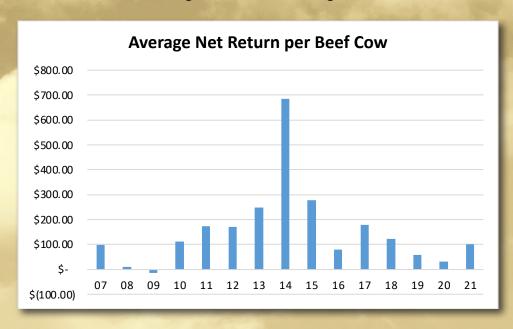
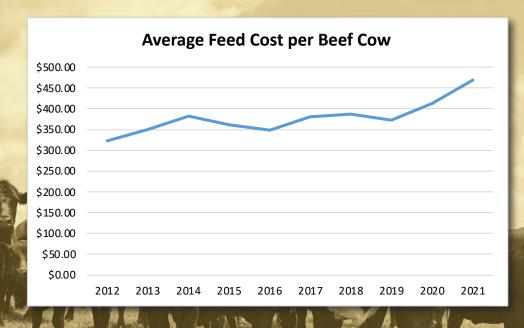


# 2021 North Dakota State Beef Average Summary

The historical charts below are generated from the North Dakota Farm Management Education Programs





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Data for this North Dakota State Average Summary Report was derived from operations with at least 50 head of beef cows and 70% of commodity sales coming from beef enterprises.

Farm Income Statement
North Dakota Farm Business Management Education Program
2021 Beef Farm Report (70% Sales & 50 Head Criteria)
(Farms Sorted by Net Farm Income)

