

Queen Rearing Spring 1994

Agdex 616 - 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	1.8 queens/nuc					
Price	\$9.00/queen					
Mating Success	75%					
Grafting Success	80%					

Mating and grafting success can be maximized by proper management. Increasing the number of rounds that can be run through a nucleus colony will improve profitability. Late summer and fall sales are possible.

NB. This budget assumes that half of the labour is hired and half is operator labour.

Marketing Alternatives

Queens can be sold to beekeepers in B.C. and other Canadian provinces where regulations permit. Check with provincial apiarists. The U.S. is a huge, relatively untapped market which has potential because of the Africanized bee problem in the South. Queen banking and overwintering in small nuclei will allow producers to ship queens almost any time of the year.

Cash Flow Timing

J	F	М	A	M	J	J	A	S	0	N	D
%Inc				4 0	60						
%Exp		20	20	20	4 0						

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

Additional Investment* \$38/hive
Direct Expense % of Income 30%-35%
Operator Labour 175-200 hours
*to Honey Operation, Contribution Margin
Summer 1993

The above indicators are provided for comparison purposes. They are set out as potential targets for queen rearing.

Contact:

JOHN GATES, A.I.T.

Apiculture Specialist

Vernon

HOWARD JOYNT, P.Ag. Financial Management Analyst

Vernon

Prepared By: ANDREA GUNNER, P. Ag.

QUEEN REARING Target Yield - 1.8 queens/nuc

Contribution Margin Queen Production per Nucleus Colony

Total Income

	Yield	Price	Unit	Income
Queens	1.8	\$9.00	each	\$16.20

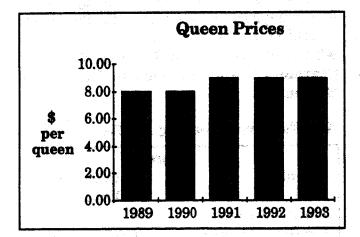
, 약 의 기가 하는 것이 되었다.							
Direct Expenses							
Qua	ntity	Price	Unit	Expense			
Feed			* *				
Sugar (nucs)	.25	\$,70	kg	\$.18			
Sugar (builders)	.13	.70	kg	.09			
Sugar (splits)	.04	.70	kg	.03			
Pollen Patty	2	.25	each	.50			
Cage Candy	1.8	.01	queen	.02			
Feed Supplemen	its						
Funegillin				.23			
Supplies & Serv	ices						
Cell cops	2.25	.04	each	.08			
Queen Cages	1,8	.16	each	.28			
Cartons	1.8	.06	each	.10			
Labour*							
Set Up	.045	11.50	hour	.52			
Three Rounds	.14	11.50	hour	1.66			
Clean Up	.05	11.50	hour	.58			
Envelopes, Labe	l & In	voices		.01			
Postage	1.8	.15	each	.27			
Fuel, Oil & Lub				.10			
Equipment R &	M			.19			
Total Direct E	xpens	1 08 3 4 6 5		\$4.84			
Contributio				\$11.36			

includes UIC, CPP, etc.

Buildings and Machinery Replacement Cost* Total Farm Size - 1,000 Nucs

Grafting House	\$5,000
Nuc Boxes (250)	5,750
Frame Feeders (500)	3,000
Bear Fences	800
Hive Wintering Equipment	400
Total	\$14,950

* Equipment listed is in addition to that required for existing Honey Contribution Margin, Summer 1993.



Contribution Margin – Sensitivity Analysis

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

PRICE	Y	Yield Queens per Nuc					
\$/queen	1.2	1.5	1.8	2.4			
9.00	6.88	9.12	11.36	15.48			
9.50	7.48	9.87	12.26	16.68			
10.00	8.08	10.62	13.16	17.88			
10.50	8.68	11.37	14.06	19.08			

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.