

# BHMP 2024

## Bee Health Monitoring Plan



### BHMP Options

		<u>Per yard</u>
<b>Option 1</b>	<b>Varroa, Nosema, AFB, EFB, 3 Viruses*</b>	\$250
<b>Option 2</b>	<b>Varroa, Nosema, AFB, EFB</b>	\$215
<b>Option 3</b>	<b>(*Self-sampling) Varroa, Nosema, AFB, EFB</b>	\$110

**\*3 viruses** – Deformed Wing Virus, Sacbrood Virus, Black Queen Cell Virus

**\*Self-sampling** – Instructions and materials will be provided via mail

### Add ons:

**Tracheal mites:** (\$25/sample)

**2 viruses:** Acute Bee Paralysis Virus & Israeli Acute Paralysis Virus (\$25/sample)

**Nosema:** (additional) (\$20/sample)

**Syrup test:** Specifically recommended if syrup is held over from spring for use as winter feed in the fall (\$15/sample)

▶▶ If your diagnostic needs are different than the three listed options please call or email us and we'll try to adapt our offerings.

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Prices are listed per yard/per visit

For a spring and fall visit: listed price X2. This way producers can choose the amount of sampling they need.

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### How we sample:

- Varroa • 10 colonies individually sampled per site (10 samples)
- Nosema • 10 colonies pooled (1 sample per site)
- AFB/EFB • 10 colonies pooled (1 sample per site)
- Tracheal • 10 colonies pooled (1 sample per site)
- Viruses • 10 colonies pooled (1 sample per site\*)

\*Bees for virus samples are delivered to the lab live or as close to live as possible, thus this typically requires a visit by the KRTP or other coordination

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### About the BHMP

The BHMP is designed to provide Manitoban beekeepers with additional resources to help monitor the health of their colonies at multiple time points over the beekeeping season.

Rigorous implementation of Integrated Pest Management (IPM) and Best Management Practice strategies can help lower annual colony loss, reduce the use of chemical treatments and antibiotics, lower operating costs, and decrease the risk of developing resistant pests and pathogens.

Given that beekeeping practices continually evolve and each year varying seasonal factors influence hive management regimes, we will also provide a form to collect colony management history. This brief questionnaire helps us to better understand your specific practices and conditions that influence colony statuses across your apiary.

Additional testing is available via the National Bee Diagnostic Center (pesticide residues, antibiotic residues, AFB spores in honey, etc) in Beaverlodge, AB. Please check their website:

<https://www.nwpolytech.ca/nbdc/submitsamples.html>

### Estimated time to receive results:

Sample	Processed by:	Time
Varroa	KRTP	3 days
Nosema	KRTP or MB Vet Lab	1 week
Virus	MB Vet Lab	2 weeks
AFB/EFB	NBDC	3 weeks
Tracheal	NBDC	3 weeks

We aim to return varroa, nosema, and syrup results within 24-48 hours, but it may take longer in some cases.

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For more information contact Matthew:  
krtpmb@gmail.com or (204) 698-7399

# BHMP 2024

## Bee Health Monitoring Plan



### Registration

Indicate visit periods, option, and number of yards

Spring & Fall

Spring only

Fall only

**Option 1:** Varroa, Nosema, AFB, EFB, 3 Viruses

\$250

**Option 2:** Varroa, Nosema, AFB, EFB

\$215

**Option 3:** Self-sampling Varroa, Nosema, AFB, EFB

\$115

Per yard

### Add-ons

Tracheal mites (\$25): # of samples requested \_\_\_\_\_

2 Paralysis Viruses (\$35): # of samples requested: \_\_\_\_\_

Syrup (\$15): # of samples requested: \_\_\_\_\_

**Include yard name and GPS location:**

#1 \_\_\_\_\_

#2 \_\_\_\_\_

#3 \_\_\_\_\_

**Name:** \_\_\_\_\_ **Phone:** \_\_\_\_\_

**Company name:** \_\_\_\_\_

**Email:** \_\_\_\_\_

**Address:** \_\_\_\_\_

► Ten colonies are sampled per site, would you like to choose 10 specific colonies?

**Specific 10**  **Random**

*(If specific colonies, must be identified by beekeeper prior to sampling visit)*

# BHMP 2024

## Bee Health Monitoring Plan



### Sample visit date:

Spring and fall sampling can be completed before or after miticide/or *nosema* treatment. Do you have a preference?

**Spring** Before  After       **Fall** Before  After       **No preference**

If you have a date range/preferred week for your first visit, please list it here:

### Terms

**Cost & Payment:** Beekeepers will be invoiced directly upon receipt of a complete and signed registration form. Payment in full (by cheque or e-transfer) will be required before spring sampling is completed. Additional payment detail will be noted on the invoice.

**Protection of Privacy:** All information you share with the Knowledge & Research Transfer Program (KRTP) is confidential and will not be released to anyone outside the program (with the exception of the positive diagnostic results noted below that are required to be shared only with the Provincial Apiarist).

The KRTP may aggregate data to better understand overall trends in bee health. However, in doing so, much care will be taken to protect your privacy. Your name or apiary locations will never be used. Instead, anonymous identification numbers will be assigned to each beekeeper and data will be pooled among regions or over sampling periods to protect apiary locations and specific sampling dates. This data may be shared publicly, but entirely anonymously as stipulated above.

\*If AFB or EFB is detected, the beekeeper acknowledges that positive results are required to be shared with the Provincial Apiarist and may prompt a follow-up inspection by a provincially appointed inspector.

### Sign & date:

Name: \_\_\_\_\_

Date: \_\_\_\_\_

### KRTP Contact:

Matthew Polinsky  
krtpmb@gmail.com  
(204) 698-7399



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Agricultural Partnership**

# Hygienic Testing

## Freeze-kill brood assays (FKB)



### Hygienic Testing

- Hygienic testing will be performed only once per year. The KRTP will provide liquid nitrogen and labour to freeze two patches of brood for each selected colony. The beekeeper will be required to take pictures of the frozen patches exactly 24 hours later and send them to the KRTP to complete the assessment process.
- For those choosing to Bee Health Monitoring Plan option, the hygienic testing will be done on that spring sampling date.
- For those choosing only hygienic testing option please indicate a preferred week when you would like the testing done. The KRTP will do its best to accommodate your requested date.

Preferred week: \_\_\_\_\_

Hygienic Testing	Cost per hive	Number of hives	Service Fee	Total = (\$15 X # hives + service fee)
FKB (with Monitoring Plan option)	\$15		None	
FKB	\$15		\$150	

### Manitoba Hygienic Bees – Beekeeper Network

\*If you would like your results included in a KRTP datasheet of hygienic scores from beekeepers who completed testing, please indicate below. This will connect beekeepers using FKB assays in case they wish to exchange stock or frames of eggs at their convenience.

- Results with 70% hygienic score and higher will be entered into the Google Sheet.

Add me to the group:    Yes                       No

### Sign & date:

Name: \_\_\_\_\_

Date: \_\_\_\_\_

### KRTP Contact:

Matthew Polinsky  
krtpmb@gmail.com  
(204) 698-7399



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