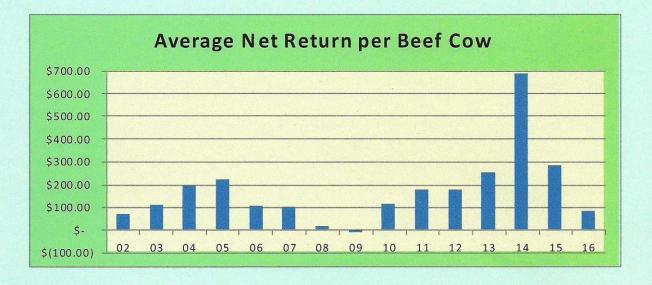


Historical Data:

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.

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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 2016 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 2016 Beef Farm Report (40% sales/50 head criteria) Farms Sorted by Net Farm Income

		Avg of					
		II farms	- 1	ow 20%	High 20%		
Number of Farms	a	86		17	18		
Number of Farms		80		1,	18		
Cash Farm Income							
Crop Income	\$	99,256	\$	96,384	\$	241,276	
Beef Income		206,974		240,696		361,133	
Other Livestock Income		34,933		46,041		73,105	
Government Payments		25,466		15,364		58,991	
Other Farm Income		44,799		48,509		113,641	
Gross Cash Farm Income		411,428		446,994	\$	848,146	
Cash Farm Expense							
Seed	\$	27,188	\$	26,501	\$	69,345	
Fertilizer		22,188		27,979		43,874	
Chemicals		15,982		19,451		36,194	
Crop Insurance		9,394		12,261		22,639	
Crop Miscellaneous		1,654		2,844		1,798	
Feeder Livestock Purchase		38,511		42,462		109,956	
Purchased Feed		32,175		46,711		53,571	
Breeding Fees		1,564		947		3,781	
Veterinary		7,745		8,910		11,917	
Livestock Supplies		2,186		2,842		2,349	
Marketing		3,436		1,705		7,673	
Interest		27,967		31,546		56,693	
Fuel & Oil		14,022		16,281		23,766	
Repairs		32,725		46,881		49,266	
Custom Hire		20,353		25,299		47,554	
Hired Labor		9,338		8,984		27,951	
Land Rent		37,484		39,767		76,116	
Machinery Bldg & Lvstk Lease		2,586		2,228		1,625	
Real Estate Taxes		4,154		4,639		9,606	
Farm Insurance		7,673		8,843		13,113	
Utilities		6,517		7,620		11,428	
Miscellaneous Expense		9,571		8,690		11,917	
Total Cash Farm Expense	\$	334,413	\$		\$	692,132	
Net Cash Farm Income	\$	77,015	\$		\$	156,014	
Total Inventory Change	\$	(14,846)	Ś	(100,028)	\$	77,428	
Net Operating Profit	\$	62,169	_		\$	233,442	
Total Depreciation	\$	(30,012)	\$		\$	(58,881)	
Gain or Loss on Capital Sales	\$	1,051	\$	(24)	\$	4,868	
Net Farm Income	\$	33,208	\$	(77,135)	\$	179,429	

Livestock Enterprise Analysis

North Dakota Farm Business Management Education Program 2016 Beef Report (Farms Sorted by Net Return Per Unit)

