



Ministry of Agriculture

160 Head Cow-Calf Enterprise Kamloops Fall 1998 Agdex 422 - 810

Introduction

The planning process provides producers the opportunity to look at their operation as a group of distinct enterprises. Alternative enterprises should be evaluated on the basis of **Contribution Margin**, 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	
Weaning Weight	600 lbs/steer
	565 lbs/heifer
Calves Weaned as %	
of Cows Overwintered	94%

For heavy fall calf weights high quality forage should be available to the calf, especially in the three month period prior to weaning.

To wean a 94% calf crop requires open cows to be culled in the fall, a good calf health program and good husbandry practices. Meeting the nutritional requirements of the cow particularly prior to and right after calving will increase the conception rate and thus reduce the number of open cows.

Shrink reduces profit through weight loss, therefore it is important to minimize animal stress levels through proper handling procedures during marketing.

Forage used by the cow-calf enterprise has been transferred from the crops enterprise at market value.

Marketing Alternatives

Calves are usually marketed in the fall. They may be sold privately to a livestock buyer or a feeder. Often they are sold through a central market either through an auction sales yard or by computer. All methods involve shrink and weighing conditions which are key factors affecting the net market returns. When budgeting, it is imperative to use average prices, not just the price for an exceptional lot or the best market price received.

Cash Flow Timing

Ī		\boldsymbol{J}	F	M	A	M	\boldsymbol{J}	J	A	S	0	N	D
l	%Inc	;			5							95	
	%Inc %Ex	4	2	16	3	5	5	5	4	5	6	2	15

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

Total Assets per Cow (less than) \$5,000 Direct Expense % of Income 40% - 50% Debt per Cow (less than) \$700

The above indicators are provided for comparison purposes. They are set out as **potential targets** for the cow-calf production. These indicators have been realized by the top third of the ranchers who participated in the Cow-Calf Farm Business Analysis program 1989 - 1993.

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Business Management Specialist

Kamloops

COW - CALF RANCH Target - 530 lbs/cow wintered

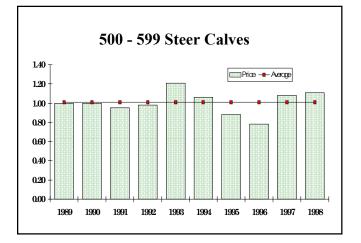
Contribution Margin Per 100 Cows Kamloons

Kamioops						
Income		Avg	Price			
	Head	Weight	/lb	Income		
Steers	47	_	\$1.102	\$30,027		
Heifers	29	523	1.005	15,244		
Cull Yearling Heife		800	0.918	2,203		
Cull Cows	13	1,140	0.496	7,346		
Cull Bulls	1	1,900		1,151		
Less Bull Purchase	1	1	2,000	(2,000)		
Total Income			,	\$53,771		
				· ,		
Direct Expense						
r · · · ·	Head	Input	Price	Total		
		Γ		Expense		
Hay:		Tons		Γ		
Cows	100		\$90.00	\$21,870		
Bulls	4	2.84	90.00	1,022		
Repl Hfr Calvs	18	1.22	90.00	1,976		
Pasture:	ΑU	Mons	AUM	,		
Spring	120	1	12.00	1,440		
Fall	120	1	12.00	1,440		
Barley:		Lbs		-,		
Cows	85	100	0.091	774		
Bred Heifers	15	300	0.091	410		
Bulls	4	300	0.091	109		
Repl Hfr Calvs	18	300	0.091	491		
Grazing Permit	119	4.75	2.03	1,147		
Feed Supplements	Head	Days		, .		
Mineral & Salt	122	365	0.017	736		
Supplies & Services			Cow			
Bedding	100		0.00	0		
Livestock Spls	100		3.00	300		
Vet & Medicine	100		19.58	1,958		
Machinery Operation				,		
Fuel and Oil	100		12.50	1,250		
R & M	100		12.00	1,200		
Marketing	Head		Head	,		
Trucking	93		8.00	744		
Mktg Charges	93		15.00	1,395		
BIDB, Brand Ins			2.75	256		
Total Direct Exp				\$35,518		
Contribution	Margi	n	9	\$15,253		

Buildings, Machinery and Livestock Investment Farm Size - 160 Cultivated Acres

(Does not include having equipment)

Buildings	\$30,000
Machinery	35,000
Cow Herd	170,000
Vehicles	10,000
Total	\$245,000



Contribution Margin -Sensitivity Analysis

The table below lists the changes to Contribution Margin as weaning weights, weaning percentage and steer price varies.

Steer Price	Weaning Weight Steers (Heifers 35 lbs less)					
	54 0					
\$0.90	2,525	3,837	5,149	6,461		
1.00		8,699				
1.10	12,016	13,634	15,253	16,871		
1.20	16,655	18,423	20,192	21,960		

Weanin Percent		Weaning Weight Steers (Heifer 35 lbs less)					
			580				
90%	10,913	11,972	12,999	13,991			
92%	11,992	13,082	14,140	15,160			
94%	13,043	14,164	15,253	16,303			
96%			16,396				

Weaning Weight Steers

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