2018 ANNUAL REPORT North Central North Dakota

North Dakota Farm and Ranch Business Management Education





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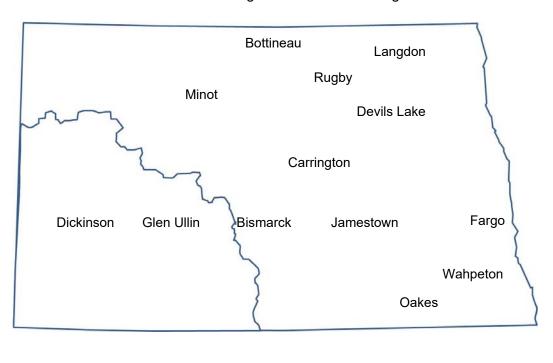
NORTH DAKOTA FARM BUSINESS MANAGEMENT EDUCATION

REGION 2 – NORTH CENTRAL AVERAGES 2018 ANNUAL REPORT

The North Central (Region 2) farm business analyses were submitted by the following instructors represented by their cooperating schools.

Dakota College at Bottineau Rodney Armstrong	<u>School</u>	Instructor
Dakota College at Bottineau - Minot Lynsey Aberle Dakota College at Bottineau - Rugby	Dakota College at Bottineau - Rugby Lake Region State College - Devils Lake	Lynsey Aberle Sheila Braaten Jason Fewell Darren Wilcox

This report was made possible by the farm families who cooperated with their farm management instructors in getting the records for 2018 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.



Location of all Farm Business Management Education Programs in North Dakota

2018 North Central Report North Dakota Farm Business Management Education

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INTRODUCTION

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

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

The 2018 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 30th year that the regional averages have been generated in North Dakota based upon the four regions shown in the state map on the cover of this publication. A regional report has been generated and published for Regions 2 – North Central, 3 – South Central and 4 - Western identified on the North Dakota map. Farms in Region 1 – Red River Valley are located within the Red River Valley. Those farms are contained in a combined Minnesota-North Dakota Red River Valley report. The state averages report includes all farms participating in the North Dakota Farm Business Management Education Program that were represented in the regional averages and also those farms which were processed and submitted after the March deadline date. All of these reports may be ordered from Farm Business Management, P.O. Box 6022, Bismarck, ND, 58506-6022 for \$5 per copy. The reports are available online at www.ndfarmmanagement.com.

EXPLANATORY NOTES FOR THE FARM OPERATORS' REPORTS

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

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

Farm Income Statement

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

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

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

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

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

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

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

Inventory Changes

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

Depreciation

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

Profitability Measures

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

"Rate of return on assets" is the "Return on farm assets" divided by "Average farm assets." "Rate of return on equity "is the "Return of farm equity" divided by "Average farm equity." "Operating profit margin" is the "Return on farm assets" divided by "Value of farm production."

"Asset turnover rate" is the "Value of farm production" divided by "Average farm assets."

"Farm interest expense" is the accrual interest cost, usually it will be different from the cash interest expense.

"Value of operator's labor and management" is an opportunity cost for unpaid operator's labor and management that is used in the calculation of several financial performance

measures. A value of \$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 cost encoded at 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 Amortization</u>. This represents a measure of earnings available for debt repayment.

Repayment Capacity

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

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

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

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

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

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

Efficiency

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

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

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

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

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

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

Crop Production and Marketing Summary

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

Household and Personal Expenses

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

Operator and Labor Information

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

Nonfarm Summary

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

Farm Income Statement North Dakota Farm Business Management Education Program Region 2 - North Central North Dakota, 2018 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	127	25	26	26
Cash Farm Income				
Barley	32,477	24,558	12,658	86,723
Beans, Black Turtle Beans,	708	-	3,457	-
Garbonzo	791	4,017	-	-
Beans, Navy	1,659	5,092	-	-
Beans, Pinto	17,303	6,206	3,992	56,791
Corn	35,452	29,966	15,662	65,561
Oats	1,341	-	-	2,126
Peas, Field	7,745	7,394	3,298	24,014
Potatoes	4,819	24,287	-	-
Sorghum, Grain	4,871	-	-	23,791
Soybeans	155,616	127,762	113,705	291,436
Sunflowers	7,251	11,058	3,295	13,446
Wheat, Durum	6,188	8,404	-	10,872
Wheat, Spring	162,913	144,240	126,502	285,379
Wheat, Winter	1,012	-	214	1,698
Soybeans, Natto	638	-	-	-
Hay	519	-	507	1,430
Other Crops	630	-	-	3,077
Miscellaneous crop income	65,829	52,567	39,894	98,148
Beef Bulls	146	740	-	-
Beef Cow-Calf, Beef Calves	24,476	26,492	41,501	8,619
Beef Replacement Heifers	2,078	3,100	2,372	-
Beef Backgrounding	10,005	9,113	10,474	12,787
Beef Finish Cull Cows	561		2,638	-
Cull breeding livestock	4,739	3,095	4,168	2,979
Misc. livestock income	294	-	416	52
Crop government payments	32,959	25,033	20,894	70,235
CRP payments	1,147	1,501	43	1,415
Other government payments	40,473	38,088	30,313	72,619
Custom work income	9,737	6,512	10,947	18,939
Patronage dividends, cash	5,595	5,892	2,747	8,332
Crop insurance income	35,188	34,984	28,868	51,482
Property insurance income	1,312	1,941	465	1,977
Sale of resale items	312			1,523
Livestock insurance inc	61	200	-	1,020
	9,785	9,332	- 2,892	- 22,796
Other farm income Gross Cash Farm Income	686,629	9,332 611,576	481,925	1,238,246
GIUSS Cash Faith Income	000,029	011,370	401,920	1,230,240

Farm Income Statement (continued) North Dakota Farm Business Management Education Program Region 2 - North Central North Dakota, 2018 (Farms Sorted By Net Farm Income)

	Avg. Of <u>All Farms</u>	Low 20%	<u> </u>	<u>High 20%</u>
Number of farms	127	25	26	26
Cash Farm Expense Seed and plants Fertilizer Crop chemicals Crop insurance Drying expense Storage Crop miscellaneous Consultants Feeder livestock purchase Purchased feed Veterinary Supplies Livestock leases Interest Fuel & oil Repairs Custom hire Hired labor Land rent Machinery leases	$\begin{array}{c} 82,916\\ 87,568\\ 66,880\\ 32,408\\ 614\\ 114\\ 1,804\\ 2,420\\ 1,525\\ 5,221\\ 1,825\\ 1,139\\ 79\\ 32,829\\ 32,075\\ 56,158\\ 14,144\\ 16,987\\ 85,024\\ 9,467\\ \end{array}$	$\begin{array}{c} 78,433\\ 86,187\\ 63,977\\ 36,159\\ 1,496\\ 466\\ 5,022\\ 1,781\\ 2,351\\ 5,852\\ 1,600\\ 1,012\\ 32\\ 42,061\\ 27,243\\ 64,728\\ 12,231\\ 16,968\\ 74,398\\ 11,553\\ \end{array}$	57,425 58,410 43,165 20,606 364 - 520 1,533 5,088 6,323 2,694 2,313 23 31,457 24,740 39,346 11,052 7,727 55,992 6,094	149,190 145,038 124,116 58,451 189 46 1,947 5,634 98 2,881 1,494 639 317 36,346 54,814 81,029 21,345 40,219 156,340 17,595
Building leases Real estate taxes Farm insurance Utilities Marketing Dues & professional fees Purchase of resale items Miscellaneous Total cash expense Net cash farm income	9,407 989 4,688 10,680 6,996 319 1,703 199 6,990 563,760 122,869	708 3,730 12,705 7,741 373 2,940 6,454 568,200 43,375	346 4,228 7,904 4,638 115 954 - 7,125 400,182 81,743	3,274 7,488 16,916 12,033 117 2,416 973 12,417 953,361 284,885
Inventory Changes Prepaids and supplies Accounts receivable Hedging accounts Other current assets Crops and feed Market livestock Breeding livestock Other assets Accounts payable Accrued interest Total inventory change Net operating profit	3,334 22,595 3,852 -123 37,323 -1,252 -1,497 3,775 -2,964 -1,834 63,209 186,078	-4,242 22,760 -980 0 -15,257 -1,849 -3,692 3,063 -7,424 -2,484 -10,104 33,271	3,175 3,483 -375 110 19,744 5,276 -3,638 3,343 -5,688 -194 25,236 106,979	-358 65,775 20,766 -949 138,889 -445 1,747 10,905 -654 -4,514 231,161 516,046
Depreciation Machinery and equipment Titled vehicles Buildings and improvements Total depreciation	-55,870 -5,384 -4,591 -65,845	-53,435 -5,528 -2,467 -61,431	-32,840 -3,839 -1,083 -37,762	-111,234 -7,108 -12,342 -130,684
Net farm income from operations Gain or loss on capital sales	120,233 1,285	-28,160 -5,013	69,217 2,226	385,362 8,643
Net farm income	121,518	-33,173	71,443	394,005

Inventory Changes North Dakota Farm Business Management Education Program Region 2 - North Central North Dakota, 2018 (Farms Sorted By Net Farm Income)

	Avg. Of <u>All Farms</u>	Low 20%	<u> </u>	<u> </u>
Number of farms	127	25	26	26
Net cash farm income	122,869	43,375	81,743	284,885
Crops and Feed Ending inventory Beginning inventory Inventory change	459,596 422,273 37,323	381,982 397,239 -15,257	256,663 236,919 19,744	1,071,336 932,447 138,889
Market Livestock Ending inventory Beginning inventory Inventory change	27,537 28,788 -1,252	27,060 28,909 -1,849	39,753 34,477 5,276	15,834 16,279 -445
Accts Receivable Ending inventory Beginning inventory Inventory change	35,540 12,946 22,595	31,824 9,064 22,760	20,338 16,855 3,483	86,054 20,279 65,775
Prepaid Expenses and Supplies Ending inventory Beginning inventory Inventory change	51,315 47,981 3,334	11,627 15,869 -4,242	19,846 16,671 3,175	148,234 148,592 -358
Hedging Activities Ending inventory Withdrawals Beginning inventory Deposits Gain or loss	4,843 3,809 2,932 1,869 3,852	420 17 843 573 -980	515 - 506 385 -375	21,472 18,475 11,319 7,862 20,766
Other Current Assets Ending inventory Beginning inventory Inventory change	1,420 1,543 -123	0 0	710 601 110	4,757 5,706 -949
Breeding Livestock Ending inventory Capital sales Beginning inventory Capital purchases Depreciation, capital adjust	70,428 824 66,931 5,818 -1,497	75,940 1,150 74,700 6,082 -3,692	92,756 1,559 85,587 12,366 -3,638	45,245 - 42,325 1,173 1,747
Other Capital Assets Ending inventory Capital sales Beginning inventory Capital purchases Depreciation, capital adjust	70,425 826 66,030 1,447 3,775	78,165 381 73,757 1,725 3,063	58,957 585 55,836 364 3,343	113,103 1,965 102,551 1,612 10,905
Accounts Payable Beginning inventory Ending inventory Inventory change	18,409 21,373 -2,964	29,124 36,548 -7,424	5,748 11,436 -5,688	17,381 18,035 -654
Accrued Interest Beginning inventory Ending inventory Inventory change	15,000 16,833 -1,834	22,067 24,551 -2,484	16,531 16,725 -194	17,252 21,767 -4,514
Total inventory change	63,209	-10,104	25,236	231,161
Net operating profit	186,078	33,271	106,979	516,046