Beef Cow Calf--Average Per Cow

			Avg of I Farms		L	High 20%			
Number of Farms			32			6			7
Beef Calves sold (Ib) Breeding Herd Depreciation Other Income Gross Margin	Quantity 522.4	\$	Value 711.77 (72.71) 4.68 643.74	Quantity 504.7	\$	Value 675.86 (190.28) 23.68 509.26	Quantity 618.4	\$	Value 822.16 56.21 - 878.37
Direct Frances									
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 Total Direct Expenses Return Over Direct expenses	53.9 143 1,931.9 490.8 4796.3 7.5 278.4	\$ \$	19.94 9.66 27.98 13.22 119.36 154.94 13.93 21.54 5.44 17.33 46.83 4.68 4.02 8.59 467.46 176.28	41.5 62.1 3,088.0 201.4 5,609.9 7.9 919.4	\$ \$ \$	19.48 6.85 44.50 7.17 139.02 149.80 25.93 25.80 15.26 19.66 53.67 7.08 5.67 16.06 535.95 (26.69)	33.6 424.2 3,313.0 785.2 4,611.2 6.8 40.7	\$ \$	8.11 20.04 46.65 23.08 118.88 124.68 8.34 27.06 5.95 16.92 42.68 11.70 0.02 7.87 461.98 416.39
Overhead Expenses Hired labor Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total Overhead Expenses Total Direct & Overhead exp Net Return		\$ \$ \$	8.20 12.85 10.05 12.86 38.44 13.27 95.67 563.13 80.61		\$ \$ \$	16.90 15.31 11.42 25.72 29.46 14.59 113.41 649.36 (140.10)		\$ \$ \$	9.26 9.30 8.01 7.14 33.36 15.92 82.99 544.97 333.40
Labor & management charge Net return over lbr & mgt		\$ \$	65.99 14.62		\$ \$	75.47 (215.57)		\$ \$	70.68 262.72
Cost of Production per Cwt pro Total direct expense Total dir & ovhd expense/unit With other revenue adjustmen With labor & management		\$ \$ \$	89.43 107.73 120.84 133.47		\$ \$ \$	106.21 128.69 161.63 176.59		\$ \$ \$	74.71 88.13 79.04 90.47

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IN RESIDENCE IN PRODUCT IN PRODUCT IN EXPLOSION IN	DESCRIPTION IN	ENTHERNMENT I	O COMMENTS IN ASSESSMENT	to strooms	COR 0 PERSONNEL IN 201	CONTRACTOR IN	announced in consuming to
*Continued from previous page			Avg.of				
		Al	l Farms	Lo	w 20%	Hi	gh 20%
Number of Farms			32		6		7
Other Information							
Number of cows			216.6		185.3		231.2
Pregnancy percentage			93.8		96.3		95.6
Pregnancy loss percentage			2.8		3.2		0.5
Culling Percentage			16.4		18.3		17.6
Calving Percentage			91.2		93.2		95.1
Weaning Percentage			86.7		87.0		90.4
Calf death loss percent			4.8		7.7		2.3
Cow death loss percent			2.2		2.2		2.7
Average weaning weight			558		530		636
Lb weaned/exposed female			484		461		575
Avg wgt/beef calf sold			574		569		581
Avg price/cwt.		\$	130.80	\$	132.45	\$	129.09
Feed cost per cow		\$	359.03	\$	392.75	\$	349.77

Financial Standards Measure

ND Farm Business Management Education Program 2016 Beef Farm Report (Sorted by Net Farm Income)

	Avg of		
	All Farms	Low 20%	High 20%
Number of Farms	86	17	18
Liquidity			
Current Ratio	1.46	1.18	1.65
Working Capital	121,536	58,778	342,817
WC to gross Inc	30.1%	16.9%	36.5%
Solvency (cost)			
Farm debt to Asset ratio	50%	60%	47%
Profitability (cost)			
Rate of return onFarm assets	1.7%	-4.7%	5.3%
Rate of return on Farm equity	-0.3%	-15.9%	6.5%
Net Farm Income	33,206	-77,135	179,428
Repayment capacity			
Term Debt Coverage ratio	0.45	-0.30	0.53
Efficiency			
Operating expense ratio	77.2%	103.8%	68.5%
Depreciation expense ratio	7.4%	8.8%	6.3%
Interest Expense ratio	7.4%	9.6%	6.7%
Net farm income ratio	8.2%	-22.2%	19.1%

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.

