2017 ANNUAL REPORT State Averages

North Dakota Farm and Ranch Business Management Education





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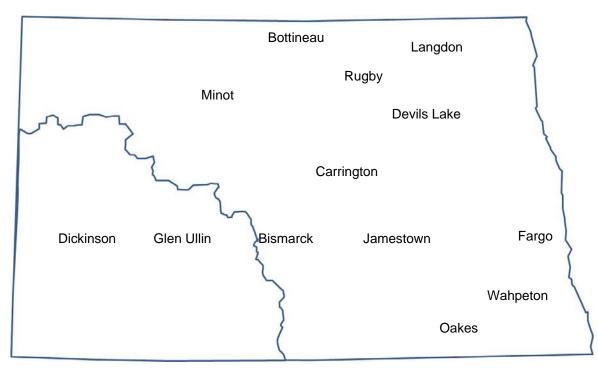
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NORTH DAKOTA FARM BUSINESS MANAGEMENT EDUCATION

2017 ANNUAL REPORT

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This report was made possible by the farm families who cooperated with their farm management instructors in getting the records for 2017 closed out on a timely basis. The farm management instructors cited above generated the Finpack year-end farm analyses. Andrew Swenson, NDSU Extension Service, databased the Finpack analyses of farms and generated the comparative tables for this report.



2017 State Report North Dakota Farm Business Management Education

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INTRODUCTION

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

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

The 2017 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 29th year that the regional averages have been generated in North Dakota based upon the four regions shown in the state map on the cover of this publication. A regional report has been generated and published for Regions 2 – North Central, 3 – South Central and 4 - Western identified on the North Dakota map. Farms in Region 1 – Red River Valley are located within the Red River Valley. Those farms are contained in a combined Minnesota-North Dakota Red River Valley report. The state averages report includes all farms participating in the North Dakota Farm Business Management Education Program that were represented in the regional averages and also those farms which were processed and submitted after the March deadline date. All of these reports may be ordered from Farm Business Management, P.O. Box 6022, Bismarck, ND, 58506-6022 for \$5 per copy. The reports are available online at www.ndfarmmanagement.com.

EXPLANATORY NOTES FOR THE FARM OPERATORS' REPORTS

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

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

Farm Income Statement

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

The first section of the table lists cash farm income from all sources. There are three possible sources of cash income from crops. The first is income from cash sales. The second is income from crops stored under government loan programs when the loan is treated as income for the year in which the crop was stored. If the crop value has not been entered as income when it was stored, then it would be treated as cash income in the year it was sold. The third is Net Government Sales, which refers to the difference between income credited in the year a crop was stored and the actual cash income received at the time it was sold. There are two categories of cash income from livestock sales" Raised" steer, hogs, and lambs refer to animals raised from birth to market weight on the farm. "Finished" animals refers to those purchased as feeders and fed to market weight. Government payments are grouped as "Crop government payments", which are ARC and PLC payments; "LDP payments" which are loan deficiency payments that may be received on production when local prices are below the county loan rate for the crop; "CRP payments," and "Other government payments" which refers to all other government payments such as EQIP reimbursements, CSP payments and disaster payments.

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

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

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

Inventory Changes

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

Depreciation

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

Profitability Measures

This table shows profitability when capital assets are valued at cost. Various measures of performance are calculated. In the previous tables no opportunity costs are used. In this table, opportunity costs for labor, capital, and management <u>are</u> used. The measures and their components are described below.

- "Rate of return on assets" is the "Return on farm assets" divided by "Average farm assets."
- "Rate of return on equity "is the "Return of farm equity" divided by "Average farm equity."
- "Operating profit margin" is the "Return on farm assets" divided by "Value of farm production."
- "Asset turnover rate" is the "Value of farm production" divided by "Average farm assets."
- "Farm interest expense" is the accrual interest cost, usually it will be different from the cash interest expense.
- "Value of operator's labor and management" is an opportunity cost for unpaid operators labor and management that is used in the calculation of several financial performance measures. A value of \$20,000 per full time operator plus 5% of value of farm production is used.
- "Return of farm assets" is calculated by adding "Farm interest expense" to "Net farm income" and then subtracting the "Value of operator's labor and management."
- "Average farm assets" is the average of beginning and ending total farm assets.
- "Return on farm equity" is calculated by subtracting the "Value of operator's labor and management" from "Net farm income."
- "Average farm equity" is the average of beginning and ending farm net worth.
- "Value of farm production" is gross cash farm income minus purchased feed and feeder livestock and adjusted for inventory changes in crops, market livestock, accounts receivable and breeding livestock.

Liquidity & Repayment Capacity Measures

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

Balance Sheets

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

Statement of Cash Flows

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

Financial Standards Measures

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

Liquidity

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

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

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

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

Solvency

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

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

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

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

Profitability

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

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

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

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

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

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

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

Repayment Capacity

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

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

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

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

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

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

Efficiency

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

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

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

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

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

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

Crop Production and Marketing Summary

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

Household and Personal Expenses

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

Operator and Labor Information

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

Nonfarm Summary

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

Farm Income Statement North Dakota Farm Business Management Education Program State Report, 2017 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	457	91	92	92
Cash Farm Income				
Barley	26,299	12,392	17,848	77,023
Beans, Black Turtle	141	583	122	-
Beans, Garbonzo	2,763	-	-	13,011
Beans, Navy	1,180	1,891	227	2,750
Beans, Pinto Buckwheat	19,651 172	2,829 863	10,481	55,134
Canola	23,654	13,829	16,652	58,729
Corn	130,759	136,347	102,319	213,221
Corn Silage	63	318	-	-
Hay, Alfalfa	2,091	798	433	8,469
Hay, Mixed	127	211	143	27
Hay, Small Grain	503	472	876	942
Lentils	1,921	498	-	9,051
Oats	494	173	579	199
Peas, Field	6,735	4,474	1,264	22,508
Potatoes	1,785	8,964	- 40	-
Rye Soybeans	294 181,640	320 150,021	40 113,532	127 354,267
Stover	101,040	306	15,552	334,207
Sugar Beets	15,824	17,886	10,530	25,252
Sunflowers	13,722	14,320	9,366	25,911
Sunflowers, Confectionary	969	-	-	2,187
Wheat, Durum	9,158	7,486	4,631	26,748
Wheat, Spring	104,638	55,143	61,288	251,777
Wheat, Winter	799	961	227	2,691
Custom Work	167	_	_	831
Rented Out	1,171	599	504	1,899
Soybeans, Natto	755 245	-	4.504	2,475
Wheat, Spring, Organic	315 604	- 852	1,564	307
Hay Other Crops	1,879	7,640	950	677
Miscellaneous crop income	5,272	5,353	2,257	13,777
Beef Bulls	1,401	3,718	1,405	842
Beef Cow-Calf, Beef Calves	24,574	30,533	26,097	19,916
Beef Replacement Heifers	2,443	2,432	4,979	1,947
Beef Backgrounding	14,240	14,228	22,120	15,497
Beef Finishing	3,305	3,179	-	7
Beef Finish Yearlings	974	1,086	-	837
Beef Stockers	326	-	-	1,617
Dairy, Milk	16,063	41,116	-	39,120
Dairy, Dairy Calves	206 54	629	-	400 269
Dairy Replacement Heifers Hogs, Farrow To Finish, Raised Hog	638	_		209
Honey Production, Honey	991		_	_
Sheep, Feeder Lamb Prod, Fdr Lambs	67	247	90	_
Sheep, Market Lamb Prod, Mkt Lambs	136	59	619	_
Bison Finishing	96	482	-	-
Dairy Backgrounding	213	-	-	1,059
Cull breeding livestock	7,483	12,846	7,066	8,075
Misc. livestock income	1,727	423	140	4,441
Crop government payments	24,542	16,178	16,795	54,071
CRP payments	1,250	576	544	3,253
Other government payments	11,190	8,725 8,198	12,118 4,734	17,701 18,191
Custom work income Patronage dividends, cash	11,401 5,834	5,990	3,699	11,313
Crop insurance income	35,772	39,994	38,281	52,527
Property insurance income	2,164	1,952	817	4,913
Sale of resale items	1,274	674	-	4,219
Livestock insurance inc	204	50	90	837
Other farm income	13,148	9,726	8,164	23,395
Gross Cash Farm Income	737,370	648,568	503,749	1,454,435

Farm Income Statement (continued) North Dakota Farm Business Management Education Program State Report, 2017 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	457	91	92	92
Cash Farm Expense				
Seed and plants	87,297	73,584	55,348	174,618
Fertilizer	74,301	59,119	53,245	153,449
Crop chemicals	59,080	51,609	36,112	121,797
Crop insurance	27,257	27,262	20,144	52,112
Drying expense	2,663	2,822	2,506	3,456
Storage	1,313	1,626	484	3,206
Irrigation energy	434	118	70	769
Crop miscellaneous	3,494 1,268	1,742 510	644 910	11,634 3,439
Consultants Feeder livestock purchase	6,402	10,305	6,938	1,881
Purchased feed	15,369	23,556	9,243	26,408
Breeding fees	420	767	313	756
Veterinary	2,941	5,086	2,754	3,447
Supplies	1,829	4,401	878	2,401
Livestock leases	189	316	507	-
Grazing fees	42	202	-	6
Interest	33,458	41,232	23,682	45,935
Fuel & oil	27,527	27,521	19,460	49,121
Repairs	52,418	58,705	38,283	89,088
Custom hire	13,961	12,353	13,778	22,777
Hired labor	25,198	33,477	11,051	55,225
Land rent	102,823	103,374	69,837	184,550
Stock/quota lease	649 10.367	376	- 10 173	2,690 16,194
Machinery leases Building leases	10,267 1,236	8,803 972	10,173 822	16,184 3,189
Real estate taxes	5,144	4,334	5,148	8,302
Farm insurance	10,872	11,806	6,847	19,130
Utilities	8,536	9,526	5,930	15,038
Hauling and trucking	336	1,680	-	7
Marketing	2,131	2,233	1,100	4,692
Dues & professional fees	3,501	4,880	2,717	5,413
Purchase of resale items	2,589	2,027	-	10,855
Miscellaneous	8,448	8,004	5,363	15,497
Total cash expense	593,392	594,326	404,288	1,107,070
Net cash farm income	143,978	54,242	99,461	347,365
Inventory Changes	0.000	44 ==0	0.500	00.000
Prepaids and supplies	3,808	-14,753	2,586	29,602
Accounts receivable	-1,701	-5,792	-6,823	5,733
Hedging accounts Other current assets	-1,036 31	-1,473 -254	-1,463	374 -157
Crops and feed	5,958	-25 4 -42,298	-6,449	-157 73,777
Market livestock	6,705	5,427	10,644	12,624
Breeding livestock	-3,795	-7,734	-5,646	-2,211
Other assets	1,118	1,942	987	-1,679
Accounts payable	-2,532	1,490	515	-6,620
Accrued interest	-797	-2,341	-949	-652
Total inventory change	7,761	-65,785	-6,592	110,792
Net operating profit	151,739	-11,543	92,869	458,157
Depreciation				
Machinery and equipment	-52,952	-42,926	-34,768	-110,848
Titled vehicles	-5,742	-5,583	-4,029	-8,032
Buildings and improvements	-4,947	-2,963	-2,320	-13,879
Total depreciation	-63,641	-51,472	-41,117	-132,760
Net farm income from operations	88,098	-63,016	51,752	325,397
Gain or loss on capital sales	-72	-5,015	299	3,224
Netfarmincome	88,026	-68,031	52,051	328,621
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Inventory Changes North Dakota Farm Business Management Education Program State Report, 2017 (Farms Sorted By Net Farm Income)

	· · · · · · · · · · · · · · · · · · ·			
	Avg. Of All Farms	Low 20%	<u>40 - 60%</u>	<u> </u>
Number of farms	457	91	92	92
Net cash farm income	143,978	54,242	99,461	347,365
Crops and Feed Ending inventory Beginning inventory Inventory change	466,446	315,012	270,433	1,163,864
	460,488	357,309	276,882	1,090,088
	5,958	-42,298	-6,449	73,777
Market Livestock Ending inventory Beginning inventory Inventory change	41,666	50,357	50,411	45,867
	34,961	44,930	39,768	33,243
	6,705	5,427	10,644	12,624
Accts Receivable Ending inventory Beginning inventory Inventory change	40,417	42,731	24,124	63,442
	42,118	48,523	30,948	57,708
	-1,701	-5,792	-6,823	5,733
Prepaid Expenses and Supplies Ending inventory Beginning inventory Inventory change	56,600	24,774	33,937	152,442
	52,792	39,527	31,352	122,840
	3,808	-14,753	2,586	29,602
Hedging Activities Ending inventory Withdrawals Beginning inventory Deposits Gain or loss	3,520	3,238	2,097	7,468
	2,073	601	453	7,188
	3,783	3,717	2,045	8,174
	2,846	1,595	1,967	6,108
	-1,036	-1,473	-1,463	374
Other Current Assets Ending inventory Beginning inventory Inventory change	1,994	4,381	154	2,764
	1,962	4,635	148	2,922
	31	-254	7	-157
Breeding Livestock Ending inventory Capital sales Beginning inventory Capital purchases Depreciation, capital adjust	82,204	102,210	88,134	100,302
	3,659	3,258	2,680	1,553
	79,704	104,002	85,990	94,312
	9,953	9,201	10,469	9,754
	-3,795	-7,734	-5,646	-2,211
Other Capital Assets Ending inventory Capital sales Beginning inventory Capital purchases Depreciation, capital adjust	102,650	92,434	80,192	153,252
	1,316	56	1,235	3,300
	93,768	86,447	78,619	124,964
	9,080	4,102	1,820	33,267
	1,118	1,942	987	-1,679
Accounts Payable Beginning inventory Ending inventory Inventory change	21,069	36,054	15,250	24,967
	23,601	34,563	14,736	31,587
	-2,532	1,490	515	-6,620
Accrued Interest Beginning inventory Ending inventory Inventory change	14,886	19,592	11,747	18,538
	15,683	21,932	12,696	19,190
	-797	-2,341	-949	-652
Total inventory change	7,761	-65,785	-6,592	110,792
Net operating profit	151,739	-11,543	92,869	458,157

Depreciation North Dakota Farm Business Management Education Program State Report, 2017 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	457	91	92	92
Net operating profit	151,739	-11,543	92,869	458,157
Machinery and Equipment				
Ending inventory	584,023	503,183	382,657	1,177,428
Capital sales	16,086	25,445	9,598	22,626
Beginning inventory	583,365	525,384	383,469	1,141,233
Capital purchases	69,695	46,170	43,555	169,669
Depreciation, capital adjust.	-52,952	-42,926	-34,768	-110,848
Titled Vehicles				
Ending inventory	47,104	45,348	32,403	68,998
Capital sales	1,152	1,482	1,000	2,158
Beginning inventory	45,303	47,384	29,805	65,208
Capital purchases	8,694	5,030	7,628	13,981
Depreciation, capital adjust.	-5,742	-5,583	-4,029	-8,032
Buildings and Improvements				
Ending inventory	174,013	141,875	95,739	422,650
Capital sales	58	291	-	-
Beginning inventory	165,052	134,341	93,494	402,163
Capital purchases	13,966	10,787	4,566	34,366
Depreciation, capital adjust.	-4,947	-2,963	-2,320	-13,879
Total depreciation, capital adj.	-63,641	-51,472	-41,117	-132,760
Net farm income from operations	88,098	-63,016	51,752	325,397
Gain or loss on capital sales	-72	-5,015	299	3,224
Net farm income	88,026	-68,031	52,051	328,621

Profitability Measures North Dakota Farm Business Management Education Program State Report, 2017 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	456	91	92	92
Profitability (assets valued at cost)				
Net farm income from operations	88,234	-63,016	51,752	325,397
Rate of return on assets	3.2 %	-3.3 %	2.4 %	6.5 %
Rate of return on equity	2.7 %	-11.3 %	1.3 %	7.8 %
Operating profit margin	9.7 %	-11.3 %	7.7 %	18.5 %
Asset turnover rate	33.1 %	29.2 %	30.7 %	35.5 %
Farm interest expense	34,324	43,573	24,631	46,587
Value of operator lbr and mgmt.	52,292	44,301	39,330	94,466
Return on farm assets	70,265	-63,744	37,054	277,517
Average farm assets	2,180,766	1,927,381	1,561,903	4,239,343
Return on farm equity	35,942	-107,317	12,422	230,930
Average farm equity	1,327,347	949,025	947,209	2,969,856
Value of farm production	721,519	562,718	478,818	1,504,078