Depreciation North Dakota Farm Business Management Education Program Region 2 - North Central North Dakota, 2018 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
			40 0070	
Number of farms	127	25	26	26
Net operating profit	186,078	33,271	106,979	516,046
Machinery and Equipment	000 004	F70 000	000.040	4 004 004
Ending inventory	638,624	572,280	383,948	1,221,981
Capital sales	34,187	21,957	10,113	87,629
Beginning inventory	618,268	580,091	386,461	1,132,107
Capital purchases	110,413	67,583	40,439	288,736
Depreciation, capital adjust.	-55,870	-53,435	-32,840	-111,234
Titled Vehicles				
Ending inventory	54,023	64,573	34,358	92,409
Capital sales	2,091	552	-	3,591
Beginning inventory	52,828	59,607	35,501	88,134
Capital purchases	8,671	11,047	2,696	14,975
Depreciation, capital adjust.	-5,384	-5,528	-3,839	-7,108
Buildings and Improvements				
Ending inventory	144,592	153,555	62,229	337,423
Capital sales	1,154	, -	-	5,635
Beginning inventory	134,392	146,951	59,294	314,496
Capital purchases	15,945	9,071	4,018	40,904
Depreciation, capital adjust.	-4,591	-2,467	-1,083	-12,342
Total depreciation, capital adj.	-65,845	-61,431	-37,762	-130,684
Net farm income from operations	120,233	-28,160	69,217	385,362
Gain or loss on capital sales	1,285	-5,013	2,226	8,643
Net farm income	121,518	-33,173	71,443	394,005

Profitability Measures North Dakota Farm Business Management Education Program Region 2 - North Central North Dakota, 2018 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	127	25	26	26
Profitability (assets valued at cost)				
Net farm income from operations	120,233	-28,160	69,217	385,362
Rate of return on assets	4.9 %	-1.9 %	3.9 %	8.7 %
Rate of return on equity	5.2 %	-10.4 %	3.3 %	10.5 %
Operating profit margin	13.1 %	-5.5 %	11.4 %	22.3 %
Asset turnover rate	37.2 %	34.7 %	34.3 %	38.8 %
Farm interest expense	34,662	44,545	31,651	40,860
Value of operator lbr and mgmt.	57,568	50,066	44,038	97,294
Return on farm assets	97,327	-33,680	56,831	328,928
Average farm assets	2,000,489	1,751,160	1,453,884	3,798,106
Return on farm equity	62,665	-78,225	25,179	288,068
Average farm equity	1,209,737	754,406	755,735	2,731,809
Value of farm production	744,491	607,420	498,558	1,471,852

Liquidity & Repayment Capacity Measures North Dakota Farm Business Management Education Program Region 2 - North Central North Dakota, 2018 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	127	25	26	26
Liquidity				
Current ratio	1.71	1.02	1.43	2.41
Working capital	265,608	11,367	120,980	856,976
Working capital to gross inc	35.3 %	1.8 %	23.7 %	58.1 %
Current assets	642,291	483,611	399,980	1,465,279
Current liabilities	376,682	472,244	279,000	608,303
Gross revenues (accrual)	751,436	615,622	509,969	1,475,803
Repayment capacity				
Net farm income from operations	120,233	-28,160	69,217	385,362
Depreciation	65,845	61,431	37,762	130,684
Personal income	35,930	41,714	28,257	55,645
Family living/owner withdrawals	-69,049	-65,606	-58,137	-104,478
Cash discrepancy	-177	-146	-456	37
Payments on personal debt	-4,514	-6,858	-4,552	-3,813
Income taxes paid	-14,061	-4,361	-5,292	-40,832
Interest on term debt	21,945	31,553	24,391	22,104
Capital debt repayment capacity	156,151	29,567	91,190	444,709
Scheduled term debt payments	-83,664	-98,375	-72,530	-120,704
Capital debt repayment margin	72,487	-68,809	18,660	324,006
Cash replacement allowance	-32,031	-32,647	-13,099	-65,446
Replacement margin	40,457	-101,456	5,561	258,560
Term debt coverage ratio	1.87	0.30	1.26	3.68
Replacement coverage ratio	1.35	0.23	1.06	2.39

Balance Sheet at Cost Values North Dakota Farm Business Management Education Program Region 2 - North Central North Dakota, 2018 (Farms Sorted By Net Farm Income)

	Avg. Of <u>All Farms</u>	Low 20%	40 - 60%	High 20%
Number of farms	127	25	26	26
Assets Current Farm Assets				
Cash and checking balance Prepaid expenses & supplies	62,040 51,315	30,699 11,627	62,155 19,846	117,593 148,234
Growing crops Accounts receivable	782 35,540	- 31,824	63 20,338	3,208 86,054
Hedging accounts	4,843	420	515	21,472
Crops held for sale or feed Market livestock held for sale	459,596 27,537	381,982 27,060	256,663 39,753	1,071,336 15,834
Other current assets Total current farm assets	637 642,291	0 483,611	647 399,980	1,550 1,465,279
Intermediate Farm Assets				
Breeding livestock Machinery and equipment	70,428 638,624	75,940 572,280	92,756 383,948	45,245 1,221,981
Titled vehicles Other intermediate assets	54,023 44,556	64,573 45,660	34,358 45,616	92,409 52,894
Total intermediate farm assets	807,631	758,454	556,677	1,412,528
Long Term Farm Assets Farm land	453,405	332,544	489,803	738,753
Buildings and improvements	144,592	153,555	62,229	337,423
Other long-term assets Total long-term farm assets	25,870 623,866	32,504 518,603	13,341 565,373	60,210 1,136,386
Total Farm Assets	2,073,788	1,760,668	1,522,030	4,014,193
Total Nonfarm Assets Total Assets	348,945 2,422,733	311,853 2,072,521	214,116 1,736,147	670,201 4,684,394
Liabilities				
Current Farm Liabilities Accrued interest	16,833	24,551	16,725	21,767
Accounts payable	21,373	36,548	11,436	18,035
Current notes Principal due on term debt	274,011 64,465	345,294 65,851	200,395 50,443	471,328 97,173
Total current farm liabilities	376,682	472,244	279,000	608,303
Total intermediate farm liabs Total long term farm liabilities	186,072 267,884	216,774 337,682	139,487 325,767	274,389 268,339
Total farm liabilities	830,639	1,026,700	744,254	1,151,031
Total nonfarm liabilities Total liabilities	75,715 906,354	96,150 1,122,850	86,750 831,004	74,982 1,226,013
Net worth (farm and nonfarm)	1,516,380	949,671	905,143	3,458,381
Net worth change Percent net worth change	85,350 6 %	-30,266 -3 %	49,343 6 %	302,742 10 %
Ratio Analysis Current farm liabilities / assets	59 %	98 %	70 %	42 %
Intermediate farm liab. / assets	23 %	29 %	25 %	19 %
Long term farm liab. / assets Total debt to asset ratio	43 % 37 %	65 % 54 %	58 % 48 %	24 % 26 %

Statement Of Cash Flows North Dakota Farm Business Management Education Program Region 2 - North Central North Dakota, 2018 (Farms Sorted By Net Farm Income)

	Avg. Of			
	All Farms	Low 20%	40 - 60%	High 20%
Number of farms	127	25	26	26
Beginning cash (farm & nonfarm)	57,097	38,470	34,743	106,636
Cash Provided By Operating Activities				
Gross cash farm income	686,629	611,576	481,925	1,238,246
Total cash farm expense	-563,760	-568,200	-400,182	-953,361
Net cash from hedging transactions	1,940	-557	-385	10,614
Cash provided by operating	124,809	42,819	81,358	295,499
Cash Provided By Investing Activities				
Sale of breeding livestock	1,253	1,150	3,686	-
Sale of machinery & equipment	34,339	18,785	10,212	91,035
Sale of titled vehicles	1,927	722	-	2,858
Sale of farm land	1,947	7,200	-	1,923
Sale of farm buildings	1,154	-	-	5,635
Sale of other farm assets	1,820	771	585	6,380
Sale of nonfarm assets	3,721	5,346	2,979	5,777
Purchase of breeding livestock	-5,818	-6,082	-12,366	-1,173
Purchase of machinery & equip.	-110,413	-67,583	-40,439	-288,736
Purchase of titled vehicles	-8,671	-11,047	-2,696	-14,975
Purchase of farm land	-30,006	-24,623	-63,665	-43,356
Purchase of farm buildings	-15,945	-9,071	-4,018	-40,904
Purchase of other farm assets	-1,447	-1,725	-364	-1,612
Purchase of nonfarm assets	-20,191	-8,832	-35,848	-36,593
Cash provided by investing	-146,331	-94,989	-141,934	-313,740
Cash Provided By Financing Activities				
Moneyborrowed	638,615	662,839	564,095	1,077,804
Principal payments	-558,871	-610,490	-452,346	-911,816
Personal income	35,930	41,714	28,257	55,645
Family living/owner withdrawals	-69,049	-65,606	-58,137	-104,478
Income and social security tax	-14,189	-5,705	-6,941	-37,612
Capital contributions	147	745	-	-
Capital distributions	-745	-745	-	-
Dividends paid	-	-	-	-
Cash gifts and inheritances	12,465	40,433	17,769	1,545
Gifts given	-302	-3	-	-1,448
Other cash flows	-	-	-	-
Cash provided by financing	44,001	63,183	92,699	79,640
Net change in cash balance	22,478	11,013	32,123	61,399
Ending cash (farm & nonfarm)	79,398	49,337	66,411	168,072
Discrepancy	177	146	456	-37

