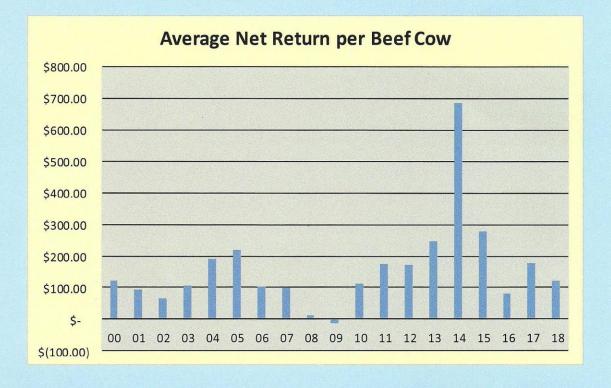
2018 North Dakota State Beef Average Summary



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 2018 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 2018 Beef Farm Report (40% sales/50 head criteria) Farms Sorted by Net Farm Income

r arms sorted by weer arm meanie										
	Avg of									
		all farms Low 20%			High 20%					
Number of Farms		68		13	14					
Cash Farm Income										
Crop Income	\$	78,186	\$	16,527	\$	167,487				
Beef Income	7	185,718	7	148,567	7	339,459				
Other Livestock Income		1,180		1,092		1,968				
Government Payments						63,113				
		28,730		15,431						
Other Farm Income	,	23,215	,	10,232	4	32,055				
Gross Cash Farm Income	\$	317,029	\$	191,849	\$	604,082				
Cash Farm Expense										
Seed	\$	19,356	\$	6,272	\$	38,606				
Fertilizer		19,306	T	6,400	7	34,416				
Chemicals		11,726		2,761		21,414				
Crop Insurance		5,977		2,816		10,584				
Crop Miscellaneous		1,094		40		1,994				
Feeder Livestock Purchase		11,759		982		45,144				
Purchased Feed		27,118			58,248					
Breeding Fees		1,032		23,295 583		3,208				
Veterinary		7,309 2,156		5,419 956		13,829 3,171				
Livestock Supplies Marketing		2,609		4,393		3,217				
Interest		22,261		21,458		36,334				
Fuel & Oil		17,343		11,512		24,114				
Repairs						42,344				
Custom Hire		27,333 13,628		20,708 8,801		23,970				
Hired Labor		6,394		The state of the s		13,593				
Land Rent		34,188		2,155 23,390		58,320				
		1,674								
Machinery Bldg & Lvstk Lease Real Estate Taxes		3,504		1,841 2,634		2,360 5,798				
Farm Insurance		6,945		6,752		9,975				
Utilities		5,417		5,524	7,171					
						17,240				
Miscellaneous Expense	۲	12,635	۲	10,744 169,436	۲					
Total Cash Farm Expense	\$	260,764	\$		\$	475,050				
Net Cash Farm Income	۲	56,265	\$	22,413	ې	129,032				
Total Inventory Change	\$	14,432	\$	(58,533)	\$	83,684				
Net Operating Profit	\$	70,697		(36,120)	PARTY NAMED IN	212,716				
Total Depreciation	\$	(24,192)	\$	(18,509)		(41,072)				
Gain or Loss on Capital Sales	\$	524	\$	(1,255)	\$	(443)				
Net Farm Income	\$	47,029	\$	(55,884)	\$	171,201				

North Dakota Farm Business Management Education Program 2018 Beef Report (Farms Sorted by Net Return Per Unit)

