

Province of British Columbia

Ministry of Agriculture, Fisheries and Food

Agdex 120 - 810

Dryland Grass Forage (Established) **Bulkley Valley Summer 1994**

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 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 Budget.

Key Factors Affecting Profit

:	Target
Quality	63% T.D.N.
	16% Crude Protein
Quantity	1.0 - 1.5 tons/acre

The forage base should consist of a grass legume mix of orchard grass, brome, timothy Forage yields are affected and alsike. primarily by the supply of nutrients and the availability of moisture to the crop. Forage quality is most affected by the stage of maturity at harvest. Proper handling and storage practices will maintain as much quality as possible for feeding. Irrigation may enhance yields. Fencing may be required to protect hay fields from damage by livestock.

Marketing Alternatives

Limited opportunities exist to market grass hay. The majority of the crop is produced for consumption on the farm. Farm operations would realize income when forage is transferred to a livestock enterprise. It is possible to sell excess hay in local markets to individuals with small livestock holdings on limited acreages.

Cash Flow Timing

J F	M	A	M	J	j	A	S	0	N	D
J F %Inc 1515	15	10						15	15	15
%Exp			30	10	50	10				

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.

Labour Time

Fertilizing	15 - 18 min./acre
Harvesting	5 - 6 hours/acre

The above indicators are based on the actual field time with the equipment complement used in this budget, which is assumed to be in top operating condition. Individual operators may vary from this depending on equipment size, land and operator expertise.

Contact:

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GRASS HAY Target Yield - 1.25 Tons D.M./acre

Contribution Margin 1 Acre of Grass Hay Bulkley Valley

Income

	Yield	Price	Unit	Income
Grass Hay	1.0	\$80.00	ton	\$80.00
Grazing	.25	80.00	ton	20.00
Total Income	•			\$100.00

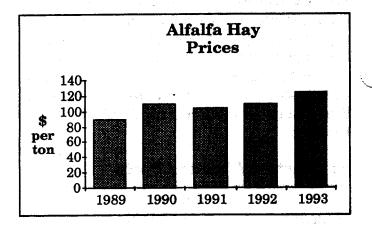
Direct Expenses

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	Quantity	Price	Unit	Expense	
Fertilizer					
17 - 20 -0	150	\$.13	lb.	\$20.10	
0 - 0 - 60	30	.12	lb.	3.70	
Crop Sup	plies and Se	rvice			
Twine	1.0	2.50	ton	2.50	
Machiner	v Costs				
Fertilizin	g			3.25	
Harvestin	_			29.20	
Trucking				2.65	
Total Di	rect Expens	ses		\$61.40	

Contribution Margin

Buildings & Machinery Replacement Cost Total Farm Size - 250 Acres

Buildings	\$30,000
Power Machinery	33,000
Field Equipment	58,200
Harvest Equipment	74,300
Vehicles	18.000
Total	\$213,500
	Section 1985



Contribution Margin - Sensitivity Analysis

The table below lists the changes to contribution margin as yield of hay changes and price received varies.

Price	Yield Tons per Acre.					
\$/ton	.5	.75	1.0	1.25		
60.00	(10)	4	19	33		
80.00	0	19	39	58		
100.00	10	34	59	83		
120.00	20	49	79	108		

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.

\$38.60