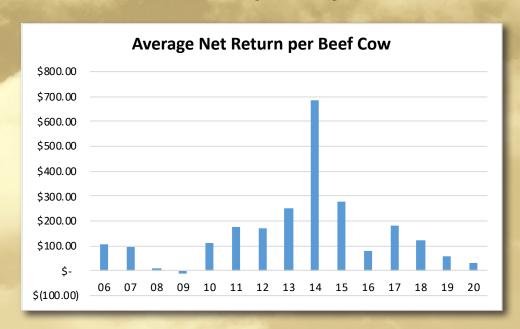
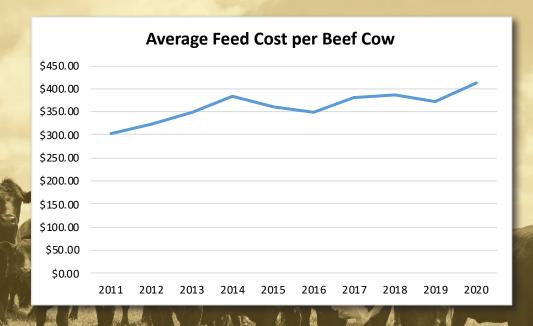


2020 North Dakota State Beef Average Summary

The historical charts below are generated from the ND Farm and Ranch
Business Management Programs





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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
2020 Beef Farm Report (40% Sales/ 50 head Criteria)
(Farms Sorted By Net Farm Income)

	(Farms corted by not variation)						
A STATE OF	Avg. Of All Farms	Low 20%	High 20%				
Number of Farms	48	9	10				
Cash Farm Income							
Crop Income	106,247	67,162	109,822				
Beef Income	176,189	116,717	295,402				
Other Livestock Income	22,076	12,293	56,945				
Government Payments	83,599	50,747	158,484				
Other Farm Income	27,466	28,453	20,984				
Gross Cash Farm Income	415,576	275,371	641,634				
Cash Farm Expense							
Seed and Plants	20,233	7,927	37,247				
Fertilizer	24,083	18,602	40,046				
Crop chemicals	16,999	11,521	22,763				
Crop insurance	5,118	3,064	6,496				
Crop misc.	2,213	1,716	2,557				
Feeder livestock purchase	24,616	42,762	16,793				
Purchased feed	25,398	13,510	42,580				
Breeding fees	1,054	1,779	943				
Veterinary	8,636	6,526	16,896				
Livestock supplies	5,533	5,067	12,999				
Livestock misc.	438	40.000	207				
Interest	29,746	19,830	35,993				
Fuel & Oil	18,535	13,803	22,052				
Repairs Custom hire	35,986 13,841	40,861 5,962	45,614 19,938				
Hired labor	9,922	6,961	7,287				
Land rent	39,297	32,159	55,592				
Machinery Bldg & Livestock lease		4,682	731				
Real estate taxes	4,921	2,115	10,271				
Farm insurance	7,323	4,150	9,645				
Utilities	5,390	3,634	7,060				
Marketing	2,330	405	4,437				
Miscellaneous expense	11,952	10,256	17,272				
Total cash expense	323,401	257,292	435,414				
Net cash farm income	92,175	18,079	206,220				
Total inventory change	17,054	35,913	96,563				
Net operating profit	109,230	17,834	302,873				
,	,	,	,				
Total depreciation	33,008	16,756	59,101				
Gain or loss on capital sales	-162	581	-588				
Net farm income	76,060	-34,009	243,094				



Livestock Enterprise Analysis North Dakota Farm Business Management Education Program 2020 Beef Farm Report (40% Sales/ 50 head Criteria) (Farms Sorted by Net Return)

	Beef Cow-Calf A	verage Per Cow	Whole Herd W/	Backgrounding		
	Avg. Of All Farms		Avg. Of All Farms			
Number of farms		14		17		
Beef Calves sold (lb) Herd Inventory Change Government payments Other income Gross margin	Quantity 128.9 416.4	Value 186.40 408.43 112.90 6.06 717.27	Quantity 343.4 192.8	Value 499.98 360.98 134.47 21.37 1016.82		
Direct Expenses Protein Vit Minerals (lb.)	8,446.4	18.36	263.0	30.25		
Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) DDGS, dry (lb.) DDGS, wet (lb.) Cover crop / Aftermath grazing (au Veterinary Supplies Fuel & oil Repairs Custom hire / Hired labor Marketing Operating interest Miscellaneous Total direct expenses Return over direct expense	3,182.6 864.8 4,450.6 7.1 38.6 146.1	54.03 34.40 134.42 126.94 3.65 6.09 3.12 40.79 13.88 18.77 49.25 14.42 1.20 5.39 9.29 569.93 147.33	0.2 864.8 5750.9 7.4 38.6 146.1 0.2	6.12 34.40 156.24 158.35 3.65 6.09 6.12 41.22 17.82 23.04 44.88 35.78 21.43 23.76 14.19 751.40 265.41		
Overhead Expenses		147.00		200.41		
Hired labor Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses		20.43 10.99 9.82 6.13 45.78 21.07		20.43 14.31 9.82 22.89 47.20 31.65 116.05		
Total dir & ovhd expenses Net return Labor & management charge Net return over lbr & mgt		684.16 33.11 60.91 -27.81		867.45 149.37 78.50 70.87		
Cost of Production Per Cwt.						
Total direct expense Total dir& ovhd expense per unit With other revenue adjustments With labor and management		104.31 125.21 144.79 155.94		139.91 161.52 116.79 131.41		

(Continued from previous page)