Beef Cow Calf--Average Per Cow

Beef Cow-Calf: Whole Herd w/ Backgrounding

			Avg or I Farms				avg or I Farms
Number of Farms			20				15
Beef Calves sold (lb) Herd Inventory Change Other Income Government Payments Gross Margin	Quantity 510	\$	Value 829.90 (86.00) 1.66 10.61 756.17		Quantity 520.1	\$	Value 770.65 65.83 5.52 8.52 850.52
Direct Expenses Protein Vit Minerals (Ib) Creep/Starter Corn Silage (Ib) Hay, Alfalfa (Ib) Hay, Grass (Ib) Pasture (aum) Other feedstuffs (Ib) Breeding Fees Veterinary Supplies Fuel & Oil Repairs Custom Hire Marketing Total Direct Expenses	763.2 58.7 2,165.3 406.5 4809.2 7.8 463.5	\$ \$	30.14 5.95 31.68 15.38 136.11 140.24 29.99 - 32.41 31.10 26.53 48.93		178.0 - 2,955.0 1,123.7 5,393.3 6.8 1,686.6	\$\$	86.90 40.73 40.20 142.71 124.52 60.35 8.52 36.83 19.86 30.68 29.86 17.12 12.75 651.03
Return Over Direct expenses		\$	227.71			\$	199.49
Overhead Expenses Hired labor Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total Overhead Expenses Total Direct & Overhead exp Net Return		\$ \$ \$	5.52 13.79 12.56 15.29 40.19 18.73 106.08 634.54 121.63			\$ \$ \$	15.75 18.44 30.97 31.44 96.60 747.63 102.89
Labor & management charge			69.94			\$	81.77
Net return over lbr & mgt		\$ \$	51.69			\$	21.12
Cost of Production per Cwt pro Total direct expense Total dir & ovhd expense/unit With other revenue adjustmer With labor & management		\$ \$ \$	103.62 124.42 139.21 152.92			\$ \$ \$	111.35 127.87 132.82 146.81

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Continued from previous page	 Cow Calf: e Per Cow	Who	Beef Cow-Calf: Whole Herd w/ Backgrounding			
Number of Farms	20		15			
Other Information						
Number of cows	229.9		188.1			
Pregnancy percentage	96.3		96.9			
Pregnancy loss percentage	3.1		2.9			
Culling Percentage	17.7		9.7			
Calving Percentage	93.3		94.1			
Weaning Percentage	88.6		90.0			
Calf death loss percent	4.5		3.6			
Cow death loss percent	1.2		1.0			
Average weaning weight	550		516			
Lb weaned/exposed female	487		464			
Avg wgt/beef calf sold	577		692			
Avg price/cwt.	\$ 165.95	\$	148.37			
Feed cost per cow	\$ 389.49	\$ \$	495.51			

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ND Farm Business Management Education Program 2018 Beef Farm Report (Sorted by Net Farm Income)

	Avg of		
	All Farms	Low 20%	High 20%
Number of Farms	68	13	14
Liquidity			
Current Ratio	1.49	1.12	1.47
Working Capital	102,911	18,075	199,961
WC to gross Inc	30.7%	12.5%	29.3%
Solvency (cost)			
Farm Debt to Asset ratio	46%	63%	43%
Profitability (cost)			
Rate of return onFarm assets	3.2%	-6.7%	8.1%
Rate of return on Farm equity	2.1%	-24.7%	10.7%
Net Farm Income	47,029	-55,884	171,201
Repayment capacity			
Term Debt Coverage ratio	1.45	-0.07	2.24
Efficiency			
Operating expense ratio	71.5%	108.5%	63.0%
Depreciation expense ratio	7.2%	12.8%	6.0%
Interest Expense ratio	7.3%	16.4%	5.8%
Net farm income ratio	14.1%	-38.6%	25.1%

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 for 2018.

Northland Ford Dealers, Asgrow/DEKALB/Channel/REA/Monsanto, CHS Foundation, ADM, Farm Credit Services of Mandan, Ag Country Farm Credit Services, Farm Credit Services of ND, ND Farmers Union, Farmers Union Insurance, AGTEGRA Cooperative, RDO Equipment Co., International Certification Services, Inc., Nodak Insurance, Zacharias Family, PROSEED, IRONCLAD Marketing, Butler Machinery, Wilbur-Ellis, ND Farm Bureau, PIONEER Seeds, CF Industries, North Centeral State Regional Council of Carpenters, International Brotherhoud of Electrial Workers, 1st International Bank & Trust, Gooseneck Implement, Titan Machinery, Plains Ag, ND Ethanol Council