Other Livestock Income Government Payments Other Farm Income Gross Cash Farm Income Gash Farm Expense Seed and Plants Fertilizer Crop chemicals Crop insurance Crop misc. Feeder livestock purchase Purchased feed Breeding fees Veterinary Livestock supplies Livestock misc. Interest Fuel & Oil Repairs Custom hire Hired labor Land rent Machinery Bldg & Livestock lease Real estate taxes Farm insurance Utilities Marketing Miscellaneous expense Total cash expense Sed and Plants Sed and Pla	
Cash Farm Income Crop Income Beef Income  Cother Livestock Income Government Payments Other Farm Income Gross Cash Farm Income Seed and Plants Fertilizer Crop chemicals Crop insurance Crop misc. Feeder livestock purchase Purchased feed Breeding fees Veterinary Livestock supplies Livestock misc. Interest Fuel & Oil Repairs Custom hire Hired labor Land rent Machinery Bldg & Livestock lease Real estate taxes Farm insurance Utilities Marketing Miscellaneous expense Total cash expense Total cash expense  Defermine Seeder Seeder Total inventory change Total inventory change	-arms
Crop Income  Beef Income  Cother Livestock Income  Government Payments  Other Farm Income  Gross Cash Farm Income  Cash Farm Expense  Seed and Plants  Fertilizer  Crop chemicals  Crop insurance  Crop misc.  Feeder livestock purchase  Purchased feed  Breeding fees  Veterinary  Livestock supplies  Livestock misc.  Interest  Fuel & Oil  Repairs  Custom hire  Hired labor  Land rent  Machinery Bldg & Livestock lease  Real estate taxes  Farm insurance  Utilities  Marketing  Miscellaneous expense  Total cash expense  Net cash farm income  Total inventory change	17
Beef Income	
Other Livestock Income Government Payments Other Farm Income Gross Cash Farm Income Gross Cash Farm Income Gash Farm Expense Seed and Plants Fertilizer Crop chemicals Crop insurance Crop misc. Feeder livestock purchase Purchased feed Breeding fees Veterinary Livestock supplies Livestock misc. Interest Fuel & Oil Repairs Custom hire Hired labor Land rent Machinery Bldg & Livestock lease Real estate taxes Farm insurance Utilities Marketing Miscellaneous expense Total cash expense Seed and Plants Seed and Pl	5,639
Government Payments Other Farm Income Gross Cash Farm Income Gash Farm Expense Seed and Plants Fertilizer Crop chemicals Crop insurance Crop misc. Feeder livestock purchase Purchased feed Breeding fees Veterinary Livestock supplies Livestock misc. Interest Fuel & Oil Repairs Custom hire Hired labor Land rent Machinery Bldg & Livestock lease Real estate taxes Farm insurance Utilities Marketing Miscellaneous expense Total cash expense Saccording Sac	2,364
Other Farm Income Gross Cash Farm Income Gross Cash Farm Income 30  Cash Farm Expense Seed and Plants Fertilizer Crop chemicals Crop insurance Crop misc. Feeder livestock purchase Furchased feed Freeding fees Veterinary Livestock supplies Livestock misc. Interest Fuel & Oil Repairs Custom hire Hired labor Land rent Machinery Bldg & Livestock lease Real estate taxes Farm insurance Utilities Marketing Miscellaneous expense Total cash expense Total inventory change	25,994
Gross Cash Farm Income  Cash Farm Expense  Seed and Plants  Fertilizer Crop chemicals Crop insurance Crop misc. Feeder livestock purchase Purchased feed Breeding fees Veterinary Livestock supplies Livestock misc. Interest Fuel & Oil Repairs Custom hire Hired labor Land rent Machinery Bldg & Livestock lease Real estate taxes Farm insurance Utilities Marketing Miscellaneous expense Total cash expense Total inventory change	50,307
Cash Farm Expense         Seed and Plants         Fertilizer         Crop chemicals         Crop insurance         Crop misc.         Feeder livestock purchase         Purchased feed         Breeding fees         Veterinary         Livestock supplies         Livestock misc.         Interest         Fuel & Oil         Repairs         Custom hire         Hired labor         Land rent         Machinery Bldg & Livestock lease         Real estate taxes         Farm insurance         Utilities         Marketing         Miscellaneous expense         Total cash expense         Total cash farm income         Total inventory change	24,950
Seed and Plants Fertilizer Crop chemicals Crop insurance Crop misc. Feeder livestock purchase Purchased feed Breeding fees Veterinary Livestock supplies Livestock misc. Interest Fuel & Oil Repairs Custom hire Hired labor Land rent Machinery Bldg & Livestock lease Real estate taxes Farm insurance Utilities Marketing Miscellaneous expense Total cash expense Seeder Weterinary  Expensive Custom Aire Aired Air	9,253
Fertilizer Crop chemicals Crop insurance Crop misc. Feeder livestock purchase Purchased feed Breeding fees Veterinary Livestock supplies Livestock misc. Interest Fuel & Oil Repairs Custom hire Hired labor Land rent Machinery Bldg & Livestock lease Real estate taxes Farm insurance Utilities Marketing Miscellaneous expense Total cash expense Net cash farm income  Total inventory change	