Liquidity & Repayment Capacity Measures North Dakota Farm Business Management Education Program State Report, 2017 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	457	91	92	92
Liquidity				
Current ratio	1.74	1.14	1.78	2.35
Working capital	233,815	47,883	185,090	697,847
Working capital to gross inc	36.2 %	10.5 %	37.2 %	53.2 %
Current assets	548,597	382,223	421,386	1,213,447
Current liabilities	314,782	334,340	236,296	515,600
Gross revenues (accrual)	645,082	455,996	497,218	1,311,702
Repayment capacity				
Net farm income from operations	88,098	-63,016	51,752	325,397
Depreciation	63,641	51,472	41,117	132,760
Personal income	35,451	56,344	34,358	24,518
Family living/owner withdrawals	-65,983	-61,788	-55,174	-95,302
Cash discrepancy	33	167	-64	236
Payments on personal debt	-3,840	-3,592	-3,004	-3,814
Income taxes paid	-15,331	-10,478	-10,312	-32,951
Interest on term debt	22,592	29,504	18,186	25,899
Capital debt repayment capacity	124,629	-1,553	76,922	376,506
Scheduled term debt payments	-87,227	-94,429	-64,622	-134,701
Capital debt repayment margin	37,402	-95,983	12,301	241,805
Cash replacement allowance	-32,706	-25,743	-19,169	-70,422
Replacement margin	4,696	-121,726	-6,868	171,382
Term debt coverage ratio	1.43	-0.02	1.19	2.80
Replacement coverage ratio	1.04	-0.01	0.92	1.84

Balance Sheet at Cost Values North Dakota Farm Business Management Education Program State Report, 2017 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	<u>40 - 60%</u>	High 20%
Number of farms	417	79	88	75
Assets				
Current Farm Assets	45.050	20.004	40.440	404 547
Cash and checking balance	45,250 46,370	30,864	42,443	104,547 113,705
Prepaid expenses & supplies Growing crops	40,370 629	23,088 395	35,039 40	524
Accounts receivable	30,485	32,405	23,997	41,702
Hedging accounts	2,715	1,289	2,192	5,694
Crops held for sale or feed	383,278	236,225	276,265	901,321
Market livestock held for sale	40,375	56,217	41,312	44,807
Other current assets	690	1,739	99	1,146
Total current farm assets	549,792	382,223	421,386	1,213,447
Intermediate Farm Assets				
Breeding livestock	71,988	89,271	76,336	76,553
Machinery and equipment	519,748	395,181	382,512	1,070,307
Titled vehicles Other intermediate assets	43,002 47,470	41,595 28,764	32,418 44,760	56,313 64,004
Total intermediate farm assets	682,208	554,810	536,026	1,267,177
	002,200	334,010	330,020	1,207,177
Long Term Farm Assets	550.075	450 400	100 510	0.45.050
Farm land	550,375	459,469 446,023	493,516	945,950
Buildings and improvements	140,993 35,072	116,923 28,786	97,783 38,873	314,131 40,216
Other long-term assets Total long-term farm assets	726,439	605,178	630,171	1,300,297
Total Farm Assets	1,958,439	1,542,210	1,587,583	3,780,922
Total Nonfarm Assets	293,766	280,488	249,877	449,020
Total Assets	2,252,205	1,822,699	1,837,459	4,229,942
Liabilities				
Current Farm Liabilities				
Accrued interest	14,603	19,638	12,875	16,977
Accounts payable	19,391	24,055	14,550	24,580
Current notes	225,126	244,125	165,637	374,222
Principal due on term debt	56,394	46,521	43,233	99,820
Total current farm liabilities	315,514	334,340	236,296	515,600
Total intermediate farm liabs	151,043	148,232	102,886	213,818
Total long term farm liabilities	331,043	349,773	289,557	432,464
Total farm liabilities	797,601	832,345	628,739	1,161,882
Total nonfarm liabilities	57,407	51,495	45,078	67,320
Total liabilities	855,008	883,840	673,816	1,229,203
Net worth (farm and nonfarm)	1,397,197	938,858	1,163,643	3,000,740
Net worth change	53,066	-42,911	39,473	219,838
Percent net worth change	4 %	-4 %	4 %	8 %
Ratio Analysis				
Current farm liabilities / assets	57 %	87 %	56 %	42 %
Intermediate farm liab. / assets	22 %	27 %	19 %	17 %
Long term farm liab. / assets Total debt to asset ratio	46 % 38 %	58 % 48 %	46 % 37 %	33 % 29 %
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Statement Of Cash Flows

North Dakota Farm Business Management Education Program State Report, 2017 (Farms Sorted By Net Farm Income)

	Avg. Of	200/	40 600/	Himb 200
	All Farms	Low 20%	<u>40 - 60%</u>	High 20%
Number of farms	457	91	92	92
Beginning cash (farm & nonfarm)	58,969	54,022	53,846	113,405
Cash Provided By Operating Activities	5			
Gross cash farm income	737,370	648,568	503,749	1,454,435
Total cash farm expense	-593,392	-594,326	-404,288	-1,107,070
Net cash from hedging transactions	-773	-994	-1,515	1,080
Cash provided by operating	143,205	53,248	97,947	348,445
Cash Provided By Investing Activities				
Sale of breeding livestock	3,711	3,258	3,020	1,553
Sale of machinery & equipment	14,449	18,683	9,367	22,496
Sale of titled vehicles	1,350	1,834	1,097	2,518
Sale of farm land	6,076	8,090	3,796	12,668
Sale of farm buildings	46	231	-	
Sale of other farm assets	1,734	56	1,235	4,674
Sale of nonfarm assets	2,610	7,154	908	1,494
Purchase of breeding livestock	-9,953	-9,201	-10,469	-9,754
Purchase of machinery & equip.	-69,695	-46,170	-43,555	-169,669
Purchase of titled vehicles	-8,694	-5,030	-7,628	-13,981
Purchase of farm land	-32,116	-5,978	-20,555	-78,579
Purchase of farm buildings	-13,966	-10,787	-4,566	-34,366
Purchase of other farm assets	-9,080	-4,102	-1,820	-33,267
Purchase of nonfarm assets	-19,569	-19,415	-9,983	-34,021
Cash provided by investing	-133,098	-61,376	-79,153	-328,234
Cash Provided By Financing Activities				
Money borrowed	546,907	559,263	360,949	1,030,134
Principal payments	-517,553	-543,436	-353,301	-960,706
Personal income	35,451	56,344	34,358	24,518
Family living/owner withdrawals	-65,980	-61,788	-55,174	-95,302
Income and social security tax	-14,102	-10,749	-8,934	-29,640
Capital contributions	208	-	588	
Capital distributions	-511	-1,671	-	-429
Dividends paid	-2	-	-	
Cash gifts and inheritances	6,028	11,082	6,297	4,360
Gifts given	-529	-945	-379	-93
Other cash flows	-	-	-	
Cash provided by financing	-10,084	8,100	-15,597	-27,159
Net change in cash balance	24	-29	3,196	-6,948
Ending cash (farm & nonfarm)	59,026	54,160	56,979	106,693
Discrepancy	-33	-167	64	-236

Financial Standards Measures North Dakota Farm Business Management Education Program State Report, 2017 (Farms Sorted By Net Farm Income)

	Avg. Of	L av. 200/	40 00%	Himb 200/
	All Farms	Low 20%	40 - 60%	High 20%
Number of farms	457	91	92	92
Liquidity				
Current ratio	1.74	1.14	1.78	2.35
Working capital	233,815	47,883	185,090	697,847
Working capital to gross inc	36.2 %	10.5 %	37.2 %	53.2 %
Solvency (cost)				
Farm debt to asset ratio	41 %	54 %	40 %	31 %
Farm equity to asset ratio	59 %	46 %	60 %	69 %
Farm debt to equity ratio	0.69	1.17	0.66	0.44
Profitability (cost)				
Rate of return on farm assets	3.2 %	-3.3 %	2.4 %	6.5 %
Rate of return on farm equity	2.7 %	-11.3 %	1.3 %	7.8 %
Operating profit margin	9.7 %	-11.3 %	7.7 %	18.5 %
Net farm income	88,219	-68,031	52,051	328,621
EBITDA	186,401	32,029	117,500	504,743
Repayment Capacity				
Capital debt repayment capacity	124,629	-1,553	76,922	376,506
Capital debt repayment margin	37,402	-95,983	12,301	241,805
Replacement margin	4,696	-121,726	-6,868	171,382
Term debt coverage ratio	1.43	-0.02	1.19	2.80
Replacement coverage ratio	1.04	-0.01	0.92	1.84
Efficiency				
Asset turnover rate (cost)	33.1 %	29.2 %	30.7 %	35.5 %
Operating expense ratio	75.0 %	94.6 %	76.3 %	67.3 %
Depreciation expense ratio	8.5 %	8.6 %	8.3 %	8.6 %
Interest expense ratio	4.6 %	7.3 %	5.0 %	3.0 %
Net farm income ratio	11.8 %	-11.4 %	10.5 %	21.3 %

Crop Production and Marketing Summary North Dakota Farm Business Management Education Program State Report, 2017 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	457	91	92	92
Acreage Summary Total acres owned Total crop acres Crop acres owned Crop acres cash rented Crop acres share rented Total pasture acres Percent crop acres owned	719 1,937 442 1,403 92 490 23 %	684 1,637 329 1,255 53 594 20 %	648 1,333 403 863 67 533 30 %	1,216 3,891 747 2,953 190 481 19 %
Mach invest/crop acre cost	324	339	310	315
Average Price Received (Cash Sales Only Soybeans per bushel Wheat, Spring per bushel Corn per bushel Barley per bushel Canola per cwt Sunflowers per cwt Peas, Field per bushel Beans, Pinto per cwt Wheat, Durum per bushel Flax per bushel Oats per bushel Wheat, Winter per bushel Hay, Grass per ton Soybeans, Food per bushel	8.97 5.30 2.94 4.52 17.01 17.46 7.15 26.65 6.08 9.13 2.86 4.26 67.74 11.76	9.02 5.10 2.82 3.99 17.14 15.53 6.61 - 5.54	8.88 5.33 3.03 4.32 17.09 17.90 - 25.51	8.97 5.23 2.99 4.74 17.25 18.01 7.18 27.24 6.28 9.65
Average Yield Per Acre Soybeans (bushel) Wheat, Spring (bushel) Corn (bushel) Pasture (aum) Canola (cwt) Barley (bushel) Hay, Mixed Alfalfa/Grass (ton) Hay, Grass (ton) Beans, Pinto (cwt) Hay, Small Grain (ton) Hay, Alfalfa (ton) Sunflowers (cwt) Peas, Field (bushel) Wheat, Durum (bushel) Corn Silage (ton) Sugar Beets (ton) Hay, Mixed (ton) Flax (bushel) Soybeans, Food (bushel) Hay, Summer Annual Grass (ton)	36.32 44.42 153.78 0.848 16.65 77.34 0.679 1.36 17.83 1.59 1.98 16.60 33.45 35.50 14.07 29.02 1.70 14.06 38.25 1.77	34.32 31.33 146.80 0.829 10.57 65.34 0.399 1.50 14.65 1.39 2.01 9.52 28.16 30.28 14.87 19.45	36.15 34.10 155.05 0.750 17.16 45.72 0.711 1.18 16.54 1.64 2.00 14.80 14.20 12.51 30.80 1.57 11.22 43.22	37.40 50.88 153.12 0.980 18.68 83.39 0.643 1.40 18.43 1.52 2.06 20.87 37.27 41.96 18.46 32.16

Household and Personal Expenses North Dakota Farm Business Management Education Program State Report, 2017 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	138	29	24	34
Number orients	100	20	24	04
Average family size	3.0	2.5	3.3	2.9
Family Living Expenses				
Food and meals expense	8,806	9,511	9,471	8,298
Medical care	5,372	4,837	5,046	7,276
Health insurance	9,538	7,495	8,394	13,707
Cash donations	2,726	2,057	2,944	4,887
Household supplies	7,419	7,277	7,498	8,559
Clothing	2,222	2,009	1,340	2,953
Personal care	5,605	4,605	5,236	7,447
Child / Dependent care	671	325	787	455
Alimony and child support	310	-	-	-
Gifts	1,836	1,837	1,007	2,582
Education	1,201	850	761	1,863
Recreation	5,129	4,002	3,682	6,344
Utilities (household share)	4,042	3,560	4,101	4,565
Personal vehicle operating exp	3,474	3,512	4,279	2,435
Household real estate taxes	462	595	223	617
Dwelling rent	196	41	-	216
Household repairs	1,801	1,494	1,813	1,083
Personal interest	1,707	1,741	1,622	1,882
Disability / Long term care ins	390	482	353	448
Life insurance payments	3,416	3,153	2,888	5,281
Personal property insurance	402	544	593	268
Miscellaneous	4,450	3,595	4,000	7,401
Total cash family living expense	71,178	63,520	66,038	88,566
Family living from the farm	158	251	83	66
Total family living	71,336	63,771	66,121	88,632
Other Nonfarm Expenditures				
Income taxes	15,869	14,689	10,087	28,477
Furnishing & appliance purchases	83	250	-	89
Nonfarm vehicle purchases	6,138	7,560	6,911	11,623
Nonfarm real estate purchases	2,401	903	· -	3,848
Other nonfarm capital purchases	831	200	-	1,459
Nonfarm savings & investments	6,304	5,805	8,097	11,779
Total other nonfarm expenditures	31,626	29,406	25,096	57,276
Total cash family living				
investment & nonfarm capital purch	102,804	92,927	91,133	145,841

Operator and Labor Information North Dakota Farm Business Management Education Program State Report, 2017 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	457	91	92	92
Operator Information				
Average number of operators	1.1	1.1	1.1	1.2
Average age of operators	45.8	50.0	45.4	47.3
Average number of years farming	21.5	25.1	21.9	24.5
Results Per Operator				
Working capital	273,678	75,177	175,943	734,890
Total assets (cost)	2,313,865	1,963,194	1,721,063	3,978,062
Total liabilities	855,268	940,782	627,919	1,137,193
Net worth (cost)	1,458,597	1,022,412	1,093,144	2,840,869
Gross farm income	685,887	544,731	469,483	1,267,647
Total farm expense	604,716	602,075	420,399	1,000,357
Net farm income from operations	81,171	-57,344	49,084	267,290
Net nonfarm income	32,663	51,273	32,587	20,140
Family living & tax withdrawals	74,890	65,610	62,172	105,157
Total acres owned	662.2	622.7	615.0	998.6
Total crop acres	1,784.9	1,489.5	1,264.6	3,195.8
Crop acres owned	407.6	299.5	382.1	614.0
Crop acres cash rented	1,292.4	1,141.8	818.7	2,425.6
Crop acres share rented	84.8	48.2	63.8	156.2
Total pasture acres	451.6	540.1	505.2	394.8
Labor Analysis				
Number of farms	457	91	92	92
Total unpaid labor hours	1,966	1,862	1,876	2,624
Total hired labor hours	1,029	1,570	454	2,259
Total labor hours per farm	2,996	3,432	2,330	4,884
Unpaid hours per operator	1,812	1,695	1,779	2,156

Nonfarm Summary North Dakota Farm Business Management Education Program State Report, 2017 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	457	91	92	92
Nonfarm Income				
Personal wages & salary	23,061	30,281	28,266	12,411
Net nonfarm business income	4,272	12,376	217	3,278
Personal rental income	1,810	5,416	762	2,272
Personal interest income	333	90	166	1,304
Personal cash dividends	412	226	13	1,605
Tax refunds	816	971	588	221
Other nonfarm income	4,746	6,983	4,346	3,426
Total nonfarm income	35,451	56,344	34,358	24,518
Gifts and inheritances	6,028	11,082	6,297	4,360

Financial Summary North Dakota Farm Business Management Education Program State Report, 2017 (Farms Sorted By Gross Farm Income)