Financial Standards Measures North Dakota Farm Business Management Education Program Region 2 - North Central North Dakota, 2018 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	127	25	26	26
Liquidity				
Current ratio	1.71	1.02	1.43	2.41
Working capital	265,608	11,367	120,980	856,976
Working capital to gross inc	35.3 %	1.8 %	23.7 %	58.1 %
Solvency (cost)				
Farm debt to asset ratio	40 %	58 %	49 %	29 %
Farm equity to asset ratio	60 %	42 %	51 %	71 %
Farm debt to equity ratio	0.67	1.40	0.96	0.40
Profitability (cost)				
Rate of return on farm assets	4.9 %	-1.9 %	3.9 %	8.7 %
Rate of return on farm equity	5.2 %	-10.4 %	3.3 %	10.5 %
Operating profit margin	13.1 %	-5.5 %	11.4 %	22.3 %
Net farm income	121,518	-33,173	71,443	394,005
EBITDA	220,740	77,816	138,630	556,906
Repayment Capacity				
Capital debt repayment capacity	156,151	29,567	91,190	444,709
Capital debt repayment margin	72,487	-68,809	18,660	324,006
Replacement margin	40,457	-101,456	5,561	258,560
Term debt coverage ratio	1.87	0.30	1.26	3.68
Replacement coverage ratio	1.35	0.23	1.06	2.39
Efficiency				
Asset turnover rate (cost)	37.2 %	34.7 %	34.3 %	38.8 %
Operating expense ratio	70.6 %	87.4 %	72.8 %	62.3 %
Depreciation expense ratio	8.8 %	10.0 %	7.4 %	8.9 %
Interest expense ratio	4.6 %	7.2 %	6.2 %	2.8 %
Net farm income ratio	16.2 %	-5.4 %	14.0 %	26.7 %

Crop Production and Marketing Summary North Dakota Farm Business Management Education Program Region 2 - North Central North Dakota, 2018 (Farms Sorted By Net Farm Income)

	Avg. Of			
	All Farms	Low 20%	40 - 60%	High 20%
Number of farms	127	25	26	26
Acreage Summary				
Total acres owned	814	619	642	1,346
Total crop acres	2,216	1,937	1,485	3,969
Crop acres owned	516	443	398	818
Crop acres cash rented	1,541	1,421	1,070	2,874
Crop acres share rented	160	73	18	277
Total pasture acres	337	357	316	292
Percent crop acres owned	23 %	23 %	27 %	21 %
Mach invest/crop acre cost	308	329	283	319
Average Price Received (Cash Sales	Only)			
Wheat, Spring per bushel	5.39	5.38	5.33	5.47
Soybeans per bushel	8.71	8.37	8.57	8.90
Canola per cwt	16.67	16.65	16.08	17.14
Barley per bushel	4.10	3.71	4.36	4.28
Corn per bushel	2.98	3.02	2.99	3.02
Sunflowers per cwt	16.94	-	-	-
Beans, Pinto per cwt	22.68	-	-	23.28
Peas, Field per bushel	6.32	-	-	-
Wheat, Durum per bushel	5.47	-	-	-
Flax per bushel	9.52	-	-	-
Average Yield Per Acre				
Wheat, Spring (bushel)	58.86	53.93	54.47	62.71
Soybeans (bushel)	28.78	29.65	29.60	28.29
Canola (cwt)	19.64	16.33	16.65	20.23
Corn (bushel)	116.33	124.78	-	113.98
Barley (bushel)	78.89	65.16	-	86.55
Hay, Grass (ton)	1.04	1.18		1.01
Hay, Mixed Alfalfa/Grass (ton)	1.25	1.10		0.854
Hay, Small Grain (ton)	1.92	1.58	-	2.44
Beans, Pinto (cwt)	17.56	1.00	_	17.61
Hay, Alfalfa (ton)	1.65	-	-	-
Corn Silage (ton)	14.87	-	-	-
Flax (bushel)	27.72	-	-	26.32
Wheat, Durum (bushel)	63.44	-	-	67.54
Peas, Field (bushel)	50.75	-	-	-
Sunflowers (cwt)	19.78	-	-	-

Household and Personal Expenses North Dakota Farm Business Management Education Program Region 2 - North Central North Dakota, 2018 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
				<u></u>
Number of farms	62	15	11	11
Average family size	3.0	3.0	3.3	3.3
Family Living Expenses				
Food and meals expense	8,725	9,853	9,107	9,894
Medical care	5,151	3,955	6,258	7,176
Health insurance	9,742	9,990	5,438	13,663
Cash donations	2,553	1,829	1,099	4,501
Household supplies	7,462	8,647	7,939	9,658
Clothing	2,160	2,260	2,400	3,234
Personal care	5,620	3,692	6,204	8,013
Child / Dependent care	1,017	133	1,016	320
Alimony and child support	-	-	-	-
Gifts	2,269	1,786	1,286	2,948
Education	1,066	2,110	646	1,138
Recreation	4,356	5,444	4,441	4,477
Utilities (household share)	4,652	4,106	3,649	5,796
Personal vehicle operating exp	3,858	3,611	4,027	3,612
Household real estate taxes	420	366	-	394
Dwelling rent	189	-	1,064	-
Household repairs	2,250	1,662	5,128	2,335
Personal interest	2,332	2,794	2,981	1,604
Disability / Long term care ins	346	-	-	331
Life insurance payments	3,226	3,251	824	7,435
Personal property insurance	418	351	357	995
Miscellaneous	5,033	8,657	3,665	5,509
Total cash family living expense	72,847	74,497	67,527	93,031
Family living from the farm	50	-	-	213
Total family living	72,897	74,497	67,527	93,244
Other Nonfarm Expenditures				
Income taxes	15,323	4,991	10,773	38,736
Furnishing & appliance purchases	14	57	-	-
Nonfarm vehicle purchases	4,384	2,991	43	7,700
Nonfarm real estate purchases	13,279	581	73,882	173
Other nonfarm capital purchases	-130	-	-3,273	-
Nonfarm savings & investments	10,468	24,394	2,846	7,725
Total other nonfarm expenditures	43,337	33,014	84,271	54,334
Total cash family living				
investment & nonfarm capital purch	116,184	107,511	151,798	147,365

Operator and Labor Information North Dakota Farm Business Management Education Program Region 2 - North Central North Dakota, 2018 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	127	25	26	26
Operator Information				
Average number of operators	1.1	1.1	1.0	1.4
Average age of operators	45.1	48.1	40.5	46.3
Average number of years farming	21.0	21.9	16.2	23.4
Results Per Operator				
Working capital	239,236	10,525	120,980	618,927
Total assets (cost)	2,182,178	1,919,001	1,736,147	3,383,174
Total liabilities	816,361	1,039,676	831,004	885,454
Net worth (cost)	1,365,817	879,325	905,143	2,497,719
Gross farm income	676,825	570,020	509,969	1,065,858
Total farm expense	568,530	596,094	440,752	787,541
Net farm income from operations	108,295	-26,074	69,217	278,317
Net nonfarm income	32,363	38,624	28,257	40,188
Family living & tax withdrawals	75,018	64,919	63,885	104,919
Total acres owned	732.8	573.4	642.0	972.0
Total crop acres	1,996.2	1,793.4	1,485.4	2,866.2
Crop acres owned	464.3	410.4	397.6	590.8
Crop acres cash rented	1,387.6	1,315.7	1,069.5	2,075.5
Crop acres share rented	144.2	67.3	18.2	199.8
Total pasture acres	303.4	330.3	315.8	210.9
Labor Analysis				
Number of farms	127	25	26	26
Total unpaid labor hours	2,307	2,218	2,112	2,969
Total hired labor hours	722	841	308	1,560
Total labor hours per farm	3,029	3,059	2,419	4,529
Unpaid hours per operator	2,078	2,054	2,112	2,144

Nonfarm Summary North Dakota Farm Business Management Education Program Region 2 - North Central North Dakota, 2018 (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	40 - 60%	High 20%
Number of farms	127	25	26	26
Nonfarm Income				
Personal wages & salary	20,998	26,882	22,068	22,730
Net nonfarm business income	4,487	3,991	80	14,289
Personal rental income	2,790	3,551	-	6,329
Personal interest income	274	10	98	1,111
Personal cash dividends	12	-	1	-
Tax refunds	1,347	2,361	1,328	830
Other nonfarm income	6,023	4,918	4,682	10,356
Total nonfarm income	35,930	41,714	28,257	55,645
Gifts and inheritances	12,465	40,433	17,769	1,545

Financial Summary North Dakota Farm Business Management Education Program Region 2 - North Central North Dakota, 2018 (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
Number of farms	127	7	18	26	53	21
Income Statement						
Gross cash farm income	686,629	69,123	184,349	385,087	748,997	1,362,127
Total cash farm expense	563,760	49,334	148,377	321,923	628,241	1,075,314
Net cash farm income	122,869	19,789	35,972	63,165	120,756	286,813
Inventory change	63,209	3,638	2,671	26,198	77,816	97,622
Depreciation	-65,845	-3,217	-9,776	-28,826	-71,141	-122,243
Net farm income from operations	120,233	20,210	28,868	60,536	127,430	262,191
Gain or loss on capital sales	1,285	-	429	-2,687	73	9,979
Average net farm income	121,518	20,210	29,297	57,850	127,504	272,170
Median net farm income	75,569	13,261	24,532	53,432	97,255	326,113
Profitability (cost)						
Rate of return on assets	4.9 %	3.0 %	2.6 %	4.0 %	4.8 %	6.2 %
Rate of return on equity	5.2 %	3.6 %	0.4 %	3.7 %	5.1 %	6.8 %
Operating profit margin	13.1 %	9.1 %	6.9 %	10.9 %	12.6 %	15.8 %
Asset turnover rate	37.2 %	32.9 %	37.3 %	36.9 %	37.8 %	39.1 %
Liquidity & Repayment (end of ye						
Current assets	642,291	87,346	131,475	288,544	660,598	1,286,327
Current liabilities	376,682	24,654	92,208	193,667	408,525	645,888
Current ratio	1.71	3.54	1.43	1.49	1.62	1.99
Working capital	265,608	62,691	39,267	94,877	252,073	640,439
Change in working capital	25,323	12,516	7,239	27,669	21,552	32,081
Working capital to gross inc	35.3 %	85.0 %	20.0 %	23.2 %	30.4 %	43.9 %
Term debt coverage ratio	1.87	2.56	0.97	1.49	1.75	2.38
Replacement coverage ratio	1.35	2.36	0.84	1.16	1.26	1.57
Term debt to EBITDA	1.94	2.30	3.60	2.82	2.05	1.44
Solvency (end of year at cost)						
Number of farms	127	7	18	26	53	21
Total assets	2,422,733	284,797	627,658	1,338,016	2,614,497	4,526,213
Total liabilities	906,354	111,632	347,910	640,209	994,211	1,390,529
Net worth	1,516,380	173,165	279,748	697,807	1,620,286	3,135,684
Net worth change	85,350	36,183	17,224	46,630	85,240	195,818
Farm debt to asset ratio	40 %	41 %	57 %	50 %	40 %	34 %
Total debt to asset ratio	37 %	39 %	55 %	48 %	38 %	31 %
Change in earned net worth %	6 %	26 %	7 %	7 %	6 %	7 %
Nonfarm Information						
Net nonfarm income	35,930	31,442	34,606	34,822	27,293	52,320
Farms reporting living expenses	62	2	6	16	31	6
Total family living expense	72,897	-	52,723	62,697	81,969	86,608
Crop Acres						
Total crop acres	2,216	325	663	1,359	2,526	3,914
Total crop acres owned	516	-	138	303	765	640
Total crop acres cash rented	1,541	314	459	924	1,571	3,017
Total crop acres share rented	160	11	66	132	191	257
Machinery value per crop acre	308	80	196	256	299	330