Crop chemicals Crop insurance Crop misc. Feeder livestock purchase Purchased feed Breeding fees Veterinary Livestock supplies Livestock misc. Interest Fuel & Oil Repairs Custom hire Hired labor Land rent Machinery Bldg & Livestock lease Real estate taxes Farm insurance Utilities Marketing Miscellaneous expense Total cash expense Net cash farm income	3,522
Crop insurance Crop misc. Feeder livestock purchase Purchased feed Breeding fees Veterinary Livestock supplies Livestock misc. Interest Fuel & Oil Repairs Custom hire Hired labor Land rent Machinery Bldg & Livestock lease Real estate taxes Farm insurance Utilities Marketing Miscellaneous expense Total cash expense Total inventory change	4,604
Crop misc. Feeder livestock purchase Feeder livestock purchase Purchased feed Greeding fees Veterinary Livestock supplies Livestock misc. Interest Fuel & Oil Repairs Custom hire Hired labor Land rent Machinery Bldg & Livestock lease Real estate taxes Farm insurance Utilities Marketing Miscellaneous expense Total cash expense Total inventory change	2,220
Feeder livestock purchase Purchased feed Breeding fees Veterinary Livestock supplies Livestock misc. Interest Fuel & Oil Repairs Custom hire Hired labor Land rent Machinery Bldg & Livestock lease Real estate taxes Farm insurance Utilities Marketing Miscellaneous expense Total cash expense Total inventory change	1,135
Purchased feed Breeding fees  Veterinary  Livestock supplies  Livestock misc.  Interest Fuel & Oil Repairs Custom hire Hired labor Land rent Machinery Bldg & Livestock lease Real estate taxes Farm insurance Utilities Marketing Miscellaneous expense Total cash expense Total inventory change	353
Breeding fees  Veterinary  Livestock supplies  Livestock misc.  Interest  Fuel & Oil  Repairs  Custom hire  Hired labor  Land rent  Machinery Bldg & Livestock lease  Real estate taxes  Farm insurance  Utilities  Marketing  Miscellaneous expense  Total cash expense  Total inventory change	55,951
Veterinary Livestock supplies Livestock misc. Interest Fuel & Oil Repairs Custom hire Hired labor Land rent Machinery Bldg & Livestock lease Real estate taxes Farm insurance Utilities Marketing Miscellaneous expense Total cash expense Net cash farm income Total inventory change	35,265
Livestock misc.  Interest Fuel & Oil Repairs Custom hire Hired labor Land rent Machinery Bldg & Livestock lease Real estate taxes Farm insurance Utilities Marketing Miscellaneous expense Total cash expense Total inventory change	1,263
Livestock misc.  Interest Fuel & Oil Repairs Custom hire Hired labor Land rent Machinery Bldg & Livestock lease Real estate taxes Farm insurance Utilities Marketing Miscellaneous expense Total cash expense Total inventory change	7,681
Interest Fuel & Oil Repairs Custom hire Hired labor Land rent Machinery Bldg & Livestock lease Real estate taxes Farm insurance Utilities Marketing Miscellaneous expense Total cash expense Total inventory change	3,319
Fuel & Oil  Repairs  Custom hire  Hired labor  Land rent  Machinery Bldg & Livestock lease  Real estate taxes  Farm insurance  Utilities  Marketing  Miscellaneous expense  Total cash expense  Total inventory change	1,137
Repairs Custom hire Hired labor Land rent Machinery Bldg & Livestock lease Real estate taxes Farm insurance Utilities Marketing Miscellaneous expense Total cash expense Total inventory change	16,732
Custom hire Hired labor Land rent Machinery Bldg & Livestock lease Real estate taxes Farm insurance Utilities Marketing Miscellaneous expense Total cash expense Net cash farm income Total inventory change	13,246
Hired labor Land rent 22 Machinery Bldg & Livestock lease Real estate taxes Farm insurance Utilities Marketing Miscellaneous expense Total cash expense Net cash farm income 223 Total inventory change	24,022
Land rent  Machinery Bldg & Livestock lease  Real estate taxes  Farm insurance  Utilities  Marketing  Miscellaneous expense  Total cash expense  Net cash farm income  Total inventory change	8,192
Machinery Bldg & Livestock lease Real estate taxes Farm insurance Utilities Marketing Miscellaneous expense Total cash expense Net cash farm income Total inventory change	3,503
Real estate taxes  Farm insurance  Utilities  Marketing  Miscellaneous expense  Total cash expense  Net cash farm income  Total inventory change	26,755
Farm insurance  Utilities  Marketing  Miscellaneous expense  Total cash expense  Net cash farm income  Total inventory change	831
Utilities  Marketing  Miscellaneous expense  Total cash expense  Net cash farm income  Total inventory change	2,308
Marketing Miscellaneous expense Total cash expense Net cash farm income Total inventory change	4,439
Miscellaneous expense  Total cash expense  Net cash farm income  Total inventory change	5,074
Total cash expense 23  Net cash farm income 7  Total inventory change	4,176
Net cash farm income 7 Total inventory change	7,218
Total inventory change	32,949
	76,304
Net operating profit	4,742
	31,045
A STATE OF THE PROPERTY OF THE	
Total depreciation	18,070
Gain or loss on capital sales	-2,180
	AL
Net farm income	0,795