	Avg. Of All Farms	Less than 100,000	100,001 - 250,000	250,001 - 500,000	500,001 - 1,000,000	1,000,001- 2,000,000	Over 2,000,000
Number of farms	457	39	70	97	150	74	27
Income Statement							
Gross cash farm income	737,370	48,941	181,905	376,951	706,472	1,381,991	2,871,623
Total cash farm expense	593,392	60,441	149,746	311,222	557,482	1,099,925	2,338,351
Net cash farm income	143,978	-11,500	32,159	65,729	148,990	282,066	533,272
Inventory change	7,761	20,412	12,911	3,634	-7,553	23,927	31,723
Depreciation	-63,641	-5,610	-14,886	-30,843	-60,828	-128,348	-229,976
Net farm income from operations	88,098	3,302	30,185	38,520	80,610	177,645	335,019
Gain or loss on capital sales	-72	221	-337	-437	-81	4,221	-10,217
Average net farm income	88,026	3,524	29,848	38,084	80,528	181,866	324,802
Median net farm income	50,998	8,921	32,183	41,747	74,009	203,564	242,002
Profitability (cost)							
Rate of return on assets	3.2 %	-1.0 %	2.7 %	2.2 %	2.9 %	3.9 %	3.8 %
Rate of return on equity	2.7 %	-5.5 %	1.9 %	0.4 %	2.2 %	3.8 %	3.6 %
Operating profit margin	9.7 %	-4.7 %	9.6 %	6.6 %	9.4 %	10.9 %	10.6 %
Asset turnover rate	33.1 %	22.3 %	28.0 %	32.9 %	30.6 %	35.5 %	35.5 %
Liquidity & Repayment (end of y							
Current assets	548,597	64,312	168,047	309,849	616,742	1,131,133	2,060,430
Current liabilities	314,782	54,646	83,106	178,582	347,147	686,707	1,117,393
Current ratio	1.74	1.18	2.02	1.74	1.78	1.65	1.84
Working capital	233,815	9,666	84,941	131,267	269,595	444,426	943,037
Change in working capital	7,947	4,281	19,944	7,379	-5,042	26,289	20,800
Working capital to gross inc	36.2 %	13.2 %	42.4 %	34.0 %	38.4 %	32.2 %	40.7 %
Term debt coverage ratio	1.43	1.35	1.54	1.12	1.20	1.48	2.00
Replacement coverage ratio Term debt to EBITDA	1.04 2.62	1.20 6.25	1.25 3.72	0.87 3.26	0.85 2.87	1.08 2.41	1.34 1.92
	2.02	0.20	0.72	0.20	2.01	۷.٦١	1.02
Solvency (end of year at cost)	417	38	68	94	144	57	16
Number of sole proprietors Total assets	2,252,205			1,318,477			7,193,469
	855,008	440,583 195,555	843,767 340,133	531,591	2,606,279 935,883	4,398,501	2,604,930
Total liabilities Net worth	1,397,197	245,027	503,634	786,886	1,670,397	1,746,714 2,651,787	4,588,540
Net worth change	53,066	31,231	31,012	32,816	36,117	131,076	192,262
Farm debt to asset ratio	41 %	50 %	45 %	42 %	39 %	43 %	38 %
Total debt to asset ratio	38 %	44 %	40 %	40 %	36 %	40 %	36 %
Change in earned net worth %	4 %	15 %	7 %	4 %	2 %	5 %	4 %
Nonform Information							
Nonfarm Information Net nonfarm income	35,451	49,291	46,874	34,644	31,948	31,281	19,628
Farms reporting living expenses	138	49,291	18	34	52	20	19,020
Total family living expense	71,336	42,585	47,617	55,409	73,763	100,159	126,129
Crop Acres							
Total crop acres	1,937	214	571	1,081	1,939	3,637	6,378
Total crop acres owned	442	80	149	261	578	594	1,214
Total crop acres cash rented	1,403	116	351	742	1,255	2,915	5,034
Total crop acres share rented	92	18	71	78	1,233	128	130
Machinery value per crop acre	324	254	270	285	326	342	330
	0 2 r	20.	2.0	200	020	0.2	550

Financial Summary North Dakota Farm Business Management Education Program State Report, 2017 (Farms Sorted By Age of Operator)

<u>-</u>	Avg. Of All Farms	Less Than 31	<u>31 - 40</u>	<u>41 - 50</u>	<u>51 - 60</u>	Over 60
Number of farms	457	79	96	78	117	87
Income Statement						
Gross cash farm income	737,370	325,873	677,856	784,515	1,006,599	772,366
Total cash farm expense	593,392	275,768	552,240	637,533	820,736	581,905
Net cash farm income	143,978	50,106	125,616	146,982	185,863	190,461
Inventory change	7,761	28,331	6,902	10,901	12,885	-19,678
Depreciation	-63,641	-16,202	-51,189	-67,363	-91,067	-80,237
Net farm income from operations	88,098	62,234	81,329	90,519	107,681	90,546
Gain or loss on capital sales	-72	-295	-256	2,398	-1,394	-105
Average net farm income	88,026	61,939	81,073	92,917	106,288	90,441
Median net farm income	50,998	28,604	54,623	43,958	71,737	55,548
Profitability (cost)						
Rate of return on assets	3.2 %	7.8 %	4.0 %	3.6 %	2.8 %	2.3 %
Rate of return on equity	2.7 %	14.0 %	3.9 %	3.1 %	2.0 %	1.8 %
Operating profit margin	9.7 %	13.2 %	9.9 %	9.9 %	9.2 %	8.9 %
Asset turnover rate	33.1 %	58.9 %	40.0 %	36.1 %	30.8 %	25.4 %
Liquidity & Repayment (end of year						
Current assets	548,597	199,539	476,724	529,865	823,044	626,843
Current liabilities	314,782	132,418	330,342	306,216	468,923	275,414
Current ratio	1.74	1.51	1.44	1.73	1.76	2.28
Working capital	233,815	67,121	146,381	223,649	354,120	351,429
Change in working capital	7,947	7,998	-5,018	10,441	21,709	2,345
Working capital to gross inc	36.2 %	20.1 %	21.7 %	34.1 %	40.6 %	58.3 %
Term debt coverage ratio	1.43 1.04	1.76 1.62	1.32 1.10	1.56 1.16	1.32 0.93	1.50 0.93
Replacement coverage ratio Term debt to EBITDA	2.62	2.11	3.03	2.61	2.70	2.33
Solvency (end of year at cost)						
Number of sole proprietors	417	76	92	68	105	76
Total assets	2,252,205	686,750	1,877,808	2,215,148	3,227,764	2,956,221
Total liabilities	855,008	411,369	944,831	898,265	1,186,834	692,765
Net worth	1,397,197	275,381	932,977	1,316,883	2,040,929	2,263,456
Net worth change	53,066	43,092	47,143	59,975	64,091	48,798
Farm debt to asset ratio	41 %	60 %	52 %	44 %	40 %	27 %
Total debt to asset ratio	38 %	60 %	50 %	41 %	37 %	23 %
Change in earned net worth %	4 %	19 %	5 %	5 %	3 %	2 %
Nonfarm Information						
Net nonfarm income	35,451	23,349	36,742	39,721	31,930	45,922
Farms reporting living expenses	138	18	27	17	42	34
Total family living expense	71,336	52,685	70,171	77,133	78,557	70,318
Crop Acres						
Total crop acres	1,937	1,056	1,766	2,049	2,641	1,879
Total crop acres owned	442	86	236	423	695	672
Total crop acres cash rented	1,403	885	1,429	1,548	1,861	1,096
						110
viacninery value per crop acre	324	137	283	296	350	437
Total crop acres cash rented Total crop acres share rented Machinery value per crop acre	1,403 92 324	885 85 137	1,429 101 283	1,548 78 296		1,861 85 350

Financial Summary North Dakota Farm Business Management Education Program State Report, 2017 (Farms Sorted By Farm Type)

	Avg. Of All Farms	Crop	Beef	Crop and Beef	Other
Number of farms	457	298	43	59	53
Income Statement					
Gross cash farm income	737,370	877,126	155,955	492,572	561,804
Total cash farm expense	593,392	702,283	122,209	396,583	440,549
Net cash farm income	143,978	174,842	33,746	95,990	121,255
Inventory change	7,761	13,771	6,897	-21,751	-2,606
Depreciation	-63,641	-78,569	-11,854	-37,513	-49,924
Net farm income from operations	88,098	110,044	28,789	36,726	68,724
·	-72	304		•	-25
Gain or loss on capital sales			-1,156	-1,314 25,412	
Average net farm income	88,026	110,348	27,633	35,412	68,699
Median net farm income	50,998	74,043	23,654	35,004	19,800
Profitability (cost)					
Rate of return on assets	3.2 %	3.3 %	3.3 %	2.0 %	4.0 %
Rate of return on equity	2.7 %	3.0 %	2.8 %	-0.4 %	3.5 %
Operating profit margin	9.7 %	9.7 %	15.9 %	7.3 %	13.0 %
Asset turnover rate	33.1 %	34.2 %	20.8 %	27.4 %	31.0 %
Liquidity & Repayment (end of year	r)				
Current assets	548,597	696,288	139,376	360,445	334,660
Current liabilities	314,782	380,168	71,226	293,421	209,340
Current ratio	1.74	1.83	1.96	1.23	1.60
Working capital	233,815	316,120	68,150	67,023	125,320
Change in working capital	7,947	3,359	23,662	4,243	28,412
Working capital to gross inc	36.2 %	40.0 %	42.1 %	14.3 %	24.7 %
Term debt coverage ratio	1.43	1.53	1.47	0.90	1.41
Replacement coverage ratio	1.04	1.06	1.36	0.90	1.06
Term debt to EBITDA	2.62	2.20	3.72	4.25	3.81
Salveney (and of year of east)					
Solvency (end of year at cost)	447	007	40	- 7	40
Number of sole proprietors	417	267	42	57	49
Total assets	2,252,205	2,701,059	729,527	1,711,050	1,800,858
Total liabilities	855,008	949,985	311,915	838,403	854,150
Net worth	1,397,197	1,751,075	417,613	872,646	946,708
Net worth change	53,066	64,355	38,583	21,270	44,849
Farm debt to asset ratio	41 %	38 %	44 %	51 %	52 %
Total debt to asset ratio	38 %	35 %	43 %	49 %	47 %
Change in earned net worth %	4 %	4 %	10 %	2 %	5 %
Nonfarm Information					
Net nonfarm income	35,451	32,940	43,854	32,809	47,593
Farms reporting living expenses	[^] 138	88	12	21	. 17
Total family living expense	71,336	79,055	41,163	53,284	74,980
Crop Acres					
Total crop acres	1,937	2,321	362	1,377	1,662
Total crop acres Total crop acres owned	1,937	2,321 501	133	443	367
	1,403	1,718	183	795	1,266
Total crop acres cash rented	1,403 92	1,716	47	795 140	
Total crop acres share rented					29
Machinery value per crop acre	324	341	293	253	253

EXPLANATORY NOTES FOR CROPS TABLES

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

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

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

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

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

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

Barley on Owned Land

	Avg. Of All Farms
Number of farms	19
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Other product return per acre Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	125.70 70.02 100.00 4.26 1.10 299.25 36.98 1.86 338.09
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	16.40 51.21 26.14 12.55 11.64 18.58 1.53 2.75 0.68 141.48 196.61
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	8.78 1.38 0.24 8.61 4.34 3.81 1.21 15.93 32.33 4.71 81.35 222.83 115.26
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	17.12 132.39 22.71 109.68
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	2.02 3.18 2.37 2.69
Net value per unit Machinery cost per acre Est. labor hours per acre	4.26 64.35 1.15

Barley on Cash Rent

	Avg. Of All Farms	Low 20%	40 - 60%	<u> High 20%</u>
Number of farms	43	8	8	9
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Other product return per acre Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	333.33	174.94	329.70	338.48
	76.65	31.16	66.45	97.25
	100.00	100.00	100.00	100.00
	4.40	4.04	4.35	4.36
	1.11	11.37	-	-
	338.46	137.35	289.37	423.87
	23.78	57.38	49.73	19.86
	3.68	6.85	4.03	1.75
	365.92	201.58	343.13	445.48
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	14.21 51.09 32.56 13.64 11.71 22.98 2.69 62.45 0.71 4.21 1.31 217.56 148.36	10.92 41.59 18.92 16.39 11.63 20.55 65.79 7.22 7.60 0.66 201.27 0.31	15.77 48.15 24.18 11.45 10.69 17.51 0.58 65.40 3.06 1.46 198.26 144.87	14.39 57.37 32.53 12.82 11.33 23.22 2.93 57.09 5.97 1.08 218.73 226.75
Overhead Expenses Custom hire Hired labor Machinery leases Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	2.03	1.81	5.04	1.10
	10.54	5.13	8.44	15.94
	2.92	1.26	5.01	3.15
	0.50	0.40	0.34	1.12
	4.74	4.80	4.10	3.28
	3.73	3.89	3.19	4.08
	1.51	2.20	0.48	0.47
	2.59	3.10	2.28	2.52
	30.85	28.08	25.94	29.96
	4.47	3.96	5.28	2.22
	63.89	54.64	60.10	63.82
	281.45	255.91	258.36	282.54
	84.47	-54.33	84.77	162.93
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	13.22	14.76	14.03	12.99
	97.68	-39.57	98.81	175.93
	22.46	22.27	23.74	25.41
	75.22	-61.84	75.07	150.52
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	2.84	6.46	2.98	2.25
	3.67	8.21	3.89	2.91
	3.13	5.31	2.87	2.55
	3.42	6.03	3.22	2.81
Net value per unit	4.40	4.04	4.35	4.36
Machinery cost per acre	73.49	71.50	64.10	72.55
Est. labor hours per acre	1.10	0.95	1.06	1.22

Beans, Pinto on Owned Land

	Avg. Of All Farms
Number of farms	17
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	207.98 18.06 100.00 22.29 402.54 0.07 3.98 406.58
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	52.79 22.37 53.79 18.23 14.86 31.76 3.54 0.66 6.98 2.05 207.03 199.55
Overhead Expenses Custom hire Hired labor Machinery leases Building leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	0.59 10.70 4.30 0.26 7.78 5.76 4.85 0.80 37.99 42.01 5.17 120.21 327.24 79.33
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	12.43 91.76 27.97 63.79
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	11.46 18.12 17.21 18.75
Net value per unit Machinery cost per acre Est. labor hours per acre	22.29 98.34 1.27

Beans, Pinto on Cash Rent

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms			<u>40 - 00 %</u> 6	<u>Higii 20%</u>
			-	
Acres Yield per acre (cwt.)	418.22 17.87	379.41 14.07	443.80 17.24	479.13 24.09
Operators share of yield %	100.00	100.00	100.00	100.00
Value per cwt.	22.71	22.57	22.25	22.90
Total product return per acre	405.71	317.63	383.55	551.45
Crop insurance per acre	23.28	1.65	11.27	2.67
Other crop income per acre	3.17	-	4.54	-
Gross return per acre	432.17	319.27	399.36	554.12
Direct Expenses				
Seed and plants	50.81	59.61	36.41	55.41
Fertilizer Crop shomicals	32.14 51.26	16.80 55.97	38.93 48.95	28.91 48.03
Crop chemicals Crop insurance	17.68	16.77	46.95 19.25	16.48
Fuel & oil	12.15	15.60	8.87	11.85
Repairs	24.62	23.52	24.07	25.66
Custom hire	1.34	2.00	1.42	1.70
Land rent	65.74	55.99	70.58	65.34
Machinery leases	2.31	0.30	- 7.00	7.05
Operating interest Miscellaneous	7.16 1.02	8.49	7.38 0.44	7.65 2.01
Total direct expenses per acre	266.23	255.03	256.29	263.03
Return over direct exp per acre	165.94	64.24	143.07	291.09
Overhead Expenses				
Custom hire	1.23	-	0.93	3.56
Hired labor	13.31	13.56	15.39	10.70
Machinery leases	6.65	2.98	8.67	7.04
Farm insurance	4.56	4.05	5.27	3.93
Utilities Dues & professional fees	3.98 1.04	2.20 2.32	3.67 0.16	5.38 0.50
Interest	2.75	3.54	1.48	3.67
Mach & bldg depreciation	34.85	40.13	24.88	36.25
Miscellaneous	5.46	6.55	6.16	4.07
Total overhead expenses per acre	73.84	75.33	66.60	75.09
Total dir & ovhd expenses per acre Net return per acre	340.07 92.10	330.36 -11.09	322.88 76.47	338.12 216.00
Net return per acre	92.10	-11.09	70.47	
Government payments	10.72	11.43	14.03	5.35
Net return with govt pmts	102.82	0.34	90.50	221.35
Labor & management charge	27.04 75.79	27.36 -27.01	22.68 67.82	29.27 192.08
Net return over lbr & mgt	75.79	-27.01	07.02	192.00
Cost of Production	44.00	40.40	44.07	40.00
Total direct expense per cwt.	14.90 19.03	18.12 23.48	14.87 18.73	10.92 14.04
Total dir & ovhd exp per cwt. Less govt & other income	16.95	23.46 22.55	17.00	13.71
With labor & management	18.47	24.49	18.31	14.92
•				
Net value per unit	22.71 82.00	22.57 82.99	22.25 67.02	22.90 87.21
Machinery cost per acre Est. labor hours per acre	1.24	1.37	1.08	1.13
Lot. labor flourd per dore	1.27	1.07	1.00	1.13

