

Southwest British Columbia Small-Scale Farm Enterprise Budget: Fresh Market Bean (Bush Bean)



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This enterprise budget presents costs and returns for a 0.02 acre of fresh market beans grown on a small-scale mixed vegetable farm in southwest British Columbia, Canada. The sample values are typical of small-scale cucurbit crop production using low-input growing methods and selling directly to consumers through venues such as farmers' markets. These values were derived from data gathering sessions with representative farmers from the region, but do not represent any particular farm, and should be used only as a guide. The actual costs of production may vary from farm to farm depending on production method and scale, machinery use and other input costs. This budget is also available as a dynamic MS Excel spreadsheet to facilitate more detailed planning for your own operation. Please refer to the "Institute for Sustainable Food Systems Enterprise Budget User Guide for assistance in tailoring the spreadsheet to your own farm.

Assumptions:

- 1) The fresh market bean crop area is 0.02 acre, consisting of two beds, each measuring 4' x 100' (400 square feet per bed) grown on a small-scale mixed-vegetable farm.
- 2) Fresh market bean takes three months from seed to harvestable maturity.
- 3) An annual land rent of \$400 per acre is included in overhead charges.
- 4) Physical farm labourers (regular labour) are paid \$12 per hour.
- 5) Equipment operators (operator labour) are paid \$15 per hour.
- 6) The proportion of sales of fresh market bean to the total annual sales of 16 crops, grown on a 2-acre mixed vegetable farm, is used to allocate marketing costs to the fresh market bean enterprise.
- 7) The proportion of the farm's total cultivated acreage used to grow fresh market beans is used to allocate fixed costs to the fresh market bean enterprise.
- 8) Fuel cost is \$1.30 per liter.
- 9) The interest rate is fixed at 5%.
- 10) The annual fixed cost is estimated using the straight-line depreciation method.
- 11) Management time is not included as a cost. The net return over total cost may be considered as the return to management time.



REVENUE					
Item	Quantity per 0.02 Acre	Unit	\$ per unit	\$ per 0.02 Acre	\$ per 100' Bed
Fresh Market Beans (Bush Bean)	1,400.00	pounds	\$3.00	\$4,200.00	\$2,100.00

ANNUAL VARIABLE COST					
Item	Quantity per 0.02 Acre	Unit	\$ per unit	\$ per 0.02 Acre	\$ per 100' Bed
Seeds and Plants					
Seed	8000.00	seeds	0.01	48.00	24.00
Cover crop seeds				6.00	3.00
Fertility and Nutrients					
Compost (Chicken manure)	60.00	pounds	0.60	36.00	18.00
Lime	30.00	pounds	0.30	9.00	4.50
Other Materials					
Plastic bags				10.00	5.00
Land Preparation					
Custom plowing				4.80	2.40
Apply pre-plant amendments (lime, manure) – regular labour	6	hours	12.00	72.00	36.00
Prepare for planting (form beds, irrigation set-up, etc) – regular labour	1	hours	12.00	12.00	6.00
Planting					
Transplanting (potting up, moving, transplanting) – regular labour	2	hours	12.00	24.00	12.00
Pest Management					
Weeding (hoeing and hand- weeding) – regular labour	70	hours	12.00	840.00	420.00
Other Activities					
Irrigating (manage drip or overhead) – regular labour	0.5	hours	12.00	6.00	3.00
Post-Harvest Activities					
Harvesting – regular labour	140	hours	12.00	1,680.00	840.00
Miscellaneous Expenses					
Repair and maintenance				18.15	9.08
Interest on working capital				34.57	17.29
Marketing				617.00	308.50
		TOTAL LAB	OUR COST	2,638.80	1,319.40
	TOTAL MATERIAL COST			109.00	54.50
TOTAL MISCELLANEOUS COST			669.73	334.86	
TOTAL VARIABLE COST			3,417.53	1,708.76	

ANNUAL FIXED COST			
Item	\$ per 0.02 Acre	\$ per 100' Bed	
Machinery			
Tractor	11.63	5.81	
Pick-up truck	32.08	16.04	
Trailer	0.75	0.38	
Equipment and tools	5.71	2.85	
Building and shelter	5.05	2.53	
Overhead charges			
Land rent	8.40	4.20	
Soil test	1.05	0.53	
Farm liability insurance	8.82	4.41	
Motor vehicle insurance	21.84	10.92	
Office expenses	5.25	2.63	
Telephone and internet	0.00	0.00	
TOTAL ANNUAL FIXED COST	105.82	52.91	

TOTAL COST	\$ per 0.02	\$ per 100'
	Acre	Bed
TOTAL FIXED AND VARIABLE COST	3,523.35	1,761.68

NET RETURNS			
Item	\$ per 0.02	\$ per 100'	
	Acre	Bed	
Return Over Variable Cost	782.47	391.24	
Return Over Fixed Cost	4,094.18	2,047.09	
Return Over Total Cost	676.65	338.32	

MACHINERY INFORMATION					
Item	Туре	Purchase Price (\$)	Trade-in Value (\$)	Useful Life (Years)	
Tractor	23 HP	16,000.00	1500.00	20	
Rototiller	48" (new)	4,000.00	1500.00	15	
Manure spreader	used	5,000.00	0.00	10	
Pick-up truck	new	35,000.00	0.00	15	
Trailer	used	1,000.00	0.00	20	

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