Financial Summary North Dakota Farm Business Management Education Program Region 2 - North Central North Dakota, 2018 (Farms Sorted By Age of Operator)

	Avg. Of All Farms	Less Than 31	31 - 40	41 - 50	51 - 60	Over 60
						010100
Number of farms	127	22	25	27	32	21
Income Statement						
Gross cash farm income	686,629	323,136	617,025	811,529	733,317	918,563
Total cash farm expense	563,760	260,263	512,918	692,105	580,978	750,984
Net cash farm income	122,869	62,873	104,107	119,424	152,340	167,579
Inventory change	63,209	21,952	76,181	98,262	15,422	118,738
Depreciation	-65,845	-12,662	-49,941	-68,409	-71,882	-128,002
Net farm income from operations	120,233	72,163	130,347	149,277	95,880	158,315
Gain or loss on capital sales	1,285	35	-233	1,414	995	4,677
Average net farm income	121,518	72,199	130,114	150,691	96,875	162,993
Median net farm income	75,569	55,024	75,569	85,131	65,165	97,255
Profitability (cost)						
Rate of return on assets	4.9 %	9.2 %	6.8 %	5.7 %	3.7 %	3.4 %
Rate of return on equity	5.2 %	15.8 %	8.5 %	7.0 %	2.8 %	3.4 %
Operating profit margin	13.1 %	13.9 %	15.7 %	14.9 %	10.7 %	11.2 %
Asset turnover rate	37.2 %	66.0 %	43.1 %	38.5 %	34.6 %	30.7 %
Liquidity & Repayment (end of ye	ear)					
Current assets	642,291	202,108	509,911	737,938	647,718	1,129,783
Current liabilities	376,682	110,726	313,913	469,011	386,173	596,858
Current ratio	1.71	1.83	1.62	1.57	1.68	1.89
Working capital	265,608	91,382	195,998	268,927	261,545	532,925
Change in working capital	25,323	10,797	31,937	43,888	7,306	36,251
Working capital to gross inc	35.3 %	26.7 %	28.0 %	29.4 %	35.2 %	51.0 %
Term debt coverage ratio	1.87	2.24	2.28	1.90	1.31	2.08
Replacement coverage ratio	1.35	2.02	1.65	1.43	0.94	1.37
Term debt to EBITDA	1.94	1.83	1.82	2.49	2.13	1.27
Solvency (end of year at cost)						
Number of farms	127	22	25	27	32	21
Total assets	2,422,733	662,670	1,907,708	3,016,623	2,453,022	4,070,007
Total liabilities	906,354	376,446	838,783	1,295,213	873,114	1,092,625
Networth	1,516,380	286,224	1,068,925	1,721,410	1,579,909	2,977,382
Net worth change	85,350	49,085	92,502	163,200	25,653	105,702
Farm debt to asset ratio	40 % 37 %	54 % 57 %	44 % 44 %	48 % 43 %	39 % 36 %	29 % 27 %
Total debt to asset ratio	57 % 6 %	57 % 21 %	44 % 9 %	43 % 10 %	2 %	27 % 4 %
Change in earned net worth %	0 70	21 /0	9 70	10 78	2 70	4 /0
Nonfarm Information						
Net nonfarm income	35,930	33,097	31,457	50,098	22,884	45,888
Farms reporting living expenses	62	8	12	9	18	15
Total family living expense	72,897	66,266	65,289	88,366	66,619	80,773
Crop Acres						
Total crop acres	2,216	979	2,044	2,495	2,387	3,097
Total crop acres owned	516	29	228	573	644	1,098
Total crop acres cash rented	1,541	908	1,446	1,812	1,653	1,795
Total crop acres share rented	160	43	370	110	90	204
Machinery value per crop acre	308	174	278	282	319	388

Financial Summary North Dakota Farm Business Management Education Program Region 2 - North Central North Dakota, 2018 (Farms Sorted By Farm Type)

	Avg. Of All Farms	Сгор	Beef	Crop and Beef	Other
Number of farms	127	94	9	17	7
Income Statement					
Gross cash farm income	686,629	784,386	223,179	422,240	611,844
Total cash farm expense	563,760	643,230	152,850	350,914	541,824
Net cash farm income	122,869	141,156	70,330	71,326	70,020
Inventory change	63,209	78,500	-20,183	23,713	61,009
Depreciation	-65,845	-77,234	-14,892	-34,075	-55,583
Net farm income from operations	120,233	142,423	35,255	60,964	75,446
Gain or loss on capital sales	1,285	52	142	-1,004	24,866
Average net farm income	121,518	142,475	35,396	59,960	100,312
Median net farm income	75,569	86,334	-3,683	73,213	40,827
Profitability (cost)					
Rate of return on assets	4.9 %	5.1 %	2.2 %	3.7 %	5.0 %
Rate of return on equity	5.2 %	5.5 %	1.0 %	2.9 %	6.5 %
Operating profit margin	13.1 %	13.4 %	11.5 %	11.8 %	9.3 %
Asset turnover rate	37.2 %	37.9 %	19.4 %	31.3 %	53.8 %
Liquidity & Repayment (end of year))				
Current assets	642,291	767,530	191,115	310,382	346,655
Current liabilities	376,682	430,611	79,116	261,772	314,153
Current ratio	1.71	1.78	2.42	1.19	1.10
Working capital	265,608	336,919	111,998	48,611	32,503
Change in working capital	25,323	27,401	-10,868	30,045	32,475
Working capital to gross inc	35.3 %	39.0 %	53.4 %	10.7 %	4.9 %
Term debt coverage ratio	1.87	2.02	1.36	1.17	1.45
Replacement coverage ratio	1.35	1.41	1.19	1.10	0.98
Term debt to EBITDA	1.94	1.71	4.01	3.11	3.46
Solvency (end of year at cost)					
Number of farms	127	94	9	17	7
Total assets	2,422,733	2,766,150	1,049,143	1,626,496	1,510,898
Total liabilities	906,354	969,341	391,010	787,424	1,011,938
Net worth	1,516,380	1,796,809	658,133	839,072	498,960
Net worth change	85,350	96,277	38,862	60,158	59,561
Farm debt to asset ratio	40 %	38 %	38 %	50 %	70 %
Total debt to asset ratio	37 %	35 %	37 %	48 %	67 %
Change in earned net worth %	6 %	6 %	6 %	8 %	14 %
Nonfarm Information					
Net nonfarm income	35,930	39,457	35,961	23,233	19,369
Farms reporting living expenses	62	49	3	8	2
Total family living expense	72,897	77,600	-	57,464	-
Crop Acres					
Total crop acres	2,216	2,543	728	1,365	1,810
Total crop acres owned	516	545	368	495	356
Total crop acres cash rented	1,541	1,807	355	735	1,440
Total crop acres share rented	160	190	4	135	14
Machinery value per crop acre	308	316	275	242	291

EXPLANATORY NOTES FOR CROPS TABLES

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

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

Market Facilitation Payments, a 2018 USDA FSA program for commodities directly impacted by retaliatory tariffs, are included under "Other crop income per acre." "Government payments" are ARC and PLC payments which are not associated with specific crop planting.

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 <u>All Farms</u>
Number of farms	13
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Crop insurance per acre Gross return per acre	157.38 71.67 100.00 4.21 301.44 13.41 314.84
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	$16.36 \\ 50.61 \\ 34.24 \\ 15.87 \\ 15.66 \\ 27.39 \\ 3.08 \\ 2.66 \\ 6.73 \\ 1.44 \\ 174.05 \\ 140.80 $
Overhead Expenses Hired labor Building leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	$10.72 \\ 1.14 \\ 9.84 \\ 4.64 \\ 4.43 \\ 0.42 \\ 25.29 \\ 28.34 \\ 5.41 \\ 90.22 \\ 264.27 \\ 50.58 $
Government payments Net return with govt pmts Labor & management charge Net return over Ibr & mgt	21.02 71.60 23.26 48.34
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management Net value per unit	2.43 3.69 3.21 3.53 4.21
Machinery cost per acre Est. labor hours per acre	78.74 1.29

Barley on Cash Rent

	Avg. Of <u>All Farms</u>
Number of farms	23
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	$287.61 \\ 80.36 \\ 100.00 \\ 4.14 \\ 332.57 \\ 6.89 \\ 0.25 \\ 339.72$
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	$\begin{array}{c} 16.33\\ 53.21\\ 34.56\\ 14.57\\ 15.26\\ 23.54\\ 1.70\\ 52.21\\ 0.17\\ 7.10\\ 0.66\\ 219.31\\ 120.41\end{array}$
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	$\begin{array}{c} 1.94 \\ 10.39 \\ 1.63 \\ 0.42 \\ 3.86 \\ 3.43 \\ 0.41 \\ 2.46 \\ 42.87 \\ 4.20 \\ 71.60 \\ 290.91 \\ 48.81 \end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over Ibr & mgt	14.41 63.22 25.61 37.61
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	2.73 3.62 3.35 3.67
Net value per unit Machinery cost per acre Est. labor hours per acre	4.14 86.89 1.15

Beans, Pinto on Cash Rent

	Avg. Of <u>All Farms</u>
Number of farms	7
Acres Yield per acre (cwt.) Operators share of yield % Value per cwt. Total product return per acre Crop insurance per acre Gross return per acre	440.18 17.50 100.00 21.81 381.66 10.85 392.51
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Land rent Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	52.30 46.70 67.78 27.20 18.05 22.53 2.22 56.10 8.30 0.83 302.02 90.49
Overhead Expenses Custom hire Hired labor Machinery leases Building leases Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	$\begin{array}{c} 0.06 \\ 13.00 \\ 3.55 \\ 1.12 \\ 4.55 \\ 3.92 \\ 1.44 \\ 66.26 \\ 4.50 \\ 98.39 \\ 400.41 \\ -7.90 \end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over Ibr & mgt	14.77 6.88 32.65 -25.77
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management Net value per unit	17.26 22.88 21.42 23.28 21.81
Machinery cost per acre Est. labor hours per acre	111.13 1.24

