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

·							N.D.		Your
							N.D.		Your Numbers
VARIABLE COST PER COW:							Avg.		Nullibers
Summer Pasture						\$	140.00	\$	
2. Haysilage						Ψ	170.00	Ψ	
3. Other feed							25.00	**	
Protein and Mineral						••••	25.00	w	
5. Hired Labor, Custom Hire							25.00	**	
6. Veterinary, Drugs, and Supplies						****	25.00	***	
7. Utilities, Fuel, and Oil						****	30.00	**	
8. Facilities and Equipment Repairs							40.00		
Breeding Charge						****	10.00	***	***************************************
10. Marketing							15.00	~	
11. Miscellaneous							20.00		
12. Interest							14.00	m	
A. TOTAL VARIABLE COSTS						\$	539.00	\$	0.00
FIXED COSTS PER COW						- +			
13. Depreciation						\$	30.00	\$	
14. Interest						* ****	10.00	٠.	***************************************
15. Insurance						****	10.00	m	
16. Cow interest, death loss						3000	65.00	**	***************************************
B. TOTAL FIXED COSTS						\$	115.00	\$	0.00
C. TOTAL COSTS PER COW (A + B)						\$	654.00	\$	0.00
		You	ur Numl	bers	;				
RETURNS PER COW ²	%	Х	Weigh	t x	Price	_			
17. Steers: .45 x 590 x 1.62		Х	Ŭ	Х		\$	430.11	\$	0.00
18. Heifers: .26 x 570 x 1.40	***************************************	·······		v		· · · · · · · · · · · · · · · · · · ·	207.48	· m	0.00
19. Cull cows; .14 x 1300 x 0.5		X					91.00	**	0.00
20. Cull heifers: .05 x 900 x 1.25	100010001000100000000000000000000000000	Х		Х	***************************************	••••	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.





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Balance Sheet at Cost Values

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

		Avg of				
	a	II farms	L	ow 20%	Н	igh 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		C
Market Livestock held for sale		146,436		78,046		324,755
Other current assest		0		0		C
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		196,992
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	,440,318	\$:	1,089,263	\$2	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		C
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	.,398,653
Net Worth change	\$	62,038	\$	(13,652)	\$	153,302

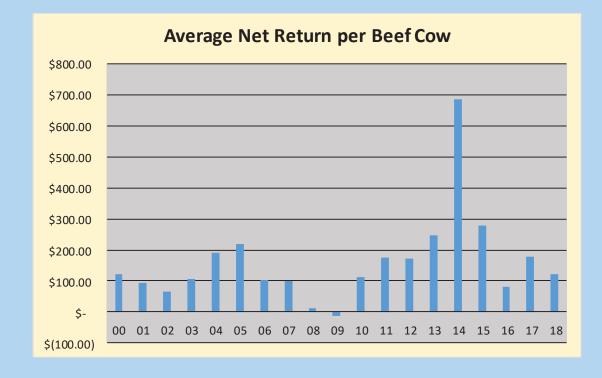


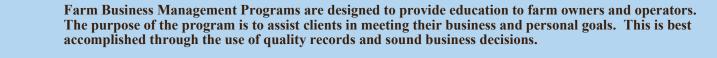
www.ndfarmmanagement.com

2018 North Dakota State Beef Average Summary

Historical Data:

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





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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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

Farms Sorted by Net Farm Income							
Number of Farms		Avg of II farms 68	Low 20% 13		Н	igh 20% 14	
Cash Farm Income							
Crop Income	\$	78,186	\$	16,527	\$	167,487	
Beef Income		185,718		148,567		339,459	
Other Livestock Income		1,180		1,092		1,968	
Government Payments		28,730		15,431		63,113	
Other Farm Income		23,215		10,232		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		6,400		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		23,295		58,248	
Breeding Fees		1,032		583		3,208	
Veterinary		7,309		5,419		13,829	
Livestock Supplies		2,156		956		3,171	
Marketing		2,609		4,393		3,217	
Interest		22,261		21,458		36,334	
Fuel & Oil		17,343		11,512		24,114	
Repairs		27,333		20,708		42,344	
Custom Hire		13,628		8,801		23,970	
Hired Labor		6,394		2,155		13,593	
Land Rent		34,188		23,390		58,320	
Machinery Bldg & Lvstk Lease		1,674		1,841		2,360	
Real Estate Taxes		3,504		2,634		5,798	
Farm Insurance		6,945		6,752		9,975	
Utilities		5,417		5,524		7,171	
Miscellaneous Expense		12,635		10,744		17,240	
Total Cash Farm Expense	\$	260,764		169,436	\$	475,050	
Net Cash Farm Income	\$	56,265	\$	22,413	\$	129,032	
Total Inventory Change	\$	14,432	\$	(58,533)	\$	83,684	
Net Operating Profit	\$	70,697		(36,120)		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 CalfAve	rage Per Co	w		Beef Cow-Calf: Whole I	Herd	w/ Backgrounding
			Avg or I Farms			Avg oi 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
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 Return Over 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
Overhead Expenses Hired labor Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total Overhead Expenses Total Direct & Overhead exp Net Return Labor & management charge		\$ \$\$ \$ \$\$	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 81.77
Net return over lbr & mgt Cost of Production per Cwt pro Total direct expense Total dir & ovhd expense/unit With other revenue adjustmen With labor & management		\$ \$ \$ \$	51.69 103.62 124.42 139.21 152.92		\$ \$ \$ \$	21.12 111.35 127.87 132.82 146.81

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				. — . — .
Continued from previous page			Beef	Cow-Calf:
	Bee	f Cow Calf:	Who	le Herd w/
	Avera	ge Per Cow	Backs	rounding
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%
ımber of Farms	68	13	14
quidity			
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%
lvency (cost)			
Farm Debt to Asset ratio	46%	63%	43%
ofitability (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
payment capacity			
Term Debt Coverage ratio	1.45	-0.07	2.24
ficiency			
Operating expense ratio	71.5%	108.5%	63.0%
Depreciation expense ratio	7.2%	12.8%	6.0%
nterest Expense ratio	7.3%	16.4%	5.8%
Net farm income ratio	14.1%	-38.6%	25.1%
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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

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