Canola on Owned Land

	Avg. Of <u>All Farms</u>	<u>Low 20%</u>	<u>40 - 60%</u>	<u> High 20%</u>
Number of farms	28	5	5	6
Acres Yield per acre (cwt.) Operators share of yield % Value per cwt. Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	222.43 18.09 100.00 17.14 310.01 16.41 2.38 328.79	212.12 8.81 100.00 18.07 159.11 37.10	173.06 19.47 100.00 16.89 328.82 4.92	233.07 22.29 100.00 17.01 379.10 1.86 380.96
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	55.50 63.37 25.76 13.90 11.25 19.27 5.12 4.06 0.33 198.56 130.24	57.12 87.69 20.98 14.71 8.87 16.38 14.38 7.43	55.56 62.72 32.36 16.89 12.53 21.59 5.14 3.18 1.27 211.23 122.50	50.05 56.24 17.79 10.57 12.19 16.74 2.14 2.27 0.28 168.27 212.68
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	3.50 6.55 1.19 0.29 6.46 3.80 2.95 0.70 23.33 29.49 3.47 81.72 280.27 48.52	0.81 4.03 3.57 0.67 4.78 2.62 2.07 1.64 31.58 21.63 4.56 77.96 305.52 -109.31	1.82 15.33 0.03 1.02 7.50 4.42 2.40 0.24 10.83 28.59 1.62 73.80 285.03 48.70	7.46 1.05 0.35 7.55 4.15 2.76 0.50 18.37 26.69 2.67 71.54 239.82 141.14
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	21.27 69.79 23.75 46.03	14.66 -94.65 19.87 -114.52	17.64 66.35 22.67 43.68	23.60 164.74 27.89 136.85
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	10.98 15.49 13.28 14.59	25.84 34.69 28.81 31.07	10.85 14.64 13.48 14.64	7.55 10.76 9.62 10.87
Net value per unit Machinery cost per acre Est. labor hours per acre	17.14 69.63 1.10	18.07 69.18 1.08	16.89 70.91 1.43	17.01 65.25 1.07

Canola on Cash Rent

	Avg. Of All Farms	Low 20%	40 - 60%	<u> High 20%</u>
Number of farms	59	11	12	12
Acres Yield per acre (cwt.) Operators share of yield % Value per cwt. Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	410.29 16.45 100.00 17.06 280.63 17.03 3.64 301.29	344.42 8.86 100.00 16.98 150.53 41.49	562.94 17.68 100.00 17.22 304.55 20.44 5.41 330.40	349.27 21.79 100.00 17.05 371.52 0.15 7.60 379.28
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	56.88 58.45 27.93 14.06 11.36 19.91 3.52 49.69 4.81 0.45 247.07 54.22	61.95 59.88 24.02 12.54 9.37 17.54 6.78 47.98 8.53 248.59 -56.57	58.04 65.16 31.89 14.38 10.84 17.90 2.90 54.08 4.84 0.51 260.55 69.86	50.69 54.09 28.88 15.64 11.73 22.19 1.66 50.37 4.01 0.60 239.86 139.42
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	2.71	2.32	3.05	5.22
	6.69	3.90	11.33	3.83
	3.67	4.21	2.30	4.35
	0.79	0.31	0.59	0.27
	3.83	3.79	3.80	3.34
	2.33	2.04	2.31	2.35
	0.66	0.87	0.67	0.43
	2.79	4.19	2.25	2.77
	23.88	20.55	29.78	19.39
	3.21	3.81	3.27	3.64
	50.55	46.00	59.36	45.58
	297.63	294.59	319.91	285.44
	3.67	-102.57	10.50	93.84
Government payments	18.34	16.91	21.01	14.92
Net return with govt pmts	22.01	-85.66	31.51	108.76
Labor & management charge	23.11	19.73	23.86	29.51
Net return over lbr & mgt	-1.10	-105.39	7.66	79.25
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	15.02	28.05	14.74	11.01
	18.10	33.24	18.09	13.10
	15.73	26.65	15.44	12.06
	17.13	28.87	16.79	13.41
Net value per unit	17.06	16.98	17.22	17.05
Machinery cost per acre	65.57	64.12	64.18	66.63
Est. labor hours per acre	1.17	1.00	1.15	1.24

Canola on Share Rent

	Avg. Of All Farms
Number of farms	9
Acres Yield per acre (cwt.) Operators share of yield % Value per cwt. Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	142.61 13.44 66.50 16.66 148.91 22.00 4.39 175.30
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	42.61 41.03 19.31 7.60 10.93 23.61 2.56 3.82 5.78 157.26 18.04
Overhead Expenses Custom hire Hired labor Machinery leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	2.00 4.18 2.58 3.35 2.56 1.05 2.46 23.65 4.28 46.11 203.37 -28.07
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	16.68 -11.39 22.24 -33.63
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	17.59 22.75 17.93 20.42
Net value per unit Machinery cost per acre Est. labor hours per acre	16.66 66.51 1.28

Corn on Owned Land

	Avg. Of <u>All Farms</u>	Low 20%	<u>40 - 60%</u>	<u> High 20%</u>
Number of farms	109	21	22	22
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Other product return per acre Total product return per acre Crop insurance per acre	251.32	190.02	244.00	314.72
	153.50	108.69	153.83	182.90
	100.00	100.00	100.00	100.00
	3.00	2.82	3.06	3.06
	1.66	1.46	-	-
	461.74	307.55	470.26	559.70
	7.32	26.65	7.89	0.50
Other crop income per acre	1.29	3.43	0.36	0.42
Gross return per acre	470.34	337.62	478.51	560.62
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drying expense Fuel & oil Repairs Custom hire Hired labor Machinery leases Operating interest Miscellaneous Total direct expenses per acre	86.55 93.96 25.70 19.47 9.39 18.46 38.23 4.88 1.63 0.70 7.76 1.25 307.99	82.35 82.60 27.32 19.99 6.52 19.26 45.73 8.64 4.02 10.73 4.69 311.86	82.05 96.20 24.10 20.97 10.07 17.97 38.32 5.60 1.75 0.03 7.03 1.03 305.10	88.62 97.90 24.39 21.07 12.86 18.20 30.66 3.40 7.07 0.91 305.08
Return over direct exp per acre Overhead Expenses Custom hire	162.35	25.76	173.41	255.55
	1.18	0.90	1.17	1.19
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	15.30 4.34 13.13 6.18 5.99 2.29 40.73 46.89 4.72 140.75 448.74 21.60	13.27 3.95 10.14 7.47 6.55 1.83 39.51 49.33 3.27 136.23 448.10 -110.47	1.17 19.41 5.54 16.34 5.54 6.03 4.87 53.62 39.69 4.80 157.02 462.12 16.40	17.67 3.45 15.52 6.55 5.36 1.86 25.41 50.09 2.65 129.76 434.83 125.79
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	9.46	15.04	6.51	4.26
	31.06	-95.43	22.90	130.05
	32.49	30.26	29.73	29.74
	-1.42	-125.69	-6.83	100.31
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	2.01	2.87	1.98	1.67
	2.92	4.12	3.00	2.38
	2.79	3.69	2.91	2.35
	3.01	3.97	3.10	2.51
Net value per unit	3.00	2.82	3.06	3.06
Machinery cost per acre	115.46	135.17	109.66	104.73
Est. labor hours per acre	1.75	1.87	1.71	1.63

Corn on Cash Rent

	Avg. Of _All Farms	Low 20%	40 - 60%	High 20%
Number of farms	165	33	33	33
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	474.13 154.18 100.00 3.05 0.07 469.92 0.07 8.86 2.86 481.71	305.50 130.97 100.00 2.98 0.06 390.14 6.26 2.90 399.30	536.00 158.73 100.00 3.06 0.26 486.00 1.13 9.57 1.31 498.01	477.09 174.57 100.00 3.13 546.53 6.10 2.68 555.31
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drying expense Fuel & oil Repairs Custom hire Hired labor Land rent Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	88.26 95.38 24.97 18.84 8.71 18.01 34.08 3.19 1.82 101.05 0.37 9.45 1.37 405.50 76.21	93.38 90.98 28.12 18.53 8.95 20.70 43.62 6.49 2.09 107.40 0.84 7.99 0.98 430.08 -30.79	91.66 97.64 24.67 19.86 13.13 18.14 33.34 2.13 3.19 101.38 0.00 10.55 1.27 416.97 81.05	83.26 94.44 25.66 20.23 7.34 17.67 29.64 1.62 103.19 0.15 8.39 2.57 394.17 161.13
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	1.55	1.64	1.46	2.13
	15.44	17.81	18.40	12.69
	8.24	6.20	9.25	8.35
	0.63	0.16	1.13	0.06
	5.84	6.82	6.19	5.55
	4.92	5.76	5.34	5.15
	3.13	5.94	3.06	2.50
	3.63	4.47	3.41	2.97
	44.19	54.43	48.48	36.44
	4.87	4.82	6.56	4.26
	92.44	108.06	103.29	80.10
	497.95	538.14	520.25	474.27
	-16.24	-138.85	-22.24	81.04
Government payments	7.18	7.79	6.63	5.81
Net return with govt pmts	-9.06	-131.05	-15.61	86.85
Labor & management charge	33.95	35.16	34.49	32.83
Net return over lbr & mgt	-43.01	-166.21	-50.10	54.02
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	2.63	3.28	2.63	2.26
	3.23	4.11	3.28	2.72
	3.11	3.98	3.16	2.63
	3.33	4.25	3.38	2.82
Net value per unit	3.05	2.98	3.07	3.13
Machinery cost per acre	109.97	136.36	111.81	97.30
Est. labor hours per acre	1.72	2.06	1.80	1.58

Corn on Share Rent

	Avg. Of All Farms
Number of farms	9
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Other crop income per acre Gross return per acre	111.25 178.60 72.39 2.96 382.26 0.84 383.10
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drying expense Fuel & oil Repairs Custom hire Hired labor Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	91.60 97.39 25.05 21.33 30.68 20.09 32.13 2.12 1.92 3.91 0.55 326.78 56.33
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	1.03 3.89 3.98 5.09 5.64 1.93 2.43 69.29 4.83 98.10 424.87 -41.77
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	6.02 -35.75 40.03 -75.78
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management Net value per unit	2.53 3.29 3.23 3.54
Machinery cost per acre Est. labor hours per acre	128.15 1.83

Corn Silage on Owned Land

	Avg. Of All Farms
Number of farms	19
Acres Yield per acre (ton) Operators share of yield % Value per ton Other product return per acre Total product return per acre Crop insurance per acre Gross return per acre	58.15 14.53 100.00 29.46 1.38 429.44 12.24 441.67
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	75.92 57.75 22.63 12.35 18.05 30.73 39.48 8.81 0.81 266.53 175.14
Overhead Expenses Custom hire Hired labor Machinery leases Building leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	1.96 13.46 0.70 0.54 6.30 5.12 3.77 1.00 27.08 39.11 4.37 103.41 369.94 71.74
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	16.57 88.30 30.53 57.78
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	18.34 25.46 23.38 25.48
Net value per unit Machinery cost per acre Est. labor hours per acre	29.46 132.49 2.47

Corn Silage on Cash Rent

	Avg. Of All Farms
Number of farms	17
Acres Yield per acre (ton) Operators share of yield % Value per ton Other product return per acre Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	126.20 14.78 100.00 28.22 0.36 417.40 9.83 3.37 430.61
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	64.51 69.24 22.33 14.26 20.31 35.34 37.33 51.25 6.22 0.67 321.46 109.14
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	3.59 17.37 3.54 0.62 3.34 4.55 1.08 5.30 31.00 4.09 74.48 395.94 34.67
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	8.79 43.46 27.32 16.14
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	21.75 26.79 25.28 27.13
Net value per unit Machinery cost per acre Est. labor hours per acre	28.22 134.90 2.11

CRP on Owned Land

	Avg. Of			
	All Farms	Low 20%	40 - 60%	High 20%
Number of farms	38	7	7	8
Acres	113.10	62.41	242.91	81.45
Yield per acre (\$)	49.19	34.11	36.05	89.00
Operators share of yield %	100.00	100.00	100.00	100.00
Value per \$	1.00	1.00	1.00	1.00
Total product return per acre	49.19	34.11	36.05	89.00
Gross return per acre	49.19	34.11	36.05	89.00
Direct Expenses				
Crop chemicals	1.89	2.47	2.83	_
Fuel & oil	0.60	1.05	0.39	0.82
Repairs	1.33	3.65	0.90	1.34
Miscellaneous	0.15	0.29	0.12	0.06
Total direct expenses per acre	3.97	7.45	4.24	2.23
Return over direct exp per acre	45.22	26.66	31.81	86.78
Overhead Expenses				
Hired labor	0.47	1.78	0.18	0.85
Machinery leases	0.10	0.69	0.03	0.12
RE & pers. property taxes	8.52	11.03	8.97	8.54
Farm insurance	0.43	0.77	0.21	0.20
Interest	11.48	22.59	7.42	6.45
Mach & bldg depreciation	1.62	2.87	1.29	2.11
Miscellaneous	0.53	1.78	0.36	0.42
Total overhead expenses per acre	23.15	41.50	18.45	18.70
Total dir & ovhd expenses per acre	27.12	48.95	22.69	20.92
Net return per acre	22.07	-14.84	13.36	68.08

Fallow on Cash Rent

	Avg. Of All Farms
Number of farms	17
Acres Yield per acre Operators share of yield % Value per 0 Total product return per acre Gross return per acre	132.10 - - - - - 0.00
Direct Expenses Seed and plants Fertilizer Crop chemicals Fuel & oil Repairs Land rent Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	0.11 1.18 0.20 3.38 5.87 56.55 0.68 0.11 68.07
Overhead Expenses Hired labor Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	2.96 2.61 1.06 2.45 0.51 6.49 3.38 19.46 87.54

Flax on Cash Rent

	Avg. Of <u>All Farms</u>
Number of farms	9
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Other product return per acre Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	145.09 15.04 100.00 9.02 5.83 141.52 22.19 2.75 166.45
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Land rent Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	12.19 28.27 24.28 9.09 8.87 17.12 1.75 41.82 3.23 0.11 146.73 19.72
Overhead Expenses Hired labor Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	2.44 3.95 2.93 0.82 2.62 18.39 3.15 34.29 181.02 -14.57
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	12.51 -2.06 20.41 -22.47
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	9.76 12.04 9.16 10.52
Net value per unit Machinery cost per acre Est. labor hours per acre	9.02 47.12 1.15

Hay, Alfalfa on Owned Land

	Avg. Of All Farms
Number of farms	16
Acres Yield per acre (ton) Operators share of yield % Value per ton Other product return per acre Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	107.33 1.82 100.00 71.32 0.14 129.65 7.57 2.33 139.54
Direct Expenses Fertilizer Crop insurance Fuel & oil Repairs Custom hire Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	6.66 0.75 9.56 12.74 2.66 3.93 1.01 37.30 102.24
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	1.75 4.74 0.40 7.13 4.62 3.59 0.41 22.36 25.07 2.84 72.92 110.22 29.32
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	5.72 35.04 17.54 17.50
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	20.54 60.70 52.02 61.68
Net value per unit Machinery cost per acre Est. labor hours per acre	71.32 53.88 1.12

Hay, Alfalfa on Cash Rent

	Avg. Of All Farms
Number of farms	19
Acres Yield per acre (ton) Operators share of yield % Value per ton Other product return per acre Total product return per acre Crop insurance per acre Gross return per acre	129.60 2.13 100.00 81.05 0.74 173.31 3.40 176.71
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Land rent Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	0.08 5.37 1.52 0.49 9.16 19.85 9.03 53.88 4.37 0.36 104.10 72.61
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	11.00 2.98 3.34 3.70 1.69 4.32 16.55 3.89 47.48 151.58 25.13
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	2.90 28.02 14.99 13.04
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	48.89 71.20 67.89 74.93
Net value per unit Machinery cost per acre Est. labor hours per acre	81.05 60.85 1.20

Hay, Grass on Owned Land

	Avg. Of All Farms
Number of farms	16
Acres Yield per acre (ton) Operators share of yield % Value per ton Other product return per acre Total product return per acre Other crop income per acre Gross return per acre	122.20 1.57 100.00 46.18 0.05 72.32 0.22 72.54
Direct Expenses Fuel & oil Repairs Custom hire Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	6.13 14.22 0.17 2.47 1.16 24.15 48.38
Overhead Expenses Custom hire Hired labor Machinery leases RE & pers. property taxes Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	0.41 4.80 0.89 3.21 1.31 1.28 8.14 10.80 1.67 32.52 56.67 15.86
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	0.97 16.83 11.35 5.48
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	15.43 36.21 35.43 42.68 46.18 33.31
Est. labor hours per acre	1.18

Hay, Grass on Cash Rent

	Avg. Of			
	All Farms	Low 20%	40 - 60%	High 20%
Number of farms	26	5	5	6
Acres	239.73	218.82	243.20	388.18
Yield per acre (ton)	1.10	0.73	0.51	1.67
Operators share of yield %	100.00	100.00	100.00	100.00
Value per ton	48.53	40.15	40.86	56.26
Other product return per acre	0.19	0.10	0.90	-
Total product return per acre	53.55	29.60	21.68	94.22
Crop insurance per acre	0.40	-	1.99	-
Other crop income per acre	0.66	-	3.41	-
Gross return per acre	54.61	29.60	27.07	94.22
Direct Expenses				
Fuel & oil	6.84	8.03	6.23	6.85
Repairs	14.07	11.53	8.79	17.43
Land rent	14.30	20.34	11.87	13.02
Operating interest	2.63	3.73	0.69	3.22
Miscellaneous	1.49	0.37	0.29	2.82
Total direct expenses per acre	39.33	44.00	27.87	43.35
Return over direct exp per acre	15.28	-14.41	-0.80	50.87
Overhead Expenses				
Hired labor	5.68	2.76	1.99	10.47
Machinery leases	0.61	0.00	1.52	0.77
Farm insurance	1.55	2.57	1.58	1.24
Utilities	1.06	1.59	0.74	1.29
Interest	1.17	3.03	0.17	0.69
Mach & bldg depreciation	17.23	32.05	13.23	14.34
Miscellaneous	2.38	2.70	1.42	3.52
Total din 8 auch describes per acre	29.68	44.71	20.64	32.32
Total dir & ovhd expenses per acre	69.00	88.71	48.51	75.67
Net return per acre	-14.39	-59.11	-21.44	18.55
Government payments	0.75	-	3.83	-
Net return with govt pmts	-13.64	-59.11	-17.61	18.55
Labor & management charge	11.30	11.25	9.65	10.83
Net return over lbr & mgt	-24.95	-70.37	-27.25	7.72
Cost of Production				
Total direct expense per ton	35.77	59.90	54.80	25.89
Total dir & ovhd exp per ton	62.76	120.76	95.40	45.18
Less govt & other income	60.94	120.62	75.48	45.18
With labor & management	71.22	135.93	94.46	51.65
Net value per unit	48.53	40.15	40.86	56.26
Machinery cost per acre	39.15	52.32	29.76	39.20
Est. labor hours per acre	1.10	0.84	0.60	1.39

