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Our Mission

"To provide lifelong learning opportunities in economic and financial management for adults involved in the farming and ranching business"

The 2017 summary reports are based on data from individual farm analysis completed by farm/ranch families enrolled in the ND Farm and Ranch Business Management Education program.

Data for this ND State Average Summary Report was derived from operations with at least 50 head of beef cows and 40% of commodity sales coming from beef enterprises.

Farm Income Statement

North Dakota Farm Business Management Education Program 2017 Beef Farm Report (40% sales/50 head criteria)

Farms Sorted by Net Farm Income								
Number of Farms	Avg of all farms Low 20% 77 15					igh 20% 16		
Cash Farm Income Crop Income	\$	112,037	\$	116,629	\$	145,796		
Beef Income	т	209,627	Τ.	288,980	т	203,063		
Other Livestock Income		10,173		2,112		37,773		
Government Payments		33,193		38,369		45,326		
Other Farm Income		48,810		41,713		69,563		
Gross Cash Farm Income		413,840		487,803	\$	501,521		
Cash Farm Expense								
Seed	\$	24,148	\$	23,695	\$	35,107		
Fertilizer		23,627		27,049		30,281		
Chemicals		13,946		17,274		17,239		
Crop Insurance		7,208		8,739		7,721		
Crop Miscellaneous		3,037		735		7,410		
Feeder Livestock Purchase		19,072		33,769		2,228		
Purchased Feed		35,127		46,472		40,390		
Breeding Fees		1,093		703		2,457		
Veterinary		8,893		12,310		10,739		
Livestock Supplies		2,458		3,006		2,758		
Marketing		3,717		6,059		3,308		
Interest Fuel & Oil		34,298 17,644		48,459 23,076		44,584 17,754		
Repairs		33,231		47,146		36,096		
Custom Hire		15,658		15,183		21,390		
Hired Labor		9,253		18,994		12,270		
Land Rent		44,024		48,458		54,027		
Machinery Bldg & Lvstk Lease		3,124		2,631		1,661		
Real Estate Taxes		3,855		4,832		7,031		
Farm Insurance		7,275		9,168		9,126		
Utilities		5,816	6,822			7,732		
Miscellaneous Expense		9,628		18,085		10,820		
Total Cash Farm Expense	\$	326,132	\$	422,665	\$	382,129		
Net Cash Farm Income	\$	87,708	\$	65,138	\$	119,392		
Total Inventory Change	\$	(2,008)	\$	(64,061)	\$	91,612		
Net Operating Profit	\$	85,700	_	1,077	\$	211,004		
Total Depreciation	\$	(31,162)		(49,209)		(30,552)		
Gain or Loss on Capital Sales	\$ \$	(302)		(854)		-		
Net Farm Income	\$	54,236	\$	(48,986)	\$	180,452		

Livestock Enterprise Analysis

North Dakota Farm Business Management Education Program 2017 Beef Report (Farms Sorted by Net Return Per Unit)

Beef Cow Calf--Average Per Cow

			Avg of II Farms		L	ow 20%		Hi	igh 20%
Number of Farms			28			6			7
Beef Calves sold (lb) Breeding Herd Depreciation Other Income Government Payments Gross Margin	Quantity 543.9	\$	Value 869.72 (109.58) 7.12 49.36 816.62	Quantity 513.9	\$	Value 819.42 (164.69) 0.88 37.16 692.77	Quantity 596.6	\$	Value 937.25 (43.28) 13.97 40.82 948.76
Direct Expenses Protein Vit Minerals (Ib) Creep/Starter Corn Silage (Ib) Hay, Alfalfa (Ib) Hay, Grass (Ib) Pasture (aum) Other feedstuffs (Ib) Veterinary Supplies Fuel & Oil Repairs Custom Hire Marketing Operating Interest Miscellaneous Total Direct Expenses Return Over Direct expenses	117.2 30.7 1,970.7 377.8 4685.7 7.3 587	\$ \$ \$ \$	32.11 3.33 28.38 13.78 126.19 158.44 26.85 35.65 9.72 23.00 46.25 11.31 9.61 9.72 1.21 535.55 281.07	139.5 17.6 2,340.7 558.0 4,762.0 8.5 1,559.9	\$\$\$	58.98 1.92 40.80 17.75 111.22 154.06 60.32 36.20 21.52 30.55 82.01 6.69 2.88 10.81 6.03 641.74 51.03	129.8 112.4 1,532.3 572.6 4,409.5 7.0 153.3	\$ \$ \$ \$	25.71 12.33 24.66 24.06 117.98 161.05 7.30 28.51 6.41 20.25 24.10 7.63 17.98 8.26 - 486.23 462.53
Overhead Expenses Hired labor Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total Overhead Expenses Total Direct & Overhead exp Net Return		\$ \$ \$	10.06 11.82 11.63 10.77 39.87 17.67 101.82 637.37 179.25		\$ \$ \$	15.62 18.92 12.22 14.06 38.44 12.25 111.51 753.25 (60.48)		\$ \$ \$	6.24 8.40 10.20 6.71 29.53 23.28 84.36 570.59 378.17
Labor & management charge Net return over lbr & mgt		\$ \$	66.12 113.13		\$ \$	42.64 (103.12)		\$ \$	73.97 304.20
Cost of Production per Cwt pro Total direct expense Total dir & ovhd expense/unit With other revenue adjustmer With labor & management		\$ \$ \$	98.47 117.19 127.68 139.83		\$ \$ \$	124.88 146.57 171.39 179.69		\$ \$ \$	81.50 95.64 93.71 106.11

