# PLANNING FOR PROFT 

BR HH Ministry of Agriculture,<br>Fisheries and Food Apple J uice<br>Cottage Industry Scale<br>Fraser Valley<br>Fall 1996

## 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 |  |
| :--- | ---: |
| Production Efficiency  <br> Price 95\% <br>  $\$ 1.69 / 1$ litre jug <br>  $\$ 6.50 / 4$ 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



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 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 J UICE PRODUCTION Entry Level Operation 

| Contribution Margin Cottage Production Scale Fraser Valley 10,000 litres |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Income |  |  |  |  |
|  | Yield | Price | Unit | Income |
| One Litre J ugs | 5,000 | \$1.69 | ea | \$8,125 |
| Four LitreJ ugs | 1,250 | 6.50 | ea | 8,125 |
| Total Income |  |  |  | \$16,250 |
| Direct Expenses |  |  |  |  |
| Quantity |  | Price | Unit | Expense |
| Ingredients |  |  |  |  |
| Apples | 35,000 | 0.10 | lb. | \$3,500 |
| Packaging |  |  |  |  |
| J ugs-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, Lubrication |  |  |  | 52 |
| Machinery R \& M |  |  |  | 229 |
| Market Fees |  |  |  | 200 |
| Hydro |  |  |  | 37 |
| Total Direct Expenses |  |  |  | \$6,625 |
| Contribution Margin |  |  |  | \$9,950 |


| Building and Equipment <br> Replacement Cost |  |
| :--- | ---: |
| Building | $\$ 3,750$ |
| Storage | 6,500 |
| J uice Press and Grinder | 6,500 |
| Elevator | 1,000 |
| Bins | 750 |
| Other | 500 |
| Total | $\$ 19,000$ |



| Contribution Margin - <br> Sensitivity Analysis |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: |
| The table bel ow lists the changes to the |  |  |  |  |
| contribution margin as production efficiency |  |  |  |  |
| changes and price received varies. |  |  |  |  |
| PRICE | Efficiency |  |  |  |
| $\mathbf{\$ / l i t r e ~}$ | $\mathbf{8 0 \%}$ | $\mathbf{9 0 \%}$ | $\mathbf{9 5 \%}$ | $\mathbf{1 0 0 \%}$ |
| $\mathbf{1 . 0 0}$ | 1,671 | 2,523 | 3,375 | 3,823 |
| $\mathbf{1 . 2 5}$ | 3,671 | 4,773 | 5,875 | 6,455 |
| $\mathbf{1 . 6 6}$ | 6,931 | 8,440 | $\mathbf{9 , 9 5 0}$ | 10,744 |
| $\mathbf{2 . 0 0}$ | 9,671 | 11,523 | $\mathbf{1 3 , 3 7 5}$ | 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.


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