Northland Ford Dealers - Asgrow/DEKALB/Channel/REA/Monsanto - CHS Foundation ND Farmers Union Insurance/ND Farmers Union - Wheat Growers - Thunder Seed Nodak Mutual Insurance - International Certification Services - ADM - PROSEED Wilbur-Ellis - ND Farm Bureau - RDO Equipment - DuPont Pioneer - CF Industries Lynnes Welding Training - IRONCLAD Marketing - First International Bank & Trust ND Building Trades Unions - International Brotherhood of electrical Workers North Central States Regional Council of Carpenters

A. TO	BLE COST PER C 1. Summer Past 2. Haysilage 3. Other feed 4. Protein and N 5. Hired Labor, C 6. Veterinary, D 7. Utilities, Fuel 8. Facilities and 9. Breeding Cha 10. Marketing 11. Miscellaneou 12. Interest 0 TAL VARIABLE C COSTS PER COV	ure Aineral Custom Hire rugs, and Suppl I, and Oil Equipment Rep rge					\$	N.D. Avg. 140.00 170.00 25.00 25.00 25.00 25.00 30.00	\$	Your Numbers
A. TO	 Summer Past Haysilage Other feed Protein and N Hired Labor, O Veterinary, D Utilities, Fuel Facilities and Breeding Cha Marketing Miscellaneou Interest 	ure Aineral Custom Hire rugs, and Suppl I, and Oil Equipment Rep rge					\$	140.00 170.00 25.00 25.00 25.00 25.00 30.00	\$	
A. TO	 Summer Past Haysilage Other feed Protein and N Hired Labor, O Veterinary, D Utilities, Fuel Facilities and Breeding Cha Marketing Miscellaneou Interest 	ure Aineral Custom Hire rugs, and Suppl I, and Oil Equipment Rep rge					\$	170.00 25.00 25.00 25.00 25.00 25.00 30.00	\$	
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A. TO	4. Protein and N 5. Hired Labor, C 6. Veterinary, D 7. Utilities, Fuel 8. Facilities and 9. Breeding Cha 10. Marketing 11. Miscellaneou 12. Interest	Custom Hire rugs, and Suppl I, and Oil Equipment Rep rge						25.00 25.00 25.00 30.00		
A. TO	5. Hired Labor, 0 6. Veterinary, D 7. Utilities, Fuel 8. Facilities and 9. Breeding Cha 10. Marketing 11. Miscellaneou 12. Interest	Custom Hire rugs, and Suppl I, and Oil Equipment Rep rge						25.00 30.00		
A. TO	6. Veterinary, D 7. Utilities, Fuel 8. Facilities and 9. Breeding Cha 10. Marketing 11. Miscellaneou 12. Interest	rugs, and Suppl , and Oil Equipment Rep rge						30.00		
A. TO	7. Utilities, Fuel 8. Facilities and 9. Breeding Cha 10. Marketing 11. Miscellaneou 12. Interest	, and Oil Equipment Rep rge								
A. TO	8. Facilities and 9. Breeding Cha 10. Marketing 11. Miscellaneou 12. Interest OTAL VARIABLE C	Equipment Rep rge	pairs						·	
A. TO	10. Marketing 11. Miscellaneou 12. Interest TAL VARIABLE C					1		40.00	-	
A. TO	10. Marketing 11. Miscellaneou 12. Interest TAL VARIABLE C					-		10.00		
A. TO	12. Interest TAL VARIABLE C	S	THE RESERVE THE PERSON NAMED IN COLUMN TWO					15.00		
A. TO	TAL VARIABLE C							20.00		
FIXED								14.00		
	COSTS PER COV	OSTS					\$	539.00	\$	0.00
	000101 EN 001	V								
	13. Depreciation	**************************************	The second secon				\$	30.00	\$	
_	14. Interest		1		- I allows a superior and an			10.00		
	15. Insurance		1					10.00		
	16. Cow interest,	death loss	-			-	1	65.00	İ	
	TAL FIXED COST	and the same of th	-				\$	115.00	\$	0.00
	TAL COSTS PER						\$	654.00	Ś	0.00
		00(1. 2)	You	ır Numbers	5	1			-	
RETUF	RNS PER COW 2	%	X	Weight	х	Price	1			
	17. Steers: .45 x 5	590 x 1.45	X	111111111111111111111111111111111111111	X		\$	384.98	\$	0.00
ALLE AND DESCRIPTION OF THE PARTY OF THE PAR	18. Heifers: .26 x	***************************************	X		X			185.25		0.00
	19. Cull cows; .14		×		X		w	127.40		0.00
	20. Cull heifers:	~~~~~~~~~~	X	······	X			51.75	-	0.00
	ROSS RETURNS F		<u> </u>				\$	749.38	ς	0.00
	TURN OVER VARI		Λ)	-		-	\$	210.38	\$	0.00
	TURN OVER TOTA		and the second second second second second	-	-	-	\$	95.38	ς .	0.00
. NE	TORN OVER TOTA	(L CO313 (D - C)					۲	23.30	٧	0.00
1 Info	ormation in this budget	is based on the <u>No</u>	rth Dakota	a Farm and Ra	anch Busine	ss Managem	ent Annual	Report, 2016	<u>i</u> .	
2	turns are based on a 9		Contract to the second street of the second							
14	cull cows sold, and 5	cull heifers sold. Pr	rices are i	projected for	fall.		T			AND THE PERSON NAMED IN COLUMN 2 IN COLUMN
	turn over total costs is				A STATE OF THE OWNER, STATE OWNER, STAT	/.				
					1					

