



Ministry of Agriculture OLUMBIA and Food

Bison Peace River Spring 1995

Agdex 481-810

Introduction

The planning process provides producers with the opportunity to look at their operation as a group of distinct enterprises. Alternative enterprises should be evaluated on the basis of Margin, Contribution taking into consideration resource constraints, market opportunity, risk and uncertainty.

The Contribution Margin must provide funds for interest, overhead and other indirect expenses as well as a return for living expenses, loan repayment and investment. These items should be included in the overall farm plan which will include a Projected Income Statement and Projected Cash Flow Statement.

Key Factors Affecting Profit

Target	
Heifer Calf Value	\$2300
Weaning %	90%
Liveweight Carcass Value	\$1.60

Selection of good breeding stock will ensure that the cows produce saleable heifers and bull calves with good weight gain. It is important to replace bulls on a regular basis to avoid inbreeding.

Flushing the herd prior to the breeding season is important to ensure a good calf crop.

Shipping and handling practices affect profit through weight loss and shrinkage, therefore it is important to practice good feed management at shipping and reduce animal stress levels through proper handling.

This budget was prepared assuming a four month winter feeding period. A producer with a smaller land base may wish to feed for a longer period of time, and feed expenses would increase accordingly.

Marketing Alternatives

Marketing alternatives for bison include sale of breeding stock to other ranchers, and sale of slaughter bulls for the meat market. There is currently a high demand for breeding stock, causing prices to be high. These prices are not sustainable in a meat market, and it is expected that prices will level off or decline. Full federal inspection allows the marketing of bison outside the province.

Cash Flow Timing

J	F	M	A	M	J	J	A	S	0	N	D
%Inc 35	14				13				13		25
%Exp 5				10			20		25	40	

The above information indicates the timing of monthly flow of funds included in the Contribution Margin only. A complete Projected Cash Flow should include indirect expenses, capital sales and purchases, loans and personal expenses.

Rules of Thumb

Investment	\$5100/cow
Direct Expense % of Income	20%-30%

Agriculture Canada requires mandatory health testing of animals. Currently, there is no charge for this, but they may begin to charge in the near future.

The above indicators are provided for comparison purposes. They are set out as potential targets for bison production.

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BISON

Weaning Percentage - 90%

Contribution Margin 100 Cow Bison Ranch Peace River

Income

	Average				
	Head	Weight	Price	Income	
Slaughter Bulls	40	1100	\$1.60	\$70,400	
Heifer Calves	40	375	2,300**	92,000	
Yearling Bulls	5	850	1,400**	7,000	
Cull Bulls	5	1500	1.00	7,500	
Cull Cows	5	1000	0.75	3,750	
Total Income				\$180,650	
Direct Expense	es				

	Quantity	Unit	Price /Unit	Total Expense
Purchased Fee	d			I
Hay:				
Cows	120	tons	40	\$4,800
Bulls	15	tons	40	600
Young Heifers	3	tons	40	120
Young Bulls	88	tons	40	3,520
Grain:				
Feeder Bulls	54	tons	65	3,510
Feed Supplem	ents			
Salt & Minera	ıls 2	tonne	700	1,400
Bull Purchase	5	bulls	2,800	14,000
Supplies & Ser	vices			
Vet & Medicine	e			2,000
Fuel, Oil & Lu		3,500		
Machinery Rep	pair & Mair	itenance		1,500
Fence & Corra	l Repairs			1,500
Custom Pastur	e Renovatio	on		4,400
Total Direct	Expense			\$40,850
Contribution Margin \$				139,800
**These figure	s are based	l on cur	rent mar	ket prices,

**These figures are based on current market prices, which reflect a strong market for breeding stock. This income level is not sustainable over the long term and prices will eventually decline to meat.

Buildings and Machinery and Livestock Investment Total Farm Size - 1,280 Acres

Breeding Stock	\$420,000
Farm Equipment	20,000
Fencing	38,500
Handling Facilities	10,000
Watering Facilities	10,000
Vehicle	12,000
Total	\$510,500

 $Graphic \, not available$

Contribution Margin -Sensitivity Analysis

The table below lists the changes to contribution margin as price received for slaughter bulls and heifer calves varies.

Heife Calf (Livewei 1.30	ight \$/lb 1.60	1.75
600	45,400	58,600	71,800	78,400
1,200	69,400	82,600	95,800	102,400
1,800	93,400	106,600	119,800	126,400
2,300	113,400	126,600	139,800	146,400

This information is provided as a guideline only. Target yield indicates above average production. An individual crop plan should be developed by each producer. Planning forms may be obtained from your local office of the B.C. Ministry of Agriculture, Fisheries and Food.