# Livestock Enterprise Analysis North Dakota Farm Business Management Education Program 2021 State Report (Farms Sorted by Net Return)

#### Beef Cow-Calf -- Average Per Cow

Whole Herd W/ Backgrounding

	Avg. Of All	Farms
Number of Farms		12
	Quantity	Value
Beef Calves sold (lb)	124.1	258.31
Herd Inventory Change (lb)	346.1	418.23
Government payments		71.75
Other income		60.45
Gross margin		808.74
Direct Expenses		
Protein Vit Minerals (lb.)	80.1	25.15
Corn (bu.)		
Corn Silage (lb.)	3,030.4	48.557
Hay, Alfalfa (lb.)	713.8	34.45
Hay, Grass (lb.)	4,173.3	172.73
Pasture (aum)	6.3	116.71
DDGS, wet (lb.)	79.1	5.94
Other feed stuffs (lb.)	2,547.3	66.05
Veterinary		32.10
Supplies		12.64
Livestock insurance		9.01
Fuel & oil		18.65
Repairs		40.51
Miscellaneous		19.46
Total direct expenses		602.00
Return over direct expense		206.73
Overhead Expenses		
Hired Labor		22.20
Interest		
Mach & bldg depreciation		38.70
Miscellaneous		43.71
Total overhead expenses		104.61
Total dir & ovhd expenses		706.61
Net return		102.12
Labor & management charge		75.38
Net return over lbr & mgt		26.74
Cost of Production Per Cwt. Produced		
Total direct expense per unit		127.47
Total dir & ovhd expense per unit		149.62
With other revenue adjustments		155.32
With labor and management		171.29

Avg. Of A	II Farms
	25
Quantity	Value
383.0	537.10
179.8	286.89
	59.91
	4.27
	888.16
240.8	51.28
3.4	16.88
4,667.4	83.31
511.9	25.25
5,985.1	224.31
6.4	134.65
63.3	13.33
2,115.50	74.99
	29.36
	16.41
	26.72
	64.94
	36.48
	797.90
	90.26
	19.65
	27.94
	44.70
	61.92
	154.22
	952.12
	-63.96
	99.86
	-163.82
	141.12
	168.39
	165.54
	183.20

#### **Continued From Previous Page**

Beef Cow-Calf -- Average Per Cow

Whole Herd W/ Backgrounding

Avg. Of All Farms		
Number of Farms	12	
	Value	
Number of Cows	272.6	
Pregnancy Percentage	96.1	
Pregnancy Loss Percentage	0.7	
Culling Percentage	17.2	
Calving Percentage	95.5	
Weaning Percentage	87.5	
Calf Death Loss Percent	3.6	
Cow Death Loss Percent	1.7	
Average Weaning Weight	496	
Lb. Weaned/Exposed Female	434	
Feed Cost Per Cow	469.62	
Avg Wgt/ Beef Calves Sold	403	
Avg Price / CWT.	208.22	

Avg. Of All Farms	
25	
Value	
143.7	
93.9	
2.0	
18.4	
92.0	
87.9	
4.9	
1.8	
547	
480	
623.99	
683	
140.25	

#### Financial Standards Measures North Dakota Farm Business Management Education Program 2021 Beef Farm Report (70% Sales & 50 head Criteria) (Farms Sorted by Net Farm Income)