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.







Balance Sheet at Cost Values

North Dakota Farm Business Management Education Program 2016 Beef Farm Report (Farms Sorted by Net Farm Income)

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		Avg of				
	а	II farms	L	ow 20%	Н	igh 20%
Number of Farms		86		17		18
Assets						
Current Farm Assets						
Cash and checking balance		27,902		42,350		52,059
Prepaid expenses & supplies		18,437		12,086		59,504
Growing crops		1,487		0		6,341
Accounts receivable		19,945		14,796		56,578
Hedging accounts		889		104		2,967
Crops held for sale or feed		160,191		150,217		357,227
Crops under government loan		0		0		0
Market Livestock held for sale		157,829		157,042		333,839
Other current assest		892		0		4,260
Total Current Farm Assets	\$	387,572	\$	376,595	\$	872,775
Intermediate Farm Assets						
Breeding livestock		288,879		305,499		459,914
Machinery & equipment		260,274		278,242		514,261
Titled vehicles		38,906		40,293		64,273
Other intermediate assets		20,131		15,438		26,334
Total Intermediate Farm Assets	\$	608,190	\$	639,472	\$ 3	1,064,782
Long Term Assets						
Farm land		522,817		471,125		1,424,242
Buidlings & improvements		88,143		103,235		148,623
Other long-term assets		8,860		18,171		4,564
Total Long-term assets	\$	619,820	\$	592,531	\$:	1,577,429
Total Farm Assets	\$1	1,615,582	\$ 1	1,608,598	\$ 3	3,514,986
Total Nonfarm assets	\$	133,801	\$	120,282	\$	199,693
Total Assets	\$ 1	L,749,383	\$ 1	L,728,880	\$ 3	3,714,679
Liabilities						
Current Farm Liabilities						
Accrued Interest		14,746		22,438		24,951
Accounts payable		11,596		14,161		8,028
Current notes		180,281		224,898		376,305
Government crop loans		0		0		0
Principal due on term debt		59,413		56,319		120,673
Total Current Farm Liabilities	\$	266,036	\$	317,816	\$	529,957
Total Intermediate Farm Liabs	\$	140,833	\$	173,959	\$	175,572
Total Long-term Farm Liabilities	\$	396,616	\$	470,186	\$	
Total Farm Liabilities	\$	803,485	\$	961,961	\$:	1,650,138
Total Nonfarm Liabilities	\$	21,757	\$	10,319	\$	22,214
Total Liabilities	\$	825,242	\$	972,280	\$:	1,672,352
Net Worth (farm & non farm)	\$	924,141	\$	756,600	\$ 1	2,042,327
Net Worth change	\$	9,416	\$	(89,262)	\$	106,276
	4	5,415	7	(00,202)	~	

