Cow Calf Cost of Production Estimator

Help

Enter the numbers below in blue text (enclosed in boxes), all others are calculated. Written by Duane Griffith, Montana State University

Breeding Herd Size	350	Calving Percentage	92%
Cull Rate	15%	Rep. Heifers Needed	52.5
		Rep. Heifers Kept	60

_	Total Revenue - Cash Basis			_	
-	Quantity	Weight	Price	Value	_
Steer Calves	161	525	\$0.68	\$57,477	
Heifer Calves	101	500	\$0.63	\$31,815	
Cull Sales -Cows	50	1000	\$0.55	\$27,500	
Cull Sales -Excess Rep. Heifers	7	750	\$0.70	\$3,675	
Cull Bull Sales (Capital Gain/Loss)	2	1600	\$0.35	\$1,120	Cash Sales
_					Brood Co

Total Value Produced

\$121,587 \$347.39

		Omenating	Costs (Voriable Co	- m4 m)		
	_	1	Costs (Variable Co			
Feed	Costs	Units	Quantity	Price	Value	Value/Head
Help	Hay	Ton	820.00	\$50.00	\$41,000	\$117.14
	Pasture Lease # 1	Aum	1333.33	\$9.00	\$12,000	\$34.29
-	Pasture Lease # 2	Aum	100	\$12.00	\$1,200	\$3.43
-	Pasture Lease # 3	Aum	50	\$14.00	\$700	\$2.00
	Pasture Lease # 4	Aum	200	\$10.00	\$2,000	\$5.71
	Salt and Mineral	Ton	7.50	\$320.00	\$2,400	\$6.86
-	Protein Supplement	Ton	60.00	\$250.00	\$15,000	\$42.86
	Crop Residue	Aum	0.00	\$0.00	\$0	\$0.00
	Straw	Ton	0.00	\$0.00	\$0	\$0.00
(Other		0.00	\$0.00	\$0	\$0.00
		-	Subtota	l Feed Costs	\$74,300	\$212.29

	Other Variable Costs			
	Vet and Medicine		\$3,061	\$8.75
	Livestock Hauling		\$375	\$1.07
	Fence Repair		\$9,234	\$26.38
	Hired Labor		\$4,000	\$11.43
Help	Operating Cost - Equipment		\$6,270	\$17.91
<u>-</u>	Operating Cost - Machinery		\$0	\$0.00
	Operating Cost - Vehicles		\$0	\$0.00
	Building and Improvment Repairs		\$450	\$1.29
	Marketing Costs		\$400	\$1.14
	Other		\$6,245	\$17.84
		Subtotal Other Varialbe Costs	\$30,035	\$85.81

Interest on Variable Costs (sum of variable costs * months borrowed * interest rate per month) Annual Interest Rate (enter as a decimal) 10.00% Number of months money borrowed

Interest Costs	\$5,217	\$14.91
Total Operating Costs (Variable Costs)	\$109,552	\$313.01
RETURNS ABOVE VARIABLE COSTS	\$12,035	\$34.39

Ownership (Fixed C			
Help Equipment and Machinery (Enter only that portion allocated	to cow-calf enterp	orise)	
Depreciation		\$16,021	\$45.77
Interest or Opportunity Costs		\$2,400	\$6.86
Personal Property Taxes		\$4,000	\$11.43
Insurance		\$400	\$1.14
Buildings Used for Livestock (Cow-Calf Enterprise)			
Depreciation		\$1,500	\$4.29
Interest or Opportunity Costs		\$3,800	\$10.86
Personal Property Taxes		\$0	\$0.00
Insurance		\$600	\$1.71
Help Land			
Interest or Opportunity Costs		\$14,000	\$40.00
Real Estate Taxes		\$3,500	\$10.00
Livestock Breeding Herd			
Depreciation		\$10,783	\$30.81
Interest or Opportunity Costs		\$7,243	\$20.69
Personal Property Taxes		\$0	\$0.00
Totalian Troporty Tunes		ΨΨ	Ψ0.00
Owner Supplied Labor and Management		\$0	\$0.00
Total Ownership (Fixed) Costs		\$64,247	\$183.56
Total Costs Operating and Ownership Costs		\$173,799	\$496.57
Net Returns Above Total Costs		(\$52,212)	(\$149.18)
Summary of Resu	lts		
Summing of Item	Total	Per Brood Cow	
Total Revenue	\$121,587	\$347.39	
Revenue from Calves only	\$89,292	\$255.12	
Pounds calf produced including Rep. Heifers kept	165,025	471.50	
Pounds of calf sold (excluding Rep. Heifers kept)	135,025	385.79	
Weighted average weaning weight of calves sold		515.36	
Weighted average price/lb of calf sold (excludes rep hfrs)	\$66.13		
Total Operating (Variable) Costs	\$109,552	\$313.01	
Total Ownership (Fixed) Costs	\$64,247	\$183.56	
Total Costs (Operating + Ownership)	\$173,799	\$496.57	
	Breakeven C	Calculations	
	Operating	Total	
	Costs	Costs	

	Breakeven Calculations		
	Operating	Total	
	Costs	Costs	
Required Calving Percentage (Using Weighted Averages)	91.84%	145.70%	
Required Avg. Weaning Weight (Using Weighted Avg Prices)	473.32	750.90	
Required Avg. Calf Prices (Using Weighted Avg Weight)	\$60.73	\$96.35	