Hay, Mixed Alfalfa/Grass on Owned Land

	Avg. Of			
	All Farms	Low 20%	<u>40 - 60%</u>	High 20%
Number of farms	25	5	5	5
Acres	201.56	129.15	152.97	168.38
Yield per acre (ton)	0.64	0.60	0.83	0.51
Operators share of yield %	100.00	100.00	100.00	100.00
Value per ton	76.26	58.26	44.74	111.89
Other product return per acre	0.40	-	-	-
Total product return per acre	49.18	34.68	37.15	56.62
Crop insurance per acre	12.64	-	0.16	7.00
Gross return per acre	61.82	34.68	37.31	63.61
Direct Expenses				
Fertilizer	2.99	-	-	-
Crop insurance	1.45	0.03	0.02	1.05
Fuel & oil	5.94	8.63	7.23	3.35
Repairs	9.15	13.38	9.43	4.98
Custom hire	1.65	-	-	-
Operating interest	2.33	4.11	0.35	0.50
Miscellaneous	0.58	-	0.10	0.14
Total direct expenses per acre	24.08	26.14	17.13	10.01
Return over direct exp per acre	37.74	8.53	20.18	53.60
Overhead Expenses				
Custom hire	0.92	0.64	3.38	0.14
Hired labor	4.16	2.41	6.16	0.09
RE & pers. property taxes	5.00	4.33	5.09	3.55
Farm insurance	2.98	4.07	3.22	1.43
Utilities	1.93	2.42	2.40	0.55
Dues & professional fees	0.50	0.94	0.66	0.02
Interest	16.57	28.98	3.36	5.49
Mach & bldg depreciation	12.51	12.85	12.73	9.19
Miscellaneous	2.10	2.63	1.32	0.54
Total overhead expenses per acre	46.67	59.28	38.32	20.99
Total dir & ovhd expenses per acre	70.75	85.42	55.45	31.00
Net return per acre	-8.93	-50.75	-18.13	32.62
Government payments	3.10	2.87	2.23	1.03
Net return with govt pmts	-5.83	-47.88	-15.91	33.64
Labor & management charge	11.71	18.12	11.05	11.87
Net return over lbr & mgt	-17.54	-66.00	-26.95	21.77
Cost of Production				
Total direct expense per ton	37.64	43.93	20.63	19.79
Total dir & ovhd exp per ton	110.59	143.53	66.77	61.26
Less govt & other income	85.38	138.71	63.89	45.40
With labor & management	103.68	169.16	77.19	68.86
Net value per unit	76.26	58.26	44.74	111.89
Machinery cost per acre	30.29	35.49	33.70	19.20
Est. labor hours per acre	0.75	1.11	0.97	0.64
-				

Hay, Mixed Alfalfa/Grass on Cash Rent

Avg. Of All Farms

Number of farms	23
Acres Yield per acre (ton) Operators share of yield % Value per ton Other product return per acre Total product return per acre Crop insurance per acre Gross return per acre	154.83 0.65 100.00 67.91 1.70 45.77 6.04 51.81
Direct Expenses Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Land rent Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	1.41 0.18 0.96 5.34 8.80 20.60 2.44 0.41 40.13 11.68
Overhead Expenses Custom hire Hired labor Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	0.51 3.40 2.83 2.10 0.47 1.84 10.75 2.45 24.36 64.49 -12.68
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	5.37 -7.31 10.29 -17.59
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	61.85 99.39 79.18 95.03
Net value per unit Machinery cost per acre Est. labor hours per acre	67.91 27.11 0.67

Hay, Small Grain on Owned Land

	Avg. Of <u>All Farms</u>
Number of farms	20
Acres Yield per acre (ton) Operators share of yield % Value per ton Other product return per acre Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	91.45 1.58 100.00 66.12 0.42 104.94 32.89 0.21 138.05
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	15.73 27.04 9.46 5.63 9.47 14.78 3.72 1.92 0.61 88.35 49.69
Overhead Expenses Custom hire Hired labor Machinery leases Building leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	1.64 6.85 0.30 0.20 4.94 2.50 2.27 0.50 9.93 18.77 4.50 52.41 140.76 -2.72
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	13.87 11.15 18.15 -7.00
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	55.89 89.04 59.07 70.55
Net value per unit Machinery cost per acre Est. labor hours per acre	66.12 48.23 1.16

Hay, Small Grain on Cash Rent

	Avg. Of All Farms
Number of farms	21
Acres Yield per acre (ton) Operators share of yield % Value per ton Other product return per acre Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	93.27 1.78 100.00 69.48 2.32 126.28 26.67 2.97 155.92
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	17.14 22.85 12.79 4.01 7.82 15.22 3.95 38.35 2.85 0.71 125.71 30.21
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	1.95 4.58 1.16 0.41 2.59 2.28 0.89 2.72 15.28 3.68 35.52 161.23 -5.31
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	15.70 10.39 17.83 -7.43
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	70.46 90.37 63.66 73.65
Net value per unit Machinery cost per acre Est. labor hours per acre	69.48 46.98 1.19

Oats on Owned Land

	Avg. Of All Farms
Number of farms	9
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Other product return per acre Total product return per acre Crop insurance per acre Gross return per acre	79.37 11.55 100.00 2.36 48.36 75.65 58.22 133.87
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	7.23 18.95 10.63 6.21 9.48 12.12 6.21 0.13 70.96 62.91
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	0.65 4.55 0.92 5.16 2.45 2.03 0.61 27.85 20.01 5.57 69.78 140.75 -6.88
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	13.35 6.47 13.51 -7.04
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	6.14 12.18 1.80 2.97
Net value per unit Machinery cost per acre Est. labor hours per acre	2.36 44.98 1.06

Oats on Cash Rent

	Avg. Of All Farms
Number of farms	7
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Other product return per acre Total product return per acre Crop insurance per acre Gross return per acre	124.55 21.61 100.00 3.12 30.36 97.84 35.67 133.51
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Land rent Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	14.19 26.13 10.27 6.68 7.72 12.86 39.51 5.41 0.33 123.10 10.41
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	3.13 2.40 1.41 2.69 1.67 0.60 3.01 13.31 3.47 31.69 154.79 -21.28
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	10.44 -10.85 13.76 -24.61
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	5.70 7.16 3.62 4.26
Net value per unit Machinery cost per acre Est. labor hours per acre	3.12 38.57 0.97

Pasture on Owned Land

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	61	12	12	13
Acres	576.86	506.76	993.63	410.88
Yield per acre (aum)	0.79	0.81	0.52	1.30
Operators share of yield %	100.00	100.00	100.00	100.00
Value per aum	21.55	19.88	21.54	23.27
Total product return per acre	17.06	16.15	11.25	30.27
Crop insurance per acre	0.86	0.25	0.02	0.41
Other crop income per acre	0.25	-	-	1.68
Gross return per acre	18.18	16.40	11.27	32.36
Direct Expenses				
Fertilizer	0.19	-	0.56	-
Repairs	0.69	0.80	0.54	0.76
Miscellaneous	0.76	0.82	0.60	0.56
Total direct expenses per acre	1.64	1.62	1.70	1.32
Return over direct exp per acre	16.53	14.78	9.57	31.04
Overhead Expenses				
RE & pers. property taxes	2.13	2.64	1.34	2.98
Farm insurance	0.33	1.03	0.17	0.20
Interest	6.22	18.57	1.84	2.54
Mach & bldg depreciation	0.76	1.06	0.57	0.90
Miscellaneous	0.65	0.77	0.46	0.76
Total overhead expenses per acre	10.10	24.07	4.37	7.38
Total dir & ovhd expenses per acre	11.74	25.69	6.07	8.70
Net return per acre	6.44	-9.30	5.20	23.66

Pasture on Cash Rent

	Avg. Of			
	All Farms	<u>Low 20%</u>	40 - 60%	High 20%
Number of farms	82	16	17	17
Acres	1,086.08	533.41	1,312.56	1,355.46
Yield per acre (aum)	0.79	0.94	0.64	0.99
Operators share of yield %	100.00	100.00	100.00	100.00
Value per aum	21.84	18.89	20.94	23.18
Total product return per acre	17.23	17.78	13.42	22.88
Crop insurance per acre	0.81	-	0.23	2.73
Other crop income per acre	0.07	0.19	-	0.21
Gross return per acre	18.11	17.96	13.65	25.82
Direct Expenses				
Crop insurance	0.17	-	0.07	0.50
Fuel & oil	0.44	1.02	0.38	0.31
Repairs	0.74	1.78	0.75	0.46
Land rent	16.28	24.43	14.42	14.91
Operating interest	0.18	0.54	0.11	0.10
Miscellaneous	0.06	0.29	-	0.03
Total direct expenses per acre	17.87	28.07	15.73	16.31
Return over direct exp per acre	0.24	-10.10	-2.08	9.51
Overhead Expenses				
Hired labor •	0.25	0.98	0.11	0.15
Farm insurance	0.36	2.04	0.16	0.12
Dues & professional fees	0.12	0.79	0.06	0.04
Mach & bldg depreciation	0.90	2.32	0.64	0.92
Miscellaneous	0.51	1.20	0.35	0.40
Total overhead expenses per acre	2.14	7.33	1.33	1.64
Total dir & ovhd expenses per acre	20.01	35.40	17.06	17.94
Net return per acre	-1.90	-17.43	-3.41	7.88

Peas, Field on Owned Land

	Avg. Of All Farms
Number of farms	12
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Other product return per acre Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	162.56 29.59 100.00 7.74 1.10 230.04 10.51 1.68 242.23
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	32.02 9.76 25.85 6.28 9.26 21.86 0.83 1.66 0.27 107.80 134.43
Overhead Expenses Custom hire Hired labor Machinery leases RE & pers. property taxes Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	3.04 11.46 2.39 8.20 4.54 3.14 23.24 32.54 3.84 92.37 200.17 42.06
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	12.15 54.21 21.99 32.21
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	3.64 6.76 5.90 6.65
Net value per unit Machinery cost per acre Est. labor hours per acre	7.74 69.27 1.35

Peas, Field on Cash Rent

	Avg. Of All Farms
Number of farms	23
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Other product return per acre Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	288.21 33.16 100.00 6.92 1.00 230.51 19.39 2.76 252.66
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	36.81 11.26 36.20 10.11 10.34 22.22 1.63 51.34 1.03 4.22 0.32 185.49 67.17
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	2.10 10.15 6.67 1.59 3.98 2.77 0.61 2.46 25.12 4.11 59.57 245.06 7.60
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	13.91 21.51 21.63 -0.12
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	5.59 7.39 6.27 6.93
Net value per unit Machinery cost per acre Est. labor hours per acre	6.92 68.98 1.23

Prevented planting on Cash Rent

	Avg. Of All Farms	Low 20%	40 60%	High 200/
	<u>All Farilis</u>	Low 20%	<u>40 - 60%</u>	<u> High 20%</u>
Number of farms	39	7	8	8
Acres	123.80	155.67	132.06	128.02
Yield per acre (\$) Operators share of yield %	100.00	100.00	100.00	100.00
Value per \$	-	-	-	-
Total product return per acre	457.04	-	450.00	400.00
Crop insurance per acre Other crop income per acre	157.21	166.70	150.89	198.39
Gross return per acre	157.21	166.70	150.89	198.39
Direct Expenses				
Seed and plants	0.51	1.91	0.38	-
Crop chemicals	3.65	5.58	2.84	
Crop insurance	11.97	17.18	14.33	6.71
Fuel & oil	5.24 10.03	11.02 22.04	3.18 4.72	1.57 3.62
Repairs Land rent	65.61	22.0 4 108.68	4.72 56.83	44.03
Operating interest	2.11	4.74	2.44	0.52
Miscellaneous	0.27	4.74	0.03	0.52
Total direct expenses per acre	99.39	171.14	84.76	56.45
Return over direct exp per acre	57.82	-4.44	66.13	141.94
Overhead Expenses				
Hired labor 1	7.33	20.20	3.75	1.93
Machinery leases	2.57	4.74	3.76	1.26
Building leases	0.51	1.37	0.15	0.02
Farm insurance	3.31	4.28	3.49	0.74
Utilities	2.29	4.15	2.41	0.51
Dues & professional fees	1.14	2.61	0.36	0.16
Interest	1.96	4.39	2.44	0.40
Mach & bldg depreciation	12.40	23.87	8.23	3.66
Miscellaneous	3.42	4.40	5.04	0.69
Total overhead expenses per acre	34.94 134.32	70.01	29.63 114.39	9.37 65.82
Total dir & ovhd expenses per acre	22.89	241.15 -74.45	36.50	132.57
Net return per acre				
Government payments	13.86	16.11	11.49	11.71
Net return with govt pmts	36.75	-58.34	47.99	144.28
Labor & management charge	9.21	16.76	8.07	4.10
Net return over lbr & mgt	27.54	-75.10	39.92	140.18
Machinery cost per acre	32.16	65.86	21.71	10.54
Est. labor hours per acre	0.51	1.02	0.34	0.22

Soybeans on Owned Land

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	143	28	28	29
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Other product return per acre Total product return per acre Hedging gains/losses per acre Crop insurance per acre Other crop income per acre Gross return per acre	303.22	271.38	323.08	311.01
	36.34	28.54	37.74	42.14
	100.00	100.00	100.00	100.00
	8.93	8.83	9.09	9.00
	0.00	0.01	-	-
	324.57	251.93	343.16	379.24
	1.36	7.38	0.30	-
	13.30	10.00	6.88	40.78
	2.45	1.21	5.01	3.68
	341.67	270.53	355.34	423.70
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Hired labor Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	65.55 8.97 31.26 16.76 12.19 23.62 4.46 0.20 2.91 4.65 1.25 171.82 169.85	68.21 12.95 33.83 16.07 12.65 26.94 10.23 1.03 13.57 5.93 3.90 205.31 65.22	66.24 7.85 36.21 15.48 12.83 27.23 1.99 1.93 4.19 0.80 174.75 180.59	59.48 5.60 26.25 19.15 11.06 17.84 2.86 0.10 4.08 1.35 147.77 275.94
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	0.97	0.90	1.46	0.22
	8.98	7.98	10.26	8.70
	1.81	1.16	1.91	2.36
	11.03	10.33	13.07	12.63
	6.02	7.35	6.47	6.26
	4.22	3.80	4.89	3.82
	1.60	2.08	1.35	2.04
	30.31	47.28	33.52	14.44
	30.74	23.58	32.28	37.93
	4.42	2.16	6.18	4.74
	100.09	106.62	111.40	93.14
	271.91	311.93	286.15	240.91
	69.76	-41.40	69.20	182.79
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	12.15	12.60	12.33	10.23
	81.91	-28.80	81.53	193.03
	22.95	24.76	21.40	23.70
	58.96	-53.55	60.13	169.32
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	4.73	7.19	4.63	3.51
	7.48	10.93	7.58	5.72
	6.68	9.84	6.93	4.42
	7.31	10.70	7.50	4.98
Net value per unit	8.97	9.09	9.10	9.00
Machinery cost per acre	77.94	91.81	81.21	70.92
Est. labor hours per acre	1.19	1.39	1.12	1.11

