

Southwest British Columbia Small-Scale Farm Enterprise Budget: **Honey Bee**



Technical Bulletin 2015-022 kpu.ca/isfs

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This enterprise budget presents costs and returns for a 50 hives small-scale farm in southwest British Columbia, Canada. The sample values are typical of small-scale hive production. 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 size of the bees is 50 hives
- 2) 15 extra hives are included as replacement
- 3) The interest rate is fixed at 5%
- 4) The annual fixed cost is estimated using the straight-line depreciation method.
- 5) Management time is not included as a cost. The net return over total cost may be considered as the return to management time.



| REVENUE | | | | | | |
|---------------|-----------------------|-----------|---------|-------------|----------|---------------|
| | Quantity /50 Hives | Unit | \$/Unit | \$/50 Hives | \$/Hives | Your estimate |
| Honey | 2000.00 | pounds | 8.00 | 16,000.00 | 320.00 | |
| TOTAL REVENUE | | 16,000.00 | 320.00 | | | |

| ANNUAL VARIABLE COST | | | | | | |
|------------------------------|-----------------------|----------|----------|-------------|----------|---------------|
| | Quantity /50 Hives | Unit | \$/Unit | \$/50 Hives | \$/Hives | Your estimate |
| Bees and Queens | | | | | | |
| Bees | 50 | packages | 175.00 | 8,750.00 | 175.00 | |
| Queens | 25 | number | 135.00 | 3,375.00 | 67.50 | |
| Bee Replacement | 15 | packages | 175.00 | 2,625.00 | 52.50 | |
| Total cost | | | | 14,750.00 | 295.00 | |
| Feed | | | | | | |
| Sugar | 500 | pounds | 1.00 | 500.00 | 10.00 | |
| Pollen Patties | 50 | number | 3.00 | 150.00 | 3.00 | |
| Total feed cost | | | | 650.00 | 13.00 | |
| Medication | | | | | | |
| Formic Acid | 100 | | 4.00 | 400.00 | 8.00 | |
| Fumagilin-B and Oxytet 25 | 1 | | 130.00 | 130.00 | 2.60 | |
| Total medication cost | | | | 530.00 | 10.60 | |
| Harvesting | | | | | | |
| Honey harvesting labour | 24 | hours | \$15.00 | \$360.00 | \$7.20 | |
| Transportation between hives | 1 | | \$100.00 | \$100.00 | \$2.00 | |
| Jars | 3250 | number | \$0.75 | \$2,437.50 | \$48.75 | |
| Label | 3250 | number | \$0.17 | \$552.50 | \$11.05 | |
| Total harvesting cost | | | | \$3,450.00 | \$69.00 | |
| Miscellaneous | | | | | | |
| Cleaning supplies | 1 | | 250.00 | 250.00 | 5.00 | |
| Repair and maintenance | | | | 240.00 | 4.80 | |
| Interest on working capital | | | 5% | 993.50 | 19.87 | |
| Total miscellaneous cost | | | | 1,483.50 | 29.67 | |
| TOTAL VARIABLE COST | | | | 20,863.50 | 417.27 | |

| ANNUAL FIXED COST | | | | | |
|---------------------|-------------|---------|---------------|--|--|
| Item | \$/50 hives | \$/hive | Your estimate | | |
| Bee boxes | 2,414.86 | 48.30 | | | |
| Equipment and tools | 381.72 | 7.63 | | | |
| Overhead | 126.00 | 2.52 | | | |
| TOTAL FIXED COST | 2,922.57 | 58.45 | | | |

| TOTAL COST | \$/50 hives | \$/hive | Your estimate |
|-------------------------------|-------------|---------|---------------|
| TOTAL VARIABLE AND FIXED COST | 23,786.07 | 475.72 | |

| NET RETURN | | | | | |
|-----------------------------|-------------|---------|---------------|--|--|
| Item | \$/50 hives | \$/hive | Your estimate | | |
| Returns Above Variable Cost | -4,863.50 | -97.27 | | | |
| Returns Above Fixed Cost | 13,077.43 | 261.55 | | | |
| Returns Above Total Cost | -7,786.07 | -155.72 | | | |

ACKNOWLEDGMENTS

The authors would like to express our sincere appreciation to all the farmers who contributed information used to develop this enterprise budget. We would also like to thank Chris Bodnar, co-owner of Close to Home Organics Ltd, and Heather Pritchard, farm program manager at Farm Folk City Folk, for helping us connect with experienced farmers. We would like to recognize Kwantlen Polytechnic University's Michael Bomford (Sustainable Agriculture & Food Systems) and Caitlin Dorward (Institute for Sustainable Food Systems) for their invaluable input to this document. Finally, we would like to acknowledge the financial support provided by Vancouver City Savings Credit Union (VanCity).