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					_		
*Continued from previous page		Avg.of					*
	Al	l Farms	Lo	ow 20%	Hi	gh 20%	
Number of Farms		28	5			6	
Other Information							
Number of cows		237.0		272.7		229.8	
Pregnancy percentage		95.0		91.9		98.8	
Pregnancy loss percentage		2.8		3.6		0.8	
Culling Percentage		21.8		24.6		22.1	
Calving Percentage		92.4		88.6		98.0	
Weaning Percentage		88.1		83.8		94.5	
Calf death loss percent		4.6		6.6		3.9	
Cow death loss percent		1.5		2.3		1.6	
Average weaning weight		569		557		602	
Lb weaned/exposed female		501		466		569	
Avg wgt/beef calf sold		572		548		632	
Avg price/cwt.	\$	161.20	\$	157.44	\$	160.11	
Feed cost per cow	\$	389.08	\$	445.04	\$	373.09	

Financial Standards Measure

ND Farm Business Management Education Program 2017 Beef Farm Report (Sorted by Net Farm Income)

	Avg of		
	All Farms	Low 20%	High 20%
Number of Farms	77	15	16
Liquidity			
Current Ratio	1.48	1.27	1.74
Working Capital	115,161	82,902	204,353
WC to gross Inc	28.0%	19.3%	33.8%
Solvency (cost)			
Farm debt to Asset ratio	49%	56%	47%
Profitability (cost)			
Rate of return onFarm assets	3.3%	-2.4%	7.6%
Rate of return on Farm equity	2.2%	-11.4%	10.8%
Net Farm Income	54,235	-48,986	180,451
Repayment capacity			
Term Debt Coverage ratio	1.08	0.31	2.04
Efficiency			
Operating expense ratio	70.9%	89.2%	57.5%
Depreciation expense ratio	7.6%	11.5%	5.0%
Interest Expense ratio	8.3%	10.5%	7.7%
Net farm income ratio	13.2%	-11.4%	29.8%

Thank you to the following Star Partners for providing funding for the production and distribution of the N.D. Farm and Ranch Business Management Regional and State Averages for 2017.

Northland Ford Dealers Asgrow/DEKALB/Channel/REA/Monsanto CHS Foundation ND Farmers Union Insurance/ND Farmers Union Agtegra Cooperative Nodak Insurance International Certification Services PROSEED CF Industries Wilbur-Ellis Company ND Farm Bureau RDO Equipment DuPont Pioneer First International Bank & Trust IRONCLAD Marketing ND Ethanol Council ND Building Trades Unions International Brotherhood of Electrical Workers North Central States Regional Council of Carpenters Lynnes Welding Training Zacharias Family

Cost-Return Projection -- Beef Cow-Calf Enterprise (Per Cow), 2018 1

							N.D.		Your
							Avg.		Numbers
VARIABLE COST PER COW:									
Summer Pasture						\$	140.00	\$	
2. Haysilage						mana	170.00	~~	
3. Other feed							25.00		
4. Protein and Mineral						****	25.00		
Hired Labor, Custom Hire						wana	25.00		
Veterinary, Drugs, and Supplies							25.00		
7. Utilities, Fuel, and Oil							30.00		
8. Facilities and Equipment Repairs						mana	40.00	~~	
9. Breeding Charge							10.00		
10. Marketing							15.00	~~	
11. Miscellaneous						00000	20.00		
12. Interest						******	14.00	~~	
A. TOTAL VARIABLE COSTS						\$	539.00	\$	0.00
FIXED COSTS PER COW									
13. Depreciation						\$	30.00	\$_	
14. Interest						mone	10.00	~~	
15. Insurance						10000	10.00	and a	
16. Cow interest, death loss							65.00	.~~	
B. TOTAL FIXED COSTS						\$	115.00	\$	0.00
C. TOTAL COSTS PER COW (A + B)						\$	654.00	\$	0.00
2			ır Nun			_			
RETURNS PER COW ²	%	Χ	Weig	ht x	Price				
17. Steers: .45 x 590 x 1.60		X				_ \$	424.80	\$_	0.00
18. Heifers: .26 x 570 x 1.35	***************************************	X		X	***************************************		200.07	~~	0.00
19. Cull cows; .14 x 1300 x 0.65		X		X			118.30	100	0.00
20. Cull heifers: .05 x 900 x 1.15	***************************************	X		X			51.75		0.00
D. GROSS RETURNS PER COW						\$	794.92	\$	0.00
E. RETURN OVER VARIABLE COSTS (D - A)						\$	255.92	\$_	0.00
F. RETURN OVER TOTAL COSTS (D - C) ³						\$	140.92	\$	0.00

¹ Information in this budget is based on the North Dakota Farm and Ranch Business Management Annual Report, 2017.