Soybeans on Cash Rent

	Avg. Of			
	AII Farms	Low 20%	<u>40 - 60%</u>	<u>High 20%</u>
Number of farms	232	46	47	47
Acres	774.78	553.63	967.94	669.22
Yield per acre (bu.) Operators share of yield %	36.41 100.00	29.34 100.00	36.24 100.00	40.62 100.00
Value per bu.	8.95	9.02	8.91	8.93
Total product return per acre	325.83	264.69	322.91	362.71
Hedging gains/losses per acre	1.78	- 0.00	0.03	10.20
Crop insurance per acre Other crop income per acre	6.30 1.43	9.02 0.88	3.93 0.67	10.30 2.42
Gross return per acre	335.34	274.59	327.54	375.44
Direct Expenses				
Seed and plants	63.27	66.32	64.70	61.28
Fertilizer Crop chemicals	9.66 30.27	10.46 33.27	11.55 27.41	9.31 25.85
Crop insurance	16.16	18.89	15.53	13.92
Fuel & oil	11.63	13.81	11.20	10.13
Repairs	22.44	29.73	22.29	17.87
Custom hire Land rent	3.01 82.62	5.06 91.99	3.53 70.26	2.76 73.13
Machinery leases	1.49	0.94	0.30	0.57
Operating interest	5.17	5.99	4.53	4.42
Miscellaneous	1.02	0.70	1.33	0.55
Total direct expenses per acre Return over direct exp per acre	246.74 88.60	277.14 -2.55	232.62 94.91	219.80 155.63
Overhead Expenses				
Custom hire	0.98	0.23	1.02	1.54
Hired labor	10.15	11.06	10.97	7.29
Machinery leases Building leases	4.33 0.41	4.17 0.43	3.91 0.29	3.86 0.82
Farm insurance	5.11	5.30	5.04	3.60
Utilities	3.75	4.73	3.39	2.95
Dues & professional fees	2.29	2.73	2.20 2.34	1.44
Interest Mach & bldg depreciation	2.83 27.60	3.52 27.94	2.34 31.56	2.21 24.97
Miscellaneous	3.80	3.37	4.25	2.95
Total overhead expenses per acre	61.25	63.49	64.98	51.62
Total dir & ovhd expenses per acre	307.99 27.35	340.64 -66.05	297.61 29.93	271.43 104.01
Net return per acre				
Government payments	10.77 38.12	10.30 -55.74	11.54 41.47	10.39 114.40
Net return with govt pmts Labor & management charge	22.09	23.33	21.89	23.34
Net return over lbr & mgt	16.03	-79.08	19.58	91.06
Cost of Production				
Total direct expense per bu.	6.78	9.45	6.42	5.41
Total dir & ovhd exp per bu. Less govt & other income	8.46 7.90	11.61 10.92	8.21 7.77	6.68 6.11
With labor & management	8.51	11.72	8.37	6.69
Net value per unit	9.00	9.02	8.91	8.93
Machinery cost per acre	72.18	83.49	73.23	61.46
Est. labor hours per acre	1.15	1.48	1.12	1.02

Soybeans on Share Rent

All Farms Low 20% 40 - 60% High 20% Number of farms 32 6 7 7 Acres 250.77 128.83 448.11 138.97 Yield per acre (bu.) 36.01 28.83 36.21 42.30 Operators share of yield % 66.95 67.22 72.61 73.47 Value per bu. 8.85 8.92 8.81 8.97 Total product return per acre 213.40 172.82 231.61 278.96 Crop insurance per acre 0.82 3.88 - 3.69 Other crop income per acre 4.40 3.34 - 12.69 Gross return per acre 218.62 180.05 231.61 295.33
Acres 250.77 128.83 448.11 138.97 Yield per acre (bu.) 36.01 28.83 36.21 42.30 Operators share of yield % 66.95 67.22 72.61 73.47 Value per bu. 8.85 8.92 8.81 8.97 Total product return per acre 213.40 172.82 231.61 278.96 Crop insurance per acre 0.82 3.88 - 3.69 Other crop income per acre 4.40 3.34 - 12.69
Yield per acre (bu.) 36.01 28.83 36.21 42.30 Operators share of yield % 66.95 67.22 72.61 73.47 Value per bu. 8.85 8.92 8.81 8.97 Total product return per acre 213.40 172.82 231.61 278.96 Crop insurance per acre 0.82 3.88 - 3.69 Other crop income per acre 4.40 3.34 - 12.69
Operators share of yield % 66.95 67.22 72.61 73.47 Value per bu. 8.85 8.92 8.81 8.97 Total product return per acre 213.40 172.82 231.61 278.96 Crop insurance per acre 0.82 3.88 - 3.69 Other crop income per acre 4.40 3.34 - 12.69
Value per bu. 8.85 8.92 8.81 8.97 Total product return per acre 213.40 172.82 231.61 278.96 Crop insurance per acre 0.82 3.88 - 3.69 Other crop income per acre 4.40 3.34 - 12.69
Total product return per acre 213.40 172.82 231.61 278.96 Crop insurance per acre 0.82 3.88 - 3.69 Other crop income per acre 4.40 3.34 - 12.69
Crop insurance per acre 0.82 3.88 - 3.69 Other crop income per acre 4.40 3.34 - 12.69
Other crop income per acre 4.40 3.34 - 12.69
210.02 100.00 201.01 290.00
Direct Expenses
Seed and plants 54.49 68.24 62.59 67.53
Fertilizer 7.33 12.70 8.70 11.37
Crop chemicals 22.21 28.27 25.50 13.74
Crop insurance 10.87 14.86 11.41 11.88
Fuel & oil 11.02 12.57 11.10 10.36 Repairs 18.85 29.11 16.64 15.35
Repairs 18.85 29.11 16.64 15.35 Custom hire 5.70 5.86 7.96 6.50
Machinery leases 0.20 0.41 0.22 0.64
Operating interest 2.20 2.50 2.28 2.48
Miscellaneous 2.70 0.14 0.39 1.20
Total direct expenses per acre 135.56 174.65 146.79 141.03
Return over direct exp per acre 83.06 5.40 84.82 154.30
Overhead Expenses
Custom hire 1.86 0.44 1.02 5.36
Hired labor 4.58 8.60 2.82 1.44
Machinery leases 2.07 1.02 3.52 3.29 Farm insurance 4.87 6.60 4.65 4.07
Utilities 3.40 3.45 3.43 1.48
Dues & professional fees 0.94 3.94 0.43 0.71
Interest 1.94 3.46 1.54 4.34
Mach & bldg depreciation 32.38 33.92 36.54 27.32
Miscellaneous 3.29 4.81 3.65 3.16
Total overhead expenses per acre 55.32 66.26 57.61 51.17
Total dir & ovhd expenses per acre 190.88 240.91 204.41 192.20
Net return per acre 27.74 -60.86 27.20 103.13
Government payments 12.95 6.76 17.48 16.21
Net return with govt pmts 40.69 -54.10 44.68 119.35
Labor & management charge 23.10 21.31 22.26 30.08
Net return over lbr & mgt 17.59 -75.40 22.42 89.27
Cost of Production
Total direct expense per bu. 5.62 9.01 5.58 4.54 Total dir & ovhd exp per bu. 7.92 12.43 7.77 6.18
Total dir & ovhd exp per bu. 7.92 12.43 7.77 6.18 Less govt & other income 7.16 11.71 7.11 5.14
With labor & management 8.12 12.81 7.96 6.10
· · · · · · · · · · · · · · · · · · ·
Net value per unit 8.85 8.92 8.81 8.97 Machinery cost per cost 73.04 95.34 77.36 73.04
Machinery cost per acre 72.94 85.34 77.36 72.94 Est. labor hours per acre 1.09 1.14 0.97 1.01
Lot. labor flours per acre 1.09 1.14 0.97 1.01

Soybeans, Food on Owned Land

	Avg. Of All Farms
Number of farms	7
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Crop insurance per acre Gross return per acre	193.71 38.73 100.00 11.91 461.42 2.47 463.90
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Operating interest Total direct expenses per acre Return over direct exp per acre	47.32 24.21 44.74 14.31 10.92 33.64 3.01 3.98 182.13 281.76
Overhead Expenses Hired labor Machinery leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	5.89 2.33 17.66 4.91 4.20 4.07 48.94 26.76 2.87 117.64 299.77 164.13
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	12.69 176.82 24.27 152.55
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	4.70 7.74 7.35 7.98
Net value per unit Machinery cost per acre Est. labor hours per acre	11.91 80.30 0.96

Sugar Beets on Owned Land

	Avg. Of All Farms
Number of farms	8
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Other crop income per acre Gross return per acre	138.74 22.95 100.00 43.86 1,006.81 13.93 1,020.74
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Hired labor Operating interest Total direct expenses per acre Return over direct exp per acre	198.98 90.88 120.56 39.13 60.05 108.75 17.25 30.14 22.91 688.65 332.09
Overhead Expenses Custom hire Hired labor Machinery leases Building leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	4.11 61.79 12.33 2.05 25.91 12.63 11.94 29.63 100.17 8.42 270.91 959.55 61.19
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	4.82 66.00 72.00 -6.00
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management	30.00 41.81 40.99 44.13
Net value per unit Machinery cost per acre Est. labor hours per acre	43.86 302.75 4.23

Sugar Beets on Cash Rent

	Avg. Of All Farms
Number of farms	20
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	284.02 30.14 100.00 35.71 1,076.22 8.01 28.77 1,113.00
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Hired labor Land rent Stock/quota lease Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	202.73 82.11 109.04 39.28 55.40 104.31 9.24 28.04 126.62 75.94 23.07 1.55 857.33 255.67
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	3.96 53.69 15.09 0.46 9.72 6.95 4.82 4.48 89.76 6.31 195.25 1,052.58 60.42
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	3.71 64.12 76.02 -11.89
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	28.44 34.92 33.58 36.10 35.71
Machinery cost per acre Est. labor hours per acre	280.33 4.58

Sunflowers on Owned Land

	Avg. Of All Farms
Number of farms	14
Acres Yield per acre (cwt.) Operators share of yield % Value per cwt. Other product return per acre Total product return per acre Crop insurance per acre Gross return per acre	161.54 16.42 100.00 17.09 1.14 281.86 9.11 290.97
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	43.77 32.11 34.27 11.98 12.25 16.29 7.04 6.64 0.19 164.54 126.43
Overhead Expenses Custom hire Hired labor Machinery leases Building leases RE & pers. property taxes Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	1.05 4.18 2.89 0.82 4.83 3.91 2.41 27.65 25.30 4.51 77.53 242.07 48.90
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	22.78 71.67 21.64 50.03
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	10.02 14.74 12.73 14.05
Net value per unit Machinery cost per acre Est. labor hours per acre	17.09 67.41 1.16

Sunflowers on Cash Rent

	Avg. Of All Farms	<u>40 - 60%</u>	<u> High 20%</u>
Number of farms	24	5	5
Acres Yield per acre (cwt.) Operators share of yield % Value per cwt. Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	386.45 16.67 100.00 18.03 300.67 38.73 2.45 341.85	406.14 13.63 100.00 17.53 238.96 28.32 3.60 270.87	447.98 25.28 100.00 17.69 447.05 5.00
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drying expense Fuel & oil Repairs Custom hire Land rent Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	36.28 37.22 34.90 13.69 0.71 12.62 21.90 8.80 65.61 8.37 1.06 241.17	34.37 35.35 38.09 16.33 11.55 16.04 6.59 51.41 7.48 217.21 53.66	32.60 41.21 36.92 10.13 14.41 22.73 17.33 61.36 4.33 0.12 241.15 210.90
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	1.31	4.03	1.03
	6.84	3.14	11.61
	3.90	3.20	6.65
	1.15	0.27	0.28
	4.42	3.52	2.52
	3.22	2.38	3.95
	2.33	0.11	1.81
	3.56	5.56	3.09
	35.35	20.68	30.91
	2.43	2.01	2.84
	64.52	44.90	64.69
	305.69	262.11	305.84
	36.16	8.76	146.21
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	13.34	11.97	16.27
	49.51	20.73	162.48
	25.01	20.99	24.39
	24.50	-0.26	138.09
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	14.46	15.93	9.54
	18.33	19.23	12.10
	15.06	16.01	11.26
	16.56	17.55	12.22
Net value per unit	18.03	17.53	17.69
Machinery cost per acre	84.39	66.53	93.51
Est. labor hours per acre	1.11	0.90	1.10

Wheat, Durum on Owned Land

	Avg. Of All Farms
Number of farms	7
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	199.43 37.28 100.00 6.24 232.64 14.72 1.03 248.39
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	18.11 51.03 23.80 13.48 10.39 17.48 1.43 7.55 1.05 144.32 104.07
Overhead Expenses Custom hire Hired labor Machinery leases Building leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	2.36 9.44 5.11 0.27 5.32 3.37 2.21 2.02 25.93 26.86 4.33 87.22 231.53 16.85
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	20.06 36.91 17.03 19.88
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	3.87 6.21 5.25 5.71
Net value per unit Machinery cost per acre Est. labor hours per acre	6.24 65.18 1.11

Wheat, Durum on Cash Rent

	Avg. Of All Farms
Number of farms	18
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	700.22 34.52 100.00 6.50 224.51 45.61 6.38 276.50
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	17.06 46.88 33.37 10.31 11.12 20.65 3.85 53.08 4.20 0.53 201.05 75.45
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	1.08 9.88 3.02 4.64 2.55 2.08 2.71 25.11 4.50 55.56 256.61 19.89
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	18.64 38.53 17.56 20.97
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	5.82 7.43 5.39 5.90
Net value per unit Machinery cost per acre Est. labor hours per acre	6.50 65.07 0.99

Wheat, Spring on Owned Land

	Avg. Of All Farms	Low 20%	<u>40 - 60%</u>	<u> High 20%</u>
Number of farms	114	22	23	23
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	311.75 44.81 100.00 5.74 1.47 258.73 0.08 18.92 2.09 279.81	368.07 27.44 100.00 5.78 1.65 160.35 49.34 0.86 210.56	275.90 44.46 100.00 5.69 3.52 256.63 0.43 13.95 5.38 276.39	306.25 66.90 100.00 5.60 374.37 3.67 2.64 380.68
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	14.93 53.08 26.87 12.34 10.59 19.36 4.31 0.30 3.63 1.40 146.81 133.00	14.72 50.83 29.59 12.50 10.41 23.42 4.35 4.78 3.28 153.90 56.66	15.50 48.11 26.12 15.23 11.93 19.37 5.49 1.57 3.66 0.81 147.78 128.61	14.68 59.00 25.96 11.15 11.51 16.38 5.37 1.19 0.73 145.95 234.72
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	1.66	1.54	0.91	3.72
	7.46	5.25	6.99	8.67
	1.33	0.32	2.58	2.13
	7.89	6.33	7.22	10.92
	4.79	5.28	4.50	5.31
	3.30	3.08	2.95	3.72
	0.85	0.90	0.61	0.87
	19.33	28.45	19.18	11.55
	32.07	37.72	30.42	34.25
	3.91	4.92	2.73	3.41
	82.59	93.80	78.11	84.54
	229.40	247.70	225.89	230.50
	50.41	-37.14	50.50	150.18
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	18.78	17.54	21.53	21.79
	69.19	-19.59	72.03	171.97
	21.07	18.75	22.00	25.45
	48.11	-38.35	50.03	146.52
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	3.28	5.61	3.32	2.18
	5.12	9.03	5.08	3.45
	4.20	6.50	4.07	3.03
	4.67	7.18	4.57	3.41
Net value per unit	5.74	5.78	5.70	5.60
Machinery cost per acre	69.21	77.39	72.11	71.97
Est. labor hours per acre	1.11	1.07	1.17	1.16

Wheat, Spring on Cash Rent

	Avg. Of <u>All Farms</u>	Low 20%	<u>40 - 60%</u>	<u>High 20%</u>
Number of farms	167	33	34	34
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Other product return per acre Total product return per acre Hedging gains/losses per acre Crop insurance per acre Other crop income per acre Gross return per acre	550.92 43.15 100.00 5.89 0.87 255.13 0.02 25.06 2.29 282.50	548.59 25.54 100.00 5.83 1.89 150.70 0.10 49.54 1.78 202.13	775.95 44.68 100.00 5.96 0.33 266.82 - 18.30 2.47 287.59	400.60 61.86 100.00 5.94 367.56 5.54 2.57 375.67
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Land rent Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	15.89 51.87 27.19 13.03 9.99 19.33 3.62 56.17 1.09 5.14 1.74 205.06 77.44	15.56 51.19 26.83 12.04 10.10 19.19 4.62 50.77 3.39 6.20 0.43 200.32 1.81	15.53 50.65 28.38 14.15 9.06 19.35 2.65 53.80 1.20 6.18 3.78 204.72 82.88	16.44 55.23 27.42 12.74 11.15 22.29 2.05 60.64 2.08 2.01 212.05 163.62
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	1.35	0.70	0.92	0.89
	8.18	6.66	11.47	8.18
	2.88	1.45	2.30	2.57
	0.43	0.37	0.61	0.15
	3.93	4.52	3.94	4.05
	2.95	2.83	2.95	2.68
	1.07	1.51	0.81	0.84
	2.44	3.13	2.35	1.52
	25.11	22.64	27.68	27.61
	3.10	3.20	2.57	2.47
	51.43	47.02	55.58	50.96
	256.49	247.34	260.30	263.01
	26.01	-45.21	27.29	112.65
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	16.49	14.83	17.85	13.89
	42.50	-30.39	45.14	126.55
	20.70	16.76	20.00	25.72
	21.80	-47.15	25.14	100.83
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	4.75	7.84	4.58	3.43
	5.94	9.68	5.83	4.25
	4.91	7.02	4.95	3.90
	5.39	7.67	5.40	4.31
Net value per unit	5.89	5.83	5.96	5.94
Machinery cost per acre	63.87	63.89	62.43	66.62
Est. labor hours per acre	1.07	1.05	1.03	1.17