Canola on Owned Land

	Avg. Of <u>All Farms</u>	<u>Low 20%</u>	<u> </u>	<u> </u>
Number of farms	30	6	6	6
Acres Yield per acre (cwt.) Operators share of yield % Value per cwt. Other product return per acre	163.57 18.84 100.00 15.90 0.51	206.11 16.06 100.00 15.79	142.81 19.39 100.00 15.29	183.87 22.88 100.00 16.17
Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	300.16 6.61 0.35 307.12	253.60 13.63 - 267.23	296.44 - 296.44	370.04 - 370.04
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	54.84 49.15 32.19 15.33 14.18 20.37 3.46 3.68 1.58 194.77 112.35	$54.02 \\ 52.36 \\ 40.30 \\ 20.90 \\ 14.17 \\ 23.41 \\ 5.58 \\ 4.65 \\ 4.16 \\ 219.55 \\ 47.68 \\ \end{cases}$	56.23 42.00 19.15 15.18 16.66 23.75 6.42 3.25 1.31 183.94 112.49	50.32 38.29 34.08 11.82 11.95 15.48 3.71 3.90 1.31 170.85 199.19
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	$\begin{array}{c} 0.60\\ 6.57\\ 1.15\\ 0.46\\ 7.94\\ 5.17\\ 3.51\\ 0.65\\ 16.46\\ 27.14\\ 2.66\\ 72.32\\ 267.08\\ 40.04 \end{array}$	0.78 13.01 1.26 9.12 6.53 4.80 0.61 20.53 30.28 3.63 90.54 310.09 -42.86	$\begin{array}{c} 0.02 \\ 11.11 \\ 0.12 \\ 0.49 \\ 5.23 \\ 4.05 \\ 2.39 \\ 0.97 \\ 12.71 \\ 29.16 \\ 2.01 \\ 68.25 \\ 252.19 \\ 44.24 \end{array}$	$\begin{array}{c} 0.92\\ 2.62\\ 1.80\\ 1.27\\ 10.67\\ 5.67\\ 4.04\\ 0.20\\ 10.62\\ 23.13\\ 1.90\\ 62.84\\ 233.69\\ 136.35\end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	20.96 61.00 23.49 37.50	14.78 -28.08 20.91 -48.99	18.59 62.83 20.17 42.66	26.76 163.11 30.04 133.07
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	10.34 14.18 12.67 13.91	13.67 19.31 17.54 18.85	9.49 13.01 12.05 13.09	7.47 10.21 9.04 10.36
Net value per unit Machinery cost per acre Est. labor hours per acre	15.90 66.89 1.28	15.79 73.45 1.35	15.29 75.30 1.27	16.17 56.82 1.29

Canola on Cash Rent

	Avg. Of <u>All Farms</u>	Low 20%	<u>40 - 60%</u>	<u> </u>
Number of farms	40	8	8	8
Acres Yield per acre (cwt.) Operators share of yield % Value per cwt. Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	443.04 19.89 100.00 15.82 314.64 5.79 0.62 321.05	483.44 16.27 100.00 15.17 246.92 7.24 - 254.16	688.32 20.23 100.00 16.37 331.28 1.13 332.41	299.77 24.21 100.00 16.09 389.60 0.46 - 390.05
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	$54.66 \\ 58.12 \\ 30.91 \\ 16.45 \\ 13.25 \\ 23.25 \\ 2.90 \\ 52.38 \\ 4.99 \\ 1.39 \\ 258.29 \\ 62.76$	61.40 57.96 29.49 19.63 13.29 23.41 5.79 49.50 7.84 3.32 271.63 -17.47	53.2963.9829.9117.6313.9221.441.2551.964.840.78259.0173.40	$51.79 \\ 43.06 \\ 30.77 \\ 11.67 \\ 12.84 \\ 24.08 \\ 2.82 \\ 50.84 \\ 4.75 \\ 0.03 \\ 232.65 \\ 157.40 \\ \end{cases}$
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	$\begin{array}{c} 1.65\\ 6.30\\ 3.51\\ 0.77\\ 4.12\\ 2.55\\ 0.70\\ 3.51\\ 27.63\\ 2.74\\ 53.48\\ 311.78\\ 9.28\end{array}$	$\begin{array}{c} 0.76 \\ 7.77 \\ 2.21 \\ 0.55 \\ 3.81 \\ 2.56 \\ 1.50 \\ 4.66 \\ 26.76 \\ 3.59 \\ 54.17 \\ 325.80 \\ -71.63 \end{array}$	3.72 5.75 4.23 2.00 4.16 2.47 0.44 4.93 27.40 2.95 58.06 317.07 15.34	$\begin{array}{c} 1.18\\ 6.27\\ 6.39\\ 0.15\\ 3.42\\ 2.58\\ 0.21\\ 3.33\\ 23.31\\ 2.01\\ 48.85\\ 281.50\\ 108.55\end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	17.31 26.58 24.14 2.44	14.41 -57.22 19.40 -76.62	16.11 31.45 26.12 5.33	20.65 129.20 26.39 102.81
Cost of Production Total direct expense per cwt. Total dir & ovhd exp per cwt. Less govt & other income With labor & management	12.99 15.68 14.48 15.70	16.69 20.02 18.69 19.88	12.80 15.67 14.82 16.11	9.61 11.63 10.76 11.85
Net value per unit Machinery cost per acre Est. labor hours per acre	15.82 74.32 1.18	15.17 76.36 1.03	16.37 75.44 1.30	16.09 72.36 1.31

Corn on Owned Land

	Avg. Of <u>All Farms</u>
Number of farms	16
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Hedging gains/losses per acre Crop insurance per acre Other crop income per acre Gross return per acre	$153.96 \\ 109.65 \\ 100.00 \\ 3.19 \\ 350.28 \\ 15.08 \\ 12.43 \\ 1.86 \\ 379.65$
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drying expense Fuel & oil Repairs Custom hire Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	$\begin{array}{c} 77.94 \\ 71.97 \\ 29.59 \\ 16.01 \\ 0.49 \\ 22.90 \\ 46.83 \\ 1.97 \\ 0.63 \\ 9.06 \\ 1.21 \\ 278.61 \\ 101.04 \end{array}$
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	$\begin{array}{c} 0.65\\ 23.98\\ 2.05\\ 1.02\\ 9.25\\ 6.54\\ 6.04\\ 0.87\\ 31.15\\ 50.31\\ 5.49\\ 137.36\\ 415.97\\ -36.32 \end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	22.22 -14.11 39.29 -53.39
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	2.54 3.79 3.32 3.68
Net value per unit Machinery cost per acre Est. labor hours per acre	3.33 119.43 2.34

Corn on Cash Rent					
	Avg. Of <u>All Farms</u>	<u> 40 - 60%</u>	<u>High 20%</u>		
Number of farms	24	5	5		
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Hedging gains/losses per acre Crop insurance per acre Other crop income per acre Gross return per acre	279.26 118.45 100.00 3.28 388.80 2.32 10.24 1.11 402.47	143.20 114.82 100.00 3.22 369.21 - 27.90 3.93 401.04	315.66 148.59 100.00 3.36 498.63 6.34 0.62 505.59		
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	$\begin{array}{c} 89.20\\ 83.58\\ 26.72\\ 14.27\\ 3.05\\ 22.78\\ 38.62\\ 1.21\\ 54.67\\ 9.58\\ 2.48\\ 346.15\\ 56.32\end{array}$	$\begin{array}{c} 81.03\\ 81.08\\ 32.58\\ 17.49\\ 0.36\\ 18.50\\ 38.99\\ 1.48\\ 56.34\\ 16.90\\ 0.23\\ 345.00\\ 56.04 \end{array}$	100.89 85.18 20.79 13.86 7.89 24.68 36.48 2.22 70.63 5.21 2.34 370.17 135.42		
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	$\begin{array}{c} 2.23\\ 16.21\\ 1.63\\ 0.68\\ 5.34\\ 4.57\\ 0.82\\ 2.91\\ 61.32\\ 4.83\\ 100.54\\ 446.69\\ -44.22\end{array}$	29.82 0.22 1.80 6.52 4.53 0.10 6.81 36.79 4.44 91.03 436.03 -34.99	$\begin{array}{c} 0.53 \\ 16.06 \\ 0.89 \\ 0.93 \\ 4.72 \\ 5.76 \\ 1.95 \\ 3.47 \\ 49.32 \\ 2.55 \\ 86.18 \\ 456.35 \\ 49.24 \end{array}$		
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	14.11 -30.12 38.18 -68.30	18.58 -16.41 38.01 -54.42	8.09 57.33 39.73 17.60		
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	2.92 3.77 3.54 3.86	3.00 3.80 3.36 3.69	2.49 3.07 2.97 3.24		
Net value per unit Machinery cost per acre Est. labor hours per acre	3.30 126.69 1.82	3.22 98.28 2.39	3.40 114.97 2.18		

Corn Silage on Owned Land

8
74.83 15.16 100.00 26.07 395.26 395.26
77.35 45.24 15.56 11.93 26.25 41.87 59.44 8.51 0.32 286.46 108.80
$\begin{array}{c} 0.90 \\ 5.86 \\ 1.37 \\ 4.86 \\ 4.39 \\ 2.32 \\ 1.62 \\ 17.15 \\ 38.25 \\ 2.37 \\ 79.10 \\ 365.57 \\ 29.70 \end{array}$
28.41 58.11 33.66 24.44
18.90 24.12 22.24 24.46 26.07 167.97 2.70

CRP on Owned Land

	Avg. Of _ All Farms
Number of farms	11
Acres	98.29
Yield per acre (\$)	49.90
Operators share of yield %	100.00
Value per \$	1.00
Total product return per acre	49.90
Gross return per acre	49.90
Direct Expenses	
Crop chemicals	0.24
Fuel & oil	0.45
Repairs	0.97
Miscellaneous	0.15
Total direct expenses per acre	1.80
Return over direct exp per acre	48.10
Overhead Expenses	
RE & pers. property taxes	7.27
Interest	9.18
Mach & bldg depreciation	0.95
Miscellaneous	0.72
Total overhead expenses per acre	18.12
Total dir & ovhd expenses per acre	19.92
Net return per acre	29.98

Hay, Alfalfa 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 Direct Expenses	105.99 1.69 100.00 70.06 118.20 6.15 124.35
Fertilizer Fuel & oil Repairs Custom hire Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	3.39 9.62 12.42 0.49 2.34 0.48 28.73 95.62
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	$\begin{array}{c} 0.36\\ 3.27\\ 0.47\\ 5.75\\ 3.03\\ 3.13\\ 1.05\\ 8.77\\ 16.32\\ 2.17\\ 44.31\\ 73.04\\ 51.31\end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	51.31 15.21 36.09
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management Net value per unit Machinery cost per acre Est. labor hours per acre	17.03 43.29 39.65 48.67 70.06 41.23 1.19

Hay, Grass on Owned Land

	Avg. Of All Farms
Number of farms	8
Acres	189.02
Yield per acre (ton)	1.13
Operators share of yield %	100.00
Value per ton	38.78
Total product return per acre	43.93
Other crop income per acre	0.50
Gross return per acre	44.43
Direct Expenses	
Fuel & oil	6.98
Repairs	14.75
Operating interest	1.12
Total direct expenses per acre	22.85
Return over direct exp per acre	21.58
Overhead Expenses	
Hired labor	0.85
RE & pers. property taxes	3.14
Farm insurance	1.04
Utilities	1.30
Dues & professional fees	0.48
Interest	7.62
Mach & bldg depreciation	12.30
Miscellaneous	1.70
Total overhead expenses per acre	28.43
Total dir & ovhd expenses per acre	51.28
Net return per acre	-6.85
Government payments	-
Net return with govt pmts	-6.85
Labor & management charge	12.60
Net return over lbr & mgt	-19.44
Cost of Production	
Total direct expense per ton	20.18
Total dir & ovhd exp per ton	45.27
Less govt & other income	44.83
With labor & management	55.95
Net value per unit	38.78
Machinery cost per acre	35.18
Est. labor hours per acre	1.07

