

# **Processing Broccoli Fraser Valley Summer 1998**

Agdex 252 - 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 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						
Quantity	4.0 tons/acre (pack-out)					
Price	\$740/ton					

Yield and quality of the product are affected by variety, cultural practices, labour management and harvest timing. This budget assumes a lime application of 2 tons every two years. Cole crops are very susceptible to insect attack. There is no tolerance for insect contamination or damage in product shipped to processors so effective pest control is critical. An integrated pest management program can minimize pesticide costs and ensure pest free crops.

For production recommendations, consult the "Vegetable Production Guide for Commercial Growers" which is available from the Lower Mainland Horiculture **Improvement** Association (604-556-3001).

## **Marketing Alternatives**

All product is grown under contract to processors. Growers must be registered with the Vegetable Marketing Commission. Broccoli is generally cut-up on the farm prior to shipping to the processor. Processors of broccoli include Snowcrest, Packers Ltd., Lucerne Foods and BC Frozen Foods Ltd.

# Cash Flow Timing

	J	F	М	Α	М	J	J	A	S	0	N	D
١	%Inc									50		
	%Inc %Exp			10		20	5	5	30	10	10	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.

#### **Rules of Thumb**

Investment	\$3,500 - \$4,000/acre
Direct Expense % of	Income 80% - 90%

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

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# **PROCESSING BROCCOLI** Target Yield - 4.0 tons/acre

#### **Summer 1998**

# **Contribution Margin** 1 Acre of Processing Broccoli **Fraser Valley**

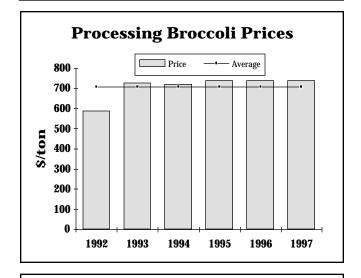
#### **Total Income**

	Yield	Price	Unit	Income
Cut -up Broccoli	4.0	\$740	ton	\$2,960

Direct Expenses							
	Quantity	Price	Unit	Expense			
Plants	10,000	\$0.0125	plant	\$125			
<u>Fertilizer</u>							
12 - 16 - 16	225	0.51	kg	115			
46 - 0 - 0	90	0.49	kg	44			
Lime	1.0	47.00	MT	47			
Solubor	0.04	2.95	kg	1			
Pest Control							
Ambush (2X		176.00	L	42			
Lorsban	0.8	17.90	L	14			
Monitor	0.9	34.50	L	31			
Fuel Costs				185			
Machinery F	R & M			110			
Custom Wor	·k						
Mach. Opera		10.00	hr	130			
Planting	12	8.50	hr	102			
Harvest	50	8.50	hr	425			
Cut Up	4.0	200.00	ton	800			
Marketing							
Board Fees	4.0	6.00		24			
Doard Fees	4.0	0.00		24			
Irrigation W	45						
Total Direc	\$2,240						
Contribu	Contribution Margin \$720						

# **Buildings and Machinery Replacement Cost Total Farm Size - 60 Acres**

Buildings	\$ 28,000
Power Machinery	104,000
Field Machinery	40,000
Product Handling Equip.	16,000
Irrigation System	20,000
Vehicles	40,000
Total	\$248,000



# **Contribution Margin -Sensitivity Analysis**

The table below lists the changes to contribution margin as quantity of yield changes and price changes.

PRICE	. <b>Y</b>	Yield (tons/acre)				
\$/ton	3.3	3.5	4.0	4.5		
<b>560</b>	(172)	(126)	0	126		
660	158	224	400	576		
740	422	504	720	936		
900	950	1,064	1,360	1,656		

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 and Food.