

Organic Garlic Southern Interior Spring 1992

Agdex 264 - 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 **Gross Margin**, taking into consideration resource constraints, market opportunity, risk and uncertainty.

The Gross 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	7,500	lbs./acre	
Price	\$3.00-5	\$6.00/lb.	
Labour	r	Total Hours/Acre	
Cover Crop		3	
Bed & Seed Prep,	Plant	136	
Compost & Mulch		100	
Irrigate		16	
Weed & Clip Seed	Pods	183	
Harvest		150	
Clean, Grade, Bra	id & M	larket 331	

Garlic is an extremely labour-intensive crop, especially when grown organically. The field should be kept as weed-free as possible since garlic is a poor competitor. Garlic is also a very heavy feeder and requires adequate amounts of nitrogen and phosphorous to achieve maximum bulb fill. A rotation which includes at least one green manure crop will maintain good soil structure and provide soil nutrition.

Marketing Alternatives

The major markets which presently exist for organic garlic are with health food stores, vegetarian restaurants, fruit & vegetable stands, farmer's markets and farm-gate sales. Both bulb size and a major marketing commitment are critical factors in the success of the operation.

Cash Flow Timing

J	F	MA	MJ	JASOND
%Inc				30 30 20 20
%Exp		5	5	10 20 60*

*Planting expense incurred in the previous year. The above information indicates the timing of monthly flow of funds included in the Gross Margin only. A complete **Projected Cash Flow** should include indirect expenses, capital sales and purchases, loans and personal expenses.

Rules of Thumb

Investment	\$10,000-\$15,000/acre
Direct Expense	% of Income 25% - 35%
Total Labour	900 - 1,200 hours/acre

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

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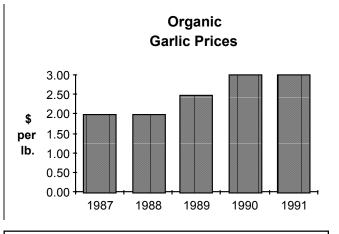
ORGANIC GARLIC Target Yield - 7,500 lbs/acre

Gross Margin One Acre of Organic Garlic

Income*					
	Yield	Price	Unit	Income	
Bulk Garlic	6,000	\$3.00	lb.	\$18,000	
Braided Garlic	750	6.00	lb.	4,500	
Seed Garlic	750	0.00	lb.	0	
Total Income				\$22,500	
Direct Expen	ses				
	antity	Price	Unit	Expense	
Seed Garlic	750	\$3.50	lb.	\$2,625	
Cover Crop	50	.64	lb.	32	
1					
Compost					
Manure	40	5.00	yard	200	
Straw	400	1.00	bale	400	
Mulch				100	
Straw	400	1.00	bale	400	
Fuel, Oil & Lu	hricatio	-		6	
Machinery Rep			naa	138	
Machinery Kep		wannena	ince	138	
Contracts & Cu	istom V	Vork			
Plow 50					
Harrow				50	
Seed Preparati	on 14	6.84	hour	96	
Plant	40	6.84	hour	273	
Compost	36	6.84	hour	246	
Mulch	24	6.84	hour	164	
Weed	70	6.84	hour	479	
Harvest	100	6.84	hour	684	
Clean & Root	Frim56	6.84	hour	380	
Grade & Sort	56	6.84	hour	380	
Braid	42	6.84	hour	285	
(Hours of Hired Labour $= 438$)					
Cartons	600	.50	each	300	
Total Direct	Expens	ses		\$7,188	
Gross Margin \$15,312					
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*Income is rece	ervea in	the yea	I TOHOW	ing planting.	

Buildings and Machinery Replacement Cost Total Farm Size – 2 Acres

Buildings	\$10,000
Drying Racks & Fans Rototiller & Attachments	500 1,000
Mower	400
Irrigation	150
Small Tools & Other	650
Total	\$12,700



Gross Margin - Sensitivity Analysis

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

PRICE	2 Y	ield lbs	. per Ac	per Acre		
\$/lb.	4,000	6,000	8,000	10,000		
1.50	(1,048)	1,872	4,062	7,712		
2.00	952	4,872	7,812	12,712		
3.02	4,952	10,872	15,312	22,712		
4.00	6,952	13,872	19,062	27,712		

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.