Hay, Grass on Cash Rent

	Avg. Of All Farms
Number of farms	12
Acres	210.76
Yield per acre (ton)	0.94
Operators share of yield %	100.00
Value per ton	41.85
Total product return per acre	39.22
Other crop income per acre	3.09
Gross return per acre	42.31
Direct Expenses	
Fuel & oil	7.91
Repairs	12.39
Land rent	20.63
Operating interest	2.35
Miscellaneous	0.86
Total direct expenses per acre	44.14
Return over direct exp per acre	-1.83
Overhead Expenses	
Custom hire	0.34
Hired labor	1.43
Machinery leases	0.94
Farm insurance	1.63
Utilities	1.09
Dues & professional fees	0.45
Interest Mark 8 bldg damma sisting	1.11
Mach & bldg depreciation	15.89
Miscellaneous	0.81
Total overhead expenses per acre	23.68
Total dir & ovhd expenses per acre	67.82
Net return per acre	-25.51
Government payments	-
Net return with govt pmts	-25.51
Labor & management charge	12.64
Net return over lbr & mgt	-38.15
Cost of Production	
Total direct expense per ton	47.10
Total dir & ovhd exp per ton	72.37
Less govt & other income	69.07
With labor & management	82.55
Net value per unit	41.85
Machinery cost per acre	37.95
Est. labor hours per acre	0.93

Hay, Mixed Alfalfa/Grass on Owned Land

	Avg. Of All Farms	
Number of farms	7	
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Gross return per acre Direct Expenses	205.73 1.47 100.00 44.78 65.69 65.69	
Fertilizer Fuel & oil Repairs Custom hire Operating interest Total direct expenses per acre Return over direct exp per acre	0.90 8.50 13.30 6.80 2.00 31.50 34.19	
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	3.20 0.48 0.63 4.56 4.25 2.14 1.26 16.75 12.95 0.05 46.27 77.77 -12.09	
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	- -12.09 11.50 -23.59	
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management Net value per unit Machinery cost per acre Est. labor hours per acre	21.47 53.01 53.01 60.85 44.78 45.76 0.82	

Hay, Small Grain on Cash Rent

	Avg. Of <u>All Farms</u>
Number of farms	7
Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Gross return per acre	56.24 1.97 100.00 55.77 109.70 109.70
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	18.15 22.84 10.85 0.40 8.15 14.24 3.56 38.53 2.02 0.24 119.00 -9.30
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	$\begin{array}{c} 1.48\\ 2.59\\ 1.73\\ 3.35\\ 3.53\\ 2.24\\ 2.81\\ 8.52\\ 2.98\\ 29.23\\ 148.23\\ -38.53\end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	8.60 -29.93 17.83 -47.77
Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management Net value per unit Machinery cost per acre Est. labor hours per acre	60.50 75.37 70.99 80.06 55.77 40.10 1.45

Pasture on Owned Land

	Avg. Of All Farms
Number of farms	16
Acres	715.55
Yield per acre (aum)	0.89
Operators share of yield %	100.00
Value per aum	15.70
Other product return per acre	0.05
Total product return per acre	13.98
Other crop income per acre	0.92
Gross return per acre	14.90
Direct Expenses	
Fertilizer	0.30
Repairs	0.67
Miscellaneous	0.73
Total direct expenses per acre	1.70
Return over direct exp per acre	13.20
Overhead Expenses	
RE & pers. property taxes	2.82
Interest	4.67
Mach & bldg depreciation	0.56
Miscellaneous	0.60
Total overhead expenses per acre	8.65
Total dir & ovhd expenses per acre	10.35
Net return per acre	4.55

Pasture on Cash Rent

	Avg. Of All Farms
Number of farms	23
Acres Yield per acre (aum) Operators share of yield % Value per aum Other product return per acre Total product return per acre Other crop income per acre Gross return per acre	565.34 0.89 100.00 15.89 0.11 14.24 0.54 14.78
Direct Expenses Crop chemicals Fuel & oil Repairs Land rent Miscellaneous Total direct expenses per acre Return over direct exp per acre	0.37 0.42 0.70 15.59 0.16 17.25 -2.47
Overhead Expenses Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	0.68 0.69 1.37 18.61 -3.84

Prevented planting on Cash Rent

	Avg. Of All Farms
Number of farms	6
Acres Yield per acre (\$) Operators share of yield % Value per \$ Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	115.23 - - - 64.82 0.85 65.68
Direct Expenses Crop chemicals Crop insurance Fuel & oil Repairs Land rent Operating interest Total direct expenses per acre Return over direct exp per acre	5.90 11.56 5.32 8.03 38.01 1.58 70.38 -4.71
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	$\begin{array}{c} 0.10\\ 0.90\\ 3.12\\ 1.22\\ 0.91\\ 0.09\\ 0.63\\ 9.92\\ 0.76\\ 17.64\\ 88.02\\ -22.35\end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	14.54 -7.81 10.25 -18.06

Soybeans on Owned Land

	Avg. Of <u>All Farms</u>	Low 20%	40 - 60%	<u> </u>
Number of farms	43	8	8	9
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Hedging gains/losses per acre	278.11 28.08 100.00 8.16 229.06 0.81	294.71 21.10 100.00 8.41 177.43	280.53 22.59 100.00 8.00 180.66	300.98 36.45 100.00 8.39 305.80
Crop insurance per acre Other crop income per acre Gross return per acre	41.17 40.71 311.74	74.27 22.08 273.77	46.35 37.54 264.56	36.27 58.38 400.45
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	$\begin{array}{c} 65.34\\ 12.57\\ 26.74\\ 17.22\\ 12.93\\ 21.46\\ 2.78\\ 0.80\\ 4.36\\ 0.96\\ 165.16\\ 146.58\end{array}$	69.74 16.13 28.32 22.72 13.58 31.39 5.23 3.21 8.01 0.58 198.92 74.85	$\begin{array}{c} 67.77\\ 9.85\\ 25.36\\ 14.40\\ 11.89\\ 18.14\\ 2.03\\ 0.05\\ 4.36\\ 1.18\\ 155.03\\ 109.53\end{array}$	$\begin{array}{c} 60.15\\ 9.34\\ 27.95\\ 15.38\\ 15.01\\ 19.53\\ 0.32\\ 0.17\\ 3.28\\ 1.52\\ 152.66\\ 247.80\end{array}$
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	$\begin{array}{c} 0.92\\ 9.29\\ 2.39\\ 0.40\\ 8.60\\ 5.37\\ 3.33\\ 0.74\\ 22.04\\ 34.02\\ 2.79\\ 89.87\\ 255.04\\ 56.71\end{array}$	1.52 11.62 8.84 7.73 5.20 3.24 1.05 44.33 28.39 1.93 113.86 312.79 -39.02	$\begin{array}{c} 0.98\\ 7.45\\ 1.65\\ 0.90\\ 8.16\\ 4.08\\ 1.98\\ 0.55\\ 10.93\\ 24.70\\ 0.98\\ 62.38\\ 217.41\\ 47.15\end{array}$	$\begin{array}{c} 0.11\\ 9.11\\ 0.33\\ 0.68\\ 9.73\\ 5.20\\ 3.56\\ 0.54\\ 19.24\\ 42.53\\ 4.91\\ 95.94\\ 248.60\\ 151.86\end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	19.92 76.62 23.11 53.51	35.24 -3.78 23.80 -27.58	13.68 60.84 19.02 41.82	15.61 167.47 24.10 143.37
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	5.88 9.08 5.43 6.25	9.43 14.83 8.59 9.72	6.86 9.62 5.30 6.15	4.19 6.82 3.80 4.46
Net value per unit Machinery cost per acre Est. labor hours per acre	8.19 74.62 1.25	8.41 92.71 1.17	8.00 61.09 1.14	8.39 77.53 1.10

Soybeans on Cash Rent

	Avg. Of All Farms	Low 20%	<u>40 - 60%</u>	<u>High 20%</u>
Number of farms	65	13	13	13
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Hedging gains/losses per acre Crop insurance per acre Other crop income per acre Gross return per acre	$\begin{array}{c} 641.96\\ 28.44\\ 100.00\\ 8.14\\ 231.41\\ 3.00\\ 40.43\\ 45.22\\ 320.06\end{array}$	622.67 23.40 100.00 8.30 194.23 53.09 33.37 280.70	928.86 30.31 100.00 8.17 247.65 	409.81 32.65 100.00 8.04 262.53 23.00 58.81 54.75 399.08
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	66.13 11.88 28.24 17.53 13.17 23.50 2.02 53.82 2.77 5.96 1.35 226.37 93.69	69.20 15.63 32.08 19.43 13.46 31.28 4.05 51.41 0.28 8.34 0.78 245.94 34.75	65.37 12.17 31.14 15.86 12.33 18.51 1.87 51.23 0.06 6.83 1.55 216.93 100.97	$\begin{array}{c} 66.85\\ 11.67\\ 25.49\\ 14.96\\ 12.56\\ 21.21\\ 0.38\\ 54.67\\ 0.11\\ 1.24\\ 3.92\\ 213.05\\ 186.03 \end{array}$
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	$\begin{array}{c} 0.93 \\ 7.32 \\ 2.72 \\ 0.33 \\ 4.10 \\ 3.01 \\ 0.89 \\ 2.66 \\ 30.92 \\ 2.30 \\ 55.19 \\ 281.55 \\ 38.50 \end{array}$	$\begin{array}{c} 1.99\\ 6.98\\ 5.27\\ 0.26\\ 4.73\\ 3.29\\ 1.11\\ 3.14\\ 31.88\\ 3.73\\ 62.39\\ 308.33\\ -27.63\end{array}$	$\begin{array}{c} 0.53\\ 9.98\\ 1.50\\ 0.17\\ 3.45\\ 2.60\\ 0.79\\ 2.51\\ 35.69\\ 2.21\\ 59.43\\ 276.36\\ 41.54\end{array}$	$\begin{array}{c} 0.74\\ 3.45\\ 1.91\\ 0.62\\ 3.95\\ 2.60\\ 1.01\\ 0.90\\ 29.44\\ 1.40\\ 46.03\\ 259.08\\ 140.00\\ \end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	15.03 53.54 24.20 29.34	23.16 -4.47 24.01 -28.49	14.99 56.53 23.06 33.47	17.06 157.06 30.38 126.68
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	7.96 9.90 6.25 7.11	10.51 13.17 8.49 9.52	7.16 9.12 6.31 7.07	6.52 7.93 3.23 4.16
Net value per unit Machinery cost per acre Est. labor hours per acre	8.24 77.02 1.09	8.30 89.48 1.14	8.17 70.97 0.97	8.74 65.20 1.12