Wheat, Spring on Share Rent

	Avg. Of All Farms	Low 20%	<u>40 - 60%</u>	High 20%
Number of farms	32	6	7	7
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	250.75 52.83 66.69 5.63 198.26 3.72 4.07 206.05	134.62 43.54 70.08 5.82 177.53 4.06 0.31 181.91	203.09 41.23 63.49 5.72 149.63 0.75	207.76 64.00 71.72 5.83 267.48 11.44 278.92
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	12.49	16.91	11.83	15.22
	43.97	55.80	41.69	43.16
	25.60	23.01	23.00	28.08
	10.32	11.31	6.69	11.44
	10.40	14.39	5.75	12.16
	19.17	30.94	12.24	17.71
	4.82	1.80	22.29	0.57
	2.33	5.76	0.94	1.73
	2.26	5.38	0.30	1.13
	131.36	165.29	124.73	131.20
	74.68	16.62	25.64	147.72
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	1.94	1.08	0.57	3.37
	5.71	12.27	6.09	1.61
	2.46	2.07	1.08	3.40
	0.41	1.04	-	0.06
	4.82	11.38	2.22	6.00
	2.75	3.49	1.07	2.97
	0.83	2.41	0.56	0.56
	1.69	3.13	0.76	2.35
	28.18	44.65	10.86	35.96
	2.69	2.13	1.23	4.62
	51.46	83.65	24.44	60.89
	182.82	248.93	149.17	192.09
	23.22	-67.03	1.21	86.83
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	15.35	9.78	16.49	17.31
	38.58	-57.24	17.70	104.14
	21.86	28.04	14.86	28.60
	16.72	-85.28	2.84	75.54
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management Net value per unit	3.73	5.42	4.77	2.86
	5.19	8.16	5.70	4.18
	4.53	7.69	5.04	3.56
	5.15	8.61	5.61	4.18
	5.63	5.82	5.72	5.83
Machinery cost per acre Est. labor hours per acre	67.42	94.70	53.15	73.82
	1.14	1.76	1.01	1.03

EXPLANATORY NOTES FOR LIVESTOCK TABLES

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

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

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

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

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

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

Beef Cow-Calf -- Average Per Cwt. Produced

_	Avg. O All Farm		Low 2	0%	40 - 60	9%	High 2	20%
Number of farms	51		10		10		11	
Beef Calves sold (lb) Transferred out (lb) Cull sales Other income Purchased Transferred in Inventory change Gross margin	Quantity 34.47 65.53	Value 55.48 106.54 36.84 1.21 -19.50 -23.85 -16.31 148.73	Quantity 30.94 69.06	Value 49.22 111.15 45.12 0.60 -31.06 -17.34 -29.62 135.14	Quantity 45.31 54.69	Value 73.14 85.84 32.90 1.94 -20.20 -25.03 -9.48 146.68	Quantity 39.87 60.13	Value 64.23 98.98 33.64 1.44 -15.30 -18.96 -8.28 161.05
Cake (lb.) Protein Vit Minerals (lb.) Creep / Starter (lb.) Complete Ration (lb.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Custom hire Marketing Operating interest Total direct expenses Return over direct expense	5.51 23.66 9.49 16.76 335.18 105.88 897.68 1.28 86.14	0.56 5.32 1.09 0.80 4.72 4.01 23.85 25.74 3.58 6.13 2.81 3.94 7.35 2.27 1.36 1.70 95.24 53.49	33.09 23.70 2.74 14.42 364.15 133.59 1,007.75 1.54 234.88	3.37 9.53 0.30 1.35 6.35 4.40 24.40 27.51 6.41 6.91 4.74 5.81 14.53 1.83 1.13 2.56 121.12	18.35 4.99 53.73 545.48 180.22 847.40 1.06 32.21	3.98 0.50 2.07 7.01 7.66 23.89 24.10 2.72 7.08 2.02 3.48 6.13 2.31 1.53 1.56 96.04 50.64	35.64 23.82 291.90 130.07 786.26 1.18 57.16	4.19 2.70 4.55 4.82 19.85 23.72 1.83 4.75 3.53 3.27 3.72 2.02 2.06 1.78 82.79 78.25
Overhead Expenses Hired labor Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		2.62 2.18 2.04 1.83 7.59 3.48 19.74 114.97 33.76		3.80 3.60 2.44 2.81 7.90 3.70 24.26 145.37 -10.23		1.95 1.76 1.37 1.83 7.93 3.56 18.41 114.44 32.23		1.48 1.59 1.65 1.63 5.54 3.51 15.39 98.19 62.86
Labor & management charge Net return over lbr & mgt		11.60 22.15		10.86 -21.09		11.14 21.10		11.68 51.18
Cost of Production Per Cwt. Production Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management	ed	95.24 114.97 128.95 140.56		121.12 145.37 171.20 182.06		96.04 114.44 126.87 138.01		82.79 98.19 100.39 112.07
Est. labor hours per unit		0.86		1.17		0.81		0.69
Other Information Number of cows Pregnancy percentage Pregnancy loss percentage Culling percentage Calving percentage Weaning percentage Weaning percentage Calves sold per cow Calf death loss percent Cow death loss percent Average weaning weight Lb. weaned/exposed female Feed cost per cow Avg wgt/ Beef Calves sold Avg price / cwt.		188.7 95.2 2.5 20.7 92.8 88.0 0.94 5.0 1.6 577 508 381.03 592 160.97		172.3 93.2 2.9 25.8 90.5 85.7 0.94 6.3 2.1 541 464 425.40 533 159.12		229.1 96.3 3.0 19.0 93.4 87.0 0.94 5.3 1.1 615 535 408.98 597 161.41		212.4 97.8 1.0 18.3 96.8 92.8 0.96 4.4 1.0 597 554 353.72 629 161.10

Beef Cow-Calf -- Average Per Cow

_	Avg. C All Farn	Of ns	Low 2	0%	40 - 60	0%	High 2	0%
Number of farms		51		10		10		11
Beef Calves sold (lb) Transferred out (lb) Cull sales Other income Purchased Transferred in Inventory change Gross margin	Quantity 188.5 358.3	Value 303.38 582.58 201.47 6.59 -106.64 -130.39 -89.19 813.28	Quantity 157.4 351.4	Value 250.45 565.55 229.55 3.05 -158.05 -88.24 -150.71 687.61	Quantity 257.6 310.9	Value 415.86 488.08 187.07 11.00 -114.84 -142.29 -53.88 833.98	Quantity 228.7 344.9	Value 368.45 567.78 193.01 8.24 -87.77 -108.75 -47.51 923.85
Cake (lb.) Protein Vit Minerals (lb.) Creep / Starter (lb.) Complete Ration (lb.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Custom hire Marketing Operating interest Total direct expenses Return over direct expense	30.1 129.4 51.9 91.7 1,832.8 579.0 4,908.7 7.0 471.0	3.07 29.08 5.98 4.40 25.82 21.90 130.43 140.76 19.58 33.53 15.38 21.55 40.18 12.41 7.42 9.28 520.78 292.50	168.4 120.6 13.9 73.4 1,852.8 679.7 5,127.5 7.8 1,195.1	17.17 48.50 1.52 6.86 32.29 22.37 124.13 139.95 32.60 35.15 24.14 29.58 73.91 9.32 5.76 13.01 616.26 71.35	104.4 28.4 305.5 3,101.5 1,024.7 4,818.1 6.0 183.2	22.64 2.84 11.78 39.87 43.54 135.83 137.03 15.45 40.25 11.47 19.77 34.86 13.15 8.68 8.89 546.05 287.94	204.4 136.7 1,674.5 746.2 4,510.4 6.8 327.9	24.01 15.51 26.11 27.65 113.86 136.09 10.48 27.24 20.25 18.76 21.36 11.57 11.82 10.23 474.95 448.91
Overhead Expenses Hired labor Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		14.34 11.92 11.14 9.99 41.48 19.04 107.92 628.70 184.58		19.33 18.31 12.44 14.31 40.20 18.83 123.42 739.67 -52.07		11.11 10.02 7.79 10.40 45.10 20.24 104.66 650.71 183.27		8.52 9.10 9.44 9.35 31.76 20.13 88.30 563.25 360.60
Labor & management charge Net return over lbr & mgt		63.45 121.13		55.24 -107.31		63.33 119.94		67.01 293.59
Cost of Production Per Cwt. Produce Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management	ed	95.24 114.97 128.95 140.56		121.12 145.37 171.20 182.06		96.04 114.44 126.87 138.01		82.79 98.19 100.39 112.07
Est. labor hours per unit		4.72		5.95		4.61		3.98
Other Information Number of cows Pregnancy percentage Pregnancy loss percentage Culling percentage Calving percentage Weaning percentage Calves sold per cow Calf death loss percent Cow death loss percent Average weaning weight Lb. weaned/exposed female Feed cost per cow Avg wgt/ Beef Calves sold Avg price / cwt.		188.7 95.2 2.5 20.7 92.8 88.0 0.94 5.0 1.6 577 508 381.03 592 160.97		172.3 93.2 2.9 25.8 90.5 85.7 0.94 6.3 2.1 541 464 425.40 533 159.12		229.1 96.3 3.0 19.0 93.4 87.0 0.94 5.3 1.1 615 535 408.98 597 161.41		212.4 97.8 1.0 18.3 96.8 92.8 0.96 4.4 1.0 597 554 353.72 629 161.10

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

	Avg. All Fa	
Number of farms		15
Beef Calves sold (lb) Transferred out (lb) Cull sales Other income Purchased Transferred in Inventory change Gross margin	Quantity 55.17 36.65	Value 81.74 52.04 22.82 0.29 -27.30 -16.92 27.12 144.79
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) DDGS, dry (lb.) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Custom hire Hired labor Marketing Operating interest Total direct expenses Return over direct expense	14.64 17.60 858.55 101.03 808.15 1.03 68.19 176.64	3.09 0.76 12.14 3.15 20.59 19.14 1.25 5.07 4.36 2.64 4.68 8.71 2.54 0.62 1.21 1.30 91.24 53.54
Overhead Expenses Hired labor Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		0.79 2.17 2.21 4.32 7.99 2.99 20.47 111.72 33.07
Labor & management charge Net return over lbr & mgt		13.80 19.27
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		91.24 111.72 122.12 135.92
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 Average weaning weight Lb. weaned/exposed female Feed cost per cow Avg wgt/ Beef Calves sold Avg price / cwt.		149.3 96.8 1.4 16.3 95.5 89.6 0.83 5.0 1.3 574 514 397.01 629 148.16

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

	Avg. All Far	
Number of farms		15
Beef Calves sold (lb) Transferred out (lb) Cull sales Other income Purchased Transferred in Inventory change Gross margin	Quantity 336.0 223.2	Value 497.86 316.93 139.00 1.79 -166.28 -103.07 165.17 881.86
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) DDGS, dry (lb.) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Custom hire Marketing Operating interest Total direct expenses Return over direct expense	89.2 107.2 5,229.1 615.3 4,922.1 6.3 415.3 1,075.9	18.80 4.61 73.96 19.17 125.42 116.58 7.59 30.89 26.58 19.87 28.49 53.05 15.47 7.34 7.91 555.74 326.12
Overhead Expenses Hired labor Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		4.79 13.23 13.48 26.32 48.66 18.22 124.70 680.43 201.43
Labor & management charge Net return over lbr & mgt		84.07 117.35
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		91.24 111.72 122.12 135.92
Est. labor hours per unit		5.33
Other Information Number of cows Pregnancy percentage Pregnancy loss percentage Culling percentage Calving percentage Weaning percentage Weaning percentage Calves sold per cow Calf death loss percent Cow death loss percent Average weaning weight Lb. weaned/exposed female Feed cost per cow Avg wgt/ Beef Calves sold Avg price / cwt.		149.3 96.8 1.4 16.3 95.5 89.6 0.83 5.0 1.3 574 514 397.01 629 148.16

Beef Cow-Calf (shares) -- Average Per Cwt. Produced

	Avg. 0 All Fari	
Number of farms		5
Beef Calves sold (lb) Transferred out (lb) Cull sales Other income	Quantity 18.57 81.43	Value 29.25 132.21 15.58
Purchased Transferred in Inventory change Gross margin		-14.76 -2.85 -6.37 163.05
Direct Expenses Protein Vit Minerals (lb.) Aftermath Grazing (aum) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Custom hire Livestock leases Marketing Operating interest Total direct expenses Return over direct expense	6.67 0.20 149.14 20.84 634.32 0.93 13.39	2.71 4.32 2.04 1.30 18.97 22.11 0.75 6.59 0.44 4.20 12.55 0.74 36.89 1.18 3.66 118.46 44.59
Overhead Expenses Hired labor Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		0.74 2.44 2.87 1.50 6.26 10.59 1.24 25.65 144.10 18.94
Labor & management charge Net return over lbr & mgt		14.19 4.75
Cost of Production Per Cwt. Produced Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management		118.46 144.10 142.52 156.70
Est. labor hours per unit		1.10
Other Information Number of cows Pregnancy percentage Pregnancy loss percentage Culling percentage Calving percentage Weaning percentage Weaning percentage Calves sold per cow Calf death loss percent Cow death loss percent Average weaning weight Lb. weaned/exposed female Feed cost per cow Avg wgt/ Beef Calves sold Avg price / cwt.		100.0 96.8 3.3 9.0 93.6 89.2 1.02 4.0 0.2 581 518 293.56 687 157.47

Beef Cow-Calf (shares) -- Average Per Cow

	Avg. <u>All Fa</u> i	
Number of farms		5
Beef Calves sold (lb) Transferred out (lb) Cull sales Other income Purchased Transferred in Inventory change Gross margin	Quantity 104.4 457.8	Value 164.45 743.39 87.62 -83.00 -16.00 -35.83 916.76
Direct Expenses Protein Vit Minerals (lb.) Aftermath Grazing (aum) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Custom hire Livestock leases Marketing Operating interest Total direct expenses Return over direct expense	37.5 1.1 838.6 117.2 3,566.6 5.3 75.3	15.26 24.30 11.47 7.33 106.68 124.31 4.23 37.05 2.45 23.63 70.54 4.15 207.43 6.63 20.60 666.05 250.71
Overhead Expenses Hired labor Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		4.17 13.75 16.14 8.41 35.20 59.54 6.98 144.19 810.24 106.52
Labor & management charge Net return over lbr & mgt		79.78 26.73
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		118.46 144.10 142.52 156.70
Est. labor hours per unit		6.17
Other Information Number of cows Pregnancy percentage Pregnancy loss percentage Culling percentage Calving percentage Weaning percentage Calves sold per cow Calf death loss percent Cow death loss percent Average weaning weight Lb. weaned/exposed female Feed cost per cow Avg wgt/ Beef Calves sold Avg price / cwt.		100.0 96.8 3.3 9.0 93.6 89.2 1.02 4.0 0.2 581 518 293.56 687 157.47

Beef Replacement Heifers -- Average Per Head

		Avg. Of All Farms Low 20%		20%	40 - 6	60%	<u> </u>	
Number of farms		35		7		7		7
Beef Replace sold (hd) Transferred out (hd) Cull sales (hd) Other income	Quantity 0.22 0.91 0.04	Value 277.03 1,313.25 42.93	Quantity 0.10 1.04 0.10	Value 111.99 1,252.07 114.88	Quantity 0.09 0.79 0.03	Value 123.86 1,100.92 26.23	Quantity 0.08 0.90 0.01	Value 137.37 1,504.22 17.34
Purchased (hd) Transferred in (hd) Inventory change (hd) Gross margin	0.12 0.63 -0.43	-109.27 -548.49 -346.66 654.88	0.47 -0.79	-462.36 -761.82 276.52	0.93 0.03	-773.64 40.98 540.91	0.03 0.23 -0.74	-25.25 -203.83 -576.72 877.65
Direct Expenses Protein Vit Minerals (lb.) Creep / Starter (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) Straw (lb.) DDGS, dry (lb.) Other feed stuffs (lb) Breeding fees Veterinary Supplies Fuel & oil Repairs Custom hire Operating interest Total direct expenses Return over direct expense	79.40 26.65 85.78 3.34 2,155.96 326.82 2,522.24 5.29 402.28 73.98 56.90	20.26 2.81 3.75 9.33 31.81 10.89 70.06 103.80 4.51 4.55 4.00 4.20 17.16 4.40 6.25 8.10 6.95 3.70 316.54 338.34	71.36 4.13 - 1.32 3,478.76 694.21 2,591.74 4.24 578.51 61.98 0.05	16.15 0.52 3.90 52.22 18.72 60.78 74.73 4.86 4.01 1.11 	102.12 68.31 443.99 3.01 976.78 2,050.20 5.19 403.01 86.13	23.95 7.51 18.78 8.72 12.99 57.79 113.65 3.69 2.89 20.12 3.90 4.67 7.03 6.25 2.02 293.97 246.93	69.34 5.05 3.30 1,979.29 161.62 2,353.82 5.96 653.30 153.64 79.52	22.24 0.67 8.84 31.22 6.38 67.84 93.99 9.56 7.82 4.55 8.54 12.06 2.61 5.43 8.73 7.24 1.90 299.62 578.02
Overhead Expenses Hired labor Farm insurance Utilities Dues & professional fees Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		4.01 3.68 3.34 1.38 12.99 8.18 33.57 350.11 304.77		1.46 1.36 1.82 0.42 5.07 6.87 17.00 277.00		2.16 2.98 2.14 0.09 9.55 7.08 24.00 317.97 222.94		10.09 5.18 4.39 3.64 16.00 7.91 47.20 346.83 530.82
Labor & management charge Net return over lbr & mgt		20.23 284.54		10.46 -10.94		17.26 205.67		19.43 511.39
Est. labor hours per unit		1.40		0.64		1.20		1.24
Other Information No. purchased or trans in Number sold or trans out Average number of head Percentage death loss Feed cost per average head Feed cost/head sold/trans		33 50 44 0.5 265.78 235.58		16 40 35 1.0 236.99 207.04		39 37 42 0.5 249.98 284.80		15 56 57 0.7 253.11 257.66