Cost-Return Projection -- Beef Cow-Calf Enterprise (Per Cow), 2019 1

						N.D.		Your
						Avg.		Numbers
VARIABLE COST PER COW:								
Summer Pasture						\$ 140.00	\$_	
2. Haysilage						 170.00		
3. Other feed						 25.00		
Protein and Mineral						25.00		
5. Hired Labor, Custom Hire						 25.00		
6. Veterinary, Drugs, and Supplies						 25.00		
7. Utilities, Fuel, and Oil						 30.00		
Facilities and Equipment Repairs						 40.00		
9. Breeding Charge						 10.00		
10. Marketing						 15.00		
11. Miscellaneous						 20.00		
12. Interest						 14.00		
A. TOTAL VARIABLE COSTS						\$ 539.00	\$	0.00
FIXED COSTS PER COW								
13. Depreciation						\$ 30.00	\$_	
14. Interest						 10.00		
15. Insurance						 10.00		
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
		You	ır Num	bers	3			
RETURNS PER COW ²	%	X	Weigh	nt x	Price			
17. Steers: .45 x 590 x 1.62		X		X		\$ 430.11	\$	0.00
18. Heifers: .26 x 570 x 1.40						207.48		0.00
19. Cull cows; .14 x 1300 x 0.5		X		X		91.00		0.00
20. Cull heifers: .05 x 900 x 1.25		X		X		 56.25		0.00
D. GROSS RETURNS PER COW						\$ 784.84	\$	0.00
E. RETURN OVER VARIABLE COSTS (D - A)						\$ 245.84	\$	0.00
F. RETURN OVER TOTAL COSTS (D - C) 3						\$ 130.84	\$	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.

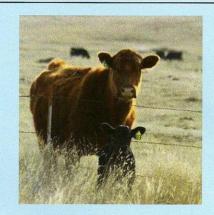
For livestock economic and marketing information go to:

www.ag.ndsu.edu/livestockeconomics

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



Photos submitted by: Lynsey Aberle, Judy Jacobson, Lacey Maier & Kirsten Friedt



Returns are based on a 90 percent weaning rate, 45 steers sold, 26 heifers sold, 19 heifers kept for replacement, 14 cull cow's 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.

Balance Sheet at Cost Values

North Dakota Farm Business Management Education Program 2018 Beef Farm Report (Farms Sorted by Net Farm Income)

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		Avg of III farms	L	ow 20%	High 20%		
Number of Farms	68			13		14	
Assets							
Current Farm Assets							
Cash and checking balance		25,236		20,715		20,929	
Prepaid expenses & supplies		6,212		1,798		15,339	
Growing crops		1,113		438		712	
Accounts receivable		12,415		3,766		26,567	
Hedging accounts		1,159		0		4,628	
Crops held for sale or feed		120,484		60,258		229,984	
Crops under government loan		0		0		0	
Market Livestock held for sale		146,436		78,046		324,755	
Other current assest		0		0	0		
Total Current Farm Assets	\$	313,055	\$	165,021	\$	622,914	
Intermediate Farm Assets							
Breeding livestock		253,732		194,468		401,270	
Machinery & equipment		228,369		138,858		415,275	
Titled vehicles		36,338		35,017		40,685	
Other intermediate assets		6,441		1,778		8,207	
Total Intermediate Farm Assets	\$	524,880	\$	370,121	\$	865,437	
Long Term Assets							
Farm land		355,025		228,000		483,655	
Buidlings & improvements		78,542		64,621			
Other long-term assets		9,923		6,067	4,746		
Total Long-term assets	\$	443,490	\$	298,688	\$	685,393	
Total Farm Assets	\$:	1,281,425	\$	833,830	\$ 2,173,744		
Total Nonfarm assets	\$	158,893	\$	255,433	\$ 165,226		
Total Assets	\$1	1,440,318	\$:	1,089,263	\$ 2,338,970		
Liabilities							
Current Farm Liabilities							
Accrued Interest		14,446		12,578		22,212	
Accounts payable		13,275		8,896		27,990	
Current notes		142,099		92,503		311,301	
Government crop loans		0		0		0	
Principal due on term debt		40,323		32,969		61,450	
Total Current Farm Liabilities	\$	210,143	\$	146,946	\$	422,953	
Total Intermediate Farm Liabs	\$	126,731	\$	127,466	\$	163,600	
Total Long-term Farm Liabilities		252,946	\$	247,816	\$	347,277	
Total Farm Liabilities	\$	589,820	\$	522,228	\$	933,830	
Total Nonfarm Liabilities	\$ \$ \$	25,930	\$	64,438	\$	6,487	
Total Liabilities	\$	615,750	\$	586,666	\$	940,317	
Net Worth (farm & non farm)	\$	824,568	\$	502,597	\$ 1	L,398,653	
Net Worth change	\$	62,038	\$	(13,652)	\$	153,302	