Soybeans on Share Rent

	Avg. Of <u>All Farms</u>
Number of farms	14
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Hedging gains/losses per acre Crop insurance per acre Other crop income per acre Gross return per acre	330.97 31.99 71.96 8.13 187.07 0.59 22.87 37.91 248.45
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drying expense Fuel & oil Repairs Custom hire Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	61.82 8.77 27.58 13.85 0.04 11.84 20.16 2.32 0.16 3.75 0.78 151.08 97.38
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	$\begin{array}{c} 1.03\\ 3.62\\ 4.31\\ 0.75\\ 4.10\\ 3.38\\ 0.37\\ 2.43\\ 34.49\\ 2.80\\ 57.27\\ 208.34\\ 40.11\end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	15.50 55.61 23.07 32.54
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	6.56 9.05 5.71 6.71
Net value per unit Machinery cost per acre Est. labor hours per acre	8.15 74.83 0.97

Wheat, Spring on Owned Land

	Avg. Of <u>All Farms</u>	Low 20%	40 - 60%	<u> </u>
Number of farms	46	9	9	10
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	$\begin{array}{c} 298.47\\ 59.63\\ 100.00\\ 5.26\\ 0.28\\ 313.70\\ 0.37\\ 5.05\\ 11.35\\ 330.48 \end{array}$	164.02 50.36 100.00 5.12 0.21 258.19 14.19 11.39 283.77	354.94 59.94 100.00 5.15 308.99 0.63 11.22 9.68 330.52	291.76 65.21 100.00 5.25 0.98 343.55 1.06 15.59 360.20
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	$\begin{array}{c} 17.75\\ 51.10\\ 34.97\\ 18.99\\ 12.63\\ 21.22\\ 2.99\\ 0.53\\ 4.23\\ 1.44\\ 165.84\\ 164.63\end{array}$	$18.16 \\ 55.20 \\ 37.75 \\ 25.09 \\ 12.97 \\ 31.93 \\ 3.66 \\ 4.89 \\ 6.86 \\ 0.54 \\ 197.05 \\ 86.72 \\ \end{array}$	18.38 54.38 33.30 21.89 15.40 18.30 2.22 1.91 1.73 167.52 163.00	15.27 46.08 32.44 16.09 11.23 15.43 2.93 2.73 0.79 142.99 217.21
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	$\begin{array}{c} 1.02\\ 6.53\\ 2.19\\ 0.42\\ 8.08\\ 5.12\\ 2.99\\ 0.55\\ 18.73\\ 32.91\\ 2.33\\ 80.87\\ 246.72\\ 83.76\end{array}$	$\begin{array}{c} 2.02\\ 2.35\\ 12.72\\ 0.31\\ 8.49\\ 5.16\\ 3.59\\ 0.91\\ 47.64\\ 27.55\\ 2.34\\ 113.07\\ 310.13\\ -26.35\end{array}$	$\begin{array}{c} 0.74 \\ 11.35 \\ 0.37 \\ 0.57 \\ 8.49 \\ 6.43 \\ 3.85 \\ 0.67 \\ 13.87 \\ 38.01 \\ 2.72 \\ 87.07 \\ 254.59 \\ 75.93 \end{array}$	$\begin{array}{c} 0.37\\ 1.97\\ 1.13\\ 0.67\\ 8.39\\ 3.99\\ 2.71\\ 0.35\\ 10.18\\ 31.92\\ 2.00\\ 63.68\\ 206.67\\ 153.53\end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	17.88 101.64 24.13 77.51	14.11 -12.25 25.37 -37.62	19.39 95.32 26.17 69.15	22.87 176.41 25.50 150.91
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	2.78 4.14 3.55 3.96	3.91 6.16 5.37 5.87	2.79 4.25 3.56 4.00	2.19 3.17 2.55 2.94
Net value per unit Machinery cost per acre Est. labor hours per acre	5.26 73.10 1.27	5.12 96.89 1.31	5.17 71.19 1.47	5.27 64.47 1.25

Wheat, Spring on Cash Rent

	Avg. Of <u>All Farms</u>	Low 20%	<u> </u>	<u> </u>
Number of farms	66	13	13	14
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Other product return per acre	712.89 58.34 100.00 5.25 0.04	782.77 53.84 100.00 5.31	668.27 59.35 100.00 5.21	631.59 65.17 100.00 5.21
Total product return per acre Hedging gains/losses per acre Crop insurance per acre Other crop income per acre Gross return per acre	306.40 1.19 5.97 11.08 324.64	285.77 9.58 9.30 304.65	309.06 3.46 3.11 11.08 326.70	339.22 0.94 1.41 14.60 356.17
Direct Expenses Seed and plants Fertilizer Crop chemicals Crop insurance Drying expense Fuel & oil	17.65 53.95 35.74 17.65 0.14 12.57	23.49 61.07 38.92 20.75 0.54 13.39	16.33 56.38 32.57 17.51 10.18	15.01 47.78 36.79 14.15 - 11.86
Repairs Custom hire Land rent Machinery leases Operating interest	23.10 3.79 51.37 1.07 5.58	32.92 4.74 50.69 0.36 9.80	17.08 5.03 50.66 1.95	19.30 2.07 49.57 - 3.56
Miscellaneous Total direct expenses per acre Return over direct exp per acre	1.89 224.50 100.15	1.30 257.98 46.67	2.77 210.46 116.24	1.71 201.79 154.38
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	$\begin{array}{c} 0.92\\ 6.75\\ 3.28\\ 0.50\\ 3.95\\ 2.76\\ 0.91\\ 3.05\\ 27.53\\ 2.13\\ 51.78\\ 276.27\\ 48.37\end{array}$	$\begin{array}{c} 0.71 \\ 7.86 \\ 3.64 \\ 0.16 \\ 4.42 \\ 3.83 \\ 1.19 \\ 4.32 \\ 35.76 \\ 2.62 \\ 64.52 \\ 322.50 \\ -17.85 \end{array}$	$\begin{array}{c} 1.33\\ 7.89\\ 2.07\\ 1.00\\ 3.79\\ 2.42\\ 1.08\\ 2.43\\ 29.42\\ 1.62\\ 53.06\\ 263.52\\ 63.18\end{array}$	$\begin{array}{c} 1.37\\ 4.55\\ 4.14\\ 0.70\\ 3.13\\ 2.96\\ 0.71\\ 1.82\\ 17.15\\ 1.80\\ 38.33\\ 240.12\\ 116.05\end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	15.31 63.68 24.40 39.27	17.69 -0.16 22.81 -22.97	16.39 79.57 24.63 54.93	17.40 133.45 25.86 107.59
Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	3.85 4.74 4.16 4.58	4.79 5.99 5.31 5.73	3.55 4.44 3.87 4.28	3.10 3.68 3.16 3.55
Net value per unit Machinery cost per acre Est. labor hours per acre	5.27 73.72 1.15	5.31 94.71 1.14	5.27 64.59 1.15	5.22 56.30 1.03

Wheat, Spring on Share Rent

	Avg. Of <u>All Farms</u>
Number of farms	14
Acres	354.15
Yield per acre (bu.)	61.50
Operators share of yield %	72.94
Value per bu.	5.28
Other product return per acre	0.17
Total product return per acre	237.11
Hedging gains/losses per acre	0.57
Other crop income per acre	7.06
Gross return per acre	244.73
Direct Expenses	
Seed and plants	14.91
Fertilizer	51.93
Crop chemicals	36.42
Cropinsurance	13.91
Fuel & oil	12.14
Repairs	21.89
Custom hire	6.61
Operating interest	2.85
	1.22
Total direct expenses per acre	161.88
Return over direct exp per acre	82.85
Overhead Expenses	0.05
Custom hire	0.85
Hiredlabor	2.98
Machinery leases	4.90
Building leases	0.97
Farm insurance	3.93
Utilities	2.71
Dues & professional fees	0.50
Interest March & blandarmanistics	2.59
Mach & bldg depreciation	29.62
Miscellaneous	3.04
Total overhead expenses per acre	52.08
Total dir & ovhd expenses per acre Net return per acre	213.95 30.78
	50.76
Government payments	17.40
Net return with govt pmts	48.17
Labor & management charge	21.73
Net return over lbr & mgt	26.44
Cost of Production	0.04
Total direct expense per bu.	3.61
Total dir & ovhd exp per bu.	4.77
Less govt & other income	4.21
With labor & management	4.69
	5.29
Net value per unit	
Net value per unit Machinery cost per acre Est. labor hours per acre	77.01 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. AII Fa	
Number of farms		12
Beef Calves sold (lb) Transferred out (lb) Cull sales LvstGovtPayments Other income Purchased Transferred in Inventory change Gross margin	Quantity 38.28 61.72	Value 61.45 91.98 18.68 4.03 0.14 -12.44 -26.10 4.94 142.68
Direct Expenses Creep / Starter (lb.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) Screenings, Heavy (lb.) Hay (lb.) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Hired labor Operating interest Total direct expenses Return over direct expense	23.72 0.58 659.61 122.33 910.77 1.22 9.72 19.13 68.19	$\begin{array}{c} 2.66\\ 1.84\\ 8.20\\ 4.26\\ 17.65\\ 18.77\\ 0.39\\ 1.01\\ 4.35\\ 6.79\\ 3.36\\ 5.19\\ 11.45\\ 0.18\\ 2.11\\ 88.21\\ 54.47\\ \end{array}$
Overhead Expenses Hired labor Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		2.09 2.22 2.57 0.89 7.30 2.07 17.13 105.34 37.34
Labor & management charge Net return over lbr & mgt		13.34 24.01
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		88.21 105.34 116.09 129.43
Est. labor hours per unit		1.09
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.		$\begin{array}{c} 144.3\\ 94.3\\ 4.2\\ 12.8\\ 90.4\\ 85.7\\ 0.96\\ 5.0\\ 1.5\\ 590\\ 506\\ 331.10\\ 598\\ 160.51\end{array}$

