

Cottage Industry Scale Fraser Valley Fall 1996

Agdex 200-71

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.

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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				
Production Efficiency	95%			
Price	\$1.69/1 litre jug			
	\$6.50/4 litre jug			

This budget profiles an entry level, cottage size apple juice processing operation. The costs which are included are made on the basis of this assumption.

Distance to market and volume of sales at each market greatly affects the profitability of this scale of operation.

Potential exists for entry level operations to produce more sophisticated products but higher packaging costs will be incurred in order to market these products successfully.

Marketing Alternatives

Small processors have the option of selling their products through their own farm stands or at local farmers' markets. The option also exists to sell a larger volume through local roadside stands and to restaurants for a lower than retail price.

Cash Flow Timing

J	F	М	Α	М	J	J	Α	SOND
%Inc								30 60 10
%Exp								60 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

Direct Expenses % of	f Income 40% - 50%
Production Labour	15 hours/1,000 litres
Marketing Labour	5 hours/1,000 litres

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

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APPLE JUICE PRODUCTION Entry Level Operation

Contribution Margin Cottage Production Scale Fraser Valley 10,000 litres

Income

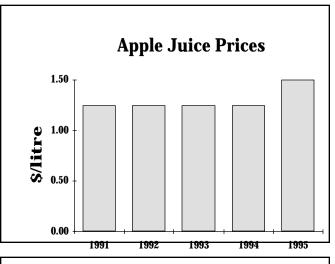
	Yield	Price	Unit	Income
One Litre Jugs Four Litre Jugs	$5,000 \\ 1.250$	\$1.69 6.50	ea ea	\$8,125 8,125
Total Income	1,200	0.00	cu	\$16,250

Direct Expenses

	Quantity	Price Unit		Expense		
<u>Ingredients</u> Apples	35,000	0.10	lb.	\$3,500		
Packaging						
Jugs -1 litre	5,263	0.20	ea	1,052		
4 litre	1,315	0.33	ea	428		
Lids	6,578	0.03	ea	197		
Labels	6,578	0.14	ea	930		
Fuel, Oil, LubricationMachinery R & MMarket FeesHydro						
Total Direct Expenses \$6,625						
Contribut	\$9,950					

Building and Equipment Replacement Cost

Building	\$ 3,750
Storage	6,500
Juice Press and Grinder	6,500
Elevator	1,000
Bins	750
Other	<u> </u>
Total	\$19,000



Contribution Margin -Sensitivity Analysis

The table below lists the changes to the contribution margin as production efficiency changes and price received varies.

PRICE]	Efficien	су	
\$/litre	80 %	90%	95%	100%
1.00	1,671	2,523	3,375	3,823
1.25	3,671	4,773	5,875	6,455
1.66	6,931	8,440	9,950	10,744
2.00	9,671	11,523	13,375	14,349

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 BC Ministry of Agriculture, Fisheries and Food.