Beef Replacement Heifers -- Average Per Head Sold/Trans

	Avg. (All Fari		Low 2	20%	40 - 6	50%	High 2	20%
Number of farms		35		7		7		7
Beef Replace sold (hd) Transferred out (hd) Cull sales (hd) Other income Purchased (hd) Transferred in (hd) Inventory change (hd) Gross margin	Quantity 0.2 0.8 0.0 0.1 0.6 -0.4	Value 245.55 1,164.03 38.06 - -96.86 -486.17 -307.27 580.47	Quantity 0.1 0.9 0.1 - 0.4 -0.7	Value 97.84 1,093.86 100.36 - -403.94 -665.56 241.58	Quantity 0.1 0.9 0.0	Value 141.11 1,254.28 29.88 - - -881.41 46.69 616.26	Quantity 0.1 0.9 0.0 0.0 0.2 -0.8	Value 139.85 1,531.29 17.65 - -25.71 -207.50 -587.10 893.44
Direct Expenses Protein Vit Minerals (lb.) Creep / Starter (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) Straw (lb.) DDGS, dry (lb.) Other feed stuffs (lb) Breeding fees Veterinary Supplies Fuel & oil Repairs Custom hire Total direct expenses Return over direct expense	70.4 23.6 76.0 3.0 1,911.0 289.7 2,235.7 4.7 356.6 65.6 50.4	17.95 2.49 3.32 8.27 28.20 9.66 62.10 92.01 4.00 4.04 3.54 3.72 15.21 7.18 5.54 7.18 6.16 280.57 299.90	62.3 3.6 1.2 3,039.2 606.5 2,264.3 3.7 505.4 54.2 0.0	14.11 0.45 3.40 45.62 16.35 53.10 65.29 4.24 3.50 0.97 9.17 2.27 3.59 4.54 0.53 227.15 14.43	116.3 77.8 505.8 3.4 1,112.8 2,335.8 5.9 459.1	27.29 8.56 21.40 9.93 14.80 65.85 129.48 4.20 3.29 6.74 5.33 8.01 7.12 334.92 281.33	70.6 5.1 3.4 2,014.9 164.5 2,396.2 6.1 665.1 156.4 81.0	22.64 0.68 9.00 31.79 6.50 69.06 95.68 97.3 7.96 4.63 8.69 12.28 4.59 5.52 8.89 7.37 305.01 588.43
Overhead Expenses Hired labor Farm insurance Utilities Dues & professional fees Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		3.55 3.26 2.96 1.22 11.51 7.25 29.75 310.33 270.15		1.28 1.18 1.59 0.37 4.43 6.00 14.85 242.00 -0.42		2.47 3.39 2.43 0.10 10.88 8.07 27.34 362.27 253.99		10.27 5.27 4.47 3.70 16.29 8.05 48.05 353.07 540.37
Labor & management charge Net return over lbr & mgt		17.93 252.21		9.14 -9.56		19.67 234.32		19.78 520.59
Est. labor hours per unit		1.24		0.56		1.37		1.26
Other Information No. purchased or trans in Number sold or trans out Average number of head Percentage death loss Feed cost per average head Feed cost/head sold/trans		33 50 44 0.5 265.78 235.58		16 40 35 1.0 236.99 207.04		39 37 42 0.5 249.98 284.80		15 56 57 0.7 253.11 257.66

Beef Backgrounding -- Average Per Cwt. Produced

	Avg. Of All Farms		40 - 6	0%	<u> </u>		
Number of farms		24		5	5		
Backgnd Beef sold (lb) Transferred out (lb) Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 252.85 153.98 -8.87 -264.31 -34.39	Value 355.27 229.60 0.63 -13.03 -432.89 -38.40 101.52	Quantity 382.15 105.07 -465.23 78.01	Value 558.98 155.32 - -742.03 141.46 113.73	Quantity 145.10 89.20 - -96.22 -38.49	Value 206.26 111.60 0.42 - -152.29 -41.82 125.46	
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Barley (bu.) Corn (bu.) Corn Silage (lb.) Corn, Ear (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) DDGS, dry (lb.) DDGS, wet (lb.) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Livestock leases Marketing Total direct expense Return over direct expense	23.34 33.38 0.111 3.44 381.91 17.85 58.40 612.45 0.09 38.60 31.74 120.09	5.90 3.12 0.24 9.58 5.62 0.96 1.93 15.87 1.61 2.27 0.97 4.18 2.32 3.59 2.26 3.66 1.35 4.07 69.52 32.01	5.53 - 2.01 0.83 153.88 - 1,230.20 - - 9.62	2.12 4.22 2.07 1.54 	10.50 43.17 1.17 178.06 68.18 154.11 364.20 0.21 55.31 22.37 190.21	3.98 2.80 3.56 2.08 3.68 4.84 7.71 3.81 3.06 0.74 5.62 2.45 2.98 0.83 1.55 1.31 51.00 74.46	
Overhead Expenses Hired labor Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return Labor & management charge		2.07 1.94 3.64 4.38 12.02 81.54 19.98		0.64 2.83 1.94 7.31 12.73 86.00 27.73		1.49 0.43 1.92 1.52 5.35 56.35 69.11	
Net return over lbr & mgt 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		14.30 135.98 138.93 138.93 140.33		19.37 138.30 140.92 140.92 142.63		67.38 104.44 106.72 106.72 107.46	
Est. labor hours per unit		0.45		0.73		0.15	
Other Information No. purchased or trans in Number sold or trans out Percentage death loss Avg. daily gain (lb.) Lb. of conc / lb. of gain Lb. of feed / lb. of gain Feed cost per cwt. of gain Feed cost per head Avg wgt / Backgnd Beef sold Avg sales price / cwt.		161 189 0.4 1.68 4.01 12.79 52.25 79.58 714 140.51		71 63 0.2 1.19 1.58 14.39 42.15 45.64 623 146.27		73 129 0.1 1.82 3.42 10.51 41.88 104.00 722 142.15	

Beef Backgrounding -- Average Per Head

	Avg. OfAll Farms		40 - 6	0%	<u> </u>		
Number of farms		24		5	-	5	
Backgnd Beef sold (lb) Transferred out (lb) Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin	Quantity 385.1 234.5 -13.5 -402.5 -52.4	Value 541.08 349.68 0.96 -19.85 -659.29 -58.48 154.62	Quantity 413.8 113.8 - -503.7 84.5	Value 605.22 168.17 - - -803.41 153.16 123.14	Quantity 360.4 221.5 - -239.0 -95.6	Value 512.28 277.17 1.04 - -378.24 -103.87 311.61	
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) Corn, Ear (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) Screenings, Heavy (lb.) DDGS, dry (lb.) DDGS, wet (lb.) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Custom hire Livestock leases Marketing Total direct expenses Return over direct expense	35.5 50.8 5.2 581.6 27.2 88.9 932.8 0.1 43.5 58.8 48.3 139.6	8.98 4.75 14.59 8.55 1.47 2.93 24.17 2.46 1.45 3.46 1.48 5.29 3.54 3.20 3.45 5.58 2.28 2.05 6.20 105.87 48.75	6.0 0.9 166.6 - 1,332.0 - - 12.6	2.29 2.24 1.67 - 33.57 - 5.87 5.30 1.55 5.25 6.19 1.30 - 14.11 79.33 43.81	26.1 107.2 2.9 442.3 169.3 382.8 904.6 0.5 117.0 137.4 55.6 355.5	9.90 6.94 8.84 5.16 9.14 12.02 19.15 9.46 4.68 7.59 1.83 9.29 6.08 1.32 2.06 3.85 6.09	
Overhead Expenses Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		5.54 12.77 18.31 124.19 30.44		2.10 11.68 13.78 93.11 30.02		4.77 8.53 13.30 139.96 171.65	
Labor & management charge Net return over lbr & mgt		8.65 21.78		9.05 20.97		4.29 167.35	
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		135.98 138.93 138.93 140.33		138.30 140.92 140.92 142.63		104.44 106.72 106.72 107.46	
Est. labor hours per unit		0.69		0.79		0.38	
Other Information No. purchased or trans in Number sold or trans out Percentage death loss Avg. daily gain (lb.) Lb. of conc / lb. of gain Lb. of feed / lb. of gain Feed cost per cwt. of gain Feed cost per head Avg wgt / Backgnd Beef sold Avg sales price / cwt.		161 189 0.4 1.68 4.01 12.79 52.25 79.58 714		71 63 0.2 1.19 1.58 14.39 42.15 45.64 623 146.27		73 129 0.1 1.82 3.42 10.51 41.88 104.00 722 142.15	

Figure 1. Gross Cash Income Per Farm

N.D. Farm Business Management Education Program

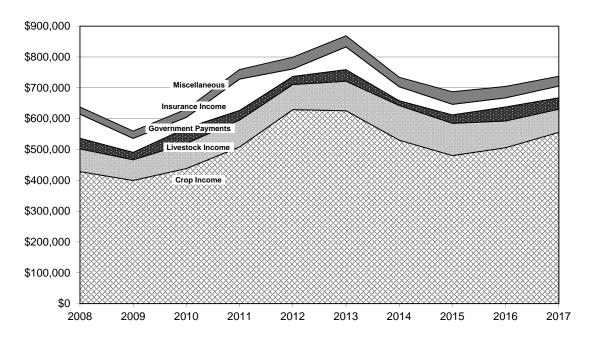


Figure 2. Net Farm Income (Accrual) Per Farm

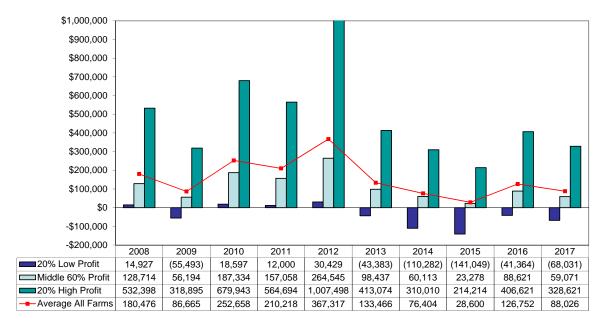


Figure 3. Financial Efficiency Measures (As Percent of Gross Revenue)

N.D. Farm Business Management Education Program

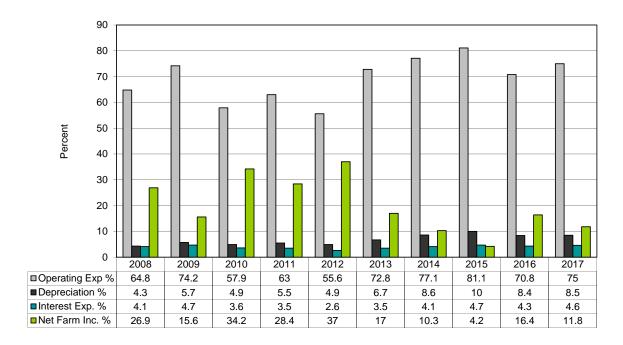


Figure 4. Profitability Measures Per Farm

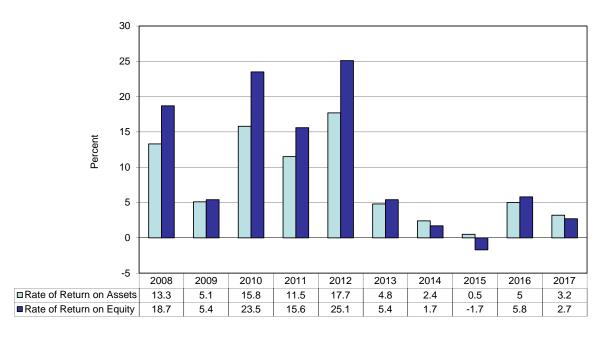


Figure 5. Assets and Liabilities Per Farm, 2017

N.D. Farm Business Management Education Program

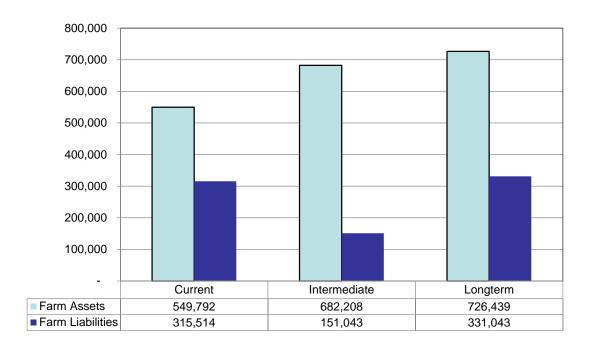


Figure 6. Total Farm Assets and Liabilities

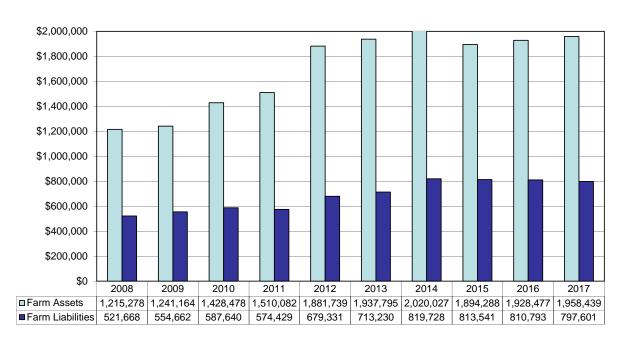


Figure 7. Household and Personal Expenses

N.D. Farm Business Management Education Program

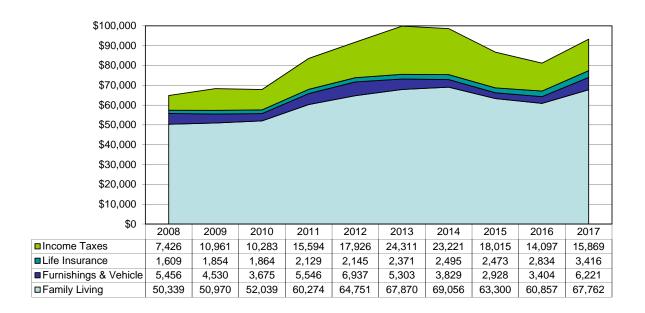


Figure 8. Crop Acreage Per Farm

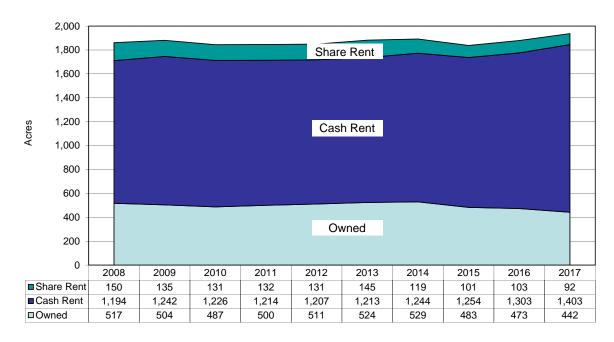


Figure 9. Spring Wheat Costs Per Acre

N.D. Farm Business Management Education Program

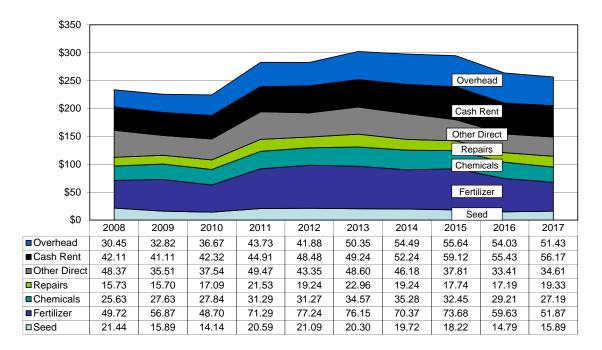


Figure 10. Average Net Return Per Beef Cow