Beef Cow-Calf -- Average Per Cow

		ı. Of arms
Number of farms		12
Beef Calves sold (lb) Transferred out (lb) Cull sales LvstGovtPayments Other income Purchased Transferred in Inventory change Gross margin	Quantity 214.4 345.6	Value 344.15 515.13 104.60 22.58 0.80 -69.66 -146.19 27.67 799.08
Direct Expenses Creep / Starter (lb.) Barley (bu.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) Screenings, Heavy (lb.) Hay (lb.) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Hired labor Operating interest Total direct expenses Return over direct expense	132.8 0.5 3.2 3,694.1 685.1 5,100.7 6.9 54.4 107.1 381.4	$\begin{array}{c} 14.88\\ 1.56\\ 10.29\\ 45.94\\ 23.83\\ 98.85\\ 105.10\\ 2.18\\ 5.68\\ 22.79\\ 38.03\\ 18.82\\ 29.09\\ 64.15\\ 1.03\\ 11.79\\ 494.01\\ 305.07\\ \end{array}$
Overhead Expenses Hired labor Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		11.71 12.41 14.40 40.89 11.57 95.93 589.94 209.14
Labor & management charge Net return over lbr & mgt		74.70 134.44
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		88.21 105.34 116.09 129.43
Est. labor hours per unit		6.11
Other Information Number of cows Pregnancy percentage Pregnancy loss percentage Culling percentage Calving percentage Weaning percentage Calves sold per cow Calf death loss percent Cow death loss percent Cows per FTE Average weaning weight Lb. weaned/exposed female Feed cost per cow Avg wgt/ Beef Calves sold Avg price / cwt.		$\begin{array}{c} 144.3\\ 94.3\\ 4.2\\ 12.8\\ 90.4\\ 85.7\\ 0.96\\ 5.0\\ 1.5\\ 458.0\\ 590\\ 506\\ 331.10\\ 598\\ 160.51\end{array}$

Avg. Of <u>All Farms</u> Number of farms 8 Quantity Value Beef Calves sold (lb) 68.03 98.19 Transferred out (lb) 1.90 2.85 Cull sales 27.82 LvstGovtPayments 5.49 Otherincome 0.63 Purchased -14.71 Transferred in -22.96 Inventory change 46.95 Gross margin 144.28 **Direct Expenses** Protein Vit Minerals (lb.) Creep / Starter (lb.) 37.36 3.36 4.24 0.47 2.27 12.25 Corn Silage (lb.) 141.84 Hay, Alfalfa (lb.) Hay, Grass (lb.) Oats (bu.) 421.74 1,111.42 26.06 0.13 0.30 Pasture (aum) 1.15 17.98 Straw (lb.) Screenings, Heavy (lb.) 120.74 1.21 2.28 3.78 28.64 Other feed stuffs (lb) 534.12 Veterinary 6.70 Supplies 6.02 Fuel & oil 8.24 Repairs 8.09 Custom hire 1.80 Operating interest 3.00 103.80 Total direct expenses Return over direct expense 40.48 **Overhead Expenses** Hired labor 1.09 3.13 4.33 Farm insurance Utilities 4.50 8.01 Interest Mach & bldg depreciation Miscellaneous 4.84 25.90 129.70 Total overhead expenses 14.58 Total dir & ovhd expenses Net return 20.12 Labor & management charge Net return over lbr & mgt -5.54 **Cost of Production Per Cwt. Produced** Total direct expense per unit 103.80 Total dir& ovhd expense per unit 129.70 With other revenue adjustments 134.78 With labor and management 154.90 Est. labor hours per unit 1.50 **Other Information** Number of cows 88.9 Pregnancy percentage 94.7 Pregnancy loss percentage Culling percentage 0.7 15.2 Calving percentage Weaning percentage 94.1 88.9 Calves sold per cow 0.58 Calf death loss percent 5.8 Cow death loss percent 1.8 Average weaning weight 573 Lb. weaned/exposed female 510 Feed cost per cow Avg wgt/ Beef Calves sold 362.74 627

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

144.34

Avg price / cwt.

	Avg. Of All Farms	
Number of farms		8
Beef Calves sold (Ib) Transferred out (Ib) Cull sales LvstGovtPayments Other income Purchased Transferred in Inventory change Gross margin	Quantity 352.8 9.8	Value 509.24 14.77 144.29 28.48 3.29 -76.27 -119.05 243.50 748.25
Direct Expenses Protein Vit Minerals (lb.) Creep / Starter (lb.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Oats (bu.) Pasture (aum) Straw (lb.) Screenings, Heavy (lb.) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Custom hire Operating interest Total direct expenses Return over direct expense	193.8 22.0 735.6 2,187.2 5,764.0 0.7 5.9 626.2 148.5 2,770.0	$\begin{array}{c} 17.45\\ 2.41\\ 11.75\\ 63.51\\ 135.15\\ 1.53\\ 93.24\\ 6.26\\ 11.81\\ 19.62\\ 34.76\\ 31.22\\ 42.75\\ 41.98\\ 9.33\\ 15.55\\ 538.33\\ 209.92\\ \end{array}$
Overhead Expenses Hired labor Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		5.66 16.24 22.44 23.33 41.52 25.11 134.30 672.63 75.62
Labor & management charge Net return over lbr & mgt		104.34 -28.72
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		103.80 129.70 134.78 154.90
Est. labor hours per unit		7.77
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.		88.9 94.7 0.7 15.2 94.1 88.9 0.58 5.8 1.8 573 510 362.74 627 144.34

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

Beef Replacement Heifers -- Average Per Head

	Avg. Of All Farms	
Number of farms		6
Beef Replace sold (hd) Transferred out (hd) Cull sales (hd) LvstGovtPayments Other income	Quantity 0.24 0.89 0.02	Value 363.57 1,150.16 27.89 10.12
Purchased (hd) Transferred in (hd) Inventory change (hd) Gross margin	0.03 0.90 -0.25	-34.64 -899.19 -210.11 407.80
Direct Expenses Protein Vit Minerals (Ib.) Complete Ration (Ib.) Barley (bu.) Corn Silage (Ib.) Hay, Alfalfa (Ib.) Hay, Grass (Ib.) Pasture (aum) Straw (Ib.) Cover crop forage (aum) Other feed stuffs (Ib) Breeding fees Veterinary Supplies Fuel & oil Repairs Custom hire Operating interest Total direct expenses Return over direct expense	72.93 9.12 2.20 12.05 2,550.64 1,159.54 3,326.51 4.21 218.80 0.26 25.69	$\begin{array}{c} 14.51 \\ 1.05 \\ 6.50 \\ 38.04 \\ 29.49 \\ 43.97 \\ 67.68 \\ 65.40 \\ 2.19 \\ 3.91 \\ 1.63 \\ 2.10 \\ 26.45 \\ 5.60 \\ 3.64 \\ 7.38 \\ 1.31 \\ 1.68 \\ 322.55 \\ 85.25 \end{array}$
Overhead Expenses Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		2.18 2.55 0.82 3.60 3.77 12.92 335.47 72.33
Labor & management charge Net return over lbr & mgt		9.93 62.40
Est. labor hours per unit		0.79
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		34 42 37 2.0 274.38 241.26

Beef Replacement Heifers -- Average Per Head Sold/Trans

	Avg. Of All Farms	
Number of farms		6
Beef Replace sold (hd) Transferred out (hd) Cull sales (hd) LvstGovtPayments Other income	Quantity 0.2 0.8 0.0	Value 319.68 1,011.31 24.53 8.90
Purchased (hd) Transferred in (hd) Inventory change (hd) Gross margin	0.0 0.8 -0.2	-30.46 -790.64 -184.75 358.57
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Barley (bu.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) Straw (lb.) Cover crop forage (aum) Other feed stuffs (lb) Breeding fees Veterinary Supplies Fuel & oil Repairs Custom hire Operating interest Total direct expenses Return over direct expense	64.1 8.0 1.9 10.6 2,242.7 1,019.6 2,924.9 3.7 192.4 0.2 22.6	$\begin{array}{c} 12.76\\ 0.92\\ 5.72\\ 33.45\\ 25.93\\ 38.66\\ 59.51\\ 57.50\\ 1.92\\ 3.44\\ 1.44\\ 1.84\\ 23.26\\ 4.93\\ 3.20\\ 6.49\\ 1.15\\ 1.47\\ 283.61\\ 74.96\end{array}$
Overhead Expenses Farm insurance Utilities Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		1.92 2.24 3.16 4.03 11.36 294.97 63.60
Labor & management charge Net return over lbr & mgt		8.73 54.87
Est. labor hours per unit		0.69
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		34 42 37 2.0 274.38 241.26

Beef Backgrounding -- Average Per Cwt. Produced

		g. Of arms
Number of farms		10
Backgnd Beef sold (lb) Transferred out (lb) LvstGovtPayments Other income	Quantity 345.87 44.76	Value 506.60 61.20
Transferred in (lb) Inventory change (lb) Gross margin	-263.33 -27.30	-389.40 -59.42 118.99
Direct Expenses Protein Vit Minerals (Ib.) Creep / Starter (Ib.) Complete Ration (Ib.) Barley (bu.) Corn (bu.) Corn Silage (Ib.) Hay, Alfalfa (Ib.) Hay, Grass (Ib.) Oats (bu.) Other feed stuffs (Ib) Veterinary Supplies Fuel & oil Repairs Hired labor Marketing Operating interest Total direct expenses Return over direct expense	10.28 13.08 1,064.35 0.68 2.24 319.74 132.21 601.16 0.82 12.57	$\begin{array}{c} 2.54\\ 1.24\\ 13.16\\ 2.00\\ 6.84\\ 4.09\\ 4.77\\ 14.27\\ 1.87\\ 0.34\\ 4.58\\ 1.12\\ 0.83\\ 2.95\\ 0.63\\ 0.43\\ 0.62\\ 62.27\\ 56.72\end{array}$
Overhead Expenses Hired labor Farm insurance Utilities Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		0.18 1.04 1.20 1.98 1.02 5.43 67.69 51.29
Labor & management charge Net return over lbr & mgt		7.64 43.65
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		130.83 132.22 132.22 134.18
Est. labor hours per unit		0.43
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.		70 78 0.4 1.22 12.72 21.25 51.12 70.77 689 146.47

Beef Backgrounding -- Average Per Head

		g. Of Farms
Number of farms		10
Backgnd Beef sold (lb) Transferred out (lb) LystGovtPayments	Quantity 478.8 62.0	Value 701.35 84.73
Other income Transferred in (lb) Inventory change (lb) Gross margin	-364.6 -37.8	- -539.09 -82.26 164.73
Direct Expenses Protein Vit Minerals (lb.) Creep / Starter (lb.) Complete Ration (lb.) Barley (bu.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Oats (bu.) Straw (lb.) Veterinary Supplies Fuel & oil Repairs Marketing Operating interest Total direct expenses Return over direct expense	14.2 18.1 1,473.5 0.9 3.1 442.7 183.0 832.3 1.1 17.4	$\begin{array}{c} 3.52 \\ 1.72 \\ 18.22 \\ 2.77 \\ 9.47 \\ 5.66 \\ 6.61 \\ 19.76 \\ 0.47 \\ 6.34 \\ 2.43 \\ 1.14 \\ 4.08 \\ 0.60 \\ 0.85 \\ 86.20 \\ 78.53 \end{array}$
Overhead Expenses Hired labor Farm insurance Utilities Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		0.25 1.44 1.67 2.74 1.41 7.52 93.72 71.01
Labor & management charge Net return over lbr & mgt		10.58 60.43
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		130.83 132.22 132.22 134.18
Est. labor hours per unit		0.60
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.		70 78 0.4 1.22 21.25 51.12 70.77 689 146.47

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