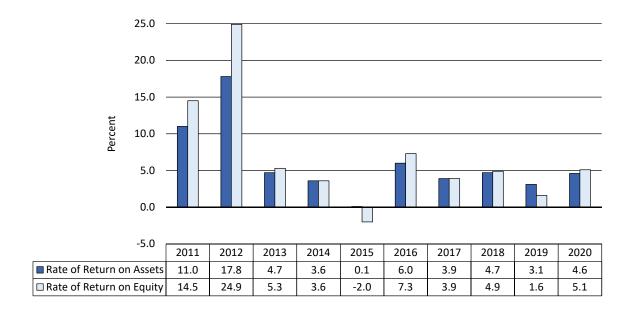


Figure 4. Assets and Liabilities Per Farm, 2020

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

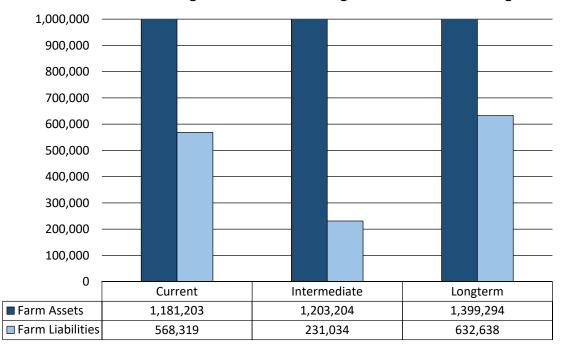


Figure 5. Spring Wheat Costs Per Acre

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

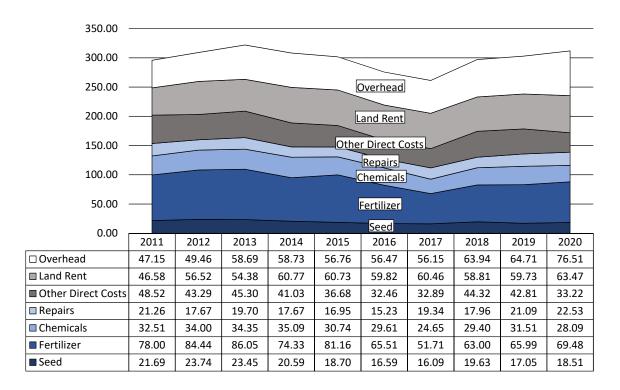


Figure 6. Average Net Return Per Beef Cow

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