	Ave Of All Forms
	Avg. Of All Farms
Number of Farms	17
Liquidity	
Current Ratio	1.78
Working Capital	86,927
Working Capital to Gross Income	28.4%
Solvency Cost	
Farm Debt to Asset Ratio	43%
Profitability Cost	
Rate of Return on Farm Assets	4.5%
Rate of Return on Farm Equity	7.0%
Net Farm Income	60,795
Repayment Capacity	
Term Debt Coverage Ratio	2.07
Efficiency	
Operating Expense Ratio	68.9%
Depreciation Expense Ratio	5.9%
Interest Expense Ratio	4.6%
Net Farm Income Ratio	20.6%

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## Cost-Return Projection -- Beef Cow-Calf Enterprise (Per Cow), 2022 1

		N.D.		Your
		Avg.		Numbers
VARIABLE COST PER COW:				
1. Summer Pasture	\$	185.00	\$	
2. Hay-silage		230.00		
3. Other feed		45.00	2000	
4. Protein and Mineral		30.00		
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	2000	20.00	20000	000000000000000000000000000000000000000
10. Marketing	2000	25.00	20000	000000000000000000000000000000000000000
11. Miscellaneous		15.00		
12. Interest		20.00		
A. TOTAL VARIABLE COSTS	\$	685.00	\$	0.00
FIXED COSTS PER COW				
13. Depreciation	\$	30.00	\$	••••
14. Interest		15.00		
15. Insurance		10.00		~~~~~
16. Cow interest, death loss		65.00		
B. TOTAL FIXED COSTS	\$	120.00	\$	0.00
C. TOTAL COSTS PER COW (A + B)	\$	805.00	\$	0.00
Your Numbers				
RETURNS PER COW <sup>2</sup> % x Weight x Price				
17. Steers: .45 x 590 x 1.90xx	\$	504.45	\$	0.00
18. Heifers: .26 x 570 x 1.65xx		244.53		0.00
19. Cull cows; .14 x 1300 x 0.60xx		109.20		0.00
20. Cull heifers: .05 x 900 x 1.35 x x		60.75		0.00
D. GROSS RETURNS PER COW	\$	918.93	\$	0.00
E. RETURN OVER VARIABLE COSTS (D - A)	\$	233.93	\$	0.00
F. RETURN OVER TOTAL COSTS (D - C) 3	\$	113.93	\$	0.00

<sup>&</sup>lt;sup>1</sup> Information in this budget is based on the North Dakota Farm and Ranch Business Management Annual Report. 2021.

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



<sup>&</sup>lt;sup>2</sup> 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.

<sup>&</sup>lt;sup>3</sup> 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 2021 Beef Farm Report (70% Sales & 50 head Criteria) (Farm Sorted by Net Farm Income)

	Avg. Of All Farms
Number of Farms	17
Assets	
Current Farm Assets	
Cash and checking balance	16,763
Prepaid expenses & supplies	3,291
Growing crops	60
Accounts receivable	10,244
Hedging accounts	352
Crops held for sale or feed	54,661
Crops under government loan	0
Market livestock held for sale	112,568
Other current assets	0
Total current farm assets	197,939
Intermediate Farm Assets	
Breeding livestock	204,258
Machinery and Equipment	114,317
Titled vehicles	29,335
Other Immediate Assets	2,423
Total intermediate farm assets	350,333
Long Term Farm Assets	
Farm land	406,444
Buildings and improvements	28,006
Other long-term assets	4,829
Total long-term farm assets	439,278
Total Farm Assets	987,551
Total Nonfarm Assets	140,911
Total Assets	1,128,461
Liabilities	
Current Farm Liabilities	
Accrued interest	6,730
Accounts payable	7,733
Current notes	59,408
Government crop loans	00,100
Principal due on term debt	37,141
Total current farm liabilities	111,012
Total current furm indulines	111,012
Total intermediate farm liabilities	128,081
Total long-term farm liabilities	320,134
Total farm liabilities	559,227
Total Identification	559,227
Total non-farm liabilities	16,072
Total liabilities	575,299
Total Habilities	575,299
Net worth (farm and non-farm)	553,163
	64,254
Net worth change	04,234



