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This enterprise budget presents costs and returns for a 0.03 acre of zucchini 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 zucchini crop area is 0.03 acre, consisting of three beds, each measuring $4^{\prime} \times 100^{\prime}$ ( 400 square feet per bed) grown on a small-scale mixed-vegetable farm.
2) Zucchini 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 zucchini to the total annual sales 16 crops, grown on a 2 -acre mixed vegetable farm, is used to allocate marketing costs to the zucchini enterprise.
7) The proportion of the farm's total cultivated acreage used to grow zucchini is used to allocate fixed costs to the zucchini 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 <br> per 0.03 <br> Acre | Unit | \$ per <br> unit | \$per 0.03 <br> Acre | \$ per 100' <br> Bed |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Zucchini | $1,200.00$ | pounds | $\$ 2.50$ | $\$ 3,000.00$ | $\$ 1,000.00$ |


| ANNUAL VARIABLE COST |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Item | Quantity per 0.03 Acre | Unit | \$ per unit | $\text { \$ per } 0.03$ Acre | $\begin{gathered} \$ \text { per 100' } \\ \text { Bed } \end{gathered}$ |
| Seeds and Plants |  |  |  |  |  |
| Seed | 275.00 | seeds | 0.13 | 35.75 | 11.92 |
| Cover crop ( winter weed) seed |  |  |  | 9.00 | 3.00 |
| Fertility and Nutrients |  |  |  |  |  |
| Compost (Chicken manure) | 90.00 | pounds | 0.60 | 54.00 | 18.00 |
| Lime | 45.00 | pounds | 0.30 | 13.50 | 4.50 |
| Other Materials |  |  |  |  |  |
| Potting mix |  |  | 6.00 | 6.00 | 2.00 |
| Trays | 5.00 | trays | 1.20 | 6.00 | 2.00 |
| Mulch (BioTelo) | 450.00 | feet | 0.14 | 63.00 | 21.00 |
| Land Preparation |  |  |  |  |  |
| Custom plowing |  |  |  | 4.80 | 1.60 |
| Apply pre-plant amendments (lime, compost) - regular labour | 2.5 | hours | 12.00 | 30.00 | 10.00 |
| Prepare for planting (form beds, irrigation set-up, etc) - operator labour | 0.5 | hours | 15.00 | 7.50 | 2.50 |
| Planting |  |  |  |  |  |
| Transplanting ( potting up, moving, transplanting) - regular labour | 3 | hours | 12.00 | 36.00 | 12.00 |
| Pest Management |  |  |  |  |  |
| Mulching - regular labour | 10 | hours | 12.00 | 120.00 | 40.00 |
| Other Activities |  |  |  |  |  |
| Irrigating (manage drip or overhead) - regular labour | 0.5 | hours | 12.00 | 6.00 | 2.00 |
| Post-Harvest Activities |  |  |  |  |  |
| Harvesting - regular labour | 22 | hours | 12.00 | 264.00 | 88.00 |
| Miscellaneous Expenses |  |  |  |  |  |
| Repair and maintenance |  |  |  | 29.10 | 9.70 |
| Fuel |  |  |  | 3.30 | 1.10 |
| Interest on working capital |  |  |  | 8.60 | 2.87 |
| Marketing |  |  |  | 330.34 | 110.11 |
| TOTAL LABOUR COST |  |  |  | 468.30 | 156.10 |
| TOTAL MATERIAL COST |  |  |  | 187.25 | 62.42 |
| TOTAL MISCELLANEOUS COST |  |  |  | 371.34 | 123.78 |
| TOTAL VARIABLE COST |  |  |  | 1,026.89 | 342.30 |


| ANNUAL FIXED COST | \$ per 0.03 <br> Acre | \$ per 100' <br> Bed |
| :--- | ---: | ---: |
| Machinery |  |  |
| Tractor | 17.44 | 5.81 |
| Rototiller | 4.56 | 1.52 |
| Pick-up truck | 48.13 | 16.04 |
| Trailer | 1.13 | 0.38 |
| Equipment and tools | 8.56 | 2.85 |
| Irrigation | 16.38 | 5.46 |
| Building and shelter | 9.26 | 3.09 |
| Overhead charges | 12.60 | 4.20 |
| Land rent | 1.58 | 0.53 |
| Soil test | 13.23 | 4.41 |
| Farm liability insurance | 32.76 | 10.92 |
| Motor vehicle insurance | 7.88 | 2.63 |
| Office expenses | 15.12 | 5.04 |
| Electricity | 15.75 | 5.25 |
| Water | 7.88 | 2.63 |
| Telephone and internet | $\mathbf{2 1 2 . 2 3}$ | $\mathbf{7 0 . 7 4}$ |
| TOTAL ANNUAL FIXED COST |  |  |


| TOTQAL COST | \$ per 0.03 <br> Acre | \$ per 100' <br> Bed |
| :--- | :---: | :---: |
| TOTAL FIXED AND VARIABLE COST | $1,239.12$ | 413.04 |


| NET RETURNS |  |  |
| :--- | ---: | ---: |
| Item | \$ per 0.03 <br> Acre | \$ per 100' <br> Bed |
| Return Over Variable Cost | $1,973.11$ | 657.70 |
| Return Over Fixed Cost | $2,787.77$ | 929.26 |
| Return Over Total Cost | $1,760.88$ | 586.96 |


| MACHINERY INFORMATION |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Item | Type | 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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