The above cow/calf budget was developed by Tim Petry, Livestock Economist, NDSU Extension Service.

For livestock economic and marketing information go to:

www.ag.ndsu.edu/livestockeconomics

The data for this brochure was compiled by Andrew Swenson, NDSU Extension Farm Management Specialist.







² Returns are based on a 90 percent weaning rate, 45 steers sold, 26 heifers sold, 19 heifers kept for replacement, 14 cull cows sold, and 5 cull heifers sold. Prices are projected for fall.

³ Return over total costs is return to unpaid family labor, management, and equity.

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Balance Sheet at Cost Values

North Dakota Farm Business Management Education Program 2017 Beef Farm Report (Farms Sorted by Net Farm Income)

		Avg of		2007		ı: 1 200/
	а	II farms	L	ow 20%	۲	ligh 20%
Number of Farms		77		15		16
Assets						
Current Farm Assets						
Cash and checking balance		26,487		17,446		24,849
Prepaid expenses & supplies		9,869		7,183		17,181
Growing crops		1,938		144		295
Accounts receivable		16,668		17,259		25,754
Hedging accounts		1,012		3,119		1,206
Crops held for sale or feed		143,089		160,638		187,512
Crops under government loan		0		0		0
Market Livestock held for sale		158,053		188,271		221,569
Other current assest		226		0		800
Total Current Farm Assets	\$	357,342	\$	394,060	\$	479,166
Intermediate Farm Assets						
Breeding livestock		274,141		300,838		339,985
Machinery & equipment		259,551		304,140		312,591
Titled vehicles		42,242		61,303		30,493
Other intermediate assets		18,909		6,044		15,908
Total Intermediate Farm Assets	\$	594,843	\$	672,325	\$	698,977
Long Term Assets						
Farm land		543,982		438,968		1,107,252
Buidlings & improvements		86,413		139,306		112,534
Other long-term assets		16,711		25,528		22,393
Total Long-term assets	\$	647,106	\$	603,802	\$	1,242,179
Total Farm Assets	\$1	1,599,291		1,670,187		2,420,322
Total Nonfarm assets	\$	154,309	\$	134,111	\$	244,912
Total Assets	\$1	,753,600	\$	1,804,298	\$	2,665,234
Liabilities	70					
Current Farm Liabilities						
Accrued Interest		15,037		21,582		17,686
Accounts payable		12,385		12,975		14,753
Current notes		162,278		226,467		180,026
Government crop loans		0		0		0
Principal due on term debt		52,481		50,134		62,348
Total Current Farm Liabilities	\$	242,181	\$	311,158	\$	
Total Intermediate Farm Liabs	\$	159,306	\$	198,887	\$	
Total Long-term Farm Liabilities	\$	381,250	\$	422,476	\$	
Total Farm Liabilities	\$	782,737	\$	932,521		1,131,185
Total Nonfarm Liabilities	\$	31,145	\$	12,217	\$	
Total Liabilities	\$	813,882	\$	944,738		1,154,812
	-		,	,		
Net Worth (farm & non farm)	\$	939,718	\$	859,560	\$	1,510,422
Net Worth change	\$	46,903	\$	(17,322)		
	-	,,,,,	7	(==,===)	7	

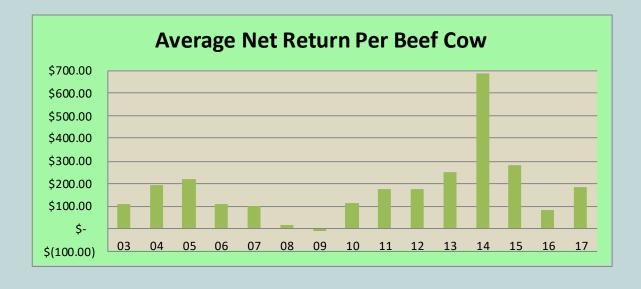






Historical Data:

Average Beef Net Return from Farm & Ranch Management Programs for the last 15 years.



Farm Business Management Programs are designed to provide education to farm owners and operators. The purpose of the program is to assist clients in meeting their business and personal goals. This is best accomplished through the use of quality records and sound business decisions.