Beef Cow-Calf -- Average Per Cow Whole Herd W/ Backgrounding

	Avg. Of All Farms	Avg. Of All Farms
Number of farms	14	17
Number or larms	A section of the	
	Value	Value
Other Information		
Number of cows	261.8	191.4
Pregnancy percentage	96.6	95.5
Pregnancy loss percentage	1.1	2.4
Culling percentage	13.4	13.3
Calving percentage	95.5	93.3
Weaning percentage	88.1	89.2
Calf death loss percent	7.8	4.3
Cow death loss percent	2.4	1.8
Average weaning weight	564	544
Lb. weaned/exposed female	497	485
Feed cost per cow	416.95	529.28
Avg wgt/ Beef Calves sold	585	755
Avg price / cwt.	144.57	145.58

Financial Standards Measures North Dakota Farm Business Management Education Program 2020 Beef Farm Report (40% Sales/ 50 head Criteria) (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	High 20%
Number of farms	48	9	10
Liquidity Current ratio Working capital Working capital to gross inc	1.70 147,634 33.9 %	1.29 36,784 15.5 %	2.25 386,971 51.8 %
Solvency (cost) Farm debt to asset ratio	37 %	58 %	31 %
Profitability (cost)			
Rate of return on farm assets Rate of return on farm equity	4.1 % 4.3 %	-6.1 % -29.1 %	8.8 % 10.5 %
Net farm income	76,060	-34,009	243,094
Repayment Capacity	4.70	0.04	2.00
Term debt coverage ratio Efficiency	1.72	-0.01	3.69
Operating expense ratio Depreciation expense ratio Interest expense ratio	68.2 % 7.6 % 6.7 %	99.6 % 7.1 % 7.9 %	54.6 % 7.9 % 4.8 %
Net farm income ratio	17.5 %	-14.6 %	32.6 %



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Cost-Return Projection -- Beef Cow-Calf Enterprise (Per Cow), 2021 1

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					N.D.		Your
			1 100		Avg.		Numbers
VARIABLE COST PER COW:							
Summer Pasture				\$	135.00	\$	
2. Haysilage					180.00		
3. Other feed					30.00		
4. Protein and Mineral					25.00		
5. Hired Labor, Custom Hire					20.00		
6. Veterinary, Drugs, and Supplies					30.00		
7. Utilities, Fuel, and Oil					25.00		
8. Facilities and Equipment Repairs					40.00		
9. Breeding Charge					10.00		
10. Marketing					15.00		
11. Miscellaneous					19.00	-	
12. Interest					15.00		
A. TOTAL VARIABLE COSTS				\$	544.00	\$	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)				\$	659.00	\$	0.00
	Yo	our Numbe	rs				
RETURNS PER COW ² %	Х	Weight	x Price				
17. Steers: .45 x 590 x 1.65	Х		x	\$	438.08	\$	0.00
18. Heifers: .26 x 570 x 1.40	х		Χ		207.48	****	0.00
19. Cull cows; .14 x 1300 x 0.55	Х		X		100.10		0.00
20. Cull heifers: .05 x 900 x 1.25	X		X	nn 1000	56.25	0000	0.00
D. GROSS RETURNS PER COW		~~~~~~~~~~	***************************************	\$	801.91	\$	0.00
E. RETURN OVER VARIABLE COSTS (D - A)				\$	257.91	\$	0.00
F. RETURN OVER TOTAL COSTS (D - C) 3				\$	142.91	\$	0.00

¹ Information in this budget is based on the North Dakota Farm and Ranch Business Management Annual Report, 2019.

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:
Bryon Parman, NDSU Extension Finance Specialist



Our Mission

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



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.

Balance Sheet at Cost Values North Dakota Farm Business Management Education Program 2020 Beef Farm Report (40% Sales/ 50 head Criteria) (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 20%	High 20%
Number of farms	48	9	10
Assets			
Current Farm Assets Cash and checking balance	24,167	26,358	27,988
Prepaid expenses & supplies	7,816	5,223	21,646
Growing crops	378	750	294
Accounts receivable	12,627	1,517	27,093
Hedging accounts Crops held for sale or feed	1,220	1,425 74,244	200.270
Crops under government loan	154,633	74,244	309,279
Market livestock held for sale	158,427	53,388	311,323
Other current assets	92	-	-
Total current farm assets	359,360	162,903	697,623
Intermediate Farm Assets			
Breeding livestock	294,276	185,056	574,291
Machinery and Equipment	260,564	141,037	499,392
Titled vehicles	41,855	38,356	80,554
Other Immediate Assets Total intermediate farm assets	5,096 601,792	2,068 366,516	4,743 1,158,980
	33.,.32	333,313	.,
Long Term Farm Assets			
Farm land Buildings and improvements	535,474 88,987	275,504 10,008	687,706 154,371
Other long-term assets	4,973	1,461	104,371
Total long-term farm assets	629,434	286,972	841,177
Total Farm Assets	1,590,586	816,392	2,698,780
Total Nonfarm Assets	135,127	117,506	220,987
Total Assets	1,725,712	933,898	2,919,767
Liabilities Current Farm Liabilities			
Accrued interest	12,175	8,115	11,955
Accounts payable	12,736	3,828	7,037
Current notes	136,508	75,698	215,460
Government crop loans Principal due on term debt	50,306	38,478	76,200
Total current farm liabilities	211,725	126,120	310,652
Total intermediate farm liabilities	170,151	167,312	190,672
Total long-term farm liabilities Total farm liabilities	371,747 753,623	314,305 607,736	341,066 842,390
. C.S. Tarri Hazingo	7 30,020	201,100	0.12,000
Total non-farm liabilities	38,562	46,493	23,372
Total liabilities	792,185	654,230	865,762
Net worth (farm and non-farm)	933,527	279,668	2,054,005
Net worth change	69,778	-31,165	217